New set of experimental wavenumber values for visible part of emission spectrum (545 ÷ 627 nm) of the $D_2$ molecule with partly resolved fine structure of triplet-triplet rovibronic transitions

B. P. Lavrov$^1$,∗ and I. S. Umrikhin$^1$

$^1$Faculty of Physics, St.-Petersburg State University, St.-Petersburg, 198504, Russia

New set of wavenumber values for electronic–vibro–rotational (rovibronic) transitions in limited part of the emission spectrum of the $D_2$ molecule (545 ÷ 627 nm) have been measured with a precision $0.007 \div 0.1$ cm$^{-1}$ depending on the translational temperature in plasma, the signal–to–noise ratio, and the degree of overlap with adjacent spectral lines. For the first time partly resolved fine structure of the $D_2$ spectral lines has been observed in the visible part of the spectrum.

Introduction

Experimental studies of the $D_2$ spectrum have been started just after discovery of atomic deuterium [1, 2]. First reports were motivated by the problem of spectroscopic determination of the nuclear spin of deuterium [3, 4] and by appearance of the opportunity to get more information about structure of diatomic molecules $NH$ and $H_2$ from spectra of their isotopic species $ND$ [5], and $HD, D_2$ [6–8]. Later on studies of spectra and structure of molecular deuterium were stimulated not only by understandable general interest (an isotopomer of simplest neutral diatomic molecule — natural touchstone for theoretical models), but because of direct practical value in connection with wide use of $D_2$ in physical experiments and in various applications. However, our knowledge of optical spectrum of molecular deuterium is still insufficient in spite of tremendous efforts by spectroscopists over the previous century. Up to now most of spectral lines have not yet been assigned. As an example, in the latest compilation of experimental data [9] the working list of 27488 recorded lines (within the wavelength range $\approx 309 – 2780$ nm) contains only 8243 assignments.

∗Electronic address: lavrov@pobox.spbu.ru
The band spectrum of the $D_2$ molecule is caused by both singlet–singlet and triplet–triplet radiative electronic–vibro–rotational (rovibronic) transitions\(^1\). The intercombination lines have not yet been observed.

The most interesting resonance singlet band systems are located in vacuum ultraviolet (VUV). Measurements of wavenumbers of separate rovibronic lines and empirical determination of singlet rovibronic term values is in progress up to now \(^{10–15}\). The precision of wavenumber measurements for the $D_2$ rovibronic lines in VUV is now close to 0.05 – 0.1 cm\(^{-1}\)\(^{14}\) by conventional methods, while a laser technique achieved unprecedented accuracy of $\approx 0.006$ cm\(^{-1}\)\(^{11}\).

The triplet transitions are responsible for a major part of light emission of ionized gases and plasma in near infrared, visible and near ultraviolet\(^2\). All empirical data concerning wavenumbers and rovibronic term values of $D_2$ obtained by means of emission, absorption, Raman and anticrossing spectroscopy were collected, analyzed and reported in \(^9\). Since that time very few new experimental data about triplet rovibronic transitions of $D_2$ were obtained by Fourier transform infrared (FTIR) \(^{17}\), IR tunable laser \(^{18}\), and emission \(^{19, 20}\) spectroscopy. It should be noted that at present almost all available experimental data on rovibronic line wavenumbers of the $D_2$ molecule were obtained by photographic recording of emission or absorption spectra.

Our recent studies \(^{19, 20}\) revealed that wavenumber values for triplet rovibronic transitions reported in \(^9\) have significant differences from values predicted by Rydberg-Ritz combination principle and our own data obtained by photoelectric recording \(^{20}\). The minority of the differences is caused by misprints and erroneous line assignments. But vast majority of the differences are about $0.01 \div 0.1$ cm\(^{-1}\) and show random spread around ”synthesized” wavenumber values, calculated as differences of optimal energy level values from \(^{19}\). We suppose that they appear due to a finite precision in reading from photo plates by

\(^1\) Well known and rather important feature of emission spectra of diatomic hydrogen isotopomers — wide (160 – 500 nm) continuum due to spontaneous transitions from vibro–rotational levels of the bond $a^3\Sigma^+_g$ electronic state to the repulsive $b^3\Sigma^+_u$ state — is out of the scope of present paper because it can’t be used for determination of rovibronic term values.

\(^2\) Bands located in visible part of spectrum are especially interesting because they are often used for spectroscopic diagnostics of non-equilibrium plasmas (see e.g. \(^{16}\)).

\(^3\) The same situation was earlier observed for rovibronic transition wavelength values from \(^{21}\) in the $H_2$ spectrum, see e.g. the spread of experimental points on the fig.3 in \(^{22}\).
microphotometric comparators, round-up errors in calculating the wavenumber values from measured in air wavelengths, and shifts of the photographic density maxima for blended lines relative to an actual position of the line centers. This random spread of available wavenumber values together with absence of reliable error bars for each value seriously limited determination of rovibronic term values by means of optimization method [23] when it was applied for an analysis of triplet rovibronic transitions of the $D_2$ molecule in [19].

Therefore we decided to start systematic studies of visible part of emission spectra of the $D_2$ molecule for obtaining more precise and more reliable wavenumber values of rovibronic transitions. The present paper reports first results for certain limited part of the spectrum.

**Experimental**

We used experimental setup described elsewhere [22, 24]. Emission of plasma inside molybdenum capillary located between anode and cathode of a gas discharge tube was used as a light source. The flux of radiation through a hole in an anode was focused by achromatic lens on the entrance slit of the spectrometer. Detailed description of the self-made high resolution automatic spectrometer and corresponding software was reported in [24]. The 2.65 m Ebert-Fastie spectrograph with 1800 grooves per mm diffraction grating was equipped with additional camera lens (that gives effective focus length $F = 6786 \pm 8$ mm) and computer-controlled CMOS matrix detector ($22.2 \times 14.8$ mm$^2$, $1728 \times 1152$ pixels). The apparatus has linear dispersion of $0.076 \div 0.065$ nm/mm in the wavelength range 400 – 700 nm, dynamic range of measurable intensities greater than $10^4$ and maximum resolving power up to $2 \times 10^5$. However, actual resolving power in our conditions was mainly limited by Doppler broadening of the $D_2$ spectral lines due to small reduced mass of nuclei.

It should be emphasized once more that the overwhelming majority of data on the wavenumbers for rovibronic transitions of the $D_2$ molecule was obtained by photographic recording of spectra. Our way of determination of the rovibronic transition wavenumbers developed in [20, 22, 24] is based on linear response of the CMOS matrix detector on the spectral irradiance and digital intensity recording. Both things provide an extremely important advantage of our technique over traditional photographic recording with microphotometric comparator reading. It not only makes it easier to measure the relative spectral line intensities but also makes it possible to investigate the shape of the individual line profiles and,
in the case of overlap of the contours of adjacent lines (so-called blending), to carry out numerically the deconvolution operation (inverse to the convolution operation) and thus to measure the intensity and wavelength of even blended lines. As is well known, it is this blending that makes it very hard to analyze dense multiline spectra of molecular hydrogen isotopomers \cite{9,21}.

It is known that, in the case of long-focus spectrometers, the dependence of the wavelength on the coordinate $x$ along direction of dispersion, is close to linear in the vicinity of the center of the focal plane. It can be represented as a power series expansion over of the small parameter $x/F$, which in our case does not exceed $2 \times 10^{-3}$. On the other hand, the wavelength dependence of the refractive index of air $n(\lambda)$ is also close to linear inside a small enough part of the spectrum. Thus, when recording narrow spectral intervals, the product $\lambda_{\text{vac}}(x) = \lambda(x)n(\lambda(x))$ has the form of a power series of low degree. This circumstance makes it possible to calibrate the spectrometer directly in vacuum wavelengths $\lambda_{\text{vac}} = 1/\nu$, thereby avoiding the technically troublesome problem of accurate measuring the refractive index of air under the various conditions under which measurements are made.

Another peculiarity of our calibration technique is using of experimental vacuum wavelength values from \cite{9} as standard reference data. We already mentioned above that those data show small random spread around smooth curve representing dependence of the wavelengths on positions of corresponding lines in the focal plane of the spectrometer (see e.g. \cite{22}). Moreover those random errors are in good accordance with normal Gaussian distribution function. Thus it is possible to obtain precision for new wavenumber values better than that of the reference data due to smoothing.

To be sure that the data from \cite{9} are free from systematic errors we have had to perform special experiments with capillary-arc lamp analogous to that described in \cite{25} (capillary diameter $d = 1.5$ mm and current density $j = 30$ A/cm$^2$) but filled with the $H_2 + D_2 + Ne$ mixture (1:1:2) under total pressure $P \approx 8$ Torr.

For vacuum wavelength calibration we used bright free of blending lines of the $D_2$ and $H_2$ molecules as well as $Ne$ spectral lines with reference data from \cite{9,21,26} respectively.

As an example the dependence of vacuum line wavelength on its position on CMOS

\footnote{The $x$–coordinate actually represents small displacement from the center of the matrix detector. $F$ is the focal length of the spectrometer mirror.}
FIG. 1: Fragment of dependences of vacuum wavelengths $\lambda_{\text{vac}}$ (a) and the differences $\Delta \lambda_{\text{vac}}$ (b) of the brightest $D_2$, $H_2$ and $Ne$ spectral lines on the coordinate (in pixels) in the focal plane of the spectrometer. Points 1 — the values for $D_2$ molecule from [9]; Points 2 — the values for $Ne$ atom from [26]; Points 3 — the values for $H_2$ molecule from [21]. Solid line represents the approximation of experimental data.

Our measurements showed that, using a linear hypothesis is inadequate and a third–degree polynomial is excessive, while an approximation by a second–degree polynomial provides calibration accuracy better than $2 \times 10^{-3}$ nm. Such a wavelength calibration allows us to get new experimental values for the rovibronic line wavenumbers. The differences $\Delta \lambda_{\text{vac}}$ between the new values and used reference data are shown in fig.1(b). One may see that the differences have certain spread around calibration curve, that does not exceed 0.002 nm. Thus our measurements show that experimental wavenumber values from [9, 21, 26] are in
good agreement with each other. Therefore in our studies of the $D_2$ spectrum the vacuum wavelength values from [9] were used as the reference data set.

Such ”internal reference light source” gave us an opportunity to eliminate experimental wavenumber errors caused by the shift between a spectrum under the study and the reference spectrum from another reference light source, due to a different illumination of the grating by the different lamps (see e.g. [15]).

**Results and discussion**

For small regions of the spectrum ($\approx 0.5$ nm wide)\(^5\) the observed spectral intensity distribution was approximated by superposition of a certain number of Gauss or Voigt profiles with the linewidth $\Delta \nu_{\text{obs}}^6$ equal for all the profiles within a spectral region under the consideration. Thus, optimal values for adjustable parameters (line centers, relative intensities and one common value of $\Delta \nu_{\text{obs}}^6$ for the region) were obtained by solving the reverse spectroscopic problem in the framework of maximum–likelihood principle by means of special computer program based on Levenberg–Marquardt’s algorithm \[27, 28\].

Determination of wavenumber values for line centers (wavenumbers of rovibronic transitions) by means of the deconvolution process described above gives us an opportunity to reach much higher resolution than that predicted by the Rayleigh criterion. This fact may be illustrated by the example shown in fig. 2. It represents experimental intensity distributions (hollow circles) for the same narrow wavenumber range measured under three different conditions:

(a) Hot cathode capillary–arc discharge lamp LD2-D \[29\] under current density $j = 10$ A/cm\(^2\) and gas temperature in plasma $T = 1500 \pm 150$ K\(^7\) (large Doppler width, $\Delta \nu_D = 0.22$ cm\(^{-1}\)) and the entrance slit width $\Delta X = 60$ µm four times over than the so-called normal width (large instrumental profile);

\(^5\) That corresponds to one third of the matrix: 550 – 600 pixels wide.
\(^6\) We use usual meaning for a linewidth, namely full width on half maximum (FWHM). In our case observed linewidth $\Delta \nu_{\text{obs}}^6$ includes both instrumental profile and that of broadening in plasma, mainly due to Doppler effect.
\(^7\) The temperature was obtained from the intensity distribution in $Q$-branch of (2-2) band of $d^3\Pi_u^- \rightarrow a^3\Sigma_g^+$ electronic transition.
FIG. 2: Fragment of the $D_2$ spectrum in the spectral range $17024 - 17028$ cm$^{-1}$ containing $R4$, $R5$ and $R6$ spectral lines for the $(1 - 1)$ band of the $i^3\Pi_g \rightarrow c^3\Pi_u$ electronic transition. Experimental intensity $J$ in counts is shown by open circles. Dotted lines represent Gaussian (a), (b) and Voigt (c) profiles for separate lines obtained by deconvolution, while the solid line corresponds to the total intensity obtained by summing over the components. Cases (a), (b), and (c) correspond to experimental conditions (a), (b), and (c) (see text).

(b) the same conditions in plasma as those for case (a), but the slit width $\Delta X = 15 \mu m$ close to normal (providing optimal width of the instrumental profile);
(c) cold cathode glow discharge in water cooled quartz tube under $j = 0.4$ A/cm$^2$, $T = 640 \pm 50$ K$^8$ (smaller Doppler width $\Delta \nu_D = 0.15$ cm$^{-1}$), and $\Delta X = 15$ µm.

The observed line profiles for strong unblended lines in the cases (a) and (b) were close to the Gaussian shape except for insignificant far wings. Therefore, the intensity distribution was approximated by superposition of a certain number of Gaussian profiles. In the case (c) the gas temperature is lower thus the observed line profiles were determined by Doppler and instrumental broadening. Therefore the intensity distributions obtained in the experiment (c) were fitted by the superposition of a certain number of Voigt profiles.

As the result of the fitting we obtained following values of observed linewidths $\Delta \nu_{obs} = 0.38, 0.27,$ and $0.18$ cm$^{-1}$ for cases (a), (b), and (c) respectively.

One may see that when resolution of optical part of the spectrometer is insufficient (case (a)) then only 3 bright lines are distinguished. Decrease of $\Delta \nu_{obs}$ in the case (b) (due to more narrow instrumental profile) makes it possible to observe that each of those lines consist of two distinguishable components having the same intensity ratio close to 2. Further decrease of $\Delta \nu_{obs}$ in the case (c) (due to smaller Doppler broadening) leads to the same values of the component wavenumbers and ratio of their intensities (see table II).

Joint analysis of splitting in such visible "doublets" (about 0.20 cm$^{-1}$) and relative intensities of two main components of visible "doublets" (about 2.0) show that they represent partly resolved fine structure of lines determined by triplet splitting of lower rovibronic levels of various $(1s\sigma n\pi)^3\Lambda_g \rightarrow (1s\sigma 2p\pi)^3\Pi_u$ electronic transitions.

Present paper reports the results of two main experiments corresponding to cases (a) and (c). The results for wavelength range 545 ÷ 627 nm are presented in Table II$^9$. One may see from the table that the wavelength values obtained in our experiments differ from those collected in [9] not only quantitatively but qualitatively as well. We observed much more lines and part of them could be visible components of the fine structure of rovibronic lines. Detailed analysis of the data is now in progress and will be reported elsewhere.

Separation of observed doublets (0.17±0.01 cm$^{-1}$) corresponds to data obtained by means

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$^8$ The temperature was obtained both from the intensity distribution in Q-branch of (2-2) band of $d^3\Pi_u \rightarrow a^3\Sigma_g^+$ electronic transition and from Doppler broadening of spectral lines.

$^9$ Spectral range for experiment (a) was 400 ÷ 700 nm thus only a part of wavenumbers obtained in this experiment is presented in Table II. Therefore we used original numbering of spectral lines for that experiment, therefore the column $K_1$ does not begin with a unit.
of FTIR \[17\] and laser \[18\] spectroscopy in infrared part of the spectrum. The observed ratio of intensities of these doublets is close to that calculated by Burger–Dorgello–Ornstein sum rule (2.0).

Partly resolved fine structure of spectral lines provides the opportunity to expand the existing identification of triplet rovibronic lines by detecting those doublets in experimental spectra. Within the spectral region under the study (545 ÷ 627 nm) there are more than 200 pairs of unassigned lines which may represent visible doublets of partly resolved triplet structure of rovibronic transitions between \( ^3\Lambda_g \) and \( ^3\Pi_u \) electronic states of the \( D_2 \) molecule.

Obtained results reveal new opportunities for identifying the great number of currently unassigned the \( D_2 \) lines in visible part of the spectrum.

Present work was financially supported in part by the Russian Foundation for Basic Research, Grant No. 10-03-00571-a.

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TABLE I: Wavenumber values $\nu$ (in cm$^{-1}$) of R4, R5 and R6 lines for the (1−1) band of $^3\Pi_y^-\rightarrow^3\Pi_u^-$ electronic transition for three experiments (a), (b) and (c) (see text). $N''$ — quantum number of the total angular momentum of molecule excluding spins of electrons and nuclei for lower rovibronic level of the transition. $\nu_s$ and $\nu_w$ — wavenumbers for strong and weak components of visible doublet. The uncertainties of the wavenumber determination (one SD) are shown in brackets in units of least significant digit.

| $N''$ | $\nu^{(a)}$ | $\nu^{(b)}_s$ | $\nu^{(b)}_w$ | $\nu^{(c)}_s$ | $\nu^{(c)}_w$ |
|-------|-------------|----------------|----------------|--------------|--------------|
| 4     | 17025.12(2) | 17025.14(3)    | 17024.96(3)    | 17025.13(3)  | 17024.96(3)  |
| 5     | 17026.98(2) | 17027.00(3)    | 17026.82(3)    | 17026.99(3)  | 17026.82(4)  |
| 6     | 17025.69(2) | 17025.70(3)    | 17025.52(3)    | 17025.70(3)  | 17025.53(4)  |
| \( K_1 \) | \( \nu^{(a)} \) | \( \nu \) | \( \nu^{(c)} \) | \( K_2 \) | Assignment |
|---|---|---|---|---|---|
| 6296 | 18330.24(6) | 18330.27 | 18330.316(15) | 1 | S+ GK-2B (3-5) P1 |
| | | | 18329.96(3) | | |
| | | | 18329.69(5) | | |
| 6297 | 18329.57(7) | 18329.54 | 18329.53(3) | 2 | S+ GK-2B (3-5) P1 |
| | | | 18329.082(18) | | |
| | | | 18328.79(4) | | |
| 6298 | 18328.94(7) | 18329.07 | 18329.57(7) | 3 | S+ GK-2B (3-5) P1 |
| | | | 18329.54 | | |
| | | | 18329.53(3) | | |
| 6299 | 18328.44(8) | 18328.41 | 18328.44(5) | 4 | S+ GK-2B (3-5) P1 |
| | | | 18327.883(16) | | |
| | | | 18327.07(2) | | |
| 6300 | 18327.88(7) | 18327.84 | 18327.84(7) | 5 | S+ GK-2B (3-5) P1 |
| | | | 18327.92(15) | | |
| | | | 18327.87(2) | | |
| 6301 | 18326.88(6) | 18326.78 | 18326.792(15) | 6 | S+ GK-2B (3-5) P1 |
| | | | 18326.78 | | |
| | | | 18326.78 | | |
| 6302 | 18325.91(7) | 18325.85 | 18325.93(4) | 7 | S+ GK-2B (3-5) P1 |
| | | | 18325.73(5) | | |
| | | | 18325.36(2) | | |
| 6303 | 18325.33(7) | 18325.38 | 18325.36(2) | 8 | S+ GK-2B (3-5) P1 |
| | | | 18324.963(18) | | |
| | | | 18324.72(3) | | |
| 6304 | 18324.82(7) | 18324.91 | 18324.963(18) | 9 | S+ GK-2B (3-5) P1 |
| | | | 18324.33(4) | | |
| | | | 18323.87(5) | | |
| | | | 18323.53(5) | | |
| 6305 | 18324.32(10) | 18323.21 | 18323.13(3) | 10 | S+ GK-2B (3-5) P1 |
| | | | 18322.57 | | |
| | | | 18322.72(5) | | |
| | | | 18322.05(3) | | |
| 6306 | 18323.08(9) | 18323.21 | 18323.13(3) | 11 | S+ GK-2B (3-5) P1 |
| | | | 18322.57 | | |
| | | | 18322.72(5) | | |
| | | | 18322.05(3) | | |
| 6307 | 18321.84(7) | 18321.73 | 18321.723(18) | 12 | S+ GK-2B (3-5) P1 |
| | | | 18321.26 | | |
| | | | 18321.21(2) | | |
| 6308 | 18321.15(7) | 18321.26 | 18321.21(2) | 13 | S+ GK-2B (3-5) P1 |
| | | | 18321.01(5) | | |
| | | | 18320.70(3) | | |
| 6309 | 18319.91(6) | 18319.89 | 18319.94(2) | 14 | S+ GK-2B (3-5) P1 |
| | | | 18319.77(3) | | |
| | | | 18319.37(2) | | |
| 6310 | 18319.28(6) | 18319.35 | 18319.37(2) | 15 | S+ GK-2B (3-5) P1 |
| | | | 18319.11(3) | | |
| | | | 18318.71(8) | | |
| 6311 | 18318.71(7) | 18318.71 | 18318.70(2) | 16 | S+ GK-2B (3-5) P1 |
| | | | 18318.70(2) | | |
| | | | 18318.70(2) | | |
| 6312 | 18318.17(8) | 18318.71 | 18318.70(2) | 17 | S+ GK-2B (3-5) P1 |
| | | | 18318.70(2) | | |
| | | | 18318.70(2) | | |

TABLE II: Experimental wavenumber values (in cm\(^{-1}\)) for rovibronic spectral lines of \( D_2 \) molecule in 545 ÷ 627 nm spectral region. \( \nu^{(a)} \) — hot cathode capillary-arc discharge experiment (a), \( \nu \) — data from \[9\], \( \nu^{(c)} \) — glow discharge experiment (c). The uncertainties of the wavenumber determination (one SD) are shown in brackets in units of least significant digit. \( K_1 \) and \( K_2 \) — line index for experiments (a) and (c). Assignments are taken from the Appendix C of \[9\].
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment          |
|-------|-------------|-------|-------------|-------|--------------------|
| 6313  | 18317.68(6) | 18317.65 | 18317.71(3) | 32    |                    |
| 6314  | 18316.63(7) | 18316.67 | 18316.68(2) | 34    |                    |
| 6315  | 18316.06(8) | 18316.11(4) | 18316.12(3) | 39    |                    |
| 6316  | 18315.32(8) | 18315.75 | 18315.72(4) | 37    | T+ 4b-2a (2-3) P1 |
| 6317  | 18314.56(7) | 18314.65 | 18314.63(2) | 40    |                    |
| 6318  | 18314.00(7) | 18314.30 | 18314.24(2) | 41    |                    |
| 6319  | 18313.50(7) | 18313.43 | 18313.43(2) | 43    |                    |
| 6320  | 18312.63(7) | 18312.64 | 18312.62(3) | 45    | S+ GK-2 (0-3) P1  |
| 6321  | 18311.23(8) | 18311.25 | 18311.22(3) | 46    |                    |
| 6322  | 18310.77(7) | 18310.78 | 18310.78(6) | 47    |                    |
| 6323  | 18309.92(6) | 18309.90 | 18309.84(5) | 48    | S+ GK-2B (4-6) P2 |
| 6324  | 18308.99(7) | 18309.00 | 18308.93(15) | 50    | S+ WW-2B (0-3) R4 |
| 6325  | 18308.38(6) | 18308.37 | 18308.36(13) | 51    | T+ 3c-2a (1-0) R0 |
| 6326  | 18307.30(9) | 18307.45 | 18307.44(3) | 52    |                    |
| 6327  | 18306.99(8) | 18307.10 | 18307.10(2) | 53    |                    |
| 6328  | 18305.85(7) | 18305.85 | 18305.84(2) | 55    | S+ GK-2B (0-3) R4 |
| 6329  | 18305.14(6) | 18305.18 | 18304.88(16) | 57    | S- 3E-2 (5-12) Q1 |
| 6330  | 18304.53(6) | 18304.51 | 18304.53(19) | 58    | T- 3e-2c (2-1) P3 |
| 6331  | 18303.77(7) | 18303.75 | 18303.79(2) | 60    |                    |
| 6332  | 18302.10(6) | 18302.06 | 18302.10(17) | 61    |                    |
| 6333  | 18301.24(6) | 18301.30 | 18301.28(17) | 62    | T+ 3d-2c (1-0) R5 |
| 6334  | 18300.60(7) | 18300.49 | 18300.53(3) | 64    |                    |
| 6335  | 18299.81(7) | 18299.85 | 18299.86(14) | 65    |                    |
| 6336  | 18299.27(7) | 18299.71 | 18299.59(3) | 66    |                    |
| 6337  | 18297.53(7) | 18297.55 | 18297.44(4) | 69    |                    |
| 6338  | 18297.02(8) | 18296.92 | 18296.96(3) | 70    |                    |
| 6339  | 18296.25(6) | 18296.23 | 18296.27(3) | 71    |                    |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment       |
|-------|-------------|-------|-------------|-------|------------------|
| 6340  | 18295.62(8) |       | 18296.22(2) | 72    |                  |
|       |             |       | 18295.93(5) | 73    |                  |
| 6341  | 18295.29(7) | 18295.41 | 18295.47(2) | 74    | T + 3d-2c (1-0) Q3 |
|       |             |       | 18295.26(3) | 75    |                  |
|       |             |       | 18294.95(6) | 76    |                  |
| 6342  | 18294.71(7) | 18294.59 | 18294.70(3) | 77    |                  |
|       |             |       | 18294.52(4) | 78    |                  |
| 6343  | 18293.84(7) | 18293.82 | 18293.89(2) | 79    |                  |
|       |             |       | 18293.31    |       |                  |
| 6344  | 18292.90(6) | 18292.90 | 18292.907(13) | 80    | S + GK-2B (4-6) P3 |
| 6345  | 18292.48(8) |       | 18292.55(3) | 81    |                  |
| 6346  | 18291.86(7) | 18291.83 | 18291.87(3) | 82    |                  |
|       |             |       | 18291.45(3) | 83    |                  |
| 6347  | 18291.26(7) | 18291.26 | 18291.23(2) | 84    | S + EF-2B (29-5) P6 |
| 6348  | 18290.89(8) | 18290.91 | 18290.93(4) | 85    |                  |
| 6349  | 18290.12(4) | 18290.13 | 18290.16(3) | 86    |                  |
|       |             |       | 18289.96(8) | 87    |                  |
| 6350  | 18289.07(3) | 18289.10 | 18289.121(19) | 88    |                  |
| 6351  | 18288.86(3) |       | 18288.89(3) | 89    |                  |
|       |             |       | 18288.40    |       |                  |
| 6352  | 18287.97(2) | 18288.02 | 18288.017(17) | 90    | S + GK-2B (0-3) P2 |
|       |             |       | 18288.02    |       | S + GK-2B (0-3) R5 |
| 6353  | 18287.52(3) |       | 18287.62(4) | 91    |                  |
|       |             |       | 18287.39    | 92    |                  |
| 6354  | 18286.98(2) |       | 18286.73(3) | 93    |                  |
| 6355  | 18286.19(2) | 18286.40 | 18286.34(3) | 94    |                  |
|       |             |       | 18286.04(3) | 95    |                  |
| 6356  | 18285.728(16) | 18285.79 | 18285.741(17) | 96    |                  |
| 6357  | 18285.252(16) | 18285.26 | 18285.267(14) | 97    | S - 3E-2C (4-0) P5 |
|       |             |       | 18285.26    |       | S 4D-2C (0-0) R1 |
| 6358  | 18284.71(4) |       | 18284.66(3) | 98    |                  |
|       |             |       | 18284.45(3) | 99    |                  |
| 6359  | 18283.89(3) | 18283.90 | 18283.92(2) | 100   |                  |
| 6360  | 18283.54(3) |       | 18283.51(3) | 101   |                  |
| 6361  | 18283.18(2) | 18283.23 | 18283.14(3) | 102   |                  |
|       |             |       | 18282.54(4) | 103   |                  |
| 6362  | 18282.37(3) | 18282.36 | 18282.33(3) | 104   |                  |
| 6363  | 18281.559(15) | 18281.59 | 18281.595(16) | 105   | S - 3E-2B (3-9) Q5 |
|       |             |       | 18281.38(3) | 106   |                  |
| $K_1$ | $\nu^{(a)}$ | $\nu$  | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|-------|-------------|--------|------------|-------|----------------------------|
| 6364  | 18280.91(2) | 18281.16 | 18281.16(3) | 107   | T+ 4b-2a (2-3) P2          |
| 6365  | 18280.68(3) | 18280.78 | 18280.74(2) | 109   |                            |
|       |             |         | 18280.21(4) |       |                            |
| 6366  | 18280.03(2) | 18279.97 | 18279.979(18) | 111   | S+ GK-2B (4-6) P4         |
| 6367  | 18279.748(19) |    |            |       |                            |
| 6368  | 18278.609(19) |         |            |       |                            |
| 6369  | 18278.26(2) | 18278.26 | 18278.27(2) | 116   |                            |
| 6370  | 18277.34(2) | 18277.39 | 18277.37(2) | 117   | S 4D-2C (0-0) Q1          |
|       |             |         | 18277.13(3) |       |                            |
| 6371  | 18276.71(3) |           | 18276.80(5) | 119   |                            |
| 6372  | 18276.41(3) | 18276.54 | 18276.53(2) | 120   |                            |
|       |             |         | 18276.24(3) |       |                            |
| 6373  | 18275.990(16) | 18275.99 | 18275.986(17) | 122   | S- 4E-2C (1-1) Q2         |
|       |             |            | 18275.24    |       |                            |
| 6374  | 18274.98(3) |            |            | 123   |                            |
| 6375  | 18274.701(17) | 18274.70 | 18274.679(15) | 124   | T- 3c-2a (1-0) Q1         |
|       |             |            | 18274.70    |       | S+ 3E-2B (0-4) R3         |
| 6376  | 18274.25(4) |            |            | 125   |                            |
| 6377  | 18273.35(2) |            |            | 126   |                            |
| 6378  | 18271.98(2) | 18272.00 | 18271.98(2) | 128   |                            |
| 6379  | 18271.573(16) | 18271.59 | 18271.63(3) | 129   |                            |
|       |             |            | 18271.53(3) |       |                            |
| 6380  | 18270.97(4) | 18270.78 |            |       |                            |
| 6381  | 18270.261(16) | 18270.24 | 18270.259(18) | 131   |                            |
|       |             |            | 18269.59    |       |                            |
| 6382  | 18269.094(15) | 18269.10 | 18269.089(14) | 132   | S+ GK-2B (5-7) R3         |
| 6383  | 18268.37(4) |            |            | 133   |                            |
| 6384  | 18268.06(3) | 18268.13 | 18267.98(2) | 135   |                            |
|       |             |            | 18267.90    |       |                            |
| 6385  | 18267.37(2) | 18267.37 | 18267.352(16) | 136   | T- 3c-2a (7-5) Q1         |
|       |             |            | 18266.57    |       |                            |
| 6386  | 18265.95(2) |            |            |       |                            |
| 6387  | 18265.57(3) | 18265.72 |            |       | T- 3c-2a (1-0) Q2         |
|       |             |            | 18265.28    |       |                            |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|------------|-------|-------------|------|------------|
| 6388  | 18264.951(15) |        | 18264.951(14) | 137  |            |
| 6389  | 18264.39(2)   |        | 18264.35(3)  | 138  |            |
| 6390  | 18263.82(2)   | 18263.91 | 18263.83(3)  | 139  |            |
| 6391  | 18263.44(2)   | 18263.48 | 18263.52(3)  | 140  |            |
| 6392  | 18262.79(2)   |        | 18262.78(3)  | 141  |            |
|       |              |       | 18262.59(3)  | 142  |            |
| 6393  | 18262.403(19) | 18262.39 | 18262.362(19) | 143  |            |
| 6394  | 18262.10(2)   | 18262.11 | 18262.087(17) | 144  | S+ GK-2B (3-5) P4 |
| 6395  | 18261.534(17) | 18261.53 | 18261.542(17) | 145  |            |
| 6396  | 18261.10(2)   | 18261.14 | 18261.13(2)  | 146  | S+ WZ-2B (0-9) R2 |
| 6397  | 18260.215(19) | 18260.13 | 18260.20(2)  | 147  |            |
| 6398  | 18259.130(16) | 18259.12 | 18259.192(18) | 148  | T- 3e-2c (2-1) P4 |
|       |              |       | 18259.02(2)  | 149  |            |
| 6399  | 18258.42(6)   |        |              |      |            |
| 6400  | 18257.81(8)   |        |              |      |            |
| 6401  | 18257.070(16) | 18257.06 | 18257.114(15) | 150  |            |
|       |              |       | 18256.86     | 151  | T- 3c-2a (7-5) Q2 |
| 6402  | 18256.73(3)   |        | 18256.61(4)  | 152  |            |
| 6403  | 18256.36(2)   | 18256.37 | 18256.395(15) | 153  | S 4D-2C (0-0) R2 |
|       |              |       | 18256.37     | 154  | S+ GK-2B (0-3) P3 |
| 6404  | 18255.88(3)   | 18256.07 | 18256.00(2)  | 155  |            |
| 6405  | 18255.40(2)   | 18255.45 | 18255.55(2)  | 156  |            |
| 6406  | 18254.65(4)   |        | 18253.29(3)  | 157  |            |
|       |              |       | 18253.51     | 158  |            |
| 6407  | 18253.01(6)   |        | 18252.91(2)  | 159  |            |
| 6408  | 18252.63(3)   | 18252.62 | 18252.669(16) | 160  |            |
| 6409  | 18251.90(6)   | 18252.07 | 18252.02(5)  | 161  |            |
|       |              |       | 18251.61(4)  | 162  |            |
| 6410  | 18251.40(3)   | 18251.52 | 18251.51(3)  | 163  |            |
|       |              |       | 18251.38(4)  | 164  |            |
| 6411  | 18250.63(6)   |        |              |      |            |
| 6412  | 18250.36(3)   | 18250.38 | 18250.415(14) | 165  | T- 3c-2a (1-0) Q3 |
| 6413  | 18249.73(3)   | 18249.75 | 18249.773(15) | 166  | S+ GK-2B (5-7) R2 |
|       |              |       | 18249.51(2)  | 167  |            |
| 6414  | 18248.28(3)   | 18248.29 |              |      |            |
| 6415  | 18247.77(4)   | 18247.81 |              |      |            |
|       |              |       | 18247.35     | 168  |            |
| 6416  | 18247.12(3)   |        | 18247.19(3)  | 169  |            |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|------|-------------|------|-------------|------|-----------|
| 6417 | 18246.73(4) | 18246.90 | 18246.87(2) | 170 |           |
| 6418 | 18246.26(7) | 18246.50 | 18246.54(4) | 171 |           |
|       |             |        | 18245.69(5) | 172 |           |
| 6419 | 18245.38(3) | 18245.47 | 18245.48(2) | 173 |           |
|       |             |        | 18245.24(4) | 174 |           |
| 6420 | 18244.66(3) | 18244.61 | 18244.74(5) | 175 |           |
|       |             |        | 18244.19(3) | 176 |           |
| 6421 | 18243.96(3) | 18243.88 | 18243.94(2) | 177 |           |
| 6422 | 18243.35(3) | 18243.49 | 18243.48(2) | 178 |           |
|       |             |        | 18243.35    | 179 |           |
| 6423 | 18242.72(4) | 18242.78(3) | 18242.63(2) | 180 |           |
|       |             |        |             | 181 |           |
| 6424 | 18242.42(3) | 18242.42 | 18242.415(18) | 182 | T+ 3d-2e (1-0) Q4 |
|       |             |        | 18242.42    |     | T+ 4b-2a (2-3) P3 |
| 6425 | 18241.86(4) | 18241.62 |           | 183 |           |
| 6426 | 18241.05(3) | 18241.09 | 18241.094(16) | 184 | T- 3c-2a (7-5) Q3 |
|       |             |        | 18240.64(6) |     | S+ GK-2B (5-7) R1 |
| 6427 | 18240.59(4) | 18240.56 | 18240.54(3) | 185 |           |
| 6428 | 18240.28(3) | 18240.27 | 18240.27(2) | 186 | S+ 4E-2C (1-1) P2 |
|       |             |        | 18240.27    |     | S+ GK-2B (6-8) R4 |
| 6429 | 18239.41(3) | 18239.38 | 18239.436(19) | 187 |           |
|       |             |        | 18239.15(3) |     | S- 3E-2B (3-9) Q4 |
| 6430 | 18239.00(4) | 18239.00 | 18238.97(2) | 188 |           |
| 6431 | 18238.81(4) | 18238.81 | 18238.81(2) | 189 |           |
| 6432 | 18238.23(3) | 18238.27 | 18238.29(3) | 190 |           |
|       |             |        | 18238.11(4) |     |           |
| 6433 | 18237.81(3) | 18237.81 | 18237.81(2) | 191 |           |
| 6434 | 18236.65(3) | 18236.66 | 18236.681(16) | 192 |           |
| 6435 | 18235.99(3) | 18236.00 | 18236.00(3) | 193 |           |
| 6436 | 18235.20(3) | 18235.24 | 18235.251(19) | 194 | S+ 3E-2B (3-9) R1 |
|       |             |        | 18235.07(3) |     |           |
| 6437 | 18234.65(3) | 18234.67 | 18234.653(17) | 195 |           |
|       |             |        | 18234.16    |     |           |
| 6438 | 18233.79(3) | 18233.80 | 18233.791(17) | 196 |           |
| 6439 | 18233.40(3) | 18233.36 | 18233.43(2) | 197 |           |
| 6440 | 18233.15(4) | 18233.23 | 18232.72(3) | 198 | S+ GK-2B (5-7) R0 |
| 6441 | 18232.54(3) | 18232.46 | 18232.46(3) | 199 |           |
| $K_1$  | $\nu^{(a)}$     | $\nu$         | $\nu^{(c)}$     | $K_2$ | Assignment               |
|--------|-----------------|---------------|-----------------|-------|--------------------------|
| 6442   | 18231.75(5)     | 18231.71      |                 |       |                          |
| 6443   | 18231.03(3)     | 18231.03      | 18231.030(15)   | 205   | T- 3c-2a (1-0) Q4       |
|        |                 | 18231.03      |                 |       | S- 4E-2C (2-2) R3       |
| 6444   | 18230.40(5)     | 18230.38      | 18230.33(4)     | 206   |                          |
| 6445   | 18230.00(3)     | 18230.04      | 18230.021(18)   | 207   | S- 4E-2C (2-2) R2       |
| 6446   | 18229.55(4)     |               |                 |       |                          |
| 6447   | 18228.97(3)     | 18229.00      | 18228.980(19)   | 208   | S- 4E-2C (2-2) R4       |
| 6448   | 18228.56(5)     | 18228.52      | 18228.50(3)     | 209   |                          |
| 6449   | 18228.18(3)     | 18228.19      | 18228.171(17)   | 210   | S+ GK-2B (6-8) R3       |
|        |                 |               | 18227.24        |       |                          |
| 6450   | 18226.83(3)     | 18226.83      | 18226.852(18)   | 211   |                          |
|        |                 |               | 18226.68(2)     | 212   |                          |
| 6451   | 18226.42(3)     | 18226.42      | 18226.38(2)     | 213   |                          |
|        |                 |               | 18225.77        | 214   |                          |
| 6452   | 18225.44(3)     | 18225.46      | 18225.45(3)     | 215   |                          |
| 6453   | 18224.95(5)     | 18225.05      | 18225.03(2)     | 216   | S- 4E-2C (2-2) R1       |
| 6454   | 18224.60(3)     | 18224.57      | 18224.65(4)     | 217   | S- 4E-2C (2-2) R5       |
|        |                 |               | 18224.50(4)     | 218   |                          |
| 6455   | 18224.14(3)     | 18224.13      | 18224.119(16)   | 219   | S 4D-2C (0-0) Q2        |
|        |                 |               | 18224.13        | 220   | S 4D-2C (0-0) R3        |
| 6456   | 18223.83(4)     | 18223.87      | 18223.84(2)     | 220   |                          |
| 6457   | 18223.31(5)     | 18223.26      | 18223.29(2)     | 221   |                          |
| 6458   | 18223.04(3)     | 18222.99      | 18223.02(2)     | 222   |                          |
| 6459   | 18222.24(5)     |               | 18222.03(5)     | 223   |                          |
| 6460   | 18221.76(4)     | 18221.71      | 18221.80(5)     | 224   |                          |
| 6461   | 18221.22(3)     | 18221.08      | 18221.24(3)     | 225   |                          |
| 6462   | 18220.21(3)     | 18220.21      | 18220.206(16)   | 226   | T- 3c-2a (7-5) Q4       |
| 6463   | 18219.56(4)     | 18219.43      | 18219.59(2)     | 227   |                          |
|        |                 |               | 18219.33(4)     | 228   |                          |
| 6464   | 18218.02(3)     | 18218.00      | 18218.02(2)     | 229   | S- 4E-2C (2-2) R6       |
| 6465   | 18217.19(3)     | 18217.21      | 18217.19(2)     | 230   | S+ GK-2B (0-3) P4       |
|        |                 |               | 18216.91(4)     | 231   |                          |
| 6466   | 18216.36(4)     | 18216.31      | 18216.31(4)     | 232   | S- 4E-2C (1-1) Q4       |
| 6467   | 18215.64(3)     | 18215.63      | 18215.642(19)   | 233   |                          |
| 6468   | 18214.95(5)     | 18215.08      | 18214.68(3)     | 234   | S 4D-2C (0-0) P2        |
|        |                 |               | 18214.557(18)   | 235   | S+ GK-2B (6-8) R2       |
| 6469   | 18214.54(3)     | 18214.53      | 18214.557(18)   | 235   | S+ GK-2B (6-8) R2       |
| 6470   | 18213.88(5)     |               | 18213.43(3)     | 237   |                          |
| 6471   | 18213.46(3)     | 18213.57      | 18213.62(2)     | 236   |                          |
| 6472   | 18212.61(2)     | 18212.60      | 18212.620(16)   | 238   |                          |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|------------|------|------------|------|------------|
| 6473  | 18212.20(3)| 18212.31(2) | 239 |
| 6474  | 18211.87(3)| 18211.93 | 18211.88(2) | 241 |
| 6475  | 18211.16(3)| 18211.18 | 18211.18(4) | 242 |
| 6476  | 18210.48(3)| 18210.61 | 18210.63(3) | 243 |
| 6477  | 18209.75(3)| 18209.74 | 18209.73(2) | 245 |
| 6478  | 18209.32(3)| 18209.33 | 18209.40(2) | 246 |
|       |            |         | 18209.22(3) | 247 |
| 6479  | 18208.71(4)| 18208.51 | 18208.65(5) | 248 |
|       |            | 18207.85 | 18207.835(18) | 249 |
| 6480  | 18207.72(2)| 18207.70 | 18207.631(16) | 250 |
|       |            | 18207.70 | T+ 3c-2a (1-0) P2 |
| 6481  | 18207.00(2)| 18207.01 | 18207.011(16) | 251 |
|       |            | 18206.20 | T- 3c-2a (1-0) Q5 |
| 6482  | 18205.78(2)| 18205.81 | 18205.798(16) | 252 |
| 6483  | 18205.27(3)| 18204.87 | 18204.35 |
| 6484  | 18204.59(5)| 18204.87 |
|       |            | 18204.35 |
| 6485  | 18203.64(3)| 18203.62 | 18203.640(16) | 253 |
| 6486  | 18202.96(2)| 18202.98 | 18202.986(13) | 254 |
| 6487  | 18202.41(4)| 18202.50(5) | 255 |
|       |            | 18202.06 |
| 6488  | 18201.73(5)| 18201.17 | 18201.14(3) | 256 |
| 6489  | 18201.15(3)| 18200.70 | 18200.71(3) | 257 |
| 6490  | 18200.68(3)| 18199.48 | 18199.461(19) | 258 |
| 6491  | 18199.48(2)| 18199.48 | T+ 4b-2a (2-3) P4 |
| 6492  | 18198.60(3)| 18198.57 |
| 6493  | 18197.69(2)| 18197.70 | 18197.71(3) | 259 |
|       |            | 18197.36 |
| 6494  | 18196.92(3)| 18196.86 | 18196.84(2) | 260 |
| 6495  | 18196.40(3)| 18196.07 | 18196.08(2) | 261 |
| 6496  | 18195.47(3)| 18194.22 | 18194.207(19) | 262 |
| 6497  | 18194.24(2)| 18194.22 | T- 3c-2a (7-5) Q5 |
| 6498  | 18193.71(2)| 18193.72 | 18193.70(2) | 263 |
| 6499  | 18192.98(3)| 18192.98 | 18192.93(3) | 264 |
| 6500  | 18192.50(4)| 18192.51 | 18192.50(4) | 265 |
|       |            | 18191.59(4) | S+ 3E-2B (3-9) R0 |
| 6501  | 18191.46(2)| 18191.46 | 18191.36(3) | 267 |
| 6502  | 18190.56(5)| 18190.58 | 18190.62(2) | 268 |
| \(K_1\) | \(\nu^{(a)}\) | \(\nu\) | \(\nu^{(c)}\) | \(K_2\) | Assignment                      |
|------|-------|-------|-------|------|------------------|
| 6503 | 18190.23(4) | 18190.25 | 18190.16(4) | 269 | S+ 3E-2B (0-4) R2 |
| 6504 | 18189.42(2) | 18189.44 | 18189.449(15) | 270 | S 4D-2C (0-0) R4 |
| 6505 | 18189.05(4) | 18188.86 | 18188.34 | 271 | S- 4E-2C (1-1) P3 |
| 6506 | 18188.33(2) | 18188.34 | 18188.33(17) | 271 | S+ GK-2B (6-8) R0 |
| 6507 | 18187.55(3) | 18187.42 | 18187.43(2) | 272 |                    |
| 6508 | 18186.14(2) | 18186.11 | 18186.112(14) | 273 | S+ GK-2B (5-7) P2 |
| 6509 | 18185.41(3) | 18185.51 | 18185.51(2) | 274 | S+ 3F-2B (2-8) R1 |
|      |           |       |       | 18185.51 | S- 4E-2C (2-2) Q1 |
|      |           |       |       |       | 18185.293(16) | 275 |
| 6510 | 18184.97(4) | 18184.96 | 18184.97(6) | 276 |                    |
| 6511 | 18184.26(2) | 18184.23 | 18184.28(2) | 277 | T+ 3d-2c (1-0) Q5 |
| 6512 | 18183.57(3) | 18183.54 | 18183.58(3) | 278 |                    |
| 6513 | 18182.58(3) | 18182.78 | 18182.78 | 279 | S- 4E-2C (1-1) Q5 |
| 6514 | 18181.91(6) |       |       | 18181.58(3) | 280 |
|      |           |       |       |       | 18181.18(3) | 280 |
| 6515 | 18181.24(3) | 18181.14 | 18181.18(3) | 281 | S- 3E-2B (3-9) Q2 |
| 6516 | 18180.67(3) | 18180.67 | 18180.680(16) | 282 |                    |
|      |           |       |       | 18180.40(2) | 282 |
| 6517 | 18180.11(6) | 18180.00 |       |       | 283 |
| 6518 | 18179.56(4) | 18179.56 | 18179.58(2) | 284 |                    |
| 6519 | 18179.10(4) | 18179.13 | 18179.34(5) | 285 | T- 3c-2a (1-0) Q6 |
|      |           |       |       | 18178.85 | 286 |
| 6520 | 18178.42(2) | 18178.38 | 18178.410(13) | 287 |                    |
| 6521 | 18177.86(3) | 18177.91(2) | 18177.74 | 288 |                    |
|      |           |       |       | 18177.679(18) | 288 |
| 6522 | 18177.26(2) | 18177.32(3) | 18177.18 | 289 |                    |
|      |           |       |       | 18177.18(3) | 289 |
|      |           |       |       | 18176.85 | 290 |
|      |           |       |       | 18176.68(3) | 290 |
| 6523 | 18176.29(2) | 18176.31 | 18176.298(18) | 291 |                    |
| 6524 | 18175.52(4) | 18175.53 |       |       | 292 |
| 6525 | 18174.70(4) |       |       | 18174.34 | T+ 3d-2c (1-0) P4 |
| 6526 | 18174.03(3) | 18173.99 | 18174.07(3) | 293 | S- 3E-2B (0-4) Q6 |
|      |           |       |       | 18173.85(4) | 293 |
| 6527 | 18173.39(4) | 18173.37 | 18173.38(2) | 294 |                    |
|      |           |       |       | 18172.55 | 294 |
| 6528 | 18171.99(3) | 18172.04 | 18171.30 | 295 |                    |
| 6529 | 18171.10(3) |       |       | 18171.32(3) | 295 |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment       |
|-------|-------------|-------|-------------|-------|-----------------|
| 6530  | 18170.68(3) | 18170.50 |             |       |                 |
| 6531  | 18169.93(2) | 18169.91 | 18169.94(2) | 296   | S+ GK-2B (0-3) P5 |
| 6532  | 18168.61(5) |       |             |       |                 |
| 6533  | 18168.33(4) | 18168.29 | 18168.13(3) | 297   |                 |
| 6534  | 18167.12(4) |       |             |       |                 |
| 6535  | 18166.76(2) | 18166.75 | 18166.76(2) | 298   |                 |
| 6536  | 18166.42(3) | 18166.46 | 18166.43(3) | 299   |                 |
| 6537  | 18165.37(3) | 18165.37 | 18165.36(3) | 300   | S 4D-2C (0-0) Q3 |
| 6538  | 18164.73(2) | 18164.76 | 18164.752(19) | 301 | T+ 3c-2a (1-0) P3 |
| 6539  | 18164.00(2) | 18163.98 | 18163.99(2) | 302   | S- 3E-2B (3-9) Q1 |
| 6540  | 18163.30(2) | 18163.34 | 18163.30(2) | 303   |                 |
| 6541  | 18162.84(2) | 18162.87 | 18162.84(2) | 304   |                 |
| 6542  | 18162.32(3) | 18162.34 | 18162.36(4) | 305   |                 |
| 6543  | 18161.79(2) | 18161.81 | 18161.78(2) | 306   | S+ GK-2B (5-7) P3 |
| 6544  | 18161.13(3) | 18161.05 |             |       |                 |
| 6545  | 18160.01(2) | 18160.00 | 18159.99(2) | 307   | S+ 3E-2B (3-9) P3 |
| 6546  | 18159.24(3) | 18159.23 | 18159.20(3) | 308   |                 |
| 6547  | 18158.06(2) | 18158.07 | 18158.05(2) | 309   |                 |
| 6548  | 18157.07(3) | 18157.07 | 18157.12(3) | 310   |                 |
| 6549  | 18156.58(3) | 18156.58 | 18156.56(2) | 311   |                 |
| 6550  | 18156.11(3) | 18156.01 | 18155.96(3) | 312   | S+ WZ-2B (0-9) P4 |
| 6551  | 18155.71(2) | 18155.70 | 18155.74(3) | 313   |                 |
| 6552  | 18155.38(3) |       |             |       |                 |
| 6553  | 18154.85(3) | 18154.62 |             |       |                 |
| 6554  | 18154.24(2) | 18154.22 | 18154.22(2) | 315   |                 |
| 6555  | 18153.71(4) | 18153.67 |             |       |                 |
| 6556  | 18153.34(2) | 18153.30 | 18153.35(3) | 316   |                 |
| 6557  | 18152.78(2) | 18152.78 | 18152.78(2) | 317   | S 4D-2C (0-0) R5 |
| 6558  | 18152.28(2) | 18152.30 | 18152.22(3) | 318   |                 |
| 6559  | 18151.17(5) | 18151.16 | 18151.16(4) | 319   |                 |
| 6560  | 18150.66(3) |       |             |       |                 |
| 6561  | 18150.38(3) | 18150.51 | 18150.43(5) | 321   |                 |
| 6562  | 18149.06(3) |       |             |       |                 |
| 6563  | 18148.57(2) | 18148.54 | 18148.56(3) | 323   |                 |
| 6564  | 18147.90(4) | 18147.82 |             |       |                 |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|-------|-------------|-------|-------------|-------|-----------------------------|
| 6565  | 18147.33(2) | 18147.26 | 18147.28(2) | 324   | S+ 3E-2B (3-9) P2           |
| 6566  | 18146.46(3) | 18146.53 |             |       |                             |
| 6567  | 18145.89(2) | 18145.83 | 18145.85(2) | 325   | S+ GK-2B (7-9) R3           |
| 6568  | 18145.26(2) | 18145.26 | 18145.24(2) | 326   | T- 3c-2a (1-0) Q7           |
| 6569  | 18144.52(3) | 18144.45 | 18144.41(6) | 327   |                             |
| 6570  | 18144.16(3) | 18144.12 | 18144.19(4) | 328   |                             |
| 6571  | 18143.01(3) | 18142.99 |             |       | S- 4E-2C (2-2) Q3           |
| 6572  | 18142.38(2) | 18142.39 | 18142.35(5) | 329   |                             |
| 6573  | 18141.83(3) | 18141.77 | 18141.82(2) | 330   | T+ 3d-2c (2-1) R1           |
| 6574  | 18141.60(3) | 18141.77 | 18141.63(2) | 331   | S+ GK-2B (6-8) P2           |
| 6575  | 18141.12(3) | 18141.16 | 18141.33(3) | 332   |                             |
| 6576  | 18140.18(3) | 18140.17 | 18140.21(4) | 333   |                             |
| 6577  | 18139.52(2) | 18139.53 | 18139.49(3) | 334   |                             |
| 6578  | 18139.19(2) | 18139.16 | 18139.17(2) | 335   | S+ GK-2B (5-7) P4           |
| 6579  | 18138.56(2) | 18138.53 | 18138.55(3) | 336   |                             |
| 6580  | 18138.03(5) |             |             |       |                             |
| 6581  | 18137.50(3) | 18137.51 | 18137.49(3) | 337   |                             |
| 6582  | 18136.72(3) |             | 18136.68(3) | 338   |                             |
|       |             |             | 18135.10     |       |                             |
| 6583  | 18134.46(3) |             | 18134.61(3) | 339   |                             |
| 6584  | 18134.08(4) |             | 18134.20     |       |                             |
| 6585  | 18133.32(2) | 18133.33 | 18133.32(3) | 340   |                             |
| 6586  | 18132.91(2) |             | 18132.94     | 341   |                             |
| 6587  | 18132.06(2) | 18132.09 | 18132.09(3) | 342   | S- 4E-2C (1-1) P4           |
| 6588  | 18131.30(2) | 18131.19 | 18131.21(5) | 343   |                             |
| 6589  | 18130.15(3) | 18130.30 |             |       |                             |
| 6590  | 18129.58(3) | 18129.57 | 18129.62(4) | 344   | T+ 3d-2c (2-1) R2           |
| 6591  | 18129.29(3) |             | 18129.37(5) | 345   |                             |
|       |             |             | 18129.09(5) | 346   |                             |
| 6592  | 18128.92(4) | 18128.86 | 18128.85(4) | 347   | S- 4E-2C (2-2) P2           |
| 6593  | 18128.49(5) | 18128.49 | 18128.40(6) | 348   |                             |
| 6594  | 18127.98(3) | 18128.02 | 18127.98(4) | 349   |                             |
| 6595  | 18127.58(2) | 18127.60 | 18127.59(4) | 350   | S+ GK-2B (5-7) P5           |
| 6596  | 18127.29(2) | 18127.30 | 18127.25(5) | 351   |                             |
|       |             |             | 18126.39     |       |                             |
| 6597  | 18125.74(2) | 18125.73 | 18125.71(3) | 352   | S+ GK-2B (6-8) P3           |
| 6598  | 18125.19(3) | 18125.01 | 18125.15(8) | 353   |                             |
| 6599  | 18124.53(3) | 18124.44 | 18124.50(4) | 354   |                             |
| 6600  | 18124.29(2) | 18124.28 | 18124.24(4) | 355   | S- 3E-2B (0-4) Q5           |
| 6601  | 18123.38(2) | 18123.38 | 18123.33(6) | 356   |                             |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment               |
|------|------------|------|------------|------|--------------------------|
| 6602 | 18122.85(4)|      |            |      |                          |
| 6603 | 18122.18(3)| 18122.17 | 18122.06(5)| 357  |                          |
| 6604 | 18121.80(2)| 18121.78 | 18121.79(4)| 358  | T+ 3d-2c (1-0) Q6       |
| 6605 | 18121.43(4) |      | 18121.58(5)| 359  |                          |
| 6606 | 18121.08(3)| 18121.18 | 18121.19(5)| 360  | S+ 3E-2B (0-4) P5       |
| 6607 | 18120.59(4)| 18120.51 | 18120.52(5)| 361  |                          |
| 6608 | 18119.91(2)| 18119.89 | 18119.87(4)| 363  | S- 4E-2C (3-3) R3       |
| 6609 | 18119.29(2)| 18119.30 | 18119.27(4)| 364  | S- 4E-2C (3-3) R4       |
| 6610 | 18118.20(3)| 18118.16 | 18118.77(7)| 365  |                          |
| 6611 | 18117.37(2)| 18117.36 | 18117.34(3)| 366  | T+ 3c-2a (1-0) P4       |
| 6612 | 18116.89(3)|      | 18116.89(6)| 367  | S- 4E-2C (3-3) R5       |
| 6613 | 18116.39(3)| 18116.36 | 18116.37(4)| 368  | S- 4E-2C (3-3) R2       |
| 6614 | 18115.23(3)| 18115.20 | 18115.19(6)| 369  | S+ 3E-2B (0-4) R1       |
| 6615 | 18114.58(2)| 18114.47 | 18114.57(4)| 370  | S 4D-2C (0-0) R6        |
| 6616 | 18114.13(2)| 18114.19 | 18114.14(4)| 372  | S+ GK-2B (0-3) P6       |
| 6617 | 18113.44(2)| 18113.46 | 18113.49(4)| 374  | T+ 3d-2c (2-1) Q1       |
| 6618 | 18112.98(3)| 18112.89 | 18112.87(4)| 375  |                          |
| 6619 | 18112.00(3)| 18112.12 | 18112.11(5)| 376  |                          |
| 6620 | 18111.68(2)| 18111.65 | 18111.73(4)| 377  |                          |
|      | 18111.16(3)|      |            | 378  |                          |
| 6621 | 18110.92  |      |            |      |                          |
| 6622 | 18110.57(4)| 18110.64 |            |      |                          |
| 6623 | 18109.85(3)| 18109.80(4)|            | 380  |                          |
| 6624 | 18109.63(2)| 18109.66 | 18109.61(4)| 381  | T+ 3c-2a (2-1) R5       |
|      |            | 18109.66 |            |      | T+ 3d-2c (2-1) R3       |
| 6625 | 18109.16(2)| 18109.23 | 18109.14(4)| 382  |                          |
| 6626 | 18108.59(3)| 18108.62 | 18108.63(5)| 383  |                          |
|      |            | 18108.26 |            | 384  | S+ 3F-2B (2-8) P3       |
| 6627 | 18107.95(2)| 18107.89 | 18107.94(4)| 385  | T+ 3c-2a (2-1) R6       |
| $K_1$  | $\nu^{(a)}$       | $\nu$          | $\nu^{(c)}$        | $K_2$  | Assignment                  |
|-------|-------------------|----------------|-------------------|-------|-----------------------------|
| 6628  | 18107.72(2)       | 18107.74(5)    | 18107.63(6)       | 386   |                             |
| 6629  | 18107.25(3)       | 18106.77       | 18106.77(4)       | 388   | S+ GK-2B (6-8) P4           |
| 6630  | 18106.81(2)       | 18106.17       | 18106.17(3)       | 389   | T+ 3c-2a (2-1) R4           |
| 6631  | 18106.17(2)       | 18105.89(6)    | 18105.25          | 390   |                             |
| 6632  | 18105.59(4)       | 18104.70(6)    | 18104.47          | 391   |                             |
| 6633  | 18104.55(3)       | 18103.84       | 18103.83(4)       | 392   | S 4D-2C (0-0) Q4            |
| 6634  | 18103.82(3)       | 18103.17       | 18103.17(5)       | 393   |                             |
| 6635  | 18102.84(2)       | 18102.81(4)    | 18102.10          | 394   |                             |
| 6636  | 18101.60(5)       | 18101.61       | 18101.63(6)       | 395   | S+ GK-2B (7-9) R2           |
| 6637  | 18101.11(3)       | 18101.12       | 18101.13(4)       | 396   |                             |
| 6638  | 18100.73(3)       | 18100.78       | 18100.75(4)       | 397   |                             |
| 6639  | 18098.70(3)       | 18098.85       | 18098.69(4)       | 398   | T+ 3d-2c (2-1) P1           |
| 6640  | 18098.45(4)       | 18098.52(5)    | 18098.33          | 399   |                             |
| 6641  | 18098.26(3)       | 18098.33       | 18098.27(4)       | 400   |                             |
| 6642  | 18097.64(3)       | 18097.63       | 18097.66(3)       | 401   |                             |
| 6643  | 18097.21(4)       | 18097.26(6)    | 18096.46          | 402   |                             |
| 6644  | 18095.51(3)       | 18095.49       | 18095.59(3)       | 403   |                             |
| 6645  | 18094.58(3)       | 18094.48       | 18094.70(4)       | 404   |                             |
| 6646  | 18093.08(3)       | 18093.14       | 18093.16(2)       | 405   |                             |
| 6647  | 18092.04(4)       | 18092.10       | 18092.16(3)       | 406   | T+ 3d-2c (1-0) P5           |
| 6648  | 18091.22(3)       | 18091.20       | 18091.263(15)     | 407   |                             |
| 6649  | 18090.95(3)       | 18091.00       | 18091.009(18)     | 408   | S+ GK-2B (7-9) R1           |
| 6650  | 18090.32(3)       | 18090.30       | 18090.309(16)     | 409   | S+ GK-2B (6-8) P5           |
| 6651  | 18089.62(3)       | 18089.64       | 18089.69(4)       | 410   |                             |
| 6652  | 18089.08(3)       | 18089.06       | 18089.17(4)       | 411   | T+ 3c-2a (2-1) R8           |
| 6653  | 18088.46(5)       | 18088.54(4)    | 18088.17(4)       | 412   |                             |
| 6654  | 18087.91(5)       | 18087.89(3)    | 18086.83          | 413   |                             |
| 6655  | 18086.85(3)       | 18086.83       | 18086.74(3)       | 414   |                             |
| 6656  | 18086.85(3)       | 18086.83       | 18086.74(3)       | 415   |                             |
| 6657  | 18086.85(3)       | 18086.83       | 18086.74(3)       | 416   |                             |
| 6658  | 18086.85(3)       | 18086.83       | 18086.74(3)       | 417   |                             |
| 6659  | 18086.85(3)       | 18086.83       | 18086.74(3)       | 418   |                             |
| 6660  | 18086.85(3)       | 18086.83       | 18086.74(3)       | 419   |                             |
| 6661  | 18086.85(3)       | 18086.83       | 18086.74(3)       | 420   |                             |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$  | $\nu$    | $\nu^{(c)}$  | $K_2$ | Assignment                  |
|-------|--------------|----------|--------------|-------|----------------------------|
| 6657  | 18085.46(5)  | 18086.16 | 18085.70     |       |                            |
| 6658  | 18084.63(4)  | 18084.21 | 18084.72     |       |                            |
| 6659  | 18084.09(3)  | 18084.09 | 18084.078(14)| 421   | T+ 3c-2a (2-1) R2         |
| 6660  | 18083.75(7)  | 18084.09 | 18083.88     |       | S- 3E-2B (0-4) Q4         |
|       |              |          | 18083.84(3)  | 422   |                            |
| 6661  | 18083.27(3)  | 18083.30 | 18083.236(18)| 423   | T+ 3d-2c (2-1) R4         |
| 6662  | 18082.70(3)  | 18082.73 | 18082.741(16)| 424   | T+ 3d-2c (2-1) Q2         |
|       |              |          | 18082.73     |       |                            |
|       |              |          | 18082.551(19)| 425   | S- 4E-2C (2-2) P3         |
| 6663  | 18081.31(3)  | 18081.55 |              |       |                            |
| 6664  | 18080.67(4)  | 18080.60 | 18080.70(3)  |       |                            |
| 6665  | 18079.21(3)  | 18079.23 | 18079.18(2)  | 427   | S 3A-2B (2-9) R3          |
| 6666  | 18078.25(3)  | 18078.26 | 18078.27(2)  |       |                            |
|       |              |          | 18078.15(2)  | 429   |                            |
| 6667  | 18076.30(5)  | 18076.43 |              |       | S- 3E-2C (5-1) R3         |
| 6668  | 18075.80(4)  | 18075.79 | 18075.75(3)  | 430   |                            |
| 6669  | 18075.07(3)  | 18075.05 | 18075.059(19)| 431   | S 4D-2C (0-0) R7          |
|       |              |          | 18074.90(2)  |       |                            |
| 6670  | 18074.49(4)  | 18074.57 | 18074.46(3)  | 433   |                            |
| 6671  | 18073.65(3)  | 18073.64 |              |       | S- 4E-2C (1-1) P5         |
| 6672  | 18072.78(3)  | 18072.76 | 18072.74(2)  | 434   | S+ GK-2B (6-8) P6         |
| 6673  | 18072.35(7)  | 18072.76 |              |       |                            |
| 6674  | 18071.88(3)  | 18071.87 | 18071.83(2)  | 435   | T+ 3c-2a (2-1) R9         |
| 6675  | 18071.44(3)  | 18071.43 | 18071.440(17)| 436   |                            |
|       |              |          | 18071.20     |       |                            |
| 6676  | 18071.05(4)  | 18071.10(2)|          | 437   |                            |
|       |              |          | 18070.59(4)  |       |                            |
| 6677  | 18070.36(3)  | 18070.29 | 18070.23(3)  | 440   | S+ 3E-2B (0-4) P4         |
| 6678  | 18068.74(5)  | 18068.73 |              |       |                            |
| 6679  | 18068.28(3)  | 18068.76 |              |       |                            |
| 6680  | 18067.78(3)  | 18067.66 | 18067.61(4)  | 441   | S+ GK-2B (7-9) P1         |
|       |              |          | 18067.66     |       | S- 4E-2C (3-3) Q1         |
| 6681  | 18066.56(4)  | 18066.83 | 18066.38     | 442   |                            |
| 6682  | 18066.00(3)  | 18066.11 | 18065.98(3)  | 443   |                            |
| 6683  | 18065.67(3)  | 18065.70 | 18065.637(14)| 444   | T+ 3c-2a (2-1) R1         |
| 6684  | 18065.34(3)  | 18065.38 | 18065.317(14)| 445   | T+ 3c-2a (1-0) P5         |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|--------------|-------|--------------|-------|------------|
| 6685  | 18065.04(4)  |       | 18065.06(2)  | 446   |            |
| 6686  | 18064.57(3)  | 18064.59 |             |       |            |
| 6687  | 18064.03(7)  |       |             |       |            |
| 6688  | 18063.42(3)  | 18063.41 | 18063.384(15)| 447   | S+ GK-2B (0-3) P7 |
| 6689  | 18062.67(4)  | 18062.55 | 18062.60(4)  | 448   |            |
| 6690  | 18060.84(4)  | 18060.81 | 18060.86(4)  | 449   |            |
| 6691  | 18060.20(6)  | 18060.30 | 18060.28(4)  | 450   |            |
| 6692  | 18059.41(4)  | 18059.50 |             |       |            |
| 6693  | 18058.82(3)  | 18058.80 | 18058.821(15)| 451   |            |
| 6694  | 18058.31(4)  |       |             |       |            |
| 6695  | 18057.82(5)  | 18057.88 | 18058.01(5)  | 452   |            |
| 6696  | 18057.15(3)  | 18057.13 | 18057.190(18)| 453   |            |
|       |              |       | 18057.08(2)  | 454   |            |
| 6697  | 18056.63(4)  |       |             |       |            |
| 6698  | 18056.22(4)  |       | 18056.19(3)  | 455   |            |
| 6699  | 18055.90(4)  | 18055.90 | 18055.92(2)  | 456   |            |
| 6700  | 18055.46(4)  | 18055.48 | 18055.490(17)| 457   |            |
| 6701  | 18054.98(5)  |       |             |       |            |
| 6702  | 18054.49(4)  | 18054.49 | 18054.54(2)  | 458   | T+ 3d-2c (2-1) P2 |
| 6703  | 18053.95(3)  | 18053.95 | 18053.942(18)| 459   |            |
| 6704  | 18053.45(3)  | 18053.49 | 18053.491(19)| 460   | S- 3E-2B (0-4) Q3 |
| 6705  | 18052.86(4)  | 18052.76 |             |       | S- 4E-2C (3-3) Q2 |
| 6706  | 18052.26(4)  |       | 18052.24(4)  | 461   |            |
| 6707  | 18051.95(4)  | 18052.00 | 18051.97(3)  | 462   | T+ 3d-2c (2-1) R5 |
| 6708  | 18051.47(4)  | 18051.42 | 18051.57(3)  | 463   | S+ EF-2B (32-7) R3 |
| 6709  | 18050.99(4)  | 18051.08 | 18051.17(4)  | 464   | S 3A-2B (3-11) R4 |
|       |              |       | 18050.73(4)  | 465   |            |
| 6710  | 18050.14(3)  | 18050.16 | 18050.14(3)  | 466   |            |
| 6711  | 18049.27(3)  | 18049.29 | 18049.27(3)  | 467   |            |
| 6712  | 18048.61(4)  | 18048.63 | 18048.60(4)  | 468   |            |
| 6713  | 18047.77(5)  | 18047.66 | 18047.75(4)  | 469   |            |
| 6714  | 18047.54(7)  | 18047.42(4)|         | 470   |            |
| 6715  | 18047.21(10) |       |             |       |            |
| 6716  | 18046.82(14) | 18046.74 |             |       |            |
| 6717  | 18046.26(4)  | 18046.11 |             |       |            |
| 6718  | 18045.71(4)  | 18045.70 | 18045.70(3)  | 471   | S+ GK-2B (7-9) P2 |
| 6719  | 18045.02(5)  |       |             |       |            |
| 6720  | 18044.49(4)  | 18044.44 | 18044.61(3)  | 472   |            |
|       |              |       | 18044.41(4)  | 473   |            |
| 6721  | 18043.39(5)  |       |             |       |            |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$     | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|-------|-------------|-----------|-------------|-------|----------------------------|
| 6722  | 18043.10(5) | 18043.08  |             |       |                            |
| 6723  | 18042.71(4) |           | 18042.76(4)| 474   |                            |
| 6724  | 18042.39(3) | 18042.40  | 18042.40(2)| 475   | T+ 3c-2a (2-1) R0         |
| 6725  | 18041.97(5) |           |             |       |                            |
| 6726  | 18041.53(4) | 18041.51  | 18041.50(3)| 476   | T+ 3d-2c (2-1) Q3         |
| 6727  | 18041.37(5) | 18041.51  | 18041.34(4)| 477   | S 3A-2B (2-9) R2          |
| 6728  | 18040.58(4) | 18040.61  | 18040.62(4)| 478   | S 4D-2C (0-0) Q5          |
| 6729  | 18040.05(4) | 18039.90  |             |       | S+ EF-2B (32-7) R1        |
| 6730  | 18039.45(4) | 18039.45  | 18039.45(4)| 479   |                            |
| 6731  | 18038.86(4) | 18038.81  | 18038.89(3)| 480   |                            |
| 6732  | 18038.71(6) |           | 18038.71(4)| 481   |                            |
| 6733  | 18038.28(3) | 18038.29  | 18038.29(3)| 482   |                            |
| 6734  | 18037.45(5) | 18037.53  | 18037.36(5)| 484   |                            |
| 6735  | 18037.06(3) | 18037.09  | 18037.05(2)| 485   |                            |
| 6736  | 18036.62(6) | 18036.74  | 18036.74(4)| 486   | T+ 3b-2a (8-2) R1         |
|       |             |           | 18036.28    |       |                            |
| 6737  | 18035.96(5) | 18035.95  |             |       |                            |
| 6738  | 18035.55(6) |           | 18035.47(6)| 487   |                            |
| 6739  | 18035.15(4) | 18035.11  | 18035.17(4)| 488   |                            |
| 6740  | 18034.85(4) | 18034.82  | 18034.87(3)| 489   |                            |
| 6741  | 18034.21(4) | 18034.07  |             |       |                            |
|       |             |           | 18033.75(4)| 490   |                            |
| 6742  | 18033.66(3) | 18033.63  | 18033.63(3)| 491   |                            |
| 6743  | 18033.22(7) |           |             |       |                            |
| 6744  | 18032.88(10)|           | 18032.86(5)| 492   |                            |
| 6745  | 18032.53(5) | 18032.46  | 18032.47(3)| 493   | T+ 3b-2a (8-2) R0         |
| 6746  | 18031.74(4) | 18031.79  | 18031.78(3)| 494   | S- 4E-2C (2-2) P4         |
| 6747  | 18031.38(4) | 18031.38  | 18031.39(3)| 495   | S- 3E-2B (0-4) Q2         |
| 6748  | 18030.75(4) | 18030.72  | 18030.76(4)| 496   |                            |
| 6749  | 18029.85(4) | 18029.64  | 18029.69(5)| 497   | S+ EF-2B (32-7) R0        |
| 6750  | 18029.18(4) | 18029.15  | 18029.20(4)| 498   | S+ 3E-2B (0-4) P3         |
| 6751  | 18028.61(3) | 18028.58  | 18028.66(2)| 499   |                            |
| 6752  | 18028.37(4) | 18028.50  | 18028.96   |       |                            |
|       |             |           |             |       |                            |
| 6753  | 18027.30(4) | 18027.37  | 18027.41(3)| 501   | T+ 3b-2a (8-2) R2         |
|       |             |           | 18027.19(3)| 502   |                            |
| 6754  | 18026.55(4) | 18026.55  | 18026.60(3)| 503   | S+ GK-2B (2-5) R3         |
| 6755  | 18025.81(5) | 18026.02  | 18025.86(6)| 504   |                            |
| 6756  | 18024.33(4) |           |             |       |                            |
| 6757  | 18023.56(3) | 18023.49  |             |       |                            |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|--------------|-------|-------------|-------|------------|
| 6758  | 18022.18(2)  | 18022.06 |  | 505     | S+ GK-2B (2-5) R2 |
| 6759  | 18021.89(2)  |  |  |  | |
| 6760  | 18021.35(4)  | 18021.32 |  | 506     | |
| 6761  | 18020.564(14)| 18020.59 | 18020.58(3) |     | S- 3E-2B (0-4) Q1 |
| 6762  | 18020.116(12)| 18020.10 | 18020.12(3) |     | T+ 3d-2c (2-1) R6 |
| 6763  | 18019.483(17)| 18019.46 | |  | |
| 6764  | 18019.11(3)  | 18019.02 |  |  | |
| 6765  | 18018.37(2)  | 18018.15 | |  | |
| 6766  | 18017.88(2)  | 18017.71 | |  | |
| 6767  | 18017.223(14)| 18017.22 | 18017.24(3) | 507   | S- 3E-2B (0-4) Q1 |
| 6768  | 18016.492(13)| 18016.42 | 18016.52(3) | 508   | T+ 3d-2c (2-1) R6 |
| 6769  | 18015.932(14)| 18015.94 | 18015.95(3) | 509   | S+ GK-2B (7-9) P3 |
| 6770  | 18015.207(18)| 18015.14 | |  | |
| 6771  | 18014.29(2)  | 18014.14 | |  | |
| 6772  | 18013.93(3)  | 18013.77(5) | 510  |     | |
| 6773  | 18013.08(2)  | 18013.11 | 18013.10(4) | 511   | S- 4E-2C (3-3) P2 |
| 6774  | 18012.644(15)| 18012.65 | 18012.64(4) | 512   | S- 4E-2C (1-1) P6 |
| 6775  | 18011.24(2)  | 18011.12 | 18011.19(4) | 513   | S+ GK-2B (2-5) R1 |
| 6776  | 18010.985(18)| 18010.96(3) | 514  |     | |
| 6777  | 18010.58(2)  | 18010.43 | |  | |
| 6778  | 18009.689(12)| 18009.70 | 18009.68(3) | 515   | T- 3c-2a (2-1) Q1 |
| 6779  | 18009.096(19)| 18009.05 | 18008.12 |     | |
| 6780  | 18007.30(2)  | 18007.36 | |  | |
| 6781  | 18006.702(12)| 18006.71 | 18006.68(3) | 516   | T+ 3c-2a (1-0) P6 |
| 6782  | 18006.099(16)| 18005.97 | 18006.09(4) | 517   | S 3A-2B (2-9) R1 |
| 6783  | 18005.80(2)  | 18005.87(4) | 518  |     | |
| 6784  | 18005.068(13)| 18005.08 | 18005.05(4) | 519   | T+ 3d-2c (1-0) P6 |
| 6785  | 18004.60(2)  | 18004.53 | 18004.53(4) | 521   | T+ 3b-2a (8-2) R3 |
| 6786  | 18003.916(16)| 18003.91 | 18002.60 | 522   | |
|       |              |         | 18002.52(5) | 523   | |
| 6787  | 18001.829(16)| 18001.74(5) | 524  |     | |
| 6788  | 18001.302(14)| 18001.30 | 18001.28(3) | 525   | S+ EF-2B (32-7) P1 |
|       |              |         | 18001.30 | 526   | S+ 3E-2B (0-4) P2 |
| 6789  | 18000.76(3)  |  |  | 527   | T- 3c-2a (2-1) Q2 |
| 6790  | 18000.197(12)| 18000.19 | 18000.18(3) | 528   | |
|       |              |         | 18000.17(3) | 529   | |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 6791  | 17999.70(3) | 17999.71(5) | 527 | |
| 6792  | 17999.29(3) | 17999.31 | 17999.24(4) | 528 | S- 4E-2C (4-4) R3 |
| 6793  | 17998.90(3) | 17998.88 | 17998.83(5) | 529 | |
|       |             | 17997.74 | 17997.73(5) | 530 | S+ GK-2B (7-9) P4 |
| 6794  | 17997.487(18) | 17997.44 | 17997.44(4) | 531 | |
| 6795  | 17996.735(15) | 17996.73 | 17996.72(3) | 532 | |
| 6796  | 17995.685(15) | 17995.67 | 17995.65(4) | 533 | |
| 6797  | 17994.522(19) | 17994.51 | 17994.51(3) | 534 | T+ 3d-2c (2-1) P3 |
| 6798  | 17994.21(3) | 17994.17 | 17994.15(4) | 535 | S- 4E-2C (4-4) R2 |
| 6799  | 17992.538(14) | 17992.52 | 17992.57(3) | 536 | T+ 3d-2c (2-1) Q4 |
|       |             |           | 17992.39(3) | 537 | |
| 6800  | 17992.06(2) | | | | |
| 6801  | 17991.355(15) | 17991.33 | 17991.34(4) | 538 | |
| 6802  | 17990.82(3) | | | | |
|       | | 17990.18 | | | |
|       | | 17989.48 | | | |
|       | | 17988.86 | 17988.90(5) | 539 | S 3A-2B (3-11) R3 |
| 6803  | 17988.778(14) | 17988.69 | 17988.74(5) | 540 | |
|       |             |           | 17987.88(6) | 541 | |
| 6804  | 17987.689(14) | 17987.70 | 17987.65(4) | 542 | |
| 6805  | 17987.113(19) | 17987.11(4) | 543 | |
| 6806  | 17986.802(15) | 17986.82 | 17986.84(3) | 544 | |
|       |             |           | 17986.68(4) | 545 | |
| 6807  | 17986.001(12) | 17985.99 | 17985.99(3) | 546 | T- 3c-2a (2-1) Q3 |
| 6808  | 17985.233(17) | 17985.25 | 17985.22(3) | 547 | S+ GK-2B (8-10) R2 |
|       |             |           | 17984.49 | | |
|       |             |           | 17983.96 | S- 4E-2C (4-4) R1 | |
| 6809  | 17983.379(19) | 17983.31 | 17983.41(5) | 548 | T+ 3b-2a (8-2) P1 |
|       |             |           | 17983.28(5) | 549 | |
| 6810  | 17982.28(3) | 17982.30 | 17982.30(3) | 550 | |
|       |             |           | 17982.12(4) | 551 | |
| 6811  | 17981.66(2) | 17981.65 | 17981.69(3) | 552 | |
|       |             |           | 17981.52(4) | 553 | |
| 6812  | 17980.85(3) | 17980.82 | 17980.83(5) | 554 | |
| 6813  | 17980.13(5) | 17979.91 | 17980.17(5) | 555 | |
| 6814  | 17979.26(3) | 17979.26 | 17979.27(3) | 556 | |
| 6815  | 17978.80(3) | 17978.82 | 17978.83(3) | 557 | T- 3c-2a (8-6) Q1 |
| 6816  | 17978.39(6) | 17978.10 | | | |
| 6817  | 17977.46(3) | 17977.48 | 17977.45(3) | 558 | S- 4E-2C (2-2) P5 |
| 6818  | 17976.54(3) | 17976.58 | 17976.59(4) | 559 | |
|       |             |           | 17976.36(5) | 560 | |
| $K_1$ | $\nu^{(a)}$ | $\nu$          | $\nu^{(c)}$          | $K_2$ | Assignment                      |
|-------|-------------|----------------|----------------------|-------|---------------------------------|
| 6819  | 17975.85(2) | 17975.87       | 17975.94(4)         | 561   |
|       |             |                | 17975.78(3)         | 562   |
| 6820  | 17975.27(3) | 17975.23       | 17975.27(4)         | 563   |
| 6821  | 17974.92(3) | 17974.94       | 17974.94(3)         | 564   | S+ GK-2B (8-10) R1             |
|       |             |                | 17974.04            |       |
| 6822  | 17973.49(5) |                |                      |       |
| 6823  | 17973.28(3) | 17973.28       | 17973.31(3)         | 565   |
|       |             |                | 17973.10            | 566   |
| 6824  | 17972.90(3) |                |                      |       |
| 6825  | 17972.12(2) | 17972.11       | 17972.10(4)         | 567   | S+ GK-2B (1-4) R7               |
|       |             |                | 17971.85            | 568   | S 3A-2B (2-9) R0                |
|       |             |                | 17971.85            |       | S- 4E-2C (3-3) P3               |
| 6826  | 17971.39(5) |                |                      |       |
| 6827  | 17970.84(3) |                |                      |       |
| 6828  | 17970.30(3) | 17970.30       | 17970.27(5)         | 569   |
| 6829  | 17969.41(4) | 17969.37       | 17969.36(3)         | 570   |
| 6830  | 17968.81(4) | 17968.81(5)    |                      | 571   |
| 6831  | 17968.52(3) | 17968.53       | 17968.49(3)         | 572   | T- 3c-2a (8-6) Q2               |
| 6832  | 17967.89(4) | 17967.88       | 17967.80(4)         | 573   | S+ GK-2B (2-5) P1               |
| 6833  | 17967.69(5) |                |                      |       |
| 6834  | 17967.11(2) | 17967.11       | 17967.08(3)         | 574   | T- 3c-2a (2-1) Q4               |
| 6835  | 17966.57(3) |                |                      |       |
|       |             |                | 17966.19            |       |
|       |             |                | 17965.63            |       |
| 6836  | 17964.87(3) | 17964.87       | 17964.84(4)         | 575   |
| 6837  | 17964.51(3) | 17964.47       | 17964.44(5)         | 576   |
| 6838  | 17964.02(3) | 17963.99       | 17963.96(4)         | 577   | S+ GK-2B (8-10) R0              |
| 6839  | 17962.88(4) | 17962.93       |                      |       |
| 6840  | 17962.21(3) |                |                      |       |
| 6841  | 17961.61(3) | 17961.62       |                      |       |
| 6842  | 17960.89(3) | 17960.73       | 17960.78(3)         | 578   | S+ EF-2B (32-7) P3              |
| 6843  | 17960.24(5) | 17960.23       |                      |       |
| 6844  | 17959.77(3) | 17959.77       | 17959.82(4)         | 579   |
| 6845  | 17959.57(4) | 17959.59       | 17959.62(4)         | 580   | T- 3f-2c (0-0) R14              |
| 6846  | 17958.81(2) | 17958.80       | 17958.78(3)         | 581   |                               |
|       |             |                | 17957.98            |       |
| 6847  | 17957.26(4) | 17957.36       |                      |       |
|       |             |                | 17956.29            | 582   | T+ 3b-2a (10-3) R0              |
| 6848  | 17956.10(3) | 17956.03       | 17956.02(5)         | 583   |
|       |             |                | 17955.66            |       |
|       |             |                | 17954.67            | 584   |
|       |             |                | 17954.74(5)         |       |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 6849  | 17953.17(3) | 17953.14 | 17953.14(3) | 585   | T+ 3b-2a (10-3) R1 |
| 6850  | 17952.50(4) | 17952.47(3) | 586   | T- 3c-2a (8-6) Q3 |
| 6851  | 17951.46(4) | 17951.47 |       |       |            |
| 6852  | 17950.87(3) | 17950.81 | 17950.80(4) | 587   |            |
| 6853  | 17950.68(4) | 17950.00 |       |       |            |
| 6854  | 17949.15(3) | 17949.19 | 17949.18(4) | 588   |            |
| 6855  | 17948.71(3) | 17948.80 | 17948.47 |       | S+ GK-2B (2-5) P2 |
|       |             |       |       | S 4D-2C (0-0) P5 |
| 6856  | 17947.70(3) | 17947.64 |       |       |            |
| 6857  | 17946.65(2) | 17946.62 | 17946.65(3) | 589   |            |
| 6858  | 17945.70(4) | 17945.80 |       |       |            |
| 6859  | 17945.130(17) | 17945.13 | 17945.13(3) | 590   | T+ 3c-2a (2-1) P2 |
|       |             |       |       | S+ 3F-2C (3-0) R3 |
| 6860  | 17944.62(3) | 17944.30 |       |       |            |
| 6861  | 17944.13(4) | 17944.66 | 17943.67(3) | 591   | T- 3c-2a (2-1) Q5 |
| 6862  | 17943.650(16) | 17943.66 | 17943.67(3) | 592   |            |
| 6863  | 17943.19(3) |       |       | S+ 3E-2B (4-11) R1 |
| 6864  | 17942.72(3) | 17942.69 |       |       | T- 3f-2c (0-0) R13 |
| 6865  | 17942.40(2) | 17942.49 | 17942.45(4) | 592   |            |
| 6866  | 17941.67(3) | 17941.78 |       |       |            |
|       |             |       |       |            |
| 6867  | 17941.24(2) | 17941.20 | 17941.29(3) | 593   |            |
| 6868  | 17940.482(16) | 17940.48 | 17940.50(3) | 594   |            |
| 6869  | 17939.95(4) |       |       |            |
| 6870  | 17939.52(2) | 17939.57 |       |       |            |
| 6871  | 17938.96(4) |       |       |            |
| 6872  | 17938.52(2) | 17938.56 | 17938.57(3) | 595   | T+ 3b-2a (8-2) P2 |
| 6873  | 17937.95(3) | 17937.81 | 17937.86(4) | 596   | T+ 3d-2c (2-1) Q5 |
| 6874  | 17937.74(2) | 17937.69(4) | 597   |            |
| 6875  | 17936.88(3) |       |       |            |
| 6876  | 17936.53(2) | 17936.69 | 17936.69(2) | 598   | S+ GK-2B (8-10) P1 |
|       |             |       |       | S+ EF-2B (32-7) P4 |
|       |             |       |       | S 3A-2B (2-9) P4 |
| 6877  | 17935.82(3) | 17935.83 | 17935.80(3) | 599   |            |
| 6878  | 17935.31(2) | 17935.34 | 17935.28(4) | 600   | S 3A-2B (3-11) R2 |
| 6879  | 17934.63(2) | 17934.82 | 17934.81(3) | 601   |            |
|       |             |       |       |            |
| 6880  | 17933.61(2) | 17933.55 |       |       |            |
|       |             |       |       |            |
|       | 17933.18 |       |       |            |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$  | Assignment                   |
|-------|-------------|-------|-------------|-------|-----------------------------|
| 6881  | 17932.710(18) | 17932.72 | 17932.704(18) | 604   | T- 3c-2a (8-6) Q4          |
| 6882  | 17931.81(2)  | 17931.84 |             |       | S 3A-2B (2-9) P1           |
| 6883  | 17930.969(17) | 17930.97 | 17930.992(19) | 605   |                             |
|       |             |        | 17930.83(3)  | 606   |                             |
| 6884  | 17930.62(3)  | 17930.63 | 17930.58(2)  | 607   | S 3A-2B (2-9) P3           |
| 6885  | 17930.27(2)  | 17930.28 | 17930.28(2)  | 608   | S- 3E-2B (1-6) Q5          |
| 6886  | 17929.92(3)  |        | 17929.97(4)  | 609   |                             |
| 6887  | 17929.33(3)  |        | 17929.01     |       |                             |
| 6888  | 17928.72(3)  |        | 17928.467(19)| 610   |                             |
| 6889  | 17928.113(19)| 17928.11| 17928.098(19)| 611   | S+ 3F-2C (3-0) R2          |
| 6890  | 17927.50(2)  | 17927.52| 17927.51(3)  | 612   | S+ GK-2B (2-5) P3          |
|       |             |        | 17926.81     |       | S 3A-2B (2-9) P2           |
| 6891  | 17925.67(4)  | 17925.70| 17925.65(3)  | 613   | S- 4E-2C (3-3) P4          |
| 6892  | 17924.921(18)| 17924.92| 17924.916(18)| 614   | S- 3E-2B (4-11) Q3         |
| 6893  | 17924.365(18)| 17924.36| 17924.362(18)| 615   | T+ 3d-2c (2-1) P4          |
| 6894  | 17923.91(3)  | 17924.15| 17924.06(4)  | 616   |                             |
|       |             |        | 17923.56     |       |                             |
| 6895  | 17922.72(2)  | 17922.70| 17922.700(17)| 617   |                             |
| 6896  | 17922.145(19)| 17922.15| 17922.16(2)  | 618   | T- 3f-2c (0-0) R12         |
| 6897  | 17921.81(3)  | 17921.84| 17921.82(4)  | 619   | S- 3E-2C (5-1) P3          |
|       |             |        | 17921.17     | 620   | S- 4E-2C (2-2) P6          |
| 6898  | 17921.02(2)  | 17920.81| 17920.89(2)  | 621   |                             |
| 6899  | 17920.603(18)| 17920.57| 17920.64(2)  | 622   | T+ 3f-2c (0-0) R9          |
| 6900  | 17919.91(2)  | 17919.88| 17919.89(3)  | 623   | S+ GK-2B (8-10) P2         |
|       |             |        | 17919.60     |       |                             |
| 6901  | 17918.80(2)  | 17918.80| 17918.80(3)  | 624   | S+ GK-2B (1-4) R6          |
| 6902  | 17918.09(2)  | 17918.12| 17918.09(2)  | 625   |                             |
| 6903  | 17917.71(4)  | 17917.78|             |       |                             |
| 6904  | 17917.16(3)  | 17917.21| 17917.33(3)  | 626   |                             |
| 6905  | 17916.700(19)| 17916.68| 17916.71(3)  | 627   |                             |
| 6906  | 17916.16(4)  | 17916.25(3)| 628   |                             |
| 6907  | 17915.725(16)| 17915.73| 17915.732(15)| 629   | T- 3c-2a (2-1) Q6          |
| 6908  | 17915.20(3)  |        |              |       |                             |
|       |              |        | 17914.77     |       | T+ 3d-2c (1-0) P7          |
| 6909  | 17914.050(18)| 17914.04| 17914.054(17)| 630   |                             |
|       |              |        | 17913.75     | 631   |                             |
| 6910  | 17913.45(3)  |        |              |       |                             |
| $K_1$ | $\nu^{(a)}$ | $\nu^{(b)}$ | $\nu^{(c)}$ | $K_2$ | Assignment       |
|-------|--------------|--------------|--------------|-------|------------------|
| 6911  | 17912.319(18)| 17912.24     | 17912.39(3)  | 632   |                  |
|       | 17912.24     | 17912.20(4)  | 633          |       |                  |
| 6912  | 17910.86(3)  | 17910.87     | 631          |       |                  |
|       |              | 17909.97     | 632          | S 4D-2C (0-0) Q7 |
| 6913  | 17909.57(5)  | 17909.35(3)  | 632          |       |                  |
| 6914  | 17909.28(3)  | 17909.24     | 634          |       |                  |
|       |              | 17909.18(3)  | 635          |       |                  |
| 6915  | 17908.48(3)  | 17908.39     | 636          |       |                  |
|       |              | 17908.41(3)  | 637          |       |                  |
| 6916  | 17907.91(3)  | 17907.88     | 638          |       |                  |
| 6917  | 17907.33(3)  | 17907.34     | 639          | 631   |                  |
|       |              | 17907.34(2)  |              | T- 3c-2a (8-6) Q5 |
|       |              | 17907.34     | 632          |       | S+ 3F-2C (3-0) R1 |
| 6918  | 17906.55(4)  | 17906.71     | 641          |       |                  |
| 6919  | 17905.40(4)  | 17904.72(2)  | 642          |       |                  |
|       |              | 17904.11(4)  |              |       |                  |
| 6921  | 17903.97(3)  | 17903.95     | 633          | 632   |                  |
|       |              | 17903.962(17)|              | T+ 3c-2a (2-1) P3 |
|       |              | 17903.95     | 634          |       | S+ GK-2B (2-5) P4 |
| 6922  | 17903.45(3)  | 17903.54     | 644          |       |                  |
|       |              | 17903.47(3)  |              |       |                  |
| 6923  | 17902.80(3)  | 17902.92     | 645          |       |                  |
|       |              | 17902.88(4)  |              |       |                  |
|       |              | 17902.65     | 650          |       |                  |
| 6924  | 17902.26(6)  | 17901.58     | 646          | 633   |                  |
|       |              | 17901.570(19)|              | S+ GK-2B (8-10) P3 |
| 6925  | 17901.55(3)  | 17900.99     | 647          |       |                  |
|       |              | 17901.02(3)  |              | S 3A-2B (3-11) R1 |
| 6926  | 17900.92(3)  | 17900.83(4)  | 648          |       |                  |
|       |              | 17900.29(2)  |              |       |                  |
|       |              | 17900.04(3)  |              |       |                  |
| 6927  | 17900.24(3)  | 17900.18     | 649          |       |                  |
|       |              | 17900.19     |              |       |                  |
|       |              | 17900.04(3)  |              |       |                  |
| 6928  | 17899.47(3)  | 17899.49     | 650          | 651   |                  |
|       |              | 17899.47(2)  |              | S- 3E-2B (4-11) Q2 |
| 6929  | 17899.06(5)  | 17899.16     | 652          |       |                  |
|       |              | 17899.16     |              | T+ 3b-2a (10-3) R3 |
| 6930  | 17898.12(3)  | 17898.07     | 653          |       |                  |
|       |              | 17897.62     |              | T- 3f-2c (0-0) R11 |
| 6931  | 17896.55(4)  | 17896.45     | 654          |       |                  |
| 6932  | 17895.96(4)  | 17895.54     | 655          |       |                  |
| 6933  | 17895.53(4)  | 17895.54     | 656          |       |                  |
| 6934  | 17894.14(4)  | 17894.56     | 657          |       |                  |
| 6935  | 17893.52(6)  | 17893.10     | 658          |       |                  |
| 6936  | 17893.07(3)  | 17893.077(17)| 659          |       |                  |
| 6937  | 17892.54(3)  | 17892.76     | 660          |       |                  |
| 6938  | 17892.12(7)  | 17892.60(4)  | 661          |       |                  |
| $K_1$ | $\nu^{(a)}$       | $\nu$      | $\nu^{(c)}$       | $K_2$ | Assignment                  |
|-------|-------------------|------------|-------------------|-------|----------------------------|
| 6939  | 17889.148(3)      | 17891.65  |                   | 654   |                            |
| 6940  | 17890.92(3)       | 17890.94  | 17890.928(19)     |       |                            |
| 6941  | 17890.50(4)       |           |                   |       |                            |
| 6942  | 17890.26(5)       | 17890.36  | 17890.32(3)       | 655   | S- 4E-2C (1-1) P8          |
| 6943  | 17890.00(4)       | 17889.91  | 17890.00(2)       | 656   | S+ 3E-2B (1-6) R1          |
|       |                   | 17889.91  |                   |       | S- 4E-2C (4-4) P2          |
| 6944  | 17888.80(4)       | 17888.82  | 17888.79(4)       | 657   |                            |
| 6945  | 17888.26(3)       | 17888.22  | 17888.27(2)       | 658   | S- 3E-2B (1-6) Q4          |
| 6946  | 17887.85(5)       | 17887.84  |                   |       |                            |
| 6947  | 17887.47(9)       |           |                   |       |                            |
| 6948  | 17886.86(3)       | 17886.87  | 17886.861(17)     | 659   |                            |
| 6949  | 17886.26(4)       | 17886.19  | 17886.18(2)       | 660   |                            |
| 6950  | 17886.03(4)       |           |                   |       |                            |
| 6951  | 17885.47(5)       |           |                   |       |                            |
| 6952  | 17884.68(5)       | 17884.55  |                   |       |                            |
| 6953  | 17883.99(4)       | 17883.94  |                   |       |                            |
| 6954  | 17883.39(3)       | 17883.38  | 17883.388(17)     | 661   | T- 3c-2a (2-1) Q7          |
| 6955  | 17882.96(3)       |           | 17883.04(4)       | 662   |                            |
|       |                   |           | 17882.81          |       |                            |
| 6956  | 17882.54(3)       | 17882.54  | 17882.53(2)       | 664   | S- 3E-2B (4-11) Q1         |
| 6957  | 17882.09(6)       |           | 17882.15(4)       | 665   |                            |
|       |                   |           | 17881.02          |       |                            |
| 6958  | 17880.73(3)       | 17880.71  | 17880.73(2)       | 666   | T+ 3b-2a (8-2) P3          |
| 6959  | 17879.99(3)       | 17879.87  |                   |       |                            |
| 6960  | 17878.63(3)       | 17878.62  | 17878.680(18)     | 667   | T+ 3d-2c (2-1) Q6          |
|       |                   |           | 17878.51(2)       | 668   |                            |
| 6961  | 17878.16(5)       |           |                   |       |                            |
| 6962  | 17877.56(4)       | 17877.40  |                   |       | S+ GK-2B (2-5) P5          |
| 6963  | 17877.08(3)       | 17877.05  | 17877.10(2)       | 669   | T- 3c-2a (8-6) Q6          |
|       |                   |           | 17876.93(4)       | 670   |                            |
| 6964  | 17876.55(6)       |           |                   |       |                            |
| 6965  | 17876.10(5)       | 17876.04  |                   |       | S- 4E-2C (3-3) P5          |
| 6966  | 17875.37(3)       |           | 17875.39(2)       | 671   |                            |
|       |                   |           | 17875.30          |       | S 3A-2B (3-11) R0          |
| 6967  | 17874.76(3)       | 17874.63  |                   |       | S+ GK-2B (1-4) R5          |
| 6968  | 17874.33(4)       |           |                   |       |                            |
| 6969  | 17873.54(3)       | 17873.49  |                   |       | T+ 3f-2c (0-0) R8          |
| 6970  | 17873.02(4)       | 17872.93  | 17872.94(3)       | 674   |                            |
| $K_1$ | $\nu^{(a)}$  | $\nu$    | $\nu^{(c)}$  | $K_2$ | Assignment |
|-------|--------------|---------|--------------|-------|------------|
| 6971  | 17872.75(5)  | 17872.66| 17872.63(4)  | 675   |            |
| 6972  | 17872.04(4)  | 17871.96| 17872.02(2)  | 676   |            |
| 6973  | 17871.68(4)  | 17871.62|              |       |            |
| 6974  | 17871.00(3)  | 17870.97| 17870.985(19)| 677   | T- 3f-2c (0-0) R10  |
|       |              |         | 17870.97     |       | S+ 3E-2B (4-11) P3 |
| 6975  | 17870.43(4)  | 17870.27| 17869.97     |       |            |
| 6976  | 17869.49(3)  | 17869.54| 17869.56(2)  | 678   |            |
|       |              |         | 17869.34(4)  | 679   |            |
| 6977  | 17868.90(3)  | 17868.91| 17868.91(2)  | 680   |            |
| 6978  | 17868.41(4)  | 17868.68(5)|              | 681   |            |
| 6979  | 17866.59(4)  | 17866.65| 17866.64(3)  | 682   |            |
| 6980  | 17866.11(4)  | 17866.19| 17866.21(2)  | 683   |            |
| 6981  | 17865.76(4)  | 17865.81| 17865.81(2)  | 684   | T+ 3b-2a (10-3) P2 |
|       |              |         | 17865.69(4)  | 685   |            |
| 6982  | 17865.34(7)  | 17865.24| 17865.30(5)  | 686   |            |
|       |              |         | 17864.82(6)  | 687   |            |
| 6983  | 17864.55(3)  | 17864.59| 17864.55(2)  | 688   |            |
|       |              |         | 17864.31     | 689   |            |
|       |              |         | 17863.47(4)  | 690   |            |
|       |              |         | 17862.73     |       |            |
| 6984  | 17862.24(4)  | 17862.28|              |       |            |
| 6985  | 17861.48(3)  | 17861.50| 17861.47(3)  | 691   |            |
| 6986  | 17860.91(4)  | 17860.94| 17860.98(4)  | 692   |            |
|       |              |         | 17860.22     |       |            |
|       |              |         | 17859.84     |       |            |
| 6987  | 17859.43(4)  | 17859.39|              |       |            |
|       |              |         | 17859.06(3)  | 693   |            |
| 6988  | 17859.02(3)  | 17858.98| 17858.95(3)  | 694   | T+ 3d-2c (3-2) R1 |
| 6989  | 17858.62(3)  | 17858.63| 17858.608(16)| 695   | T+ 3c-2a (2-1) P4 |
|       |              |         | 17858.39     | 696   |            |
| 6990  | 17858.10(5)  | 17858.00(4)|              | 697   |            |
| 6991  | 17857.70(5)  | 17857.75| 17857.67(4)  | 698   |            |
| 6992  | 17855.37(3)  | 17855.40| 17855.38(2)  | 699   | S- 3E-2B (1-6) Q3 |
| 6993  | 17854.75(3)  | 17854.92| 17854.92(2)  | 700   | S 4D-2C (0-0) P6 |
|       |              |         | 17854.92     | 701   | S 3A-2B (3-11) P1 |
| 6994  | 17854.46(4)  | 17854.72|              |       |            |
| 6995  | 17853.53(4)  | 17853.42|              |       |            |
| 6996  | 17852.75(4)  | 17852.63|              |       | S- 4E-2C (4-4) P3 |
| 6997  | 17852.06(5)  |              | 17850.91(3)  | 702   |            |
| $K_1$ | $\nu^{(a)}$ | $\nu^{(b)}$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------------|-------------|-------|------------|
| 6998  | 17850.80(3) | 17850.75    | 17850.70(2) | 703   | T+ 3d-2c (3-2) R2 |
| 6999  | 17848.03(5) | 17848.25    |             |       |             |
| 7000  | 17847.24(4) | 17847.05(2) |             | 704   |             |
| 7001  | 17846.81(3) | 17846.80    | 17846.798(19)| 705   | T- 3c-2a (2-1) Q8 |
|       |             |             | 17846.80    |       | T+ 3d-2c (2-1) P5 |
| 7002  | 17846.43(4) | 17846.36    |             | 707   |             |
| 7003  | 17846.07(7) | 17845.83    |             |       |             |
| 7004  | 17845.60(3) | 17845.83    |             |       |             |
|       |             | 17845.60    | 17845.59(2) | 708   |             |
| 7005  | 17844.98(4) |             |             |       |             |
| 7006  | 17844.76(5) | 17844.83    |             |       |             |
| 7007  | 17843.71(3) | 17843.70    | 17843.64(3) | 709   |             |
| 7008  | 17843.25(4) | 17843.22    | 17843.24(4) | 710   |             |
| 7009  | 17842.71(3) | 17842.68    | 17842.695(18)| 711   | T+ 3c-2a (3-2) R5 |
| 7010  | 17842.12(3) | 17842.03    | 17842.121(16)| 712   | T+ 3c-2a (3-2) R4 |
| 7011  | 17841.87(4) | 17841.915(18)|           | 713   |             |
| 7012  | 17841.58(4) | 17841.66    | 17841.63(3) | 714   | S+ GK-2B (1-4) R4 |
| 7013  | 17840.83(3) | 17840.86    |             |       | T- 3f-2c (0-0) R9 |
| 7014  | 17840.09(4) |             |             |       |             |
| 7015  | 17838.58(4) | 17838.55(3) |             | 715   |             |
| 7016  | 17837.55(3) | 17837.53    | 17837.55(3) | 716   | S- 3E-2B (2-8) Q7 |
| 7017  | 17836.65(4) | 17836.63    | 17836.67(3) | 717   |             |
| 7018  | 17836.10(6) | 17835.91    |             |       | S 3A-2B (3-11) P4 |
| 7019  | 17835.68(4) | 17835.62    |             |       | S+ 3E-2B (1-6) P4 |
| 7020  | 17835.05(3) | 17835.04    | 17835.054(16)| 718   | T+ 3c-2a (3-2) R3 |
| 7021  | 17834.31(4) | 17834.27    | 17834.30(4) | 719   | T+ 3d-2c (3-2) R3 |
| 7022  | 17834.16(6) | 17834.21(6) |             | 720   |             |
| 7023  | 17832.90(4) | 17832.90    | 17832.91(3) | 721   |             |
| 7024  | 17832.39(4) | 17832.36    |             |       |             |
| 7025  | 17831.70(4) | 17831.68    | 17831.65(2) | 722   | S- 3E-2B (1-6) Q2 |
| 7026  | 17831.27(3) | 17831.28    | 17831.26(2) | 723   |             |
| 7027  | 17830.73(3) | 17830.74    | 17830.74(2) | 724   |             |
| 7028  | 17830.36(3) | 17830.42    | 17830.39(3) | 725   |             |
| 7029  | 17828.36(3) | 17828.38    | 17828.40(2) | 726   | T+ 3d-2c (3-2) Q1 |
|       |             |             | 17828.18(3) | 727   |             |
| 7030  | 17828.00(4) | 17827.88    | 17827.83(2) | 728   |             |
| 7031  | 17827.49(3) | 17827.49    | 17827.478(17)| 729   |             |
|       |             |             | 17826.81    |       |             |
| 7032  | 17826.17(3) | 17826.19    | 17826.16(2) | 730   |             |
| 7033  | 17825.09(3) | 17825.07    | 17825.11(3) | 731   |             |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|------|-------------|-------|------------|
| 7034  | 17824.77(4) | 17824.82 | 17824.79(3) | 732   |            |
| 7035  | 17823.93(3) | 17823.93 | 17823.98(3) | 733   | T+ 3f-2c (0-0) R7 |
| 7036  | 17823.75(4) | 17823.93 | 17823.84(3) | 734   | S- 4E-2C (3-3) P6 |
| 7037  | 17823.22(3) | 17823.33 | 17823.22(2) | 735   |            |
| 7038  | 17822.61(3) | 17822.59 | 17822.604(14) | 736   | T+ 3c-2a (3-2) R2 |
| 7039  | 17822.26(3) | 17822.38(2) | 737   |            |
| 7040  | 17821.89(3) | 17821.75 | 17821.94(3) | 738   |            |
| 7041  | 17821.07(3) | 17821.14 | 17821.092(19) | 739   |            |
|       |             |        | 17820.81(4) | 740   |            |
| 7042  | 17820.30(3) | 17820.25 | 17820.250(19) | 741   |            |
| 7043  | 17820.05(3) | 17820.05 | 17819.993(19) | 742   |            |
| 7044  | 17819.42(3) | 17819.46 | 17819.412(17) | 743   |            |
|       |             |        | 17819.23(2) | 744   |            |
|       |             |        | 17818.73   | 745   | S+ WX-2B (0-2) P1 |
| 7045  | 17818.16(3) | 17818.22 | 17818.229(18) | 746   |            |
|       |             |        | 17818.107(19) | 746   |            |
| 7046  | 17817.10(3) | 17817.12 | 17817.072(18) | 747   | S+ GK-2B (1-4) R3 |
| 7047  | 17815.90(3) | 17815.90 | 17815.914(19) | 748   | T+ 3d-2c (2-1) Q7 |
|       |             |        | 17815.71(3) | 749   |            |
| 7048  | 17815.49(4) | 17815.47 | 17815.42(2) | 750   | S- 3E-2B (1-6) Q1 |
|       |             |        | 17814.56   | 751   |            |
| 7049  | 17813.85(3) | 17813.86 | 17813.830(17) | 751   |            |
|       |             |        | 17813.53   | 752   |            |
| 7050  | 17812.83(3) | 17812.87 | 17812.86(2) | 753   |            |
|       |             |        | 17812.74(4) | 754   |            |
|       |             |        | 17812.35   | 755   |            |
|       |             |        | 17811.81   | 756   | T+ 3d-2c (3-2) R4 |
| 7051  | 17811.20(3) | 17811.29 | 17811.29(2) | 757   | S- 4E-2C (4-4) P4 |
|       |             |        | 17810.95   | 757   |            |
| 7052  | 17810.64(3) | 17810.78 | 17810.55(3) | 758   |            |
|       |             |        | 17810.59   | 758   |            |
| 7053  | 17809.90(3) | 17809.85 | 17809.853(17) | 759   | T+ 3b-2a (8-2) P4 |
| 7054  | 17809.28(3) | 17809.28 | 17809.266(15) | 760   | T+ 3c-2a (2-1) P5 |
| 7055  | 17808.66(3) | 17808.64 | 17808.64(3) | 761   | S+ 3E-2B (1-6) P3 |
| 7056  | 17807.88(3) | 17807.86 | 17807.90(2) | 762   | T- 3f-2c (0-0) R8 |
| 7057  | 17807.51(5) | 17807.38 | 17807.71(3) | 763   |            |
| 7058  | 17806.77(5) | 17806.71 |            | 764   | T- 3c-2a (2-1) Q9 |
| 7059  | 17806.07(3) | 17806.03 | 17806.05(2) | 765   |            |
| 7060  | 17805.27(3) | 17805.25 | 17805.254(14) | 765   |            |
|       |             |        | 17804.34   | 766   |            |
Table II (Continued).

| $K_1$  | $\nu^{(a)}$  | $\nu$  | $\nu^{(c)}$  | $K_2$  | Assignment                      |
|--------|---------------|--------|---------------|--------|---------------------------------|
| 7061   | 17803.21(3)   | 17803.39 | 17803.35(4)   | 766    | T+ 3b-2a (10-3) P3              |
|        |               |         | 17803.17(3)   |        |                                 |
| 7062   | 17802.37(3)   | 17802.31 | 17802.28(3)   | 768    |                                 |
| 7063   | 17801.97(3)   | 17801.97 | 17802.025(17) | 769    | T+ 3d-2c (3-2) Q2              |
|        |               |         | 17801.846(19) |        |                                 |
| 7064   | 17801.30(3)   | 17801.30 | 17801.299(15) | 770    |                                 |
| 7065   | 17800.87(4)   | 17800.95 | 17800.96(3)   | 772    | S+ GK-2B (1-4) R2              |
|        |               |         | 17800.69(3)   |        |                                 |
| 7066   | 17799.68(3)   | 17799.71 | 17799.74(3)   | 774    |                                 |
| 7067   | 17798.75(3)   | 17798.76 | 17798.76(2)   | 775    |                                 |
| 7068   | 17798.35(3)   | 17798.36 | 17798.365(17) | 776    |                                 |
| 7069   | 17797.40(6)   |         | 17797.31(2)   | 777    |                                 |
| 7070   | 17797.03(4)   | 17797.08 | 17797.06(3)   | 778    |                                 |
| 7071   | 17796.48(4)   | 17796.42 | 17796.428(18) | 779    |                                 |
| 7072   | 17795.94(4)   | 17795.91 | 17795.93(2)   | 780    |                                 |
| 7073   | 17794.47(4)   | 17794.48 | 17794.41(5)   | 781    |                                 |
| 7074   | 17793.92(3)   | 17793.92 | 17793.915(16) | 782    |                                 |
| 7075   | 17793.34(3)   | 17793.34 | 17793.38(2)   | 783    |                                 |
|        |               |         | 17793.31(3)   | 784    |                                 |
| 7076   | 17792.62(5)   | 17792.55 | 17792.51(5)   | 785    | S+ WX-2B (0-2) P2              |
| 7077   | 17791.38(4)   | 17791.42 | 17791.41(2)   | 786    | S+ GK-2B (1-4) R1              |
|        |               |         | 17791.42      |        |                                 |
|        |               |         | 17790.99(5)   | 787    |                                 |
| 7078   | 17790.82(3)   | 17790.82 | 17790.745(17) | 788    |                                 |
| 7079   | 17790.31(3)   | 17790.36 | 17790.30(2)   | 789    |                                 |
|        |               |         | 17789.96      |        |                                 |
|        |               |         | 17789.65(5)   | 790    |                                 |
| 7080   | 17786.36(4)   | 17786.37 | 17786.36(3)   | 791    |                                 |
|        |               |         | 17785.97      |        | S- 4E-2B (0-11) Q1              |
| 7081   | 17785.60(3)   |         | 17785.58(2)   | 792    |                                 |
| 7082   | 17785.07(5)   |         | 17785.88(2)   | 793    |                                 |
| 7083   | 17784.61(4)   | 17784.64 | 17784.60(2)   | 794    |                                 |
| 7084   | 17783.87(4)   | 17783.80 | 17783.91(4)   | 795    | T+ 3c-2a (3-2) R0              |
| 7085   | 17783.06(3)   | 17783.04 | 17783.06(2)   | 796    | T+ 3d-2c (3-2) R5              |
| 7086   | 17782.75(4)   | 17782.88(3) |        | 797    |                                 |
| 7087   | 17781.92(3)   | 17781.95 | 17781.95(2)   | 798    |                                 |
|        |               |         | 17781.79(3)   |        |                                 |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|------------|-------|------------|-------|------------|
| 7088  | 17781.42(4)| 17781.31| 17781.39(4)| 799   |            |
|       |            |       | 17780.34(4)| 800   |            |
| 7089  | 17779.34(3)| 17779.32| 17779.34(3)| 801   |            |
|       |            |       | 17779.11(4)| 802   |            |
| 7090  | 17777.48(5)| 17777.47| 17777.55(4)| 803   |            |
| 7091  | 17776.69(4)| 17776.68| 17776.69(3)| 804   |            |
| 7092  | 17775.84(3)| 17775.82| 17775.82(3)| 805   | S- 3E-2B (2-8) Q6 |
| 7093  | 17775.24(5)| 17775.14(3)|       | 806   |            |
| 7094  | 17774.78(5)| 17774.75|            |       |            |
|       |            | 17773.75| 17773.66(4)| 807   |            |
| 7095  | 17773.43(4)| 17773.32| 17773.30(2)| 808   |            |
| 7096  | 17772.82(3)| 17772.81| 17772.82(3)| 809   | T+ 3f-2c (0-0) R6 |
| 7097  | 17772.42(3)| 17772.44| 17772.49(3)| 810   | T- 3f-2c (0-0) R7 |
|       |            | 17772.08| 17772.32(5)| 811   |            |
| 7098  | 17771.94(5)|            |            |       |            |
| 7099  | 17771.31(4)| 17771.34| 17771.35(3)| 812   |            |
| 7100  | 17770.76(4)| 17770.70|            |       |            |
| 7101  | 17769.89(5)|            |            |       |            |
| 7102  | 17768.67(4)|            |            |       |            |
| 7103  | 17768.27(4)| 17768.24| 17768.27(3)| 813   |            |
|       |            | 17767.26|            |       |            |
| 7104  | 17766.79(5)| 17766.89| 17766.79(4)| 814   |            |
|       |            | 17766.52|            |       |            |
| 7105  | 17765.98(3)| 17766.00| 17766.01(2)| 815   |            |
|       |            | 17765.77|            |       |            |
| 7106  | 17765.59(3)| 17765.57| 17765.62(3)| 816   | T+ 3d-2c (3-2) Q3 |
|       |            |       | 17765.44(3)| 817   |            |
| 7107  | 17764.92(4)| 17764.89| 17764.88(6)| 818   | S- 4E-2C (4-4) P5 |
| 7108  | 17764.45(5)| 17764.51|            |       | T+ 3d-2c (2-1) P6 |
| 7109  | 17763.67(4)| 17763.61|            |       |            |
| 7110  | 17762.84(3)| 17762.81| 17762.80(2)| 819   |            |
| 7111  | 17761.94(5)|            |            |       |            |
|       |            |       | 17761.44(3)| 820   |            |
| 7112  | 17761.34(3)| 17761.33| 17761.31(3)| 821   | T- 3c-2a (2-1) Q10 |
|       |            | 17761.33|            |       | T+ 3f-2c (1-1) R9 |
| 7113  | 17760.94(4)| 17761.05(4)|       | 822   |            |
|       |            | 17760.71| 17760.75(3)| 823   | S 4D-2C (0-0) P7 |
| 7114  | 17760.38(4)| 17760.37| 17760.38(3)| 824   | T+ 3b-2a (6-1) R1 |
| 7115  | 17759.46(4)| 17759.55|            |       |            |
| 7116  | 17759.01(4)| 17758.99| 17759.07(4)| 825   | S+ GK-2B (1-4) P1 |
| 7117  | 17758.33(4)| 17758.28| 17758.45(5)| 826   |            |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|------|----------|-------|-----------|
| 7118  | 17757.75(4) | 17757.77 |         |       |           |
| 7119  | 17757.03(3) | 17757.09 | 17757.07(3) | 827   |           |
|       |             |        | 17756.56(5) |       |           |
| 7120  | 17756.43(3) | 17756.43 | 17756.43(2) | 829   | T+ 3b-2a (6-1) R2 |
| 7121  | 17755.98(3) | 17756.03 | 17756.05(2) | 830   | T+ 3c-2a (2-1) P6 |
| 7122  | 17755.33(5) |         |           |       |           |
| 7123  | 17754.82(5) | 17754.87 |         |       |           |
|       |             |        | 17753.23  |       |           |
|       |             |        | 17752.87  |       |           |
| 7124  | 17752.08(4) | 17752.14 | 17752.14(4) | 831   | T+ 3b-2a (6-1) R0 |
| 7125  | 17751.57(4) | 17751.60 | 17751.62(3) | 832   | T- 3c-2a (3-2) Q1 |
| 7126  | 17750.82(4) | 17750.88 | 17750.90(6) | 833   |           |
|       |             |        | 17750.72(6) |       |           |
|       |             |        | 17750.33(4) |       |           |
| 7127  | 17750.25(4) | 17750.20 | 17750.14(4) | 836   | S+ WX-2B (0-2) P3 |
| 7128  | 17750.10(6) |         |            |       |           |
|       |             |        | 17746.09  |       | S- 3F-2B (0-5) Q5 |
|       |             |        | 17745.85  |       |           |
| 7129  | 17744.71(4) | 17744.74 | 17744.71(4) | 837   |           |
|       |             |        | 17743.90  |       |           |
| 7130  | 17742.83(5) | 17743.00 |         |       |           |
| 7131  | 17742.31(4) | 17742.31 | 17742.31(3) | 838   | T- 3c-2a (3-2) Q2 |
| 7132  | 17741.84(6) |         |            |       |           |
|       |             |        | 17741.47  |       |           |
|       |             |        | 17740.95  |       |           |
| 7133  | 17740.26(4) | 17740.31 | 17740.25(4) | 839   | T+ 3b-2a (6-1) R3 |
| 7134  | 17739.40(5) |         |            |       |           |
|       |             |        | 17738.82  |       |           |
|       |             |        | 17738.20  |       |           |
| 7135  | 17737.47(4) | 17737.44 | 17737.48(4) | 840   |           |
| 7136  | 17737.23(6) |         | 17737.33(4) | 841   |           |
| 7137  | 17735.57(7) |         |            |       |           |
| 7138  | 17735.14(4) |         | 17735.17(5) | 842   |           |
|       |             |        | 17735.01  |       |           |
|       |             |        | 17735.08(5) |       |           |
| 7139  | 17734.85(4) | 17734.82 | 17734.87(4) | 844   | T- 3f-2c (0-0) R6 |
| 7140  | 17734.66(5) |         | 17734.71(4) | 845   |           |
| 7141  | 17733.98(5) | 17734.05 |         |       |           |
| 7142  | 17733.47(5) | 17733.61 | 17733.59(5) | 846   |           |
| 7143  | 17732.93(5) | 17733.00 |         |       |           |
|       |             |        | 17730.04  |       |           |
| 7144  | 17729.45(4) | 17729.41 | 17729.46(5) | 847   |           |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment       |
|-------|-------------|-------|-------------|-------|------------------|
| 7145  | 17728.88(5) |       |             |       |                  |
| 7146  | 17728.46(4) | 17728.47 | 17728.45(3) | 848   | T- 3c-2a (3-2) Q3 |
| 7147  | 17727.86(5) | 17727.87 | 17727.90(6) | 849   | S+ 3E-2B (2-8) R2 |
| 7148  | 17726.36(4) | 17726.27 | 17726.34(4) | 850   | T+ 3b-2a (8-2) P5 |
| 7149  | 17725.06(5) | 17725.07 | 17725.07(4) | 851   | T+ 3b-2a (10-3) P4 |
|       |             |       |            | 17723.97 |                  |
| 7150  | 17723.32(3) |       |             | 852   | S- 3E-2B (2-8) Q5 |
| 7151  | 17722.82(3) | 17722.82 | 17722.83(4) | 853   | T+ 3f-2c (1-1) R8 |
| 7152  | 17721.83(4) |       |             | 854   | T+ 3f-2c (0-0) R5 |
| 7153  | 17721.26(3) | 17721.29 | 17721.33(4) | 855   | T+ 3d-2c (3-2) Q4 |
|       |             |       |             | 17721.18(4) |                  |
| 7154  | 17720.79(4) |       |             | 856   |                  |
| 7155  | 17720.32(5) | 17720.45 |           |       |                  |
| 7156  | 17719.63(3) |       |             | 857   |                  |
| 7157  | 17719.33(4) |       |             | 858   |                  |
| 7158  | 17718.43(4) |       |             |       |                  |
| 7159  | 17717.52(5) | 17717.44 |           | 861   | S- 3E-2B (2-8) Q5 |
|       |             |       |             |       |                  |
| 7160  | 17716.73(3) |       |             | 862   |                  |
| 7161  | 17713.92(4) | 17714.34 |           |       |                  |
| 7162  | 17713.63(3) |       |             | 863   |                  |
|       |             |       |             |       |                  |
| 7163  | 17712.77(3) |       |             | 864   |                  |
| 7164  | 17712.56(4) |       |             |       |                  |
| 7165  | 17712.00(3) |       |             | 865   |                  |
| 7166  | 17711.54(3) |       |             | 866   |                  |
| 7167  | 17711.15(3) |       |             | 867   |                  |
| 7168  | 17710.52(3) |       |             |       |                  |
| 7169  | 17710.05(3) |       |             | 868   |                  |
| 7170  | 17709.53(3) |       |             |       |                  |
| 7171  | 17709.08(4) |       |             | 869   |                  |
| 7172  | 17708.54(5) |       |             | 870   |                  |
| 7173  | 17707.79(3) |       |             | 871   |                  |
|       |             |       |             | 17706.94 |                  |
|       |             |       |             |       |                  |
|       |             |       |             |       |                  |
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|       |             |       |             |       |                  |
|       |             |       |             |       |                  |
|       |             |       |             |       |                  |
|       |             |       |             |       |                  |
|       |             |       |             |       |                  |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|------|-----------|------|-----|------|--------------------------|
| 7174 | 17706.36(3) | 17706.34 | 17706.40(3) | 874 | 875 |
| 7175 | 17705.17(4) | 17705.43 | S+ GK-2B (1-4) | P3 |
| 7176 | 17704.67(4) | 17704.62 | 876 |
| 7177 | 17703.76(3) | 17703.78 | 17703.77(2) | 877 |
| 7178 | 17702.60(3) | 17702.52 | 17702.58(3) | 878 |
| 7179 | 17700.95(3) | 17700.95 | 879 |
| 7180 | 17700.40(5) | 17700.86 | 880 |
| 7181 | 17699.88(3) | 17699.93(3) | 881 |
| 7182 | 17699.62(3) | 17699.81(3) | 882 |
| 7183 | 17699.06(3) | 17699.04 | 883 |
| 7184 | 17698.25(3) | 17698.57(3) | 884 |
| 7185 | 17697.52(4) | 17697.55 | 885 |
| 7186 | 17697.06(3) | 17697.03 | 886 |
| 7187 | 17696.70(5) | 17696.62 | 887 |
| 7188 | 17695.83(4) | 17695.59(2) | 888 |
| 7189 | 17695.53(3) | 17695.45 | 889 |
| 7190 | 17695.02(3) | 17694.97 | 890 |
| 7191 | 17694.51(4) | 17694.97 | 891 |
| 7192 | 17694.09(5) | 17694.97 | 892 |
| 7193 | 17692.04(3) | 17691.96 | 893 |
| 7194 | 17691.76(3) | 17691.76 | 894 |
| 7195 | 17691.40(4) | 17691.34 | 895 |
| 7196 | 17690.82(3) | 17690.77 | 896 |
| 7197 | 17689.53(3) | 17689.50 | 897 |
| 7198 | 17689.26(3) | 17689.24 | 898 |
| 7199 | 17687.53(4) | 17687.51 | 899 |
| 7200 | 17687.16(3) | 17687.17 | 900 |
| 7201 | 17686.06(5) | 17686.04 | 901 |
| 7202 | 17685.00(4) | 17684.98 | 902 |
| 7203 | 17684.39(4) | 17684.33(4) | 903 |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment            |
|-------|-------------|-------|-------------|-------|-----------------------|
| 7204  | 17683.82(3) | 17683.85 | 17683.87(5) | 899   |                       |
|       |             | 17683.46 | 17683.43(4) | 900   |                       |
| 7205  | 17683.19(4) | 17683.02 |             |       |                       |
| 7206  | 17682.55(4) | 17682.40(4) | 901   |       |                       |
| 7207  | 17682.11(3) | 17682.12 | 17682.15(4) | 902   | T+ 3f-2c (1-1) R7    |
|       |             |          | 17682.04(4) | 903   |                       |
| 7208  | 17681.30(3) | 17681.31 | 17681.36(3) | 904   | T- 3f-2c (1-1) R8    |
|       |             |          | 17681.19(4) | 905   |                       |
|       |             |          | 17680.79    |       |                       |
| 7209  | 17679.96(4) | 17680.02 | 17679.99(4) | 906   | S- 3E-2B (2-8) Q4    |
|       |             |          | 17679.75(5) | 907   |                       |
| 7210  | 17679.37(5) |          | 17679.48(5) | 908   |                       |
| 7211  | 17678.39(3) | 17678.32 | 17678.38(5) | 909   |                       |
| 7212  | 17677.99(5) | 17678.06 | 17678.05(5) | 910   |                       |
| 7213  | 17677.03(3) | 17677.08 | 17677.04(4) | 911   |                       |
| 7214  | 17676.71(3) | 17676.74 | 17676.71(4) | 912   |                       |
| 7215  | 17675.70(5) | 17675.73 |          |       |                       |
|       |             |          | 17674.84    |       |                       |
| 7216  | 17674.08(3) | 17674.08 | 17674.07(5) | 913   |                       |
| 7217  | 17673.72(4) | 17673.76 | 17673.74(4) | 914   | S+ 3E-2B (2-8) R1    |
| 7218  | 17673.02(4) | 17673.15 |          |       |                       |
|       |             |          | 17672.87    |       |                       |
| 7219  | 17672.48(3) | 17672.49 | 17672.46(3) | 915   | S- 3F-2C (3-0) P5    |
| 7220  | 17671.67(3) | 17671.69 | 17671.66(4) | 916   | T+ 3b-2a (6-1) R5    |
| 7221  | 17670.93(3) | 17670.91 | 17670.94(3) | 917   | T+ 3d-2c (3-2) Q5    |
|       |             |          | 17670.75(4) | 918   |                       |
| 7222  | 17670.53(3) | 17670.52 | 17670.52(4) | 919   | T+ 3f-2c (0-0) R4    |
| 7223  | 17670.34(4) | 17670.39(5) | 920   |       |                       |
|       |             |          | 17669.61    |       |                       |
|       |             |          | 17668.36    |       |                       |
| 7224  | 17667.67(3) | 17667.66 |          |       | T+ 3f-2c (0-0) Q12   |
| 7225  | 17666.87(3) |          | 17666.98(4) | 921   |                       |
|       |             |          | 17666.77    | 922   |                       |
| 7226  | 17665.98(3) | 17665.97 | 17665.97(4) | 923   |                       |
|       |             |          | 17664.50    |       |                       |
| 7227  | 17663.83(5) | 17663.71 |          |       | S+ GK-2B (1-4) P5    |
| 7228  | 17662.91(5) | 17662.74 |          |       |                       |
|       |             |          | 17662.54    |       |                       |
|       |             |          | 17661.88    |       |                       |
| 7229  | 17660.96(4) | 17660.91 |          |       | S 4D-2B (0-11) R1    |
| 7230  | 17660.45(3) | 17660.45 | 17660.45(3) | 924   |                       |
| $K_1$  | $\nu^{(a)}$  | $\nu$    | $\nu^{(c)}$  | $K_2$ | Assignment          |
|-------|--------------|----------|--------------|-------|---------------------|
| 7231  | 17659.91(3)  | 17659.90| 17659.91(3)  | 925   | T- 3c-2a (3-2) Q6  |
|       |              |         | 17659.59(4)  |       |                     |
| 7232  | 17659.37(3)  | 17659.37| 17659.37     | 927   |                     |
| 7233  | 17658.19(4)  | 17658.18|              |       |                     |
| 7234  | 17656.94(3)  | 17656.91| 17656.94(3)  | 928   |                     |
| 7235  | 17655.71(4)  | 17655.94|              |       |                     |
| 7236  | 17655.13(3)  |          | 17655.14(3)  | 929   |                     |
| 7237  | 17654.93(3)  | 17654.95| 17654.93(3)  | 930   | T- 3f-2c (0-0) R4  |
| 7238  | 17654.45(5)  |          |              |       |                     |
| 7239  | 17653.21(5)  | 17653.31|              |       | S+ EF-2B (29-6) R1 |
| 7240  | 17652.51(3)  | 17652.53| 17652.56(4)  | 931   | T+ 3d-2e (3-2) P4  |
|       |              |         | 17652.53     |       |                     |
| 7241  | 17652.07(4)  |          |              |       | S+ EF-2B (29-6) R0 |
| 7242  | 17651.54(4)  | 17651.52| 17651.62(6)  | 933   | T+ 3f-2c (0-0) Q11 |
| 7243  | 17651.25(5)  |          | 17651.38(6)  | 934   |                     |
|       |              |         | 17651.19     |       |                     |
| 7244  | 17650.68(4)  | 17650.62| 17650.70(4)  | 936   | T- 3f-2c (1-1) R7  |
| 7245  | 17650.50(4)  |          | 17650.54(4)  | 937   |                     |
|       |              |         | 17649.92     |       |                     |
| 7246  | 17649.26(3)  | 17649.27| 17649.29(3)  | 938   | T+ 3c-2a (3-2) P3  |
|       |              |         | 17649.01     |       |                     |
| 7247  | 17648.51(4)  | 17648.54| 17648.55(5)  | 939   | S+ EF-2B (29-6) R2 |
|       |              |         | 17647.49     |       |                     |
| 7248  | 17645.69(2)  | 17645.71| 17645.71(3)  | 940   | S- 3E-2B (2-8) Q3  |
|       |              |         | 17644.56(5)  | 941   |                     |
| 7249  | 17643.77(3)  | 17643.70|              |       |                     |
| 7250  | 17643.05(3)  | 17643.06| 17643.11(4)  | 942   |                     |
| 7251  | 17642.34(2)  | 17642.37| 17642.37(4)  | 943   |                     |
| 7252  | 17641.42(4)  | 17641.49|              |       |                     |
| 7253  | 17640.89(3)  | 17640.92| 17640.88(5)  | 944   |                     |
| 7254  | 17640.47(3)  | 17640.52| 17640.52(5)  | 945   |                     |
| 7255  | 17640.10(2)  | 17640.13| 17640.15(4)  | 946   | T+ 3f-2c (1-1) R6  |
|       |              |         | 17640.03(4)  | 947   |                     |
| 7256  | 17639.65(4)  |          |              |       |                     |
| 7257  | 17638.91(2)  | 17638.93| 17638.91(3)  | 948   |                     |
|       |              |         | 17638.74(4)  | 949   |                     |
| 7258  | 17638.44(2)  | 17638.45| 17638.46(3)  | 950   | T+ 3c-2a (2-1) P8  |
|       |              |         | 17638.32(4)  | 951   |                     |
| 7259  | 17638.02(4)  |          |              |       |                     |
|       |              |         | 17637.61     |       |                     |
| $K_1$   | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                      |
|---------|-------------|-------|-------------|-------|---------------------------------|
| 7260    | 17636.87(2) | 17636.89 | 17636.84(4) | 952   |                                 |
| 7261    | 17635.75(3) | 17635.94 | 17635.79(5) | 953   | S+ EF-2B (29-6) R3             |
|         |             |        | 17635.60(6) |       |                                 |
| 7262    | 17635.22(4) | 17635.17 |             | 954   |                                 |
| 7263    | 17634.18(3) | 17634.15 | 17634.12(4) | 955   |                                 |
| 7264    | 17633.97(3) |       |             |       |                                 |
| 7265    | 17633.39(2) | 17633.46 | 17633.38(4) | 956   |                                 |
| 7266    | 17633.10(3) | 17633.29 | 17633.02(6) | 957   |                                 |
| 7267    | 17632.62(2) | 17632.58 | 17632.61(3) | 958   | T+ 3f-2c (0-0) Q10             |
| 7268    | 17632.42(3) |       | 17632.43(4) | 959   |                                 |
| 7269    | 17631.98(3) | 17632.00 | 17631.95(5) | 960   |                                 |
| 7270    | 17631.57(3) | 17631.57 |             | 961   |                                 |
|         |             |        | 17631.26(5) |       |                                 |
| 7271    | 17631.04(2) | 17630.89 | 17630.96(4) | 962   | T+ 3b-2a (10-3) P5             |
| 7272    | 17630.63(2) | 17630.63 | 17630.62(3) | 963   |                                 |
| 7273    | 17630.28(3) | 17630.34 | 17630.29(4) | 964   |                                 |
| 7274    | 17629.46(3) | 17629.32 | 17629.39(6) | 965   |                                 |
| 7275    | 17628.94(5) |       |             |       |                                 |
| 7276    | 17628.35(2) | 17628.34 | 17628.36(3) | 966   | T- 3c-2a (3-2) Q7              |
| 7277    | 17627.75(2) | 17627.75 | 17627.75(4) | 967   | S+ EF-2B (29-6) P1             |
| 7278    | 17627.32(2) | 17627.38(5) | 968       |       |                                 |
| 7279    | 17626.92(2) | 17626.93 | 17626.92(3) | 969   |                                 |
| 7280    | 17625.00(2) | 17625.06 | 17625.04(3) | 970   | T+ 3f-2c (2-2) R12             |
| 7281    | 17623.79(3) | 17623.80 | 17623.80(9) | 971   | S+ EF-2B (29-6) R4             |
|         |             |       | 17623.69(8) | 972   |                                 |
| 7282    | 17623.13(2) | 17623.14 | 17623.19(5) | 973   |                                 |
|         |             |       | 17623.08(6) | 974   |                                 |
| 7283    | 17622.49(4) | 17622.56 |             |       |                                 |
|         |             |       | 17622.26   |       |                                 |
| 7284    | 17621.87(2) | 17621.86 | 17621.92(3) | 975   | T+ 3f-2c (0-0) R3              |
| 7285    | 17621.59(5) |       | 17621.79(3) | 976   |                                 |
|         |             |       | 17621.10   |       |                                 |
|         |             |       | 17620.98   |       |                                 |
| 7286    | 17620.19(3) | 17620.19 | 17620.21(4) | 977   | S- 3E-2B (2-8) Q2              |
| 7287    | 17619.51(2) | 17619.48 | 17619.48(4) | 978   | T+ 3b-2a (6-1) R6              |
| 7288    | 17618.55(3) | 17618.55 |             |       |                                 |
| 7289    | 17617.76(2) | 17617.76 | 17617.82(3) | 979   | T- 3f-2c (1-1) R6              |
|         |             |       | 17617.64(3) | 980   |                                 |
| 7290    | 17617.42(3) |       | 17617.43(4) | 981   |                                 |
| 7291    | 17616.55(2) | 17616.58 | 17616.63(4) | 982   |                                 |
| $K_1$  | $\nu^{(a)}$     | $\nu$    | $\nu^{(c)}$     | $K_2$ | Assignment             |
|--------|----------------|---------|----------------|-------|------------------------|
| 7292   | 17615.70(2)    | 17615.70| 17616.46(4)    | 983   |                        |
|        |                |         | 17615.76(3)    | 984   |                        |
|        |                |         | 17615.57(3)    | 985   |                        |
| 7293   | 17615.10(3)    | 17615.11| 17615.13(4)    | 986   |                        |
|        |                |         | 17614.58       |       |                        |
| 7294   | 17614.10(2)    | 17614.07| 17614.15(3)    | 987   | T- 3f-2c (0-0) R3     |
| 7295   | 17613.78(3)    | 17613.97(3)| 17613.28     | 988   |                        |
| 7296   | 17612.648(18)  | 17612.65| 17612.71(4)    | 989   |                        |
|        |                |         | 17612.55(5)    | 990   |                        |
| 7297   | 17611.364(16)  | 17611.42| 17611.44(5)    | 991   | T+ 3f-2c (2-2) R11    |
|        |                |         | 17611.42       |       | T+ 3f-2c (0-0) Q9     |
| 7298   | 17610.914(18)  | 17610.93| 17610.92(4)    | 993   |                        |
| 7299   | 17610.33(3)    | 17610.38| 17610.35(5)    | 994   |                        |
| 7300   | 17609.80(2)    | 17609.83| 17609.84(5)    | 995   | S+ GK-2B (3-6) R5     |
| 7301   | 17609.16(3)    |         |                |       |                        |
| 7302   | 17608.391(18)  | 17608.40| 17608.40(4)    | 996   |                        |
| 7303   | 17607.91(4)    |         |                |       |                        |
| 7304   | 17607.15(5)    | 17607.16|                  |       |                        |
| 7305   | 17606.50(3)    | 17606.55| 17606.52(6)    | 997   |                        |
| 7306   | 17606.047(16)  | 17606.07| 17606.08(5)    | 998   |                        |
|        |                |         | 17605.99(6)    | 999   |                        |
| 7307   | 17605.50(3)    | 17605.56| 17605.53(4)    | 1000  |                        |
| 7308   | 17605.104(15)  | 17605.11| 17605.09(3)    | 1001  | T+ 3c-2a (3-2) P4     |
| 7309   | 17604.515(16)  | 17604.51| 17604.48(3)    | 1002  |                        |
|        |                |         | 17604.30(4)    | 1003  |                        |
| 7310   | 17603.98(3)    | 17603.79| 17604.12(4)    | 1004  |                        |
| 7311   | 17603.318(18)  | 17603.39| 17603.32(4)    | 1005  | S- 3E-2B (2-8) Q1     |
|        |                |         | 17603.30       |       |                        |
| 7312   | 17602.97(2)    | 17603.04|                  |       |                        |
| 7313   | 17600.71(2)    | 17600.85| 17600.79(5)    | 1006  |                        |
|        |                |         | 17600.58       |       |                        |
| 7314   | 17599.43(3)    | 17599.26|                  |       |                        |
| 7315   | 17598.72(3)    | 17598.69| 17598.65(4)    | 1007  | T+ 3b-2a (6-1) P3     |
| 7316   | 17598.19(2)    | 17598.17| 17598.17(6)    | 1008  |                        |
| 7317   | 17597.727(15)  | 17597.72| 17597.75(4)    | 1009  | T+ 3f-2c (1-1) R5     |
|        |                |         | 17597.64(4)    | 1010  |                        |
| 7318   | 17597.20(3)    |         |                |       |                        |
| 7319   | 17596.513(19)  | 17596.53| 17596.47(4)    | 1011  | S+ 3E-2B (2-8) P3     |
|        |                |         | 17595.76       |       |                        |
| \( K_1 \) | \( \nu^{(a)} \) | \( \nu^{(c)} \) | \( K_2 \) | Assignment |
|---|---|---|---|---|
| 7320 | 17595.42(3) | 17595.42 | 1012 | T+ 3f-2c (2-2) R10 |
| 7321 | 17594.80(16) | 17594.82(4) | 1013 | 17594.65(5) |
| 7322 | 17592.66(15) | 17592.63(3) | 1014 | T- 3c-2a (3-2) Q8 |
| 7323 | 17591.43(3) | 17591.55 | 1015 | 17590.33(3) |
| 7324 | 17590.73(16) | 17590.70(3) | 1016 | 17590.33(3) |
| 7325 | 17590.19(5) | 17589.99 | 1017 | 17589.95(4) |
| 7326 | 17589.94(3) | 17589.97 | 1018 | 17589.95(4) |
| 7327 | 17588.615(15) | 17588.60(3) | 1019 | 17588.42(4) |
| 7328 | 17587.57(4) | 17587.61 | 1020 | 17587.97 |
| 7329 | 17586.83(17) | 17586.82(4) | 1021 | 17586.41 |
| 7330 | 17585.95(2) | 17585.86 | 1022 | 17585.97(5) |
| 7331 | 17584.628(18) | 17584.60 | 1023 | 17585.82(4) |
| 7332 | 17583.195(16) | 17583.23(3) | 1024 | 17584.86(5) |
| 7333 | 17581.317(18) | 17581.39 | 1025 | 17583.80 |
| 7334 | 17580.52(3) | 17580.48(5) | 1026 | 17580.68 |
| 7335 | 17578.81(2) | 17578.82 | 1027 | 17578.54 |
| | | | | | 17578.16 |
| | | | | | 17581.87 |
| | | | | | S+ 3E-2B (2-8) P2 |
| | | | | | 17581.33 |
| | | | | | 17581.32(3) |
| | | | | | 17581.09(5) |
| | | | | | 17580.68 |
| | | | | | 17580.69(4) |
| | | | | | 17580.52(3) |
| | | | | | 17579.59 |
| | | | | | 17579.30 |
| | | | | | 17578.81(2) |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|------|-------------|------|-------------|------|------------|
| 7336 | 17576.83(5) | 17576.95 | 17576.50(4) | 1034 | T+ 3f-2c (0-0) R2 |
| 7337 | 17576.37(3) | 17576.35 | 17576.36(3) | 1035 | T+ 3f-2c (0-0) R2 |
| 7338 | 17575.97(4) | 17576.19(4) | 1036 | T+ 3f-2c (2-2) R9 |
| 7339 | 17575.18(3) | 17575.15 | 17575.17(4) | 1037 | T+ 3f-2c (2-2) R9 |
| 7340 | 17574.87(3) | 17574.99(6) | 1038 | T+ 3c-2a (2-1) P9 |
| 7341 | 17574.42(3) | 17574.42 | 17574.42(4) | 1039 | T+ 3c-2a (2-1) P9 |
| 7342 | 17573.78(5) | 17573.91 | | | |
| 7343 | 17573.45(3) | | | | |
| 7344 | 17573.32(3) | 17573.36 | 17573.42(3) | 1040 | T- 3f-2c (0-0) R2 |
| 7345 | 17572.71(3) | 17572.74(5) | 17572.73(3) | 1041 | T- 3f-2c (0-0) R2 |
| 7346 | 17572.38(3) | 17572.58 | 17572.55(6) | 1043 | T- 3f-2c (0-0) R2 |
| | | | 17572.33(6) | 1044 | |
| 7347 | 17569.52(3) | 17569.78 | 17569.56(6) | 1045 | |
| 7348 | 17569.13(3) | 17569.14 | 17569.44(5) | 1046 | |
| | | | 17569.11(4) | 1047 | T+ 3c-2a (4-3) R2 |
| 7349 | 17568.55(4) | 17568.91 | 17568.53 | 1048 | S+ GK-2B (3-6) R4 |
| 7350 | 17568.19(3) | 17568.53 | 17568.50(5) | 1048 | |
| | | | 17568.70 | 1048 | |
| | | | 17571.20 | 1048 | |
| | | | 17569.42 | 1048 | |
| | | | 17569.78 | 1048 | |
| 7351 | 17565.07(3) | 17565.12 | 17565.06(4) | 1049 | T+ 3f-2c (0-0) Q7 |
| 7352 | 17564.87(3) | 17564.92 | 17564.82(4) | 1050 | T+ 3f-2c (0-0) Q7 |
| 7353 | 17564.24(3) | 17564.20 | 17564.26(6) | 1051 | T- 3f-2c (0-0) Q13 |
| 7354 | 17563.83(4) | 17563.86 | 17563.85 | 1052 | T- 3f-2c (0-0) Q13 |
| 7355 | 17563.33(3) | 17563.35 | 17563.42(6) | 1053 | T- 3f-2c (0-0) Q14 |
| 7356 | 17562.86(3) | 17562.84 | 17562.86(5) | 1054 | T- 3f-2c (0-0) Q14 |
| 7357 | 17561.97(3) | 17561.98 | 17561.92(5) | 1057 | T- 3f-2c (0-0) Q14 |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment               |
|-------|-------------|------|-------------|-------|--------------------------|
| 7358  | 17559.98(3) | 17559.97 | 17559.98(5) | 1058  | T- 3f-2c (0-0) Q15       |
|       |             |       | 17559.81(5) |       | 1059                     |
| 7359  | 17559.36(2) | 17559.36 | 17559.41(6) | 1060  | T- 3f-2c (0-0) Q11       |
|       |             |       | 17559.30(5) |       | 1061                     |
| 7360  | 17558.78(3) | 17558.77 | 17558.74(5) | 1062  |                         |
| 7361  | 17558.19(4) | 17558.19 |             |       | S+ GK-2B (4-7) R2       |
|       |             |       | 17557.57    |       |                         |
| 7362  | 17556.83(3) | 17556.84 | 17556.84(4) | 1063  | T+ 3c-2a (3-2) P5       |
|       |             |       | 17556.63(5) |       | 1064                     |
| 7363  | 17556.49(3) |       | 17556.43(6) | 1065  |                         |
| 7364  | 17555.82(3) | 17555.82 | 17555.86(5) | 1066  | T+ 3f-2c (1-1) R4       |
|       |             |       | 17555.75(5) |       | 1067                     |
| 7365  | 17555.40(3) |       |             |       |                         |
|       |             |       | 17554.92    |       |                         |
| 7366  | 17554.13(4) |       | 17554.01(5) | 1068  |                         |
| 7367  | 17553.85(3) | 17553.85 | 17553.80(5) | 1069  | T- 3f-2c (0-0) Q10      |
|       |             |       | 17553.67(5) |       | 1070                     |
| 7368  | 17553.49(4) | 17553.31 | 17553.33(7) | 1071  |                         |
| 7369  | 17552.90(3) | 17552.85 | 17552.88(5) | 1072  | T- 3c-2a (3-2) Q9       |
| 7370  | 17552.42(3) | 17552.43 | 17552.46(4) | 1073  |                         |
| 7371  | 17552.23(3) | 17552.22 | 17552.22(4) | 1074  | T+ 3c-2a (4-3) R1       |
|       |             |       | 17551.95    |       |                         |
| 7372  | 17551.63(4) | 17551.59 |             |       | S- 3F-2B (0-5) Q2       |
| 7373  | 17551.03(3) | 17551.06 | 17551.03(5) | 1075  |                         |
|       |             |       | 17550.19    |       |                         |
| 7374  | 17549.74(4) |       | 17549.79(5) | 1076  |                         |
|       |             |       | 17549.64    |       | 1077                     |
| 7375  | 17549.45(3) | 17549.45 | 17549.41(5) | 1078  | T+ 3d-2c (4-3) R1       |
| 7376  | 17548.87(4) | 17548.98 |             |       |                         |
|       |             |       | 17548.48    |       |                         |
| 7377  | 17548.13(3) | 17548.17 |             |       |                         |
| 7378  | 17547.44(3) | 17547.43 | 17547.50(4) | 1079  | T- 3f-2c (1-1) R4       |
| 7379  | 17547.16(3) |       | 17547.32(4) | 1080  |                         |
|       |             |       | 17546.64(6) |       | 1081                     |
| 7380  | 17546.52(2) | 17546.55 | 17546.52(5) | 1082  | T- 3f-2c (0-0) Q9       |
|       |             |       | 17546.18    |       | 1083                     |
| 7381  | 17545.97(3) |       | 17546.04(6) | 1084  |                         |
| $K_1$ | $\nu^{(a)}$ | $\nu$   | $\nu^{(c)}$ | $K_2$ | Assignment          |
|-------|-------------|---------|-------------|-------|---------------------|
| 7382  | 17545.40(3) | 17545.40| 17545.74(6) | 1085  |                     |
|       |             | 17545.10 | 17545.06(5) | 1087  | T+ 3d-2c (4-3) R2  |
|       |             |         | 17544.74(5) | 1088  |                     |
| 7383  | 17544.67(3) | 17544.69| 17544.65(6) | 1089  | T+ 3f-2c (2-2) R7  |
| 7384  | 17544.20(5) |         |             |       |                     |
| 7385  | 17543.54(3) |         |             |       |                     |
| 7386  | 17542.86(3) | 17542.88| 17542.90(6) | 1090  |                     |
|       |             |         | 17542.73    |       |                     |
| 7387  | 17542.43(4) |         |             |       |                     |
| 7388  | 17541.74(3) | 17541.74| 17541.82(4) | 1091  | T+ 3f-2c (0-0) Q6  |
| 7389  | 17541.55(3) |         | 17541.63(4) | 1092  |                     |
| 7390  | 17541.05(3) | 17541.11| 17541.10(5) | 1093  | S+ GK-2B (3-6) R3  |
|       |             |         | 17540.96    |       |                     |
| 7391  | 17539.63(3) | 17539.68| 17539.70(4) | 1094  |                     |
|       |             |         | 17539.56    | 1095  |                     |
| 7392  | 17538.81(3) | 17538.83| 17538.84(3) | 1096  |                     |
| 7393  | 17538.14(5) | 17538.17| 17538.13(5) | 1097  | S+ GK-2B (4-7) R1  |
| 7394  | 17537.63(4) | 17537.64| 17537.68(4) | 1098  | T- 3f-2c (0-0) Q8  |
|       |             |         | 17537.57(4) | 1099  |                     |
| 7395  | 17536.93(4) | 17536.91| 17536.95(4) | 1100  |                     |
|       |             |         | 17536.09    |       |                     |
| 7396  | 17535.72(4) | 17535.71| 17535.72(3) | 1101  |                     |
|       |             |         | 17535.52    |       |                     |
| 7397  | 17534.99(5) |         |             |       |                     |
| 7398  | 17534.56(4) | 17534.57| 17534.55(2) | 1102  | T+ 3f-2c (0-0) R1  |
| 7399  | 17534.11(4) | 17534.27| 17534.18(3) | 1103  |                     |
| 7400  | 17533.85(4) | 17533.89| 17533.91(2) | 1104  | T- 3f-2c (0-0) R1  |
|       |             |         | 17533.89    | 1105  | S+ EF-2B (29-6) P4 |
|       |             |         | 17533.74    |       |                     |
| 7401  | 17533.41(5) | 17533.22|             |       |                     |
| 7402  | 17532.68(4) | 17532.72| 17532.66(3) | 1106  | T+ 3d-2c (4-3) R3  |
|       |             |         | 17532.55    |       |                     |
|       |             |         | 17531.57    |       |                     |
|       |             |         | 17531.35    |       |                     |
| 7403  | 17530.70(4) | 17530.70| 17530.95(3) | 1107  |                     |
| 7404  | 17530.21(4) | 17530.49| 17530.68(2) | 1108  | T+ 3c-2a (4-3) R0  |
| 7405  | 17529.46(4) | 17529.33| 17529.38(5) | 1110  |                     |
| 7406  | 17528.92(4) | 17528.85| 17528.89(4) | 1111  |                     |
Table II (Continued).

| $K_1$  | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment               |
|--------|-------------|-------|-------------|-------|--------------------------|
| 7407   | 17528.41(4) | 17528.34 | 17528.37(3) | 1112  |                          |
| 7408   | 17527.89(5) | 17527.88(3) |           | 1113  |                          |
| 7409   | 17527.42(4) | 17527.42 | 17527.41(2) | 1114  | T- 3f-2c (0-0) Q7       |
|        |             |         | 17527.14(5) |       |                          |
| 7410   | 17526.99(4) | 17526.94 | 17526.89(3) | 1116  | T- 3f-2c (2-2) R7       |
| 7411   | 17526.71(7) | 17526.94 |           |       | S+ GK-2B (3-6) R2       |
|        |             |         | 17526.54   |       |                          |
| 7412   | 17525.99(5) | 17525.90 |           |       |                          |
| 7413   | 17525.26(5) | 17525.24 |           |       |                          |
| 7414   | 17524.81(7) | 17524.91 |           |       |                          |
|        |             |         | 17524.74   |       |                          |
| 7415   | 17524.06(4) | 17524.03 | 17524.02(4) | 1117  |                          |
|        |             |         | 17523.10   |       |                          |
|        |             |         | 17522.19   |       | S+ GK-2B (4-7) R0       |
|        |             |         | 17521.54   |       |                          |
| 7416   | 17520.87(5) | 17520.86 | 17520.90(6) | 1118  |                          |
|        |             |         | 17520.33   |       |                          |
| 7417   | 17519.91(4) | 17519.91 | 17519.93(3) | 1119  | T+ 3f-2c (0-0) Q5       |
|        |             |         | 17519.77(4) |       |                          |
| 7418   | 17519.21(4) | 17519.26 | 17519.17(4) | 1121  |                          |
| 7419   | 17518.82(6) | 17519.15 |           |       |                          |
|        |             |         | 17517.96   |       |                          |
|        |             |         | 17517.69   |       |                          |
|        |             |         | 17517.67(6) |      |                          |
|        |             |         | 17517.11   |       |                          |
| 7420   | 17516.73(5) | 17516.72 | 17516.66(3) | 1124  |                          |
| 7421   | 17516.32(4) | 17516.28 | 17516.29(2) | 1125  | T- 3f-2c (0-0) Q6       |
|        |             |         | 17516.28   |       | S+ GK-2B (3-6) R1       |
| 7422   | 17515.78(6) | 17515.69 |           |       |                          |
| 7423   | 17515.15(4) | 17515.12 | 17515.14(2) | 1126  | T+ 3f-2c (1-1) R3       |
| 7424   | 17514.63(4) | 17514.47 | 17514.74(4) | 1127  |                          |
| 7425   | 17513.70(6) | 17513.65(6) |           | 1128  |                          |
| 7426   | 17512.37(4) | 17512.37 | 17512.42(3) | 1129  |                          |
|        |             |         | 17512.26(4) |       |                          |
|        |             |         | 17511.83   |       |                          |
|        |             |         | 17511.52(4) |       |                          |
| 7427   | 17511.40(4) | 17511.34 | 17511.36(3) | 1132  | T+ 3f-2c (2-2) R6       |
| 7428   | 17511.08(4) | 17511.15 | 17511.15(3) | 1133  | T- 3f-2c (1-1) R3       |
|        |             |         | 17510.96(3) |       |                          |
|        |             |         | 17510.74(5) |       |                          |
| 7429   | 17510.50(4) | 17510.40 | 17510.48(5) | 1136  |                          |
| $K_1$   | $\nu^{(a)}$ | $\nu$   | $\nu^{(c)}$ | $K_2$ | Assignment                |
|---------|-------------|---------|-------------|-------|--------------------------|
| 7430    | 17509.25(3) | 17509.24| 17509.22(3) | 1137  | T- 3c-2a (3-2) Q10      |
|         | 17508.67    |         |             |       | S+ GK-2B (5-8) R4       |
| 7431    | 17507.73(3) | 17507.75| 17507.74(3) | 1138  |                          |
| 7432    | 17507.14(2) | 17507.13| 17507.10(3) | 1139  | T+ 3c-2a (2-1) P10      |
|         | 17506.50    |         |             |       |                          |
| 7433    | 17505.33(2) | 17505.24| 17505.23(5) | 1142  |                          |
| 7434    | 17504.633(18)| 17504.64| 17504.69(3) | 1143  | T- 3f-2c (0-0) Q5       |
|         |             |         | 17504.58(3) | 1144  |                          |
| 7435    | 17504.25(3) | 17504.36| 17504.34(3) | 1145  | T+ 3c-2a (3-2) P6       |
| 7436    | 17503.79(3) | 17503.98| 17503.93(3) | 1146  |                          |
| 7437    | 17503.35(4) | 17503.39(4)| 17503.39(4)| 1147  |                          |
|         |             |         | 17502.79    | 1148  |                          |
| 7438    | 17502.222(18)| 17502.21| 17502.27(4) | 1150  |                          |
|         |             |         | 17502.14(5) | 1151  |                          |
| 7439    | 17500.712(17)| 17500.73| 17500.76(4) | 1152  | T+ 3f-2c (0-0) Q4       |
|         |             |         | 17500.68(5) | 1153  |                          |
| 7440    | 17500.26(2) | 17500.24| 17500.22(3) | 1155  | T- 3c-2a (4-3) Q1       |
| 7441    | 17499.151(18)| 17499.19| 17499.18(3) | 1156  | T- 3f-2c (2-2) R6       |
|         |             |         | 17499.02(3) | 1157  | S- 3E-2B (3-10) Q5      |
| 7442    | 17498.53(3) | 17498.56(6)| 17498.56(6)| 1158  |                          |
|         |             |         | 17498.28(4) | 1159  |                          |
| 7443    | 17496.67(2) | 17496.02| 17496.68(4) | 1160  |                          |
|         |             |         | 17496.49(4) | 1161  |                          |
| 7444    | 17496.08(2) | 17496.06(4)| 17496.06(4)| 1162  |                          |
|         |             |         | 17495.82(6) | 1163  |                          |
| 7445    | 17495.072(19)| 17495.09| 17495.10(4) | 1164  |                          |
|         |             |         | 17494.86(5) | 1165  |                          |
| 7446    | 17494.53(2) | 17494.43| 17494.48(3) | 1166  |                          |
| 7447    | 17494.32(2) | 17494.35(4)| 17494.35(4)| 1167  |                          |
|         |             |         | 17494.21(4) | 1168  |                          |
| 7448    | 17493.77(3) | 17493.62| 17493.91(4) | 1169  |                          |
| 7449    | 17493.019(17)| 17493.02| 17493.04(3) | 1170  | T- 3f-2c (0-0) Q4       |
|         |             |         | 17492.92(3) | 1171  |                          |
|         |             |         | 17491.87    |       |                          |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|------|------------|
| 7450  | 17491.174(17) | 17491.17 | 17491.14(3) | 1172 | T- 3c-2a (4-3) Q2 |
|       | 17490.55     |        |             |      | S+ GK-2B (4-7) P1 |
| 7451  | 17489.75(3)   | 17489.88 |             |      |             |
| 7452  | 17489.20(2)   | 17489.15 | 17489.16(4) | 1173 |             |
| 7453  | 17488.07(3)   |        |             |      |             |
| 7454  | 17487.19(3)   | 17487.24(4) | 1174 |        |
|       |              | 17487.07(4) | 1175 |        |
| 7455  | 17486.56(4)   |        |             |      |             |
| 7456  | 17485.762(19) | 17485.76 | 17485.72(4) | 1177 |             |
| 7457  | 17485.121(18) | 17485.09 | 17485.12(3) | 1178 | T+ 3f-2c (0-0) Q3 |
| 7458  | 17484.90(3)   |        | 17484.94(3) | 1179 |             |
| 7459  | 17484.331(18) | 17484.33 | 17484.29(3) | 1180 | T+ 3e-2c (0-0) R8 |
| 7460  | 17483.57(2)   | 17483.54 | 17483.55(3) | 1181 | T+ 3f-2c (1-1) Q10 |
| 7461  | 17483.38(3)   |        | 17483.36(4) | 1182 |             |
| 7462  | 17482.89(2)   | 17482.89 |        |      |             |
| 7463  | 17482.184(17) | 17482.19 | 17482.21(4) | 1183 | T- 3f-2c (0-0) Q3 |
|       |              | 17482.12(4) | 1184 |        |
|       |              | 17482.00(4) | 1185 |        |
| 7464  | 17481.74(4)   |        | 17481.30 |      |             |
| 7465  | 17480.82(2)   |        | 17480.80(4) | 1186 |             |
|       |              | 17480.67(4) | 1187 |        |
| 7466  | 17479.63(3)   |        |             |      |             |
| 7467  | 17479.00(3)   |        |             |      |             |
|       |              |        | 17478.18 |      |             |
| 7468  | 17477.680(19) | 17477.68 | 17477.63(3) | 1188 | T- 3c-2a (4-3) Q3 |
| 7469  | 17477.253(18) | 17477.25 | 17477.25(3) | 1189 | S+ 3F-2C (2-2) R5 |
|       |              |        | 17477.15(4) | 1190 |             |
| 7470  | 17476.33(2)   | 17476.33 | 17476.32(3) | 1191 | T+ 3f-2c (1-1) R2 |
| 7471  | 17475.97(4)   |        | 17476.16(3) | 1192 |             |
| 7472  | 17475.48(4)   |        | 17475.47 |      |             |
| 7473  | 17474.85(2)   | 17474.84 | 17474.85(3) | 1193 | T- 3f-2c (1-1) R2 |
| 7474  | 17474.64(3)   | 17474.72 | 17474.67(3) | 1194 |             |
| 7475  | 17474.08(3)   | 17474.18 | 17474.05(3) | 1195 | S+ WZ-2B (0-10) R2 |
|       |              |        | 17474.05 |      |             |
| 7476  | 17473.54(2)   | 17473.55 | 17473.56(3) | 1196 | T+ 3f-2c (0-0) Q2 |
| 7477  | 17473.34(3)   | 17473.37 | 17473.37(3) | 1197 | S+ EF-2B (21-2) R1 |
| 7478  | 17472.88(2)   | 17472.90 | 17472.90(3) | 1198 | T- 3f-2c (0-0) Q2 |
|       |              |        | 17472.76(4) | 1199 |             |
|       |              |        | 17472.57(5) | 1200 |             |
| 7479  | 17472.34(2)   |        | 17472.34(4) | 1201 |             |
| $K_1$ | $\nu^{(a)}$ | $\nu$   | $\nu^{(c)}$ | $K_2$ | Assignment     |
|-------|-------------|---------|-------------|-------|----------------|
| 7480  | 17470.75(4) | 17470.96| 17472.18(6) | 1202  |                |
| 7481  | 17470.32(3) | 17470.02(4) | 17470.20(4) | 1205  | S+ EF-2B (21-2) R0 |
| 7482  | 17469.94(2) | 17469.62(3) | 17469.46(4) | 1209  |                |
| 7483  | 17469.58(2) | 17469.60  | 17469.18(5) | 1210  |                |
| 7484  | 17469.23(4) | 17468.77  | 17468.81(4) | 1211  | S+ EF-2B (21-2) R2 |
| 7485  | 17468.78(2) | 17468.32(3) | 17467.75(3) | 1212  |                |
| 7486  | 17467.75(3) | 17467.77  | 17467.18(5) | 1213  |                |
| 7487  | 17466.96(3) | 17466.89  | 17466.68(3) | 1214  | T+ 3e-2c (0-0) R7 |
| 7488  | 17462.87(2) | 17462.89  | 17462.89(3) | 1215  |                |
| 7489  | 17462.44(2) | 17462.48  | 17462.49(4) | 1216  |                |
| 7490  | 17461.80(2) | 17461.77  | 17461.77(4) | 1217  |                |
| 7491  | 17460.41(3) | 17460.37  | 17460.37(4) | 1218  | T- 3c-2a (4-3) Q4 |
| 7492  | 17459.68(2) | 17459.68  | 17459.64(3) | 1219  | S+ GK-2B (4-7) P3 |
| 7493  | 17458.97(4) | 17458.85  | 17458.83(3) | 1220  |                |
| 7494  | 17458.75(4) | 17458.41  | 17458.37(3) | 1221  | S+ GK-2B (0-4) R1 |
| 7495  | 17458.41(3) | 17458.41  | 17457.29(6) | 1222  |                |
| 7496  | 17457.01(3) | 17456.96  | 17456.96(5) | 1223  |                |
| 7497  | 17456.32(3) | 17456.24  | 17456.24(3) | 1224  |                |
| 7498  | 17455.90(3) | 17455.96  | 17455.97(4) | 1225  | S+ EF-2B (21-2) R3 |
| 7499  | 17455.49(4) | 17455.71  | 17455.70(5) | 1226  |                |
| 7500  | 17454.99(2) | 17454.00  | 17454.99(3) | 1227  |                |
| 7501  | 17454.45(6) | 17454.45  | 17454.81(3) | 1228  | S+ GK-2B (0-4) R2 |
| 7502  | 17454.14(9) | 17454.25  | 17454.19(5) | 1229  |                |
| 7503  | 17453.76(4) | 17453.76  | 17454.60(4) | 1230  |                |
| 7504  | 17452.89(3) | 17452.17  | 17452.20(4) | 1231  | S+ GK-2B (0-4) R0 |
| 7505  | 17452.29(3) | 17452.12  | 17451.89(4) | 1232  |                |
| 7506  | 17451.91(3) | 17451.91  | 17451.65(6) | 1233  | S- 3F-2B (2-9) Q4 |
| 7507  | 17451.24(3) | 17451.26  | 17451.25(3) | 1234  |                |
| 7508  | 17450.51(3) | 17450.47  | 17450.43(5) | 1235  | S+ GK-2B (5-8) R3 |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu^{(c)}$ | $K_2$ | Assignment               |
|-------|-------------|-------------|-------|--------------------------|
| 7509  | 17450.20(3) | 17450.21(5) | 1237  |                         |
| 7510  | 17449.61(3) | 17449.57    |       |                         |
|       |             | 17448.50    |       |                         |
| 7511  | 17447.95(2) | 17447.95    | 1238  |                         |
|       |             | 17447.98(4) |       |                         |
|       |             | 17447.75    | 1239  |                         |
|       |             | 17447.82(5) |       |                         |
| 7512  | 17447.57(3) | 17447.53    | 1240  | S+ 3E-2B (3-10) R1     |
|       |             | 17447.53    |       | S+ GK-2B (4-7) P4      |
|       |             | 17447.47    |       |                         |
| 7513  | 17447.15(4) |             | 1241  |                         |
| 7514  | 17446.65(2) | 17446.62    | 1242  |                         |
| 7515  | 17445.24(5) | 17445.26    |       |                         |
| 7516  | 17443.83(4) | 17443.79    | 1243  | S+ GK-2B (0-4) R3      |
| 7517  | 17442.88(2) | 17442.84    | 1244  |                         |
| 7518  | 17441.86(3) | 17441.91    | 1245  | T+ 3f-2c (2-2) R4      |
| 7519  | 17440.99(6) | 17441.29    | 1246  |                         |
|       |             | 17440.86    |       | S+ EF-2B (21-2) P1     |
| 7520  | 17440.23(3) | 17440.19    | 1247  | T+ 3c-2a (4-3) P2      |
|       |             | 17440.19    |       | S+ GK-2B (6-9) R4      |
| 7521  | 17439.65(2) | 17439.67    | 1248  | T+ 3f-2c (1-1) Q7      |
|       |             | 17439.67    |       | T+ 3f-2c (1-1) R1      |
| 7522  | 17439.30(2) | 17439.33    | 1249  | T- 3f-2c (1-1) R1      |
|       |             | 17439.38(3) |       |                         |
| 7523  | 17438.71(4) | 17438.68    | 1250  |                         |
| 7524  | 17438.56(3) | 17438.58    | 1251  |                         |
| 7525  | 17437.98(3) | 17438.07(4) | 1252  | T- 3f-2c (2-2) R4      |
|       |             | 17437.69(5) | 1253  |                         |
| 7526  | 17437.38(2) | 17437.36    | 1254  |                         |
|       |             | 17437.38(3) | 1255  | T- 3c-2a (4-3) Q5      |
| 7527  | 17436.60(3) | 17436.68    | 1256  |                         |
|       |             | 17436.63(4) |       |                         |
| 7528  | 17436.09(2) | 17436.07    | 1257  |                         |
| 7529  | 17435.70(2) | 17435.72    | 1258  | T+ 3e-2c (0-0) R6      |
|       |             | 17435.77(4) | 1259  | S+ EF-2B (21-2) R4     |
|       |             | 17435.64(6) | 1260  |                         |
|       |             | 17435.32(5) | 1261  |                         |
| 7530  | 17434.79(5) | 17434.80    |       |                         |
| 7531  | 17434.07(4) | 17434.16    | 1262  |                         |
| 7532  | 17433.45(3) | 17433.50    | 1263  | T- 3f-2c (1-1) Q11     |
|       |             | 17433.55(4) |       |                         |
|       |             | 17433.44(3) | 1264  |                         |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu^{(c)}$ | $K_2$ | Assignment                |
|-------|-------------|-------------|-------|---------------------------|
| 7533  | 17432.80(3) | 17432.80(3)| 1265  | T- 3f-2c (1-1) Q12        |
| 7534  | 17431.95(3) | 17432.01(3)| 1266  |                           |
| 7535  | 17431.68(4) | 17431.69(3)| 1269  | T- 3f-2c (1-1) Q10        |
| 7536  | 17431.22(5) | 17431.30(4)| 1270  |                           |
| 7537  | 17430.69(4) | 17430.70(3)| 1271  | S+ GK-2B (5-8) R2         |
| 7538  | 17430.08(4) | 17430.11(3)| 1272  |                           |
| 7539  | 17429.75(3) | 17429.73(3)| 1274  |                           |
| 7540  | 17429.12(4) | 17429.10(3)| 1276  |                           |
| 7541  | 17428.56(3) | 17428.53(3)| 1279  | T- 3f-2c (1-1) Q9         |
| 7542  | 17427.83(6) | 17427.71(1)|          |                           |
| 7543  | 17427.12(4) | 17427.07(4)| 1280  | S+ WW-2B (0-4) R4         |
| 7544  | 17426.37(5) | 17426.44(4)| 1281  | S+ GK-2B (6-9) R3         |
| 7545  | 17425.94(4) | 17426.01(3)| 1282  | S+ GK-2B (0-4) P1         |
| 7546  | 17425.61(4) | 17425.82(4)| 1283  |                           |
| 7547  | 17424.80(4) | 17424.89(4)| 1284  |                           |
| 7548  | 17424.42(4) | 17424.37(4)| 1285  | T+ 3f-2c (1-1) Q6         |
| 7549  | 17424.20(4) | 17424.09(4)| 1286  | T- 3f-2c (1-1) Q14        |
| 7550  | 17423.77(4) | 17423.70(3)| 1287  |                           |
| 7551  | 17423.53(3) | 17423.59(3)| 1289  | T- 3f-2c (1-1) Q8         |
| 7552  | 17422.21(4) | 17422.36(5)| 1290  |                           |
| 7553  | 17421.83(4) | 17421.99(4)| 1291  |                           |
| 7554  | 17421.20(4) | 17421.21(4)| 1292  |                           |
| 7555  | 17420.47(5) | 17420.50(4)| 1293  | S+ GK-2B (5-8) R1         |
| 7556  | 17419.96(4) | 17420.01(4)| 1294  | S- 3E-2B (3-10) Q3        |
| 7557  | 17419.64(3) | 17419.69(3)| 1295  | T- 3f-2c (3-3) R8         |
| 7558  | 17418.70(4) | 17418.72(4)| 1296  |                           |
| 7559  | 17417.57(4) | 17417.55(4)|          |                           |
| 7560  | 17417.17(3) | 17417.17(2)| 1298  | T- 3f-2c (1-1) Q7         |
| 7561  | 17416.58(4) | 17416.53(4)|          |                           |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|------------|-------|------------|-------|------------|
| 7562  | 17416.05(3)| 17416.09| 17416.04(3)| 1299  |            |
| 7563  | 17415.56(3)| 17415.53| 17415.57(3)| 1300  |            |
|       |            | 17415.19| |         | S+ EF-2B (21-2) P2 |
| 7564  | 17414.45(5)| 17414.18| 17414.47(3)| 1301  |            |
| 7565  | 17413.83(4)| 17413.84| 17413.83(3)| 1302  | T- 3c-2a (10-8) Q2 |
|       |            | 17413.54| |         | S+ GK-2B (5-8) R0 |
| 7566  | 17412.05(4)| 17412.05| 17412.07(3)| 1303  |            |
| 7567  | 17411.53(4)| 17411.47| 17411.54(4)| 1304  | S+ GK-2B (6-9) R2 |
|       |            | 17411.06| |         |            |
| 7568  | 17410.75(3)| 17410.75| 17410.74(3)| 1305  | T- 3c-2a (4-3) Q6 |
| 7569  | 17410.36(3)| 17410.37| 17410.40(3)| 1306  | T+ 3f-2c (1-1) Q5 |
|       |            | 17410.22(3)| | 1307  |            |
| 7570  | 17409.84(3)| 17409.83| 17409.82(2)| 1308  | T- 3f-2c (1-1) Q6 |
| 7571  | 17409.35(5)| 17409.29| | |            |
| 7572  | 17408.75(3)| 17408.75| 17408.76(3)| 1309  | T+ 3f-2c (2-2) R3 |
|       |            | 17408.62(4)| | 1310  |            |
| 7573  | 17408.30(5)| | | |            |
|       |            | 17407.95| 17407.24| 17407.09(4)| 1311  |            |
| 7574  | 17406.80(4)| 17406.74| 17406.78(3)| 1312  | T- 3f-2c (2-2) R3 |
| 7575  | 17406.63(4)| 17406.61(3)| | 1313  |            |
| 7576  | 17405.90(3)| 17405.91| 17405.88(2)| 1314  | T+ 3f-2c (3-3) R7 |
|       |            | 17405.50(4)| | 1315  |            |
| 7577  | 17405.38(4)| 17405.22| 17405.33(5)| 1316  |            |
| 7578  | 17404.62(3)| 17404.61| 17404.65(3)| 1317  | T+ 3e-2c (0-0) R5 |
|       |            | 17404.34| 17404.53(3)| 1318  |            |
| 7579  | 17403.86(4)| 17403.86| 17403.82(3)| 1319  |            |
| 7580  | 17403.07(5)| 17403.14| 17403.04(5)| 1320  |            |
| 7581  | 17402.41(4)| 17402.45| 17402.39(4)| 1321  | S+ GK-2B (0-4) P2 |
|       |            | 17401.97(3)| | 1322  |            |
| 7582  | 17401.92(3)| 17401.87| 17401.88(3)| 1323  | T- 3f-2c (1-1) Q5 |
|       |            | 17401.87| 17401.72(3)| 1324  | T+ 3c-2a (4-3) P3 |
| 7583  | 17401.49(4)| | | |            |
| 7584  | 17400.97(5)| 17401.12| 17400.89| 17400.62(5)| 1325  |            |
| 7585  | 17400.36(3)| 17400.39| 17400.36(3)| 1326  | T- 3f-2c (3-3) R7 |
|       |            | 17400.21(4)| | 1327  |            |
| 7586  | 17399.18(4)| 17399.25| 17399.17(3)| 1328  | T- 3c-2a (10-8) Q3 |
|       |            | 17399.25| 17399.76| | S+ GK-2B (6-9) R1 |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 7587  | 17398.67(5) | 17398.72 | 17398.09(2) | 1329  | T+ 3f-2c (1-1) Q4 |
| 7588  | 17398.12(3) | 17398.11 | 17397.91(2) | 1330  | S- 3F-2B (2-9) Q3 |
| 7589  | 17397.93(4) | 17397.28 | 1331        |       |             |
| 7590  | 17397.43(6) | 1332    |             |       |             |
| 7591  | 17396.59(4) | 1333    |             |       |             |
| 7592  | 17395.39(4) | 1334    |             |       |             |
| 7593  | 17394.70(4) | 1335    |             |       |             |
| 7594  | 17394.02(3) | 1336    |             |       |             |
| 7595  | 17393.54(6) | 1337    |             |       |             |
|       |             | 17393.19|             |       |             |
|       |             | 17392.58|             |       |             |
| 7596  | 17391.54(3) | 1338    |             |       |             |
| 7597  | 17390.79(3) | 1339    |             |       |             |
|       |             | 1340    |             |       |             |
| 7598  | 17390.12(3) | 1341    |             |       |             |
| 7599  | 17388.66(3) | 1342    |             |       |             |
| 7600  | 17388.16(3) | 1343    |             |       |             |
| 7601  | 17387.84(3) | 1344    |             |       |             |
| 7602  | 17387.28(4) | 1345    |             |       |             |
| 7603  | 17386.63(3) | 1346    |             |       |             |
|       |             | 1347    |             |       |             |
| 7604  | 17386.19(4) | 1348    |             |       |             |
|       |             | 1349    |             |       |             |
| 7605  | 17385.27(4) | 1350    |             |       |             |
|       |             | 1351    |             |       |             |
| 7606  | 17383.99(3) | 1352    |             |       |             |
|       |             | 1353    |             |       |             |
| 7607  | 17383.36(4) | 1354    |             |       |             |
| 7608  | 17382.80(4) | 1355    |             |       |             |
| 7609  | 17382.34(3) | 1356    |             |       |             |
| 7610  | 17382.09(5) | 1357    |             |       |             |
| 7611  | 17381.67(4) | 1358    |             |       |             |
| 7612  | 17381.35(4) | 1359    |             |       |             |
| 7613  | 17380.70(3) | 1360    |             |       |             |
|       |             | 1361    |             |       |             |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment          |
|-------|-------------|-------|-------------|-------|---------------------|
| 7614  | 17380.39(3) | 17380.38 | 17380.48(4) | 1358  | T- 3f-2c (1-1) Q2  |
| 7615  | 17380.00(3) | 17379.72 | 17379.92(4) | 1361  | T- 3c-2a (10-8) Q4 |
| 7616  | 17379.55(3) | 17379.56 | 17379.45(4) | 1363  |                     |
| 7617  | 17378.41(3) | 17378.39 | 17378.40(4) | 1364  | T- 3f-2c (3-3) R6  |
| 7618  | 17378.10(5) | 17378.97 | 17378.25(4) | 1365  |                     |
| 7619  | 17376.52(3) | 17376.34 | 17376.50(4) | 1367  | S- 3E-2B (3-10) Q1 |
| 7620  | 17376.00(4) | 17375.93 | 17376.30(5) | 1368  |                     |
| 7621  | 17375.39(3) | 17375.44 | 17375.36(3) | 1369  |                     |
| 7622  | 17374.67(3) | 17374.64 | 17374.67(3) | 1370  | T+ 3f-2c (2-2) R2  |
| 7623  | 17374.40(4) | 17374.28 | 17374.49(3) | 1371  | T- 3f-2c (2-2) R2  |
| 7624  | 17373.56(4) | 17373.56 | 17373.57(5) | 1372  | S+ 3E-2B (3-10) P3 |
| 7625  | 17372.39(4) | 17372.37 | 17372.35(4) | 1373  |                     |
| 7626  | 17371.48(6) | 17371.55 | 17371.71    | 1374  | S+ GK-2B (0-4) P3  |
| 7627  | 17370.03(6) | 17370.04 | 17370.07(5) | 1375  |                     |
| 7628  | 17369.52(4) | 17369.54 | 17369.33(6) | 1376  |                     |
| 7629  | 17369.01(7) | 17368.79(4) | 17368.55(4) | 1377  |                     |
| 7630  | 17368.56(4) | 17368.56 | 17368.06    | 1378  |                     |
| 7631  | 17367.48(4) | 17367.48 | 17367.73(5) | 1379  |                     |
| 7632  | 17366.66(6) | 17366.66 | 17366.70    | 1380  |                     |
| 7633  | 17366.12(6) | 17366.10 | 17366.10    | 1381  | T+ 3e-2c (0-0) R4  |
| 7634  | 17365.08(4) | 17365.12 | 17365.10    | 1382  | T+ GK-2B (5-8) P2  |
| 7635  | 17364.06(4) | 17364.05 | 17364.08(4) | 1383  | T+ 3f-2c (0-0) P4  |
| 7636  | 17363.65(6) | 17363.92(5) | 17363.87(5) | 1384  |                     |
| 7637  | 17362.89(4) | 17362.92 | 17362.88(5) | 1385  |                     |
| 7638  | 17361.91(5) | 17361.93 | 17361.83    | 1386  | T+ 3b-2a (6-1) P6  |
| $K_1$ | $\nu(a)$  | $\nu$     | $\nu(c)$  | $K_2$     | Assignment                        |
|-------|------------|-----------|------------|-----------|-----------------------------------|
| 7639  | 17361.07(4)| 17361.02  | 17361.09(4)| 1387      | T- 3f-2c (0-0) P4                 |
| 7640  | 17360.86(5)| 17360.64  | 17360.91(5)| 1388      |                                   |
| 7641  | 17360.13(4)| 17360.28  | 17360.04(5)| 1389      | S+ 3E-2B (3-10) P2                |
|       |            |           |            |           | S+ GK-2B (7-10) R3                |
|       |            |           | 17359.57(5)| 1390      |                                   |
| 7642  | 17359.39(4)| 17359.37  | 17359.36(4)| 1391      | T+ 3c-2a (4-3) P4                 |
|       |            | 17359.15  | 17358.67   |           |                                   |
|       |            |           | 17358.29(7)| 1392      |                                   |
| 7643  | 17358.19(4)| 17358.19  | 17358.11(5)| 1393      |                                   |
| 7644  | 17357.76(4)| 17357.75  | 17357.77(5)| 1394      | T+ 3f-2c (3-3) R5                 |
|       |            |           | 17357.68(5)| 1395      |                                   |
|       |            |           | 17356.91(5)| 1396      |                                   |
| 7645  | 17356.87(4)| 17356.82  | 17356.76(5)| 1397      |                                   |
|       |            |           | 17356.58(5)| 1398      |                                   |
| 7646  | 17356.41(4)| 17356.40  | 17356.27(6)| 1399      |                                   |
| 7647  | 17355.37(4)| 17355.42  | 17355.50(6)| 1400      |                                   |
|       |            |           | 17355.29(6)| 1401      |                                   |
| 7648  | 17354.20(4)| 17354.28  | 17354.23(5)| 1402      | T- 3f-2c (3-3) R5                 |
|       |            |           | 17354.28   | 1403      | S+ GK-2B (6-9) P1                 |
| 7649  | 17353.50(4)| 17353.54  | 17354.07(5)| 1403      |                                   |
|       |            |           | 17353.52(6)| 1404      |                                   |
|       |            |           | 17353.33   | 1405      |                                   |
| 7650  | 17352.57(4)| 17352.55  | 17352.61(7)| 1405      |                                   |
|       |            |           | 17351.18   |           |                                   |
|       |            |           | 17350.96   |           |                                   |
| 7651  | 17350.33(3)| 17350.29  | 17350.35(4)| 1406      | T+ 3f-2c (0-0) P5                 |
|       |            |           | 17350.24(5)| 1407      |                                   |
| 7652  | 17349.89(5)|           | 17349.36   |           |                                   |
|       |            |           | 17348.75   |           |                                   |
|       |            |           | 17347.72   |           |                                   |
|       |            |           | 17346.30   |           |                                   |
|       |            |           | 17345.93(9)|           |                                   |
| 7653  | 17345.95(4)| 17346.00  | 17345.77(8)| 1410      |                                   |
|       |            |           | 17345.74   |           |                                   |
| 7654  | 17345.18(4)| 17345.15  | 17345.17(5)| 1411      | T- 3c-2a (4-3) Q8                 |
|       |            |           | 17345.15   |           | T+ 3f-2c (2-2) Q12                |
| 7655  | 17344.68(9)| 17344.54  |           |           |                                   |
| 7656  | 17344.05(4)| 17343.99  | 17344.03(4)| 1412      | S+ GK-2B (5-8) P3                 |
|       |            |           | 17343.64(6)| 1413      |                                   |
| 7657  | 17343.56(4)| 17343.56  | 17343.51(6)| 1414      |                                   |
|       |            |           | 17343.37(6)| 1415      |                                   |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                 |
|------|-------------|-------|-------------|------|---------------------------|
| 7658 | 17342.96(4) | 17342.96 | 17342.97(4) | 1416 | T- 3f-2c (2-2) R1       |
|      | 17342.70    |        |             |      |                           |
| 7659 | 17342.61(4) | 17342.59 | 17342.64(4) | 1418 | T+ 3f-2c (2-2) Q11      |
|      | 17342.43    |        | 17342.48(5) |      | T- 3f-2c (0-0) P5       |
| 7660 | 17342.26(4) | 17342.30 | 17342.30(5) | 1420 |                           |
| 7661 | 17341.90(4) | 17342.12 | 17342.09(5) | 1421 |                           |
|      |             |        | 17341.82(5) |      |                           |
| 7662 | 17341.40(5) |        |             | 1422 |                           |
|      |             | 17341.20 |             |      |                           |
|      |             | 17341.20 |             |      |                           |
| 7663 | 17340.73(4) | 17340.69 | 17340.66(5) | 1425 | T+ 3f-2c (0-0) P6       |
| 7664 | 17340.17(5) | 17339.87 |             |      |                           |
| 7665 | 17339.40(4) | 17339.41 |             |      |                           |
| 7666 | 17338.81(6) | 17338.95 |             |      | S+ GK-2B (6-9) P2       |
| 7667 | 17338.09(4) | 17338.07 | 17338.13(5) | 1426 |                           |
|      |             |        | 17337.96(5) |      |                           |
| 7668 | 17337.66(4) | 17337.62 | 17337.64(5) | 1427 |                           |
| 7669 | 17337.21(5) | 17337.22(5) | 17337.08 | | 1428 |
| 7670 | 17337.01(4) | 17337.08 |             |      | S+ GK-2B (0-4) P4       |
|      |             | 17336.30 |             |      |                           |
| 7671 | 17335.92(5) | 17336.05 | 17335.93(6) | 1431 |                           |
|      |             | 17335.93 |             |      |                           |
| 7672 | 17335.19(5) | 17335.22 | 17335.24(6) | 1432 |                           |
|      |             | 17334.96 |             |      |                           |
| 7673 | 17334.38(3) | 17334.37 | 17334.35(5) | 1433 |                           |
| 7674 | 17333.91(6) |        |             | 1434 | T+ 3f-2c (0-0) P7       |
|      |             | 17333.47 |             |      |                           |
| 7675 | 17332.51(3) | 17332.53 | 17332.58(5) | 1435 |                           |
|      |             |        | 17332.44(6) |      |                           |
| 7676 | 17330.20(2) | 17330.24 | 17330.22(4) | 1436 |                           |
|      |             |        | 17330.76    |      |                           |
| 7677 | 17329.41(3) | 17329.40 | 17329.36(4) | 1437 |                           |
| 7678 | 17328.71(4) | 17328.76 |             | 1438 |                           |
|      |             | 17328.58 |             |      |                           |
| 7679 | 17328.17(2) | 17328.16 | 17328.18(3) | 1439 |                           |
| 7680 | 17327.83(3) | 17327.97 | 17327.95(3) | 1440 |                           |
|      |             |        | 1441         |      |                           |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|------|------------|------|-------------|------|-----------------------------|
| 7681 | 17327.25(2)| 17327.30 | 17327.74(4) | 1442 | T+ 3f-2c (0-0) P9           |
|      |            | 17327.30 |             |      | S 3A-2B (2-10) R9          |
| 7682 | 17326.70(3)| 17326.70 | 17326.79(4) | 1444 |                            |
| 7683 | 17325.82(3)| 17325.85 | 17325.82(3) | 1445 |                            |
| 7684 | 17325.52(3)| 17325.55 | 17325.54(3) | 1446 | T+ 3f-2c (2-2) Q8          |
|      |            |          | 17325.35(4) | 1447 |                            |
|      |            |          | 17325.17    |      |                            |
| 7685 | 17325.13(2)| 17325.10 | 17325.15(4) | 1448 | T- 3f-2c (0-0) P6          |
|      |            |          | 17324.98(4) | 1449 |                            |
|      |            |          | 17324.51    | 1450 |                            |
| 7686 | 17324.44(2)| 17324.38 | 17324.37(4) | 1451 | T+ 3f-2c (0-0) P10         |
| 7687 | 17323.99(2)| 17324.00 | 17323.98(3) | 1452 | T+ 3e-2c (0-0) R3          |
|      |            |          | 17324.00    | 1453 | S+ GK-2B (6-9) P3          |
| 7688 | 17323.15(6)| 17323.24(5) |          | 1454 |                            |
| 7689 | 17322.64(4)| 17322.90 | 17322.83(4) | 1455 | S+ GK-2B (5-8) P4          |
|      |            |          | 17322.63(4) | 1456 |                            |
| 7690 | 17322.01(4)| 17322.22 | 17322.17(4) | 1457 |                            |
|      |            |          | 17321.76    | 1458 | S+ 3E-2B (0-5) R2          |
| 7691 | 17320.93(2)| 17320.94 | 17320.94(4) | 1459 | T+ 3f-2c (0-0) P11         |
|      |            |          | 17320.79(5) | 1460 |                            |
| 7692 | 17320.08(5)| 17320.22 | 17320.12(5) | 1461 |                            |
|      |            |          | 17320.05    |      |                            |
|      |            |          | 17319.90    |      |                            |
|      |            |          | 17319.20    |      |                            |
|      |            |          | 17318.28    |      |                            |
| 7693 | 17317.80(2)| 17317.82 | 17317.82(3) | 1463 | T+ 3f-2c (2-2) Q7          |
|      |            |          | 17317.65(4) | 1464 |                            |
|      |            |          | 17317.39    |      |                            |
| 7694 | 17316.83(3)| 17316.80 | 17316.86(5) | 1465 |                            |
|      |            |          | 17316.72(4) | 1466 |                            |
| 7695 | 17316.20(3)| 17316.21 | 17316.18(4) | 1467 | T+ 3f-2c (0-0) P12         |
|      |            |          | 17315.92    | 1468 | S+ GK-2B (7-10) R2         |
| 7696 | 17315.39(3)| 17315.34 | 17315.26(5) | 1469 |                            |
|      |            |          | 17313.90    | 1470 |                            |
|      |            |          | 17313.43    |      | S+ GK-2B (5-8) P5          |
| 7697 | 17313.08(3)| 17313.07 | 17313.05(3) | 1471 | T+ 3c-2a (4-3) P5          |
|      |            |          | 17310.55    |      |                            |
| 7698 | 17309.97(3)| 17309.93 | 17309.98(3) | 1472 | T+ 3f-2c (0-0) P13         |
|      |            |          | 17309.93    |      | T+ 3f-2c (2-2) Q6          |
| 7699 | 17309.77(4)| 17309.81(3) |          | 1473 |                            |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------------|-------|------------|
| 7700  | 17309.10(2) | 17309.10    | 17309.09(3) | 1474       |
|       | 17308.54(2) | 17308.53    | 17308.58(4) | 1475       |
|       |             |             | 17308.43(5) | 1476       |
|       |             |             | 17308.11(5) | 1477       |
| 7702  | 17308.05(2) | 17308.04    | 17308.01(4) | 1478       |
|       | 17307.40(2) | 17307.40    | 17307.39(3) | 1479       |
|       |             |             | 17307.13(3) | 1480       |
| 7704  | 17306.82(3) | 17306.75    | 17306.80(3) | 1481       |
|       | 17306.36(3) | 17306.56    | 17306.53(3) | 1482       |
|       |             |             | 17306.31(4) | 1483       |
|       |             |             | 17306.41    |             |
|       |             |             | 17305.94    |             |
|       |             |             | 17305.73    |             |
|       |             |             | 17305.31(4) | 1484       |
| 7706  | 17305.26(2) | 17305.25    | 17305.21(3) | 1485       |
|       | 17304.60(3) | 17304.58    | 17304.58(6) | 1486       |
|       |             |             | 17304.45    |             |
| 7708  | 17303.89(6) | 17304.10    | 17303.56    | 1487       |
|       |             |             | 17303.54(4) | 1487       |
|       |             |             | 17303.28(4) | 1489       |
| 7709  | 17303.37(2) | 17303.37    | 17303.38(4) | 1488       |
|       |             |             | 17303.28(4) | 1489       |
| 7710  | 17302.79(3) | 17302.94    | 17302.81(4) | 1490       |
|       |             |             | 17302.69    |             |
|       |             |             | 17302.47    |             |
|       |             |             | 17302.47    |             |
|       |             |             | 17302.51(3) | 1491       |
|       |             |             | 17302.34(3) | 1492       |
|       |             |             | 17301.99(3) | 1493       |
| 7712  | 17301.80(3) | 17301.88    | 17301.84(3) | 1494       |
|       |             |             | 17301.73(3) | 1495       |
| 7713  | 17300.98(4) | 17300.91    | 17300.95(3) | 1496       |
|       |             |             | 17300.78(3) | 1497       |
| 7714  | 17300.82(4) | 17299.87(3) | 17299.91    | 1498       |
|       |             |             | 17299.86(4) |             |
|       |             |             | 17298.52(4) |             |
|       |             |             | 17298.56    |             |
| 7717  | 17298.02(3) | 17297.95    | 17297.91(3) | 1500       |
| 7718  | 17297.44(3) | 17297.49    | 17297.43(3) | 1501       |
|       | 17296.75(5) | 17296.51    | 17296.54(4) | 1502       |
|       |             |             | 17296.07(5) | 1503       |
| 7722  | 17295.80(3) | 17295.78    | 17295.82(3) | 1504       |
|       |             |             | 17295.82(3) |             |
| $K_1$   | $\nu^{(a)}$   | $\nu$   | $\nu^{(c)}$ | $K_2$   | Assignment                          |
|--------|---------------|---------|-------------|--------|-------------------------------------|
| 7723   | 17295.64(5)   |         | 17295.65(3) | 1505   |                                     |
| 7724   | 17294.08(5)   | 17294.29|             |        |                                     |
| 7725   | 17293.61(3)   | 17293.61| 17293.62(4) | 1506   | T- 3f-2c (2-2) Q4                  |
|        |               |         | 17293.52(4) |        |                                     |
| 7726   | 17293.15(6)   | 17293.02|             |        | S+ EF-2B (21-2) P5                 |
|        |               | 17292.86|             |        |                                     |
| 7727   | 17292.47(3)   | 17292.47| 17292.47(4) | 1508   | T+ 3f-2c (1-1) P3                  |
|        |               |         | 17292.35(5) | 1509   |                                     |
| 7728   | 17292.09(3)   | 17292.15| 17292.13(4) | 1510   | T- 3f-2c (1-1) P3                  |
|        |               |         | 17292.07    |        | T- 3f-2c (0-0) P8                  |
|        |               |         | 17292.07    |        | S+ GK-2B (6-9) P5                  |
| 7729   | 17291.58(4)   |         |             | 1511   |                                     |
|        |               | 17290.98|             |        |                                     |
| 7730   | 17290.22(3)   | 17290.23| 17290.24(4) | 1512   | T+ 3f-2c (2-2) Q3                  |
|        |               |         | 17290.23    | 1513   | S+ GK-2B (0-4) P5                  |
| 7731   | 17289.79(4)   |         |             | 1514   |                                     |
| 7732   | 17289.41(3)   | 17289.41| 17289.41(4) | 1515   | T- 3f-2c (2-2) Q3                  |
| 7733   | 17289.16(6)   |         |             | 1516   |                                     |
| 7734   | 17288.63(3)   | 17288.64| 17288.58(4) | 1517   |                                     |
| 7735   | 17287.79(4)   | 17287.79| 17287.74(5) | 1518   |                                     |
|        |               |         | 17287.28    |        |                                     |
|        |               |         | 17286.66    |        |                                     |
| 7736   | 17285.97(3)   | 17285.91| 17285.98(3) | 1519   | T- 3f-2c (2-2) Q2                  |
| 7737   | 17285.77(3)   |         | 17285.78(4) | 1520   |                                     |
|        |               |         | 17285.61(4) | 1521   |                                     |
| 7738   | 17285.25(3)   |         |             | 1522   |                                     |
| 7739   | 17284.70(3)   | 17284.76| 17284.71(4) | 1523   | T- 3f-2c (4-4) R9                  |
| 7740   | 17284.04(5)   |         |             | 1524   |                                     |
| 7741   | 17283.60(4)   | 17283.59| 17283.57(6) | 1525   |                                     |
| 7742   | 17282.93(3)   | 17282.91| 17282.87(4) | 1526   |                                     |
|        |               |         | 17282.51    | 1527   |                                     |
| 7743   | 17281.29(4)   | 17281.31| 17281.28(5) | 1528   |                                     |
| 7744   | 17280.69(3)   |         |             | 1529   |                                     |
| 7745   | 17279.30(3)   | 17279.31| 17279.31(6) | 1530   | T+ 3f-2c (0-0) P16                 |
|        |               |         | 17279.12    | 1531   |                                     |
|        |               |         | 17279.07(5) | 1532   |                                     |
| 7746   | 17278.42(3)   | 17278.46| 17278.42(4) | 1532   |                                     |
| 7747   | 17278.14(4)   | 17278.14| 17278.18(4) | 1533   |                                     |
| 7748   | 17277.65(4)   | 17277.48| 17277.47(5) | 1534   |                                     |
| 7749   | 17276.86(5)   | 17276.79| 17276.76(5) | 1535   |                                     |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment         |
|-------|-------------|-------|-------------|-------|-------------------|
| 7750  | 17276.54(4) | 17276.70 | 17276.49(5) | 1536  | S+ GK-2B (6-9) P6 |
| 7751  | 17276.12(3) | 17276.10 | 17276.11(4) | 1537  | T+ 3e-2c (1-1) R6 |
| 7752  | 17275.77(3) | 17275.80 | 17275.83(4) | 1538  | S- 3E-2C (3-0) R1 |
|       |             |         | 17275.63(5) | 1539  |                   |
| 7753  | 17275.51(3) | 17275.52 | 17275.44(5) | 1540  | T- 3f-2c (0-0) P9 |
| 7754  | 17274.71(5) | 17274.82 |             |       |                   |
|       |             |         | 17274.73    | 1541  |                   |
| 7755  | 17274.24(3) | 17274.20 | 17274.23(4) | 1542  | T+ 3e-2c (0-0) R2 |
| 7756  | 17273.82(4) | 17273.81 | 17273.90(4) | 1543  |                   |
|       |             |         | 17273.54    | 1544  |                   |
| 7757  | 17273.13(3) | 17273.14 | 17273.13(3) | 1545  |                   |
| 7758  | 17272.84(3) | 17272.90 | 17272.88(3) | 1546  | T+ 3f-2c (3-3) R2 |
|       |             |         | 17272.70(4) | 1547  |                   |
| 7759  | 17271.75(4) | 17271.91 |             |       |                   |
|       |             |         | 17271.60    | 1548  | T+ 3f-2c (1-1) P4 |
|       |             |         | 17270.22    |       |                   |
| 7760  | 17271.12(3) | 17271.10 | 17271.10(4) | 1549  | T- 3f-2c (3-3) R2 |
|       |             |         | 17269.60    | 1550  |                   |
| 7761  | 17269.64(3) | 17269.60 | 17269.67(4) | 1551  |                   |
|       |             |         | 17269.49(4) |       |                   |
|       |             |         | 17269.15(5) |       |                   |
| 7763  | 17268.80(3) | 17268.82 | 17268.80(7) | 1552  |                   |
|       |             |         | 17268.71    |       |                   |
| 7764  | 17268.62(2) | 17267.63 | 17267.63(4) | 1553  | T- 3f-2c (4-4) R7 |
| 7765  | 17266.49(5) | 17266.47(5) |       | 1554  |                   |
| 7766  | 17266.24(5) | 17266.27(4) |       | 1555  |                   |
| 7767  | 17265.86(6) |           |             |       |                   |
| 7768  | 17265.48(4) | 17265.48 |             |       |                   |
|       |             |         | 17264.90(6) | 1556  |                   |
|       |             |         | 17264.74(5) | 1557  |                   |
| 7769  | 17264.79(3) |           |             |       |                   |
| 7770  | 17264.05(3) | 17264.05 | 17264.07(5) | 1558  | T+ 3f-2c (0-0) P17 |
|       |             |         | 17263.73    | 1559  |                   |
|       |             |         | 17263.37    |       |                   |
| 7772  | 17262.89(2) | 17262.93 | 17262.91(4) | 1560  | T+ 3c-2a (4-3) P6 |
| 7773  | 17262.49(4) | 17262.93 |             | 1561  |                   |
|       |             |         | 17262.60(5) |       |                   |
| 7774  | 17261.20(3) | 17261.29 | 17262.29(5) | 1562  |                   |
| 7775  | 17260.66(2) | 17260.69 | 17260.66(4) | 1563  |                   |
| 7776  | 17259.43(4) | 17259.53 |             | 1564  |                   |
| 7777  | 17258.86(3) | 17258.83 | 17258.83(4) | 1565  |                   |
|       |             |         | 17258.96(4) |       |                   |
|       |             |         | 17258.83(4) |       |                   |
|       |             |         | 17258.83(4) |       |                   |
| $K_1$ | $\nu^{(a)}$ | $\nu$   | $\nu^{(c)}$ | $K_2$ | Assignment       |
|-------|-------------|---------|-------------|-------|-----------------|
| 7778  | 17258.52(3) | 17258.50| 17258.57(4) | 1567  | T- 3f-2c (0-0) P10 |
| 7779  | 17258.27(3) |         | 17258.40(4) | 1568  |                 |
|       |             |         | 17258.04(7) | 1569  |                 |
| 7780  | 17257.65(3) | 17257.63| 17257.60(5) | 1570  |                 |
| 7781  | 17256.74(3) | 17256.87| 17256.76(5) | 1571  |                 |
| 7782  | 17256.24(4) | 17256.12|             |       |                 |
| 7783  | 17255.46(3) | 17255.48| 17255.47(3) | 1572  | T- 3c-2a (5-4) Q1 |
| 7784  | 17255.09(4) |         | 17255.12(7) | 1573  |                 |
| 7785  | 17254.68(3) | 17254.63| 17254.60(4) | 1574  |                 |
| 7786  | 17253.83(4) |         |             |       |                 |
| 7787  | 17253.64(7) | 17253.73|             |       |                 |
| 7788  | 17253.11(3) | 17253.14| 17253.14(4) | 1575  | T- 3f-2c (4-4) R6 |
| 7789  | 17252.87(4) |         | 17252.99(4) | 1576  |                 |
|       |             |         | 17252.70(4) | 1577  |                 |
| 7790  | 17252.64(2) | 17252.65| 17252.61(4) | 1578  | T+ 3f-2c (1-1) P5 |
| 7791  | 17252.23(4) |         |             |       |                 |
|       |             |         | 17251.77    |       |                 |
| 7792  | 17250.84(3) | 17250.84| 17250.91(5) | 1579  |                 |
|       |             |         | 17250.76(5) | 1580  |                 |
| 7793  | 17250.13(3) | 17250.15| 17250.13(4) | 1581  |                 |
| 7794  | 17249.62(3) | 17249.67| 17249.45(4) | 1582  |                 |
| 7795  | 17249.34(5) | 17249.29| 17249.27(4) | 1583  |                 |
| 7796  | 17249.12(4) | 17249.10| 17249.09(5) | 1584  |                 |
| 7797  | 17248.64(3) | 17248.61| 17248.65(3) | 1585  | T- 3f-2c (1-1) P5 |
| 7798  | 17248.48(3) | 17248.48| 17248.48(4) | 1586  |                 |
| 7799  | 17247.95(18)| 17247.87|             |       |                 |
|       |             |         | 17247.76    |       |                 |
| 7800  | 17247.37(3) | 17247.35| 17247.38(4) | 1587  |                 |
| 7801  | 17246.64(2) | 17246.64| 17246.65(3) | 1588  | T- 3c-2a (5-4) Q2 |
| 7802  | 17246.21(3) | 17246.30| 17246.30(5) | 1589  |                 |
| 7803  | 17245.94(6) | 17245.97| 17245.97(5) | 1590  |                 |
|       |             |         | 17245.73    | 1591  | S+ 3E-2B (0-5) R1 |
| 7804  | 17245.64(4) |         | 17245.58(5) | 1592  |                 |
| 7805  | 17245.31(4) |         |             |       |                 |
| 7806  | 17244.95(3) | 17245.11|             |       |                 |
| 7807  | 17244.44(2) | 17244.41| 17244.46(3) | 1593  | T- 3f-2c (3-3) R1 |
|       |             |         | 17244.20    | 1594  |                 |
| 7808  | 17244.08(3) |         | 17244.04(4) | 1595  |                 |
| 7809  | 17243.90(3) | 17243.83| 17243.89(3) | 1596  | T+ 3e-2c (1-1) R5 |
| 7810  | 17243.58(3) | 17243.62| 17243.63(4) | 1597  |                 |
| $K_1$  | $\nu^{(a)}$ | $\nu$  | $\nu^{(c)}$ | $K_2$   | Assignment                        |
|-------|-------------|--------|-------------|--------|-----------------------------------|
| 7811  | 17243.19(4) |        |             |        |                                  |
| 7812  | 17242.94(6) | 17243.00 |             |        |                                  |
| 7813  | 17242.55(6) |        |             |        |                                  |
| 7814  | 17242.19(5) | 17242.13 |             |        |                                  |
| 7815  | 17241.43(3) | 17241.60 | 17241.50(5) | 1598  | T- 3f-2c (0-0) P11               |
|       |             |        | 17241.36(5) | 1599  |                                  |
| 7816  | 17240.87(3) | 17240.85 | 17240.91(4) | 1600  |                                  |
| 7817  | 17240.61(4) | 17240.72 | 17240.69(4) | 1601  |                                  |
| 7818  | 17240.06(3) | 17240.01 |             |        |                                  |
|       |             |        |             |        |                                  |
| 7819  | 17239.51(2) | 17239.51 | 17239.48(4) | 1603  |                                  |
|       |             |        | 17238.62    |        |                                  |
| 7820  | 17237.60(3) | 17237.66 |             |        | S+ GK-2B (0-4) P6                |
|       |             |        |             |        |                                  |
| 7821  | 17237.04(2) | 17237.02 | 17237.01(3) | 1604  |                                  |
|       |             |        | 17236.42    |        |                                  |
|       |             |        | 17236.11    |        |                                  |
|       |             |        | 17235.91    |        |                                  |
| 7822  | 17235.43(2) | 17235.42 | 17235.48(4) | 1606  | T- 3f-2c (4-4) R5                |
|       |             |        | 17235.31(5) | 1607  |                                  |
|       |             |        | 17234.85(4) | 1608  |                                  |
| 7823  | 17234.75(3) | 17234.62 | 17234.66(4) | 1609  |                                  |
|       |             |        | 17234.06    |        |                                  |
| 7824  | 17233.44(3) | 17233.44 | 17233.43(3) | 1610  | T- 3c-2a (5-4) Q3                |
| 7825  | 17232.86(4) | 17232.88(5) | 17232.69(8) | 1611 |                                  |
|       |             |        | 17232.48(10) | 1612 |                                  |
| 7826  | 17232.40(4) | 17232.50 | 17231.76(5) | 1614  |                                  |
|       |             |        | 17231.60(4) | 1615  |                                  |
| 7827  | 17231.66(3) | 17231.82 |             |        |                                  |
| 7828  | 17231.11(5) | 17230.74 | 17230.71(4) | 1616  |                                  |
| 7829  | 17230.73(4) | 17230.24 | 17230.23(4) | 1617  | T+ 3b-2a (4-0) R2                |
|       |             |        | 17230.24    |        |                                  |
|       |             |        | 17230.24    |        | S+ GK-2B (7-10) P3               |
| 7831  | 17229.63(7) | 17229.56 | 17229.53(4) | 1618  | T+ 3b-2a (4-0) R1                |
| 7832  | 17229.45(3) | 17229.09 | 17229.31(5) | 1619  |                                  |
| 7833  | 17228.61(2) | 17228.61 | 17228.64(3) | 1620  | T- 3f-2c (1-1) P6                |
|       |             |        | 17228.44(3) | 1621  | S- 3E-2C (3-0) Q1                |
| 7834  | 17228.27(2) | 17228.29 | 17228.21(4) | 1622  | T+ 3e-2c (0-0) Q7                |
|       |             |        | 17228.29    |        |                                  |
| 7835  | 17227.66(3) | 17227.70 | 17227.70(5) | 1623  | S+ EF-2B (32-8) R2               |
|       |             |        | 17227.50(6) | 1624  |                                  |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 7836  | 17227.08(3) | 17227.08 | 17227.09(3) | 1625  | T+ 3e-2c (0-0) Q8 |
| 7837  | 17226.89(4) | 17226.91(4) | 1626  | | |
| 7838  | 17225.50(3) | 17225.55 | 17225.50(3) | 1627  | |
| 7839  | 17225.11(2) | 17225.12 | 17225.11(2) | 1629  | T+ 3e-2c (0-0) Q6 |
| 7840  | 17224.77(4) | 17224.93(3) | 1630  | | |
| 7841  | 17224.39(4) | 17224.54 | 1631  | | |
| 7842  | 17223.78(2) | 17223.81 | 17223.82(3) | 1633  | T+ 3f-2c (1-1) P7 |
| 7843  | 17223.37(4) | 17223.53(3) | 1635  | | |
| 7844  | 17222.72(3) | 17222.82 | 17222.67(2) | 1637  | |
| 7845  | 17222.32(3) | 17222.28 | 17222.25(3) | 1639  | T+ 3e-2c (0-0) Q9 |
| 7846  | 17222.13(3) | 17222.08(3) | 1640  | | |
| 7847  | 17221.35(3) | 17221.26 | 17221.19(4) | 1641  | T+ 3b-2a (9-3) R1 |
| 7848  | 17219.80(4) | 17219.78(7) | 1642  | | |
| 7849  | 17219.56(2) | 17219.55 | 17219.56(2) | 1643  | T+ 3b-2a (9-3) R0 |
| 7850  | 17219.03(2) | 17219.08 | 17218.98(2) | 1645  | T+ 3e-2c (0-0) R1 |
| 7851  | 17218.55(2) | 17218.63 | 17218.57(3) | 1646  | |
|       |             | 17218.56 | 17218.44(2) | 1647  | |
|       |             | 17218.30 |                   |                   | S 3A-2B (2-10) R1 |
| 7852  | 17217.94(3) | 17217.87 | 17217.77(3) | 1648  | |
| 7853  | 17217.51(2) | 17217.58 | 17217.48(3) | 1649  | |
| 7854  | 17216.86(2) | 17216.83 | 17216.84(3) | 1650  | T+ 3e-2c (0-0) Q5 |
| 7855  | 17216.62(3) | 17216.66(3) | 1651  | | |
| 7856  | 17215.86(2) | 17215.91 | 17215.80(2) | 1652  | T- 3c-2a (5-4) Q4 |
| 7857  | 17215.17(2) | 17215.19 | 17215.15(2) | 1653  | T- 3f-2c (4-4) R4 |
| 7858  | 17214.88(4) | 17214.99(2) | 1654  | | |
| 7859  | 17214.23(2) | 17214.20 | 17214.19(3) | 1655  | T+ 3e-2c (0-0) Q10 |
| 7860  | 17214.04(3) | 17214.12 | 17214.03(3) | 1656  | |
| 7861  | 17213.34(3) | 17213.35 | 17213.25(3) | 1657  | |
| 7862  | 17212.96(4) | 17212.09 | 17212.08(3) | 1658  | |
| 7863  | 17212.43(2) | 17212.43 | 17212.41(3) | 1659  | T+ 3f-2c (1-1) P8 |
| 7864  | 17211.51(5) | 17211.51 | 17211.40(3) | 1661  | |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$  | $\nu^{(c)}$ | $K_2$ | Assignment               |
|-------|-------------|--------|-------------|-------|--------------------------|
| 7865  | 17210.44(2) | 17210.44| 17210.39(3) | 1662  |                          |
| 7866  | 17209.77(2) | 17209.75| 17209.71(2) | 1663  |                          |
| 7867  | 17209.24(2) | 17209.21| 17209.21(2) | 1664  | T- 3f-2c (1-1) P7       |
|       |             |        | 17209.04(2) |       | 1665                     |
| 7868  | 17208.88(3) |        | 17208.74    | 1666  | T+ 3b-2a (9-3) R2       |
| 7869  | 17208.69(5) |        | 17208.64(3) | 1667  |                          |
| 7870  | 17208.15(3) | 17208.10|                   |       |                          |
| 7871  | 17207.27(2) | 17207.28| 17207.26(3) | 1668  |                          |
|       |             |        | 17207.07(3) | 1669  |                          |
| 7872  | 17206.62(2) | 17206.60| 17206.60(3) | 1670  | T+ 3e-2c (1-1) R4       |
|       |             |        | 17206.50(3) | 1671  |                          |
| 7873  | 17205.93(4) | 17205.96|                  | 1672  |                          |
|       |             | 17205.12| 17204.56     |       |                          |
|       |             |        | 17204.51(5) |       | T+ 3e-2c (0-0) Q11      |
| 7874  | 17203.49(2) | 17203.48| 17203.56(4) | 1673  |                          |
|       |             |        | 17203.41(3) | 1674  |                          |
|       |             |        | 17203.04    | 1675  | S+ GK-2B (8-11) R1      |
| 7875  | 17202.87(2) | 17202.85| 17202.85(3) | 1676  | T+ 3e-2c (0-0) Q4       |
|       |             |        | 17202.67(3) | 1677  |                          |
|       |             |        | 17202.32(3) | 1678  |                          |
| 7876  | 17202.20(2) | 17202.20| 17202.19(3) | 1679  | T+ 3f-2c (1-1) P9       |
|       |             |        | 17202.10(3) | 1680  |                          |
| 7877  | 17201.42(5) | 17201.35|                   |       |                          |
| 7878  | 17200.91(6) |           |               |       |                          |
| 7879  | 17200.65(3) | 17200.68| 17200.69(2) | 1681  | T- 3f-2c (2-2) P3       |
|       |             |        | 17200.54(3) | 1682  |                          |
| 7880  | 17200.33(3) | 17200.38(4)| 17200.13(5) | 1683  |                          |
|       |             |        |              | 1684  |                          |
| 7881  | 17199.20(7) |           | 17199.83    |       |                          |
| 7882  | 17198.54(4) | 17198.49| 17198.48(3) | 1685  |                          |
| 7883  | 17197.85(10)| 17197.78|                    | 1686  |                          |
| 7884  | 17197.30(3) | 17197.28| 17197.30(2) | 1687  | T+ 3f-2c (3-3) Q7       |
|       |             |        | 17197.14(3) | 1688  |                          |
| 7885  | 17196.87(3) | 17196.88| 17196.87(3) | 1689  |                          |
|       |             |        | 17196.74(5) | 1690  |                          |
| 7886  | 17196.36(2) | 17196.36| 17196.38(2) | 1691  |                          |
|       |             |        |              | 1692  | T+ 3f-2c (3-3) Q6       |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 7887  | 17195.98(5) |       |             | 17196.22(2) | 1693       |
| 7888  | 17195.35(5) | 17195.41 |             |       |            |
| 7889  | 17194.63(2) | 17194.64 | 17194.64(3) | 1694  | T+ 3f-2c (3-3) Q5 |
|       |             | 17194.55 | 17194.49(3) |       | 1695       |
| 7890  | 17194.13(3) | 17194.13 | 17194.09(4) | 1696  | T- 3c-2a (5-4) Q5 |
| 7891  | 17193.54(4) |       |             |       |            |
| 7892  | 17192.98(3) |       |             | 17192.96(4) | 1697       |
| 7893  | 17192.76(3) | 17192.80 | 17192.77(3) | 1698  | T+ 3f-2c (3-3) Q4 |
|       |             | 17192.74 | 17192.61(3) |       | 1699       |
| 7894  | 17192.26(2) | 17192.24 | 17192.28(3) | 1700  | T+ 3f-2c (1-1) P10 |
|       |             |           | 17192.18(4) |       | 1701       |
| 7895  | 17191.59(2) | 17191.59 | 17191.61(4) | 1702  | T- 3f-2c (3-3) Q4 |
|       |             |           | 17191.50(4) |       | 1703       |
|       |             |           | 17191.31(5) |       | 1704       |
| 7896  | 17190.97(2) | 17190.98 | 17190.96(3) | 1705  | T- 3f-2c (3-3) Q7 |
|       |             |           | 17190.81(4) |       | 1706       |
| 7897  | 17190.44(2) | 17190.47 | 17190.46(3) | 1707  | T- 3f-2c (3-3) Q3 |
|       |             |           | 17190.34(4) |       | 1708       |
| 7898  | 17190.02(2) | 17190.05 | 17190.02(3) | 1709  | T- 3f-2c (1-1) P8 |
|       |             |           | 17189.83(4) |       | 1710       |
| 7899  | 17189.52(3) | 17189.56 | 17189.46(3) | 1711  |            |
| 7900  | 17189.29(3) | 17189.35 | 17189.28(3) | 1712  | T- 3f-2c (3-3) Q2 |
|       |             |           | 17189.16(4) |       | 1713       |
| 7901  | 17188.83(5) |       |             |       |            |
| 7902  | 17188.21(2) | 17188.23 | 17188.18(3) | 1714  | T- 3f-2c (3-3) Q8 |
| 7903  | 17187.77(3) | 17187.79 | 17187.82(4) | 1715  |            |
|       |             | 17187.42 | 17187.63(5) |       | 1716       |
|       |             | 17186.92 |             |       |            |
| 7904  | 17186.35(3) | 17186.42 | 17186.35(4) | 1717  | S+ 3E-2B (4-12) R1 |
|       |             |           | 17186.42 | 17186.17(5) | 1718       |
|       |             |           | 17186.42 | 17186.17(5) | 1718       |
| 7905  | 17185.86(3) | 17185.92 | 17185.88(5) | 1719  | S- 3E-2B (0-5) Q3 |
| 7906  | 17185.46(5) |       |             |       |            |
| 7907  | 17184.38(4) | 17184.40 | 17184.40(5) | 1720  |            |
|       |             |           | 17184.23(6) |       | 1721       |
| 7908  | 17183.80(3) | 17183.83 | 17183.79(4) | 1722  |            |
| 7909  | 17183.48(2) | 17183.52 | 17183.54(4) | 1723  | T- 3f-2c (3-3) Q9 |
|       |             |           | 17183.42(4) |       | 1724       |
| 7910  | 17182.98(3) | 17182.96 | 17182.97(5) | 1725  | T+ 3c-2c (0-0) Q3 |
|       |             |           | 17182.83 | 17182.34(4) | 1726       |
| 7911  | 17182.43(3) | 17182.42 |             |       |            |
| $K_1$  | $\nu^{(a)}$  | $\nu$    | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|------|------------|--------|-----------|-------|-----------------------------|
| 7912 | 17182.11(2) | 17182.21 | 17182.11(4) | 1727  | T- 3f-2c (0-0) P14          |
|      |            | 17182.10 | 17181.98(4)|       | 1728                        |
| 7913 | 17181.63(3) | 17181.79 | 17181.77(4)| 1729  | T+ 3b-2a (9-3) R3           |
|      |            | 17181.71 |           |       | 1730                        |
| 7914 | 17181.32(6) | 17181.59(4)|           | 1731  | S 3A-2B (3-12) R2           |
| 7915 | 17180.49(3) | 17180.41 | 17180.41(6)|       | 1732                        |
| 7916 | 17179.23(11)| 17179.27 |           |       | 1733                        |
|      |            | 17178.56 |           |       | 1734                        |
| 7917 | 17177.69(9) | 17177.70 |           |       | 1735                        |
|      |            | 17177.44 |           |       | 1736                        |
| 7918 | 17177.06(2) | 17177.06 | 17177.06(4)| 1732  | T+ 3f-2c (2-2) P4           |
|      |            | 17176.93(4)|           |       | 1733                        |
|      |            | 17176.65(4)|           |       | 1734                        |
| 7919 | 17176.41(2) | 17176.42 | 17176.44(3)| 1735  | T- 3f-2c (2-2) P4           |
|      |            | 17176.28(4)|           |       | 1736                        |
| 7920 | 17175.84(3) | 17175.64 |           |       |                             |
| 7921 | 17175.35(3) | 17175.49 | 17175.36(5)| 1737  |                             |
|      |            | 17175.07 | 17175.12(4)|       | 1738                        |
| 7922 | 17174.94(2) | 17174.95 | 17174.95(4)| 1739  | T- 3e-2c (0-0) R5           |
|      |            | 17174.76(4)|           |       | 1740                        |
| 7923 | 17174.47(3) | 17174.41 | 17174.45(3)| 1741  | T- 3e-2c (0-0) R4           |
| 7924 | 17174.31(3) | 17174.27(3)|           |       | 1742                        |
| 7925 | 17173.76(3) | 17173.82 |           |       |                             |
| 7926 | 17173.05(3) | 17173.26 | 17173.24(7)| 1743  | T+ 3b-2a (9-3) P1           |
|      |            | 17172.89(5)|           |       | 1744                        |
|      |            | 17172.68(6)|           |       | 1745                        |
| 7927 | 17172.49(2) | 17172.52 | 17172.51(4)| 1746  |                             |
|      |            | 17172.45 | 17172.34(4)|       | 1747                        |
|      |            | 17171.36 | 17171.27(4)|       | 1748                        |
|      |            | 17171.04(6)|           |       | 1749                        |
| 7928 | 17170.86(3) | 17170.81(4)|           | 1750  |                             |
| 7929 | 17170.54(3) | 17170.53 | 17170.56(3)| 1751  | T- 3f-2c (1-1) P9           |
|      |            | 17170.53 | 17170.38(4)|       | 1752                        |
|      |            | 17170.53 | 17169.87  |       | 1753                        |
|      |            | 17169.76 |           |       | 1754                        |
| 7930 | 17169.11(3) | 17169.14(3)|           | 1755  | T- 3f-2c (4-4) R2           |
|      |            | 17168.78(4)|           |       | 1756                        |
| 7931 | 17168.90(4) | 17169.03 | 17168.94(3)|       | 1757                        |
| 7932 | 17168.12(3) | 17168.17 | 17168.14(3)|       | 1758                        |
|      |            | 17167.88(4)|           |       | 1759                        |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment          |
|-------|-------------|-------|-------------|-------|---------------------|
| 7933  | 17167.44(3) | 17167.42 | 17167.73(5) | 1758  | T- 3e-2c (0-0) R7   |
|       |             | 17167.42 | 17167.46(4) |       |                     |
|       |             | 17167.29(4) | 1759  |       |                     |
| 7934  | 17166.75(3) | 17166.75 | 17166.72(4) | 1761  |                     |
|       |             |       | 17166.83(5) |       |                     |
| 7935  | 17166.35(3) | 17166.35 | 17166.31(4) | 1763  | S- 3E-2C (3-0) P2   |
|       |             | 17164.84 | 17164.88(6) |       |                     |
| 7936  | 17164.37(2) | 17164.38 | 17164.39(3) | 1765  | T+ 3e-2c (1-1) R3   |
|       |             |       | 17164.26(4) |       |                     |
| 7937  | 17163.53(4) | 17163.33 | 17163.37(5) | 1767  |                     |
| 7938  | 17162.60(2) | 17162.59 | 17162.65(3) | 1768  | T- 3e-2c (0-0) R2   |
|       |             |       | 17162.46(3) |       |                     |
| 7939  | 17161.79(5) | 17161.95 | 17161.77(4) | 1770  |                     |
|       |             | 17161.68 | 17161.55(6) |       |                     |
|       |             | 17161.53 |             |       |                     |
| 7940  | 17160.59(3) | 17160.60 | 17160.64(5) | 1772  | T- 3f-2c (0-0) P15  |
|       |             |       | 17160.49(7) |       |                     |
| 7941  | 17159.96(2) | 17159.96 | 17160.01(3) | 1774  | T- 3e-2c (0-0) R8   |
|       |             |       | 17159.83(4) |       |                     |
|       |             |       | 17159.65(5) |       |                     |
| 7942  | 17159.24(3) | 17159.26 | 17159.22(3) | 1777  | T+ 3f-2c (1-1) P13  |
|       |             | 17158.46 |             |       |                     |
|       |             | 17157.86 |             |       | S+ GK-2B (2-6) R1   |
|       |             | 17157.54(6) |       |       |                     |
| 7943  | 17157.51(3) | 17157.66 | 17157.43 | 1779  | T+ 3e-2c (0-0) Q2   |
|       |             |       | 17157.25(5) |       |                     |
| 7944  | 17156.90(2) | 17156.95 | 17156.93(4) | 1780  |                     |
|       |             | 17156.87 | 17156.74(4) |       |                     |
| 7945  | 17156.56(3) | 17156.56 | 17156.40(4) | 1782  |                     |
|       |             |       | 17155.97 |       |                     |
| 7946  | 17155.60(3) | 17155.66 | 17155.59(4) | 1783  |                     |
|       |             |       | 17155.22 |       |                     |
| 7947  | 17155.103(19) | 17155.14 | 17155.14(4) | 1784  | T+ 3f-2c (2-2) P5   |
|       |             |       | 17155.05(4) |       |                     |
| 7948  | 17153.92(2) | 17153.98 | 17153.97(4) | 1786  |                     |
|       |             |       | 17153.80(5) |       |                     |
| 7949  | 17153.19(2) | 17153.20 | 17153.20(4) | 1788  | T- 3f-2c (2-2) P5   |
| 7950  | 17152.99(3) | 17153.01(4) | 1789  |       |                     |
| 7951  | 17152.27(4) | 17152.24 | 17152.24 |       | S 3A-2B (2-10) P4   |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|-------|-------------|-------|-------------|-------|----------------------------|
| 7952  | 17150.62(2) | 17150.62 | 17150.65(3) | 1790  | T- 3f-2c (1-1) P10         |
|       |             | 17150.62 | 17150.45(4) |       | T- 3e-2c (0-0) R9          |
| 7953  | 17150.34(2) | 17150.27(4) |            | 1791  |                            |
| 7954  | 17150.01(2) | 17150.07 | 17150.03(3) | 1793  | T- 3e-2c (0-0) R1          |
|       |             | 17150.07 |            |       | T+ 3c-2a (4-3) P8          |
|       |             | 17149.91 | 17149.85(4) | 1794  |                            |
| 7955  | 17149.35(4) | 17149.49(6) |            | 1795  |                            |
| 7956  | 17147.70(5) | 17147.72 | 17147.67(4) | 1796  | S- 3E-2B (0-5) Q1          |
| 7957  | 17145.44(3) | 17145.66 | 17145.40(4) | 1797  |                            |
|       |             | 17145.35 |            |       | S+ 3E-2C (3-0) P3          |
|       |             | 17144.80 | 17144.83(6) | 1798  |                            |
| 7958  | 17144.70(2) | 17144.80 | 17144.67(4) | 1799  | S 3A-2B (2-10) P3          |
| 7959  | 17144.15(2) | 17144.17 | 17144.14(3) | 1800  | T- 3f-2c (4-4) R1          |
| 7960  | 17143.89(3) | 17144.11 | 17144.01(4) | 1801  | S 3A-2B (2-10) P1          |
|       |             |            | 17143.82(4) | 1802  |                            |
|       | 17143.31    |            |            |       | S+ EF-2B (32-8) P3         |
|       | 17142.88    |            |            |       |                            |
|       | 17142.61    |            |            |       |                            |
| 7961  | 17141.39(2) | 17141.40 | 17141.38(4) | 1804  |                            |
|       |             | 17140.84 | 17140.70(5) | 1805  |                            |
| 7962  | 17140.40(2) | 17140.39 | 17140.36(4) | 1806  | T+ 3b-2a (9-3) R4          |
| 7963  | 17139.73(4) | 17139.70(6) |            | 1807  |                            |
| 7964  | 17139.38(3) | 17139.35 | 17139.35(7) | 1808  |                            |
| 7965  | 17138.696(19)| 17138.70 | 17138.74(4) | 1809  | T- 3e-2c (0-0) R10         |
|       |             |            | 17138.55(4) | 1810  |                            |
| 7966  | 17138.13(2) | 17138.13 | 17138.11(4) | 1811  | T- 3c-2a (5-4) Q7          |
|       |             |            | 17137.92    |       |                            |
| 7967  | 17137.47(2) | 17137.48 | 17137.47(4) | 1812  |                            |
| 7968  | 17136.90(2) | 17136.94 | 17136.92(4) | 1813  |                            |
| 7969  | 17136.25(3) | 17136.21 | 17136.23(5) | 1814  |                            |
|       |             |            | 17136.04(6) | 1815  |                            |
| 7970  | 17135.72(2) | 17135.70 | 17135.74(5) | 1816  |                            |
|       |             |            | 17135.62(6) | 1817  |                            |
| 7971  | 17135.34(4) | 17135.22(5) |            | 1818  |                            |
| 7972  | 17134.86(2) | 17134.86 | 17134.82(4) | 1820  | T+ 3f-2c (2-2) P6          |
|       |             | 17134.04  |            |       |                            |
| 7973  | 17133.57(3) | 17133.43 | 17133.41(6) | 1821  |                            |
|       |             |            | 17132.61    |       |                            |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|------|-------------|-------|------------|
| 7974  | 17131.71(3) | 17131.73 | 17131.78(2) | 1822  |            |
|       |             |       | 17131.47    | 1823  |            |
| 7975  | 17131.28(3) |       |             |       |            |
| 7976  | 17130.65(2) | 17130.63 | 17130.691(9)| 1824  | T- 3f-2c (2-2) P6 |
| 7977  | 17130.41(3) | 17130.63 | 17130.517(11)| 1825 | T+ 3e-2c (0-0) Q1 |
| 7978  | 17130.01(2) | 17130.01 | 17130.08(2) | 1826  | T- 3f-2c (1-1) P11 |
|       |             |       | 17129.93(2) | 1827  |            |
| 7979  | 17129.71(4) |       |             |       |            |
| 7980  | 17128.97(3) | 17128.97 | 17128.974(15)| 1828 | T+ 3b-2a (9-3) P2 |
| 7981  | 17128.35(2) | 17128.38 | 17128.43(3) | 1829  |            |
|       |             |       | 17128.31(2) | 1830  |            |
| 7982  | 17127.75(3) |       |             |       |            |
| 7983  | 17127.39(2) | 17127.41 | 17127.445(16)| 1832 |            |
|       |             |       | 17127.26(3) | 1833  |            |
| 7984  | 17126.30(3) | 17126.37 | 17126.319(16)| 1834 |            |
| 7985  | 17125.85(2) | 17125.89 | 17125.887(15)| 1835 |            |
|       |             |       | 17125.55    |       |            |
| 7986  | 17125.07(2) | 17125.07 | 17125.117(19)| 1836 | T- 3e-2c (0-0) R11 |
| 7987  | 17124.86(3) | 17124.71 | 17124.95(3) | 1837  |            |
| 7988  | 17123.59(4) | 17123.74 | 17123.66(3) | 1838  |            |
| 7989  | 17123.06(3) | 17123.11 | 17122.90(3) | 1839  |            |
| 7990  | 17122.75(3) |       |             |       |            |
| 7991  | 17122.00(4) | 17122.13 | 17122.13(4) | 1840  |            |
| 7992  | 17121.50(3) | 17121.54 | 17121.56(2) | 1841  |            |
|       |             |       | 17121.09    |       |            |
| 7993  | 17120.71(2) | 17120.71 | 17120.709(12)| 1842 |            |
| 7994  | 17120.28(3) |       |             |       |            |
| 7995  | 17119.53(2) | 17119.52 | 17119.587(19)| 1844 |            |
|       |             |       | 17119.44    | 1845  |            |
| 7996  | 17119.05(4) |       |             |       |            |
| 7997  | 17118.66(5) | 17118.66 | 17118.66    |       | S 3A-2B (3-12) R0 |
|       |             |       | 17118.58    |       |            |
|       |             |       | 17118.37    |       |            |
| 7998  | 17117.95(2) | 17117.98 | 17117.984(10)| 1846 | T+ 3e-2c (1-1) R2 |
|       |             |       | 17117.80(2) | 1847  |            |
| 7999  | 17117.54(3) | 17117.47 | 17117.54(5) | 1848  |            |
| 8000  | 17117.08(3) | 17117.12 | 17117.092(16)| 1849 |            |
| 8001  | 17116.44(3) | 17116.53 | 17116.25(2) | 1850  | S+ 3E-2B (4-12) P3 |
|       |             |       |             |       |            |
| 8002  | 17115.99(2) | 17115.99 | 17115.989(8) | 1851 | T+ 3f-2c (2-2) P7 |
| 8003  | 17115.63(4) |       |             |       |            |
| $K_1$ | $\nu^{(a)}$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------------|-------|------------|
| 8004  | 17115.12(3) | 17115.11    |       |            |
| 8005  | 17114.45(2) | 17114.44    | 1852  |            |
| 8006  | 17114.07(3) | 17114.10    | 1853  |            |
| 8007  | 17113.73(2) | 17113.74    | 1854  |            |
| 8008  | 17113.32(2) | 17113.53    | 1855  |            |
|       |             | 17113.50(2) |       |            |
|       |             | 17113.234(18)| 1856 |            |
| 8009  | 17112.93(2) | 17112.89    | 1857  |            |
| 8010  | 17112.63(4) | 17112.49    | 1858  |            |
| 8011  | 17112.24(3) | 17112.20    | 1859  |            |
|       |             | 17112.184(13)| 1860 |            |
| 8012  | 17111.61(2) | 17111.62    | 1861  |            |
|       |             | 17111.46    |       |            |
| 8013  | 17111.15(3) | 17111.19    | 1862  |            |
| 8014  | 17110.75(3) | 17110.76    | 1863  |            |
| 8015  | 17110.09(4) | 17110.08    |       |            |
| 8016  | 17109.54(2) | 17109.51    | 1864  | T- 3e-2c (0-0) R12 |
| 8017  | 17109.35(4) | 17109.44(2) | 1865  |            |
|       |             | 17109.22(4) | 1866  |            |
| 8018  | 17108.84(2) | 17108.88    | 1867  |            |
| 8019  | 17108.41(2) | 17108.40    | 1868  | T- 3f-2c (2-2) P7 |
|       |             | 17108.432(11)| 1869 |            |
|       |             | 17108.266(17)| 1870 |            |
| 8020  | 17108.05(3) | 17107.87(5) | 1870  |            |
| 8021  | 17107.64(3) | 17107.68    | 1871  |            |
|       |             | 17107.593(17)| 1872 |            |
|       |             | 17107.41    |       |            |
| 8022  | 17107.12(2) | 17107.09    | 1873  | T- 3f-2c (3-3) P3 |
| 8023  | 17106.60(3) | 17107.07(2) | 1873  |            |
| 8024  | 17106.31(2) | 17106.30    | 1874  |            |
|       |             | 17106.328(15)| 1875 |            |
| 8025  | 17105.55(3) | 17105.53    | 1876  |            |
| 8026  | 17104.72(3) | 17104.69    | 1877  |            |
| 8027  | 17104.14(2) | 17104.13    | 1878  | T- 3c-2a (5-4) Q8 |
| 8028  | 17103.26(3) | 17103.23    | 1879  |            |
| 8029  | 17101.99(3) | 17101.99    | 1880  |            |
|       |             | 17102.02(2) | 1881  |            |
|       |             | 17101.86(5) | 1882  |            |
| 8030  | 17101.47(2) | 17101.49    | 1882  | T- 3e-2c (0-0) Q1 |
| 8031  | 17101.16(3) | 17101.17    | 1883  |            |
| 8032  | 17100.51(4) | 17100.65    |       |            |
| 8033  | 17100.00(3) | 17099.96    | 1884  |            |
| 8034  | 17099.78(3) | 17099.907(15)| 1885 |            |
| 8035  | 17099.34(5) | 17099.38(3) | 1885  |            |
| $K_1$ | $\nu^{(a)}$    | $\nu^{(c)}$       | $K_2$   | Assignment                        |
|------|----------------|-------------------|---------|-----------------------------------|
| 8036 | 17098.71(4)    | 17098.80          |         | S 3A-2B (3-12) P1                |
|      |                | 17098.69          |         |                                   |
|      |                | 17098.399(17)     | 1886    |                                   |
| 8037 | 17098.26(2)    | 17098.24          | 17098.236(11) | 1887 T+ 3f-2c (2-2) P8        |
|      |                |                   | 17097.99(2) | 1888                            |
| 8038 | 17097.78(3)    | 17097.64          |         |                                   |
| 8039 | 17097.23(2)    | 17097.23          | 17097.257(9) | 1889                            |
|      |                |                   | 17097.080(13) | 1890                           |
| 8040 | 17096.89(2)    | 17096.91          | 17096.872(12) | 1891                           |
| 8041 | 17096.28(3)    | 17095.82(4)       | 17095.90 | S+ EF-2B (32-8) P5               |
|      |                |                   | 17095.49(4) | 1892                            |
| 8042 | 17095.15(2)    | 17095.15          | 17095.185(10) | 1893                           |
|      |                | 17094.86          | 17094.997(13) | 1894                           |
| 8043 | 17094.74(3)    | 17094.22(2)       | 17094.22(2) | 1895                            |
|      |                | 17094.64(2)       | 17094.22(2) | 1896                            |
| 8044 | 17094.22(2)    | 17094.25          | 17092.32(2) | 1897                            |
| 8045 | 17092.165(15)  | 17092.18          | 17092.14(4) | 1898 T- 3e-2c (0-0) R13         |
|      |                |                   | 17092.08 |                                   |
| 8046 | 17091.75(4)    | 17091.71          | 17091.21(11) | 1899                            |
| 8047 | 17091.063(15)  | 17091.06          | 17091.068(13) | 1900 T- 3f-2c (4-4) Q2       |
| 8048 | 17090.87(3)    | 17090.94(4)       | 17089.86(3) | 1901                            |
| 8049 | 17090.21(3)    | 17090.19          | 17089.723(10) | 1902                           |
| 8050 | 17089.599(14)  | 17089.61          | 17089.597(11) | 1903 T- 3f-2c (4-4) Q3       |
| 8051 | 17089.11(2)    | 17089.09          | 17089.138(18) | 1904 T- 3e-2c (0-0) Q2       |
| 8052 | 17088.69(2)    | 17088.75          | 17088.86(3) | 1905                            |
| 8053 | 17088.06(3)    | 17088.14          | 17088.68(3) | 1906                            |
| 8054 | 17087.959(14)  | 17087.97          | 17088.065(12) | 1907                           |
| 8055 | 17087.354(14)  | 17087.35          | 17087.902(14) | 1908                           |
| 8056 | 17087.354(14)  | 17087.35          | 17087.468(17) | 1909                           |
| 8057 | 17086.756(15)  | 17086.76          | 17086.88(2) | 1910 T- 3f-2c (4-4) Q4       |
| 8058 | 17086.058(14)  | 17086.11          | 17086.88(2) | 1911                            |
| 8059 | 17085.596(16)  | 17085.61          | 17086.75(3) | 1912                            |
|      |                |                   | 17086.171(11) | 1913                           |
| 8060 | 17085.332(10)  |                | 17086.007(13) | 1914                           |
| 8061 | 17085.716(19)  |                | 17085.716(19) | 1915                           |
| 8062 | 17085.53(2)    |                | 17085.33(2) | 1916                            |
| 8063 | 17085.33(2)    |                |         |                                   |
| $K_1$ | $\nu^{(a)}$ | $\nu$       | $\nu^{(c)}$ | $K_2$ | Assignment          |
|-------|-------------|-------------|-------------|-------|---------------------|
| 8060  | 17084.805(16) | 17084.78    | 17084.860(15) | 1918  | T+ 3b-2a (9-3) R5   |
| 8061  | 17084.263(18) | 17084.15    | 17084.312(18) | 1919  |                     |
| 8062  | 17083.950(14) | 17084.00    | 17084.001(11) | 1920  |                     |
| 8063  | 17083.40(3)   | 17083.43    | 17083.870(14) | 1921  | T- 3f-2c (4-4) Q5   |
| 8064  | 17081.948(18) | 17082.009(17) | 17081.670(14) | 1922  |                     |
| 8065  | 17081.510(15) | 17081.518(12) | 17081.306(14) | 1923  | T- 3f-2c (3-3) P4   |
| 8066  | 17081.085(14) | 17081.119(12) | 17080.996(13) | 1924  | T+ 3f-2c (2-2) P9   |
| 8067  | 17080.241(15) | 17080.297(13) | 17080.145(17) | 1925  |                     |
| 8068  | 17078.968(14) | 17078.99    | 17079.016(12) | 1926  | T- 3f-2c (4-4) Q6   |
| 8069  | 17077.48(3)   | 17077.54    | 17077.531(16) | 1927  |                     |
| 8070  | 17076.142(14) | 17076.15    | 17076.202(13) | 1928  |                     |
| 8071  | 17075.504(15) | 17075.52    | 17075.561(16) | 1929  |                     |
| 8072  | 17074.48(3)   | 17074.47    | 17074.487(18) | 1930  |                     |
| 8073  | 17073.43(4)   | 17073.54    | 17073.531(16) | 1931  |                     |
| 8074  | 17072.949(16) | 17072.981(14) | 17072.815(17) | 1932  |                     |
| 8075  | 17072.75(3)   | 17072.89    | 17072.216(12) | 1933  |                     |
| 8076  | 17072.151(14) | 17072.15    | 17072.077(12) | 1934  |                     |
| 8077  | 17071.59(3)   | 17071.29    | 17071.29(3)   | 1935  |                     |
| 8078  | 17071.21(2)   | 17071.17(5) | 17070.786(19) | 1936  |                     |
| 8079  | 17070.76      | 17070.76    | 17070.76      | 1937  |                     |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------------|-------|------------|
| 8079  | 17070.638(15) | 17070.643(15) | 1947 | T+ 3b-2a (7-2) R1 |
|       | 17070.76     |             |       | S- 3E-2C (3-0) P4 |
| 8080  | 17070.44(2) | 17070.463(15) | 1948 | T+ 3e-2c (1-1) Q6 |
|       | 17070.54     |             |       | S 3A-2C (2-0) R1 |
| 8081  | 17069.581(14) | 17069.58    | 1949 | T+ 3e-2c (0-0) P2 |
|       | 17069.600(11) |             |       |             |
| 8082  | 17069.057(14) | 17069.05    | 1950 |             |
|       | 17069.044(10) |             |       |             |
| 8083  | 17068.68(2) | 17068.659(15) | 1951 | T+ 3e-2c (1-1) R1 |
|       | 17068.74     |             |       |             |
| 8084  | 17067.97(2) | 17067.97(2) | 1952 |             |
|       | 17068.05     |             |       |             |
| 8085  | 17067.26(2) | 17067.26(2) | 1953 |             |
|       | 17067.41     |             |       |             |
| 8086  | 17066.823(19) | 17066.79 | 1954 | T+ 3e-2c (0-0) P3 |
|       | 17066.830(12) |             |       |             |
|       | 17066.677(15) |             |       |             |
| 8087  | 17066.28(3) | 17066.13    | 1955 |             |
|       | 17066.135(14) |             |       |             |
| 8088  | 17066.10(2) | 17066.135(14) | 1956 | T+ 3e-2c (0-0) P2 |
|       | 17065.992(17) |             |       |             |
| 8089  | 17065.75(3) | 17065.72    | 1957 |             |
|       | 17065.718(14) |             |       |             |
| 8090  | 17064.90(2) | 17064.89  | 1958 |             |
|       | 17064.887(11) |             |       |             |
| 8091  | 17064.50(7) | 17064.52(3) | 1962 |             |
|       | 17064.26     |             |       |             |
| 8092  | 17064.18(2) | 17064.166(14) | 1963 |             |
|       | 17064.420(16) |             |       |             |
| 8093  | 17063.74(3) | 17063.80 | 1964 |             |
|       | 17063.772(15) |             |       |             |
|       | 17063.80     |             |       |             |
| 8094  | 17063.37(2) | 17063.47  | 1965 |             |
|       | 17063.401(12) |             |       |             |
| 8095  | 17063.08(2) | 17063.13 | 1966 |             |
|       | 17063.184(13) |             |       |             |
| 8096  | 17062.68(2) | 17062.971(18) | 1967 |             |
|       | 17062.737(13) |             |       |             |
| 8097  | 17062.31(2) | 17062.32 | 1968 |             |
|       | 17062.316(11) |             |       |             |
| 8098  | 17061.91(2) | 17061.90 | 1972 |             |
|       | 17061.890(12) |             |       |             |
| 8099  | 17061.49(2) | 17061.35 | 1973 |             |
|       | 17061.484(14) |             |       |             |
| 8100  | 17061.17(3) | 17061.213(14) | 1974 | T+ 3e-2c (0-0) P4 |
|       | 17061.032(18) |             |       |             |
| 8101  | 17060.98(5) | 17061.71(3) | 1975 |             |
| 8102  | 17059.54(2) | 17059.54 | 1976 |             |
|       | 17059.54(3) |             |       |             |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 8103  | 17059.02(7) | 17059.44(3) | 1980        |       |            |
| 8104  | 17058.73(3) | 17058.73   | 17058.72(3) | 1982  |            |
| 8105  | 17058.23(2) | 17058.20   | 17058.26(3) | 1983  |            |
|       |             |           | 17058.12(4) | 1984  |            |
| 8106  | 17057.24(7) | 17057.35   |             |       |            |
| 8107  | 17056.842(19)| 17056.85  | 17056.85(3) | 1985  | T+ 3f-2c (3-3) P5 |
|       |             |           | 17056.77(3) | 1986  |            |
| 8108  | 17056.13(2) | 17056.12   | 17056.12(2) | 1987  | T- 3f-2c (3-3) P5 |
| 8109  | 17055.88(4) | 17055.80   | 17055.96(3) | 1988  |            |
|       |             |           | 17055.28    |       | S+ GK-2B (2-6) P4 |
| 8110  | 17054.63(3) | 17054.72   | 17054.72(3) | 1989  |            |
|       |             |           | 17054.56(4) | 1990  |            |
| 8111  | 17053.97(2) | 17054.02(3)| 17054.02(3)| 1991  |            |
| 8112  | 17053.59(2) | 17053.61   | 17053.58(2) | 1992  |            |
|       |             |           | 17053.47(3) | 1993  |            |
| 8113  | 17053.02(2) | 17052.85   | 17052.99(3) | 1994  |            |
|       |             |           | 17052.70(4) | 1995  |            |
| 8114  | 17052.401(19)| 17052.41  | 17052.42(3) | 1996  | T+ 3e-2c (0-0) P5 |
|       |             |           | 17052.31(3) | 1997  |            |
| 8115  | 17051.93(2) | 17052.07   | 17051.95(3) | 1998  |            |
|       |             |           | 17051.98    |       |            |
| 8116  | 17051.01(2) | 17051.01   | 17051.02(2) | 1999  |            |
|       |             |           | 17050.87(3) | 2000  |            |
| 8117  | 17050.34(2) | 17050.33   | 17050.36(3) | 2001  |            |
|       |             |           | 17050.26(3) | 2002  | T- 3e-2c (0-0) Q4 |
| 8118  | 17048.31(2) | 17048.35   | 17048.39(4) | 2003  |            |
|       |             |           | 17048.25(3) | 2004  |            |
|       |             |           | 17048.01    |       |            |
| 8119  | 17047.46(2) | 17047.37   | 17047.37(2) | 2006  | T+ 3e-2c (1-1) Q4 |
| 8120  | 17047.25(3) | 17047.17(2)| 17047.17(2) | 2007  |            |
| 8121  | 17046.638(19)| 17046.65  | 17046.67(3) | 2008  |            |
|       |             |           | 17046.56(2) | 2009  |            |
|       |             |           | 17045.76    |       |            |
|       |             |           | 17045.18    |       |            |
| 8122  | 17044.07(3) | 17044.04(4)| 17044.04(4) | 2010  |            |
|       |             |           | 17043.91(5) | 2011  |            |
| $K_1$ | $\nu^{(a)}$ | $\nu^{(b)}$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------------|-------------|-------|------------|
| 8123  | 17043.49(2) | 17043.48    | 17043.48(3) | 2012  |            |
| 8124  | 17043.19(4) | 17043.04    | 17043.32(3) | 2013  |            |
| 8125  | 17041.91(2) | 17041.89    | 17041.875(19)| 2014  | T- 3f-2c (5-5) R1 |
| 8126  | 17041.65(2) | 17041.67(2) | 17041.55(3) | 2015  |            |
| 8127  | 17040.94(2) | 17041.00    | 17040.98(3) | 2017  |            |
| 8128  | 17040.47(2) | 17040.48    | 17040.46(2) | 2019  | T- 3e-2c (0-0) P2 |
| 8129  | 17040.08(2) | 17040.00(2) | 17040.27(2) | 2020  |            |
| 8130  | 17039.88(2) | 17039.94    | 17039.82(2) | 2021  |            |
| 8131  | 17039.57(4) | 17039.59    | 17039.56(3) | 2022  |            |
|       |             | 17038.86    | 17038.82(4) |       |            |
|       |             |             | 17038.59(5) | 2024  |            |
| 8132  | 17037.64(2) | 17037.60    | 17037.59(2) | 2025  | T+ 3e-2c (0-0) P6 |
|       |             |             | 17036.82(3) | 2026  |            |
|       |             |             | 17036.58(5) | 2027  |            |
| 8133  | 17036.38(3) | 17036.35(3) | 17036.35(3) | 2028  |            |
| 8134  | 17035.99(4) | 17036.10    | 17036.08(4) | 2029  |            |
|       |             |             | 17035.75    | 2030  |            |
|       |             |             | 17035.82(3) | 2031  |            |
| 8135  | 17035.67(3) | 17035.61    | 17035.63(4) | 2032  |            |
|       |             |             | 17035.28    | 2033  |            |
|       |             |             | 17035.28(4) | 2034  |            |
| 8136  | 17034.99(2) | 17035.01    | 17035.04(4) | 2035  |            |
|       |             |             | 17034.86(4) | 2036  |            |
|       |             |             | 17034.26(3) | 2037  |            |
| 8137  | 17034.33(2) | 17034.27    | 17034.26(3) | 2038  | T- 3f-2c (2-2) P10 |
|       |             |             | 17033.83    | 2039  | S 3A-2C (2-0) R4 |
|       |             |             | 17033.77(4) | 2040  |            |
| 8139  | 17033.35(7) | 17033.30    |             | 2041  |            |
| 8140  | 17032.72(2) | 17032.69    | 17032.72(3) | 2042  |            |
|       |             |             | 17032.63(3) | 2043  | T+ 3f-2c (3-3) P6 |
|       |             |             | 17032.12(2) | 2044  |            |
| 8141  | 17032.11(2) | 17032.22    | 17032.11    | 2045  | T+ 3e-2c (1-1) Q3 |
|       |             |             | 17031.74    | 2046  | S- 4E-2B (0-12) Q1 |
|       |             |             | 17031.40    | 2047  |            |
| 8142  | 17030.90(2) | 17030.89    | 17030.92(2) | 2048  |            |
|       |             |             | 17030.79    | 2049  | T- 3f-2c (3-3) P6 |
|       |             |             | 17030.76(2) | 2050  | S+ GK-2B (2-6) P5 |
| 8143  | 17029.83(4) | 17029.85    | 17029.81(4) | 2051  |            |
|       |             |             | 17029.75    | 2052  |            |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|-------|-------------|-------|-------------|-------|-----------------------------|
| 8144  | 17029.14(2) | 17029.43 | 17029.39(3) | 2046  |                             |
| 8145  | 17028.73(2) | 17028.73 | 17028.68(3) | 2049  |                             |
| 8146  | 17028.31(3) | 17028.34 | 17028.41(4) | 2050  |                             |
|       |             |         | 17028.22(4) | 2051  |                             |
|       |             |         | 17027.56    |       |                             |
| 8147  | 17026.98(2) | 17026.97 | 17026.99(3) | 2052  | T- 3e-2c (1-1) R5          |
| 8148  | 17026.53(3) | 17026.38 | 17026.48(6) | 2054  |                             |
| 8149  | 17025.69(2) | 17025.71 | 17025.70(3) | 2055  | T- 3e-2c (1-1) R6          |
| 8150  | 17025.12(2) | 17025.11 | 17025.13(3) | 2057  | T- 3e-2c (1-1) R4          |
| 8151  | 17024.82(3) | 17024.96(3) | 2058  |                             |
|       |             |         | 17024.68(5) | 2059  |                             |
| 8152  | 17024.01(3) | 17024.00 | 17023.96(5) | 2060  | T- 3e-2c (0-0) Q5          |
| 8153  | 17023.27(3) | 17023.30 | 17023.28(4) | 2061  |                             |
| 8154  | 17022.54(3) | 17022.59 | 17022.56(4) | 2063  | T+ 3a-2c (2-2) R2          |
| 8155  | 17021.56(2) | 17021.60 | 17021.57(4) | 2067  | T- 3e-2c (1-1) R7          |
| 8156  | 17021.10(3) | 17021.10 | 17021.16(4) | 2069  | S 3A-2C (2-0) Q1           |
| 8157  | 17019.73(2) | 17019.71 | 17019.74(3) | 2071  | T- 3e-2c (1-1) R3          |
| 8158  | 17019.52(4) | 17019.71 | 17019.57(4) | 2072  |                             |
|       |             |         | 17018.88    |       |                             |
|       |             |         | 17018.72    |       |                             |
|       |             |         | 17018.54    |       |                             |
|       |             |         | 17018.09    |       |                             |
|       |             |         | 17017.90    |       |                             |
| 8159  | 17017.73(2) | 17017.76 | 17017.85(4) | 2073  | T+ 3e-2c (0-0) P7          |
| 8160  | 17017.25(3) | 17017.26 | 17017.22(3) | 2075  | T- 3c-2a (6-5) Q1          |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|------|-------------|-------|-------------|------|------------|
| 8161 | 17015.61(2) | 17015.62 | 17015.65(4) | 2076 |            |
|      |             | 17015.54 | 17015.51(4) |      |            |
| 8162 | 17014.88(2) | 17014.87 | 17014.91(4) | 2077 |            |
|      |             |         | 17014.82(6) |      |            |
| 8163 | 17014.65(3) | 17014.70(4) | 2078 |            |
| 8164 | 17014.15(4) | 17014.12 | 17013.99(5) | 2079 | T- 3e-2c (1-1) R8 |
| 8165 | 17013.84(2) | 17013.84 | 17013.80(4) | 2080 | T- 3e-2c (1-1) R8 |
|      |             |         | 17013.62     |      |            |
|      |             |         | 17013.28(4) |      |            |
| 8166 | 17012.43(4) | 17012.50 | 17012.45(5) | 2081 |            |
|      |             |         | 17012.39     |      |            |
| 8167 | 17011.69(2) | 17011.46 | 17011.63(4) | 2082 |            |
|      |             |         | 17011.52(5) |      |            |
| 8168 | 17011.22(2) | 17011.28(5) | 2083 |            |
|      |             |         | 17011.08     |      |            |
| 8169 | 17010.37(2) | 17010.36 | 17010.39(3) | 2084 | T+ 3b-2a (7-2) P1 |
| 8170 | 17010.15(3) | 17010.21(3) | 2085 |            |
|      |             |         | 17009.73     |      |            |
| 8171 | 17009.56(3) | 17009.49 | 17009.01(5) | 2086 | S- 3E-2C (3-0) P5 |
| 8172 | 17008.97(2) | 17008.96 | 17009.01(4) | 2087 | T- 3f-2c (4-4) P3 |
|      |             |         | 17008.90(4) |      |            |
| 8173 | 17008.59(2) | 17008.64 | 17008.62(3) | 2088 | T- 3f-2c (4-4) P3 |
| 8174 | 17008.20(2) | 17008.28 | 17008.27(4) | 2089 | T- 3f-2c (4-4) P3 |
|      |             |         | 17008.16     |      |            |
|      |             |         | 17008.06(4) |      |            |
| 8175 | 17007.45(3) | 17007.86(5) | 2090 |            |
|      |             |         | 17007.86(4) |      |            |
| 8176 | 17007.07(3) | 17006.84 | 17007.01(5) | 2091 | T- 3e-2c (1-1) R2 |
| 8177 | 17006.42(2) | 17006.41 | 17006.46(4) | 2092 | T- 3e-2c (1-1) R2 |
|      |             |         | 17006.29(4) |      |            |
| 8178 | 17005.82(2) | 17005.79 | 17005.86(4) | 2093 | T- 3e-2c (1-1) R2 |
|      |             |         | 17005.70(5) |      |            |
| 8179 | 17005.52(2) | 17005.55 | 17005.55(4) | 2094 | T- 3e-2c (1-1) R2 |
|      |             |         | 17005.39(4) |      |            |
| 8180 | 17004.97(2) | 17004.99 | 17004.96(3) | 2095 | T- 3e-2c (1-1) R2 |
| 8181 | 17004.53(2) | 17004.66 | 17004.59(4) | 2096 | T- 3e-2c (1-1) R2 |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 8182  | 17004.08(4) | 17003.85 | 17003.86(6) | 2111  |            |
| 8183  | 17003.67(2) | 17003.70(4) | 17003.54(5) | 2112  |            |
| 8184  | 17003.11(3) | 17003.21 | 17003.16(5) | 2113  |            |
| 8185  | 17002.72(3) | 17002.69 | 17002.70(4) | 2116  |            |
| 8186  | 17001.32(4) | 17001.26 | 17000.50 |       |            |
| 8187  | 16999.81(3) | 16999.81(4) | 16999.63(4) | 2117  |            |
| 8188  | 16999.54(3) | 16999.41 | 16999.47(6) | 2119  |            |
| 8189  | 16998.91(2) | 16998.91 | 16998.92(4) | 2120  | T+ 3b-2a (9-3) P4 |
| 8190  | 16998.49(3) | 16998.55 | 16998.23 |       |            |
| 8191  | 16997.81(2) | 16997.78 | 16997.83(4) | 2121  | T- 3e-2c (0-0) P3 |
| 8192  | 16997.45(2) | 16997.39 | 16997.39(4) | 2122  |            |
| 8193  | 16997.15(4) | 16997.20 |       |       |            |
| 8194  | 16996.57(2) | 16996.58 | 16996.58(3) | 2124  | T- 3e-2c (1-1) R1 |
| 8195  | 16996.31(2) | 16996.38 | 16996.36(4) | 2125  | S 3A-2C (2-0) P1 |
| 8196  | 16995.75(2) | 16995.76 | 16995.75(3) | 2127  | T- 3e-2c (0-0) Q6 |
| 8197  | 16995.04(3) | 16995.25 | 16995.05 | 2128  |            |
| 8198  | 16994.54(2) | 16994.53 | 16994.57(4) | 2129  |            |
| 8199  | 16994.33(3) | 16994.40(4) | 16993.92(9) | 2130  | T- 3e-2c (1-1) R10 |
| 8200  | 16993.91(5) | 16993.95 | 16993.92(9) | 2131  |            |
| 8201  | 16993.50(2) | 16993.54 | 16993.47(4) | 2132  |            |
| 8202  | 16992.97(2) | 16992.98 | 16992.23 |       |            |
| 8203  | 16991.82(2) | 16991.82 | 16991.812(18) | 2133  | T+ 3e-2c (0-0) P8 |
| 8204  | 16991.33(3) | 16991.52 | 16991.47(4) | 2134  | T+ 3a-2c (2-2) R1 |
| 8205  | 16990.74(2) | 16990.68 | 16990.761(17) | 2135  | T+ 3e-2c (1-1) Q1 |
|       |             | 16990.68 | 16990.60(2) | 2136  | T- 3f-2c (5-5) Q2 |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$    | $\nu$     | $\nu^{(c)}$ | $K_2$ | Assignment       |
|-------|----------------|-----------|-------------|-------|------------------|
| 8206  | 16990.56(2)    | 16990.02  | 16990.48(3) | 2138  |                  |
| 8207  | 16989.990(19)  | 16989.85(3) | 2140       |       |                  |
| 8208  | 16989.59(2)    | 16989.65  | 16989.63(3) | 2141  |                  |
| 8209  | 16989.36(3)    | 16989.17  | 16989.45(3) | 2142  |                  |
| 8210  | 16988.27(2)    | 16988.23  | 16988.28(3) | 2143  |                  |
| 8211  | 16987.47(2)    | 16987.45  | 16987.44(2) | 2144  |                  |
| 8212  | 16986.47(3)    | 16986.56  | 16986.43(3) | 2145  |                  |
| 8213  | 16986.15(2)    | 16986.15  | 16986.173(17) | 2146  |                  |
| 8214  | 16985.58(2)    | 16985.72  | 16985.588(19) | 2147  |                  |
| 8215  | 16985.11(2)    | 16985.11  | 16985.12(2) | 2151  | T+ 3f-2c (3-3) P8 |
| 8216  | 16984.45(2)    | 16984.48  | 16984.499(18) | 2152  |                  |
| 8217  | 16984.10(2)    | 16984.09  | 16984.061(18) | 2153  | T- 3f-2c (4-4) P4 |
| 8218  | 16983.43(2)    | 16983.58  | 16983.41(3) | 2154  |                  |
| 8219  | 16982.93(2)    | 16982.93  | 16982.92(3) | 2155  |                  |
| 8220  | 16982.36(4)    | 16982.43  | 16982.34(4) | 2156  |                  |
| 8221  | 16981.79(2)    | 16981.77  | 16981.69(4) | 2157  |                  |
| 8222  | 16981.16(2)    | 16981.15  | 16981.18(2) | 2158  |                  |
| 8223  | 16980.73(2)    | 16980.79  | 16980.99(4) | 2159  |                  |
| 8224  | 16980.18(3)    | 16980.32  | 16980.12   | 2160  |                  |
| 8225  | 16979.706(19)  | 16979.68  | 16979.87(3) | 2161  |                  |
| 8226  | 16979.30(3)    | 16979.14  | 16979.06(3) | 2162  |                  |
| 8227  | 16978.66(2)    | 16978.67  | 16978.655(17) | 2163  | T- 3c-2a (6-5) Q4 |
| 8228  | 16978.36(2)    | 16978.39  | 16978.378(17) | 2164  |                  |
| $K_1$ | $\nu^{(a)}$  | $\nu$  | $\nu^{(c)}$  | $K_2$  | Assignment |
|-------|---------------|-------|---------------|-------|------------|
| 8229  | 16977.96(2)   | 16977.98 | 16977.90(2)   | 2172  |            |
| 8230  | 16977.45(4)   |         | 16977.61(3)   | 2173  |            |
|       |               |         | 16976.99(4)   | 2174  |            |
| 8231  | 16976.70(2)   | 16976.71 | 16976.74(3)   | 2175  |            |
|       |               |         | 16976.62      |       |            |
| 8232  | 16976.25(4)   |         | 16976.36(4)   | 2176  |            |
| 8233  | 16975.68(2)   | 16975.75 | 16975.81(4)   | 2177  |            |
|       |               |         | 16975.52      | 2178  | T+ 3b-2a (7-2) R5 |
|       |               |         | 16974.74      | 2179  |            |
| 8234  | 16974.68(2)   | 16974.59 | 16974.63(5)   | 2180  |            |
|       |               |         | 16974.30      |       |            |
|       |               |         | 16973.96      |       |            |
|       |               |         | 16973.63      |       |            |
| 8235  | 16973.390(19) |         | 16973.39      |       |            |
| 8236  | 16972.87(3)   | 16972.72 | 16972.85(3)   | 2181  |            |
| 8237  | 16971.99(2)   | 16972.08 | 16971.98(5)   | 2182  |            |
|       |               |         | 16971.92      |       |            |
|       |               |         | 16971.54      |       |            |
| 8238  | 16971.06(2)   | 16971.07 | 16971.090(18) | 2183  |            |
| 8239  | 16970.73(4)   | 16970.85 | 16970.89(2)   | 2184  | T+ 3a-2c (3-3) R2 |
| 8240  | 16969.95(2)   | 16969.96 | 16969.961(18) | 2185  | T+ 3b-2a (7-2) P2 |
| 8241  | 16969.47(3)   | 16969.46 | 16969.52(3)   | 2186  |            |
| 8242  | 16969.04(6)   | 16969.25 |         |       |            |
|       |               |         | 16968.86      |       |            |
| 8243  | 16968.542(19) | 16968.51 | 16968.50(3)   | 2188  |            |
| 8244  | 16967.92(3)   | 16967.82 | 16967.84(3)   | 2189  | T+ 3a-2c (4-4) R4 |
| 8245  | 16966.49(4)   | 16966.53 | 16966.62(5)   | 2190  |            |
| 8246  | 16965.84(2)   | 16965.85 | 16965.91(2)   | 2191  |            |
| 8247  | 16965.72(5)   | 16965.77 | 16965.74(2)   | 2192  | T+ 3e-2c (0-0) P9 |
| 8248  | 16965.11(2)   | 16965.10 | 16965.11(3)   | 2193  | T- 3e-2c (0-0) Q7 |
| 8249  | 16964.70(4)   | 16964.71 | 16964.94(5)   | 2194  |            |
| 8250  | 16964.01(5)   | 16963.86 |         |       |            |
| 8251  | 16963.71(2)   | 16963.69 | 16963.70(2)   | 2195  |            |
| 8252  | 16962.79(2)   | 16962.90 | 16962.84(3)   | 2196  |            |
|       |               |         | 16962.80      | 2197  |            |
|       |               |         | 16961.80      |       |            |
| 8253  | 16961.141(19) | 16961.15 | 16961.01(4)   | 2199  |            |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 8254  | 16960.77(4) |       |             |       |            |
| 8255  | 16960.397(18) | 16960.36 | 16960.49(4) | 2200  |            |
| 8256  | 16959.640(15) | 16959.63 | 16959.69(3) | 2201  |            |
| 8257  | 16959.40(3)  |       | 16959.55(3) | 2202  |            |
| 8258  | 16958.84(3)  | 16958.92 |             |       |            |
| 8259  | 16958.401(15) | 16958.43 | 16958.42(2) | 2203  | $T^+ \ 3f-2c \ (3-3) \ P9$ |
| 8260  | 16957.97(3)  | 16957.81 |             |       |            |
| 8261  | 16957.413(15) | 16957.41 | 16957.42(3) | 2204  | $T- \ 3c-2a \ (6-5) \ Q5$ |
| 8262  | 16956.768(17) | 16956.81 | 16956.81(3) | 2205  | $T- \ 3f-2c \ (4-4) \ P5$ |
| 8263  | 16956.57(8)  | 16956.21 | 16956.66(4) | 2206  |            |
| 8264  | 16956.160(15) |        |             |       |            |
| 8265  | 16955.82(5)  | 16955.95 |             |       |            |
| 8266  | 16955.378(15) | 16955.38 | 16955.38(3) | 2207  |            |
|       |              |       | 16953.47    |       |            |
| 8267  | 16952.905(15) | 16952.89 | 16952.85(2) | 2209  | $T- \ 3f-2c \ (3-3) \ P9$ |
| 8268  | 16952.24(2)  |       | 16952.30(4) | 2210  |            |
|       |              |       | 16952.08    |       |            |
|       |              |       | 16950.88    |       |            |
| 8269  | 16950.260(15) | 16950.27 | 16950.30(2) | 2212  | $T- \ 3e-2c \ (0-0) \ P4$ |
|       |              |       |             |       |            |
| 8270  | 16949.686(18) | 16949.67 | 16949.71(3) | 2213  |            |
|       |              |       |             |       |            |
| 8271  | 16949.209(17) | 16949.24 | 16949.23(2) | 2214  |            |
|       |              |       |             |       |            |
| 8272  | 16948.605(17) | 16948.69 | 16948.61(3) | 2215  |            |
|       |              |       |             |       |            |
| 8273  | 16948.219(15) | 16948.22 | 16948.19(2) | 2216  |            |
|       |              |       |             |       |            |
| 8274  | 16947.84(3)  | 16947.96 | 16947.83(3) | 2217  | $S- \ 3E-2C \ (3-0) \ P6$ |
| 8275  | 16947.53(3)  |      | 16947.56(3) | 2218  |            |
| 8276  | 16946.98(2)  | 16946.98 | 16946.81(3) | 2219  | $T- \ 3e-2c \ (1-1) \ Q1$ |
| 8277  | 16946.534(17) | 16946.63 | 16946.59(3) | 2220  |            |
|       |              |       |             |       |            |
| 8278  | 16945.51(2)  | 16945.46 | 16945.52(4) | 2221  |            |
|       |              |       |             |       |            |
| 8279  | 16944.642(17) | 16944.64 | 16944.61(3) | 2222  |            |
|       |              |       |             |       |            |
| 8280  | 16944.248(15) | 16944.24 | 16944.25(2) | 2223  | $T^+ \ 3e-2c \ (2-2) \ R3$ |
|       |              |       | 16944.24    |       |            |
|       |              |       | 16944.15(3) |       | $S \ 3A-2C \ (2-0) \ Q4$ |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 8281  | 16943.84(2) | 16943.73 | 16943.99(3) | 2231  | T+ 3a-2c (3-3) R1 |
| 8282  | 16943.34(4) | 16943.40 | 16943.34(7) | 2233  | |
| 8283  | 16942.537(15)| 16942.53 | 16942.55(2) | 2234  | |
| 8284  | 16941.82(2) | 16941.81 | 16941.87(4) | 2236  | |
| 8285  | 16941.42(4) | 16941.34(3) | 16941.69(5) | 2237  | |
| 8286  | 16941.23(2) | 16941.28 | 16941.16(3) | 2239  | |
| 8287  | 16940.138(15)| 16940.12 | 16940.15(3) | 2240  | T+ 3a-2c (2-2) Q4 |
| 8288  | 16939.65(3) | 16939.58 | 16939.32(6) | 2242  | |
| 8289  | 16938.794(15)| 16938.78 | 16938.80(3) | 2243  | |
| 8290  | 16938.269(15)| 16938.27 | 16938.30(4) | 2245  | |
| 8291  | 16937.577(17)| 16937.53 | 16937.53(3) | 2248  | T+ 3a-2c (2-2) Q3 |
| 8292  | 16937.53 | 16937.35(4) | 2249  | T- 3e-2c (1-1) Q2 |
| 8293  | 16936.57(2) | 16936.51 | 16936.36 | 2247  | S+ WX-2B (0-3) R1 |
| 8294  | 16935.138(16)| 16935.20 | 16935.13(3) | 2252  | T+ 3a-2c (0-0) P10 |
| 8295  | 16934.85(2) | 16934.91 | 16934.88(3) | 2253  | T+ 3a-2c (2-2) Q2 |
| 8296  | 16933.647(15)| 16933.63 | 16933.66(3) | 2254  | |
| 8297  | 16933.13(2) | 16933.10 | 16933.06(3) | 2255  | |
| 8298  | 16932.543(15)| 16932.56 | 16932.54(3) | 2256  | T- 3e-2c (0-0) Q8 |
| 8299  | 16932.106(16)| 16932.09 | 16932.07(3) | 2257  | T- 3c-2a (6-5) Q6 |
| 8300  | 16931.611(15)| 16931.67 | 16931.67(2) | 2258  | T+ 3e-2c (1-1) P2 |
| 8301  | 16931.11(2) | 16931.11 | 16931.49(3) | 2259  | |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-----------|-------|------------|------|------------|
| 8302  | 16930.14(3) | 16930.12 | 16930.00(3) | 2264 |            |
| 8303  | 16929.57(15) | 16929.59 | 16929.60(3) | 2265 |            |
|       |            |        | 16929.44(4) | 2266 |            |
| 8304  | 16929.13(3) |        | 16929.06(4) | 2267 |            |
| 8305  | 16928.95(3) | 16929.00 | 16928.87(4) | 2268 |            |
|       |            |        | 16928.67    | 2269 | T+ 3f-2c (3-3) P10 |
|       |            |        | 16928.44    |      |            |
| 8306  | 16928.358(15) | 16928.37 | 16928.38(3) | 2270 |            |
|       |            |        |             |      |            |
| 8307  | 16927.95(3) |        | 16927.95(3) | 2271 |            |
|       |            |        | 16927.52    |      |            |
| 8308  | 16926.82(4) | 16926.84 | 16926.81(3) | 2272 |            |
|       |            |        | 16926.00    |      |            |
| 8309  | 16925.55(6) |        | 16925.36(4) | 2273 |            |
| 8310  | 16925.10(3) | 16925.09 | 16925.13(3) | 2274 | S- 3E-2B (2-9) Q5 |
|       |            |        | 16924.97(3) | 2275 |            |
| 8311  | 16924.60(4) | 16924.60 | 16924.64(3) | 2276 | T- 3f-2c (3-3) P10 |
| 8312  | 16924.38(4) |        | 16924.49(3) | 2277 |            |
| 8313  | 16923.72(5) | 16923.77 |            |      |            |
| 8314  | 16923.36(4) | 16923.38 | 16923.36(4) | 2278 |            |
|       |            |        |            |      |            |
| 8315  | 16922.34(4) | 16922.49 |            |      |            |
| 8316  | 16921.84(3) | 16921.84 | 16921.85(3) | 2279 | T+ 3e-2c (1-1) P3 |
|       |            |        | 16921.72(3) | 2280 |            |
| 8317  | 16921.17(4) | 16921.17 | 16921.13(3) | 2281 | T+ 3b-2a (7-2) R6 |
|       |            |        | 16920.76(4) | 2282 |            |
| 8318  | 16920.69(4) |        | 16920.61(5) | 2283 |            |
| 8319  | 16920.14(5) |        | 16920.12(3) | 2284 |            |
| 8320  | 16919.76(5) | 16919.80 | 16919.76(3) | 2285 | T+ 3a-2c (4-4) R2 |
|       |            |        | 16919.80    |      | S+ WX-2B (0-3) R2 |
| 8321  | 16919.39(4) | 16919.43 | 16919.44(4) | 2286 |            |
| 8322  | 16918.72(5) | 16918.70 |            |      |            |
| 8323  | 16918.30(4) | 16918.23 | 16918.34(4) | 2287 |            |
| 8324  | 16917.99(5) |        | 16918.00(4) | 2288 |            |
| 8325  | 16917.00(5) | 16916.96 |            |      |            |
| 8326  | 16916.31(4) | 16916.27 | 16916.29(3) | 2289 |            |
| 8327  | 16915.28(3) | 16915.28 | 16915.26(3) | 2290 |            |
|       |            |        | 16915.06    |      |            |
| 8328  | 16914.73(4) | 16914.75 | 16914.74(3) | 2291 | T+ 3b-2a (7-2) P3 |
| 8329  | 16914.24(5) |        | 16914.24(3) | 2292 |            |
| 8330  | 16914.02(4) | 16914.07 | 16914.05(3) | 2293 | S+ WX-2B (0-3) P1 |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment          |
|------|-------------|-------|-------------|------|---------------------|
| 8331 | 16913.45(4) | 16913.44 | 16913.92(4) | 2294 | T+ 3b-2a (9-3) P5   |
|      |             |        | 16913.45(4) | 2295 |                     |
|      |             |        | 16912.78(3) |      |                     |
| 8332 | 16912.73(4) | 16912.68 | 16912.66(3) | 2297 | T+ 3e-2c (1-1) P4   |
|      |             |        | 16912.53(3) |      |                     |
| 8333 | 16912.39(4) |         |             | 2298 |                     |
| 8334 | 16911.98(6) | 16911.73 | 16911.96(3) | 2299 |                     |
| 8335 | 16911.68(4) |         | 16911.72(3) |      |                     |
| 8336 | 16909.44(4) | 16909.43 | 16909.47(3) | 2300 |                     |
|      |             |        | 16909.29(4) |      |                     |
|      |             |        | 16909.23(4) |      |                     |
| 8337 | 16908.91(4) | 16908.92 | 16908.93(4) | 2301 |                     |
| 8338 | 16908.57(6) |         | 16908.73(4) |      |                     |
| 8339 | 16907.38(4) | 16907.37 | 16907.35(3) | 2302 |                     |
|      |             |        | 16906.03    |      |                     |
| 8340 | 16905.421(18)| 16905.41| 16905.45(3) | 2303 |                     |
| 8341 | 16905.12(4) |         | 16905.28(3) |      |                     |
| 8342 | 16904.54(3) | 16904.51 |             | 2304 |                     |
|      |             |        | 16904.00    |      |                     |
| 8343 | 16903.55(2) | 16903.62 | 16903.62(3) | 2305 |                     |
|      |             |        | 16903.34    |      |                     |
|      |             |        | 16902.99(3) |      |                     |
| 8344 | 16902.907(17)|       | 16902.87(3) | 2309 |                     |
| 8345 | 16902.325(19)| 16902.38| 16902.32(3) | 2310 |                     |
|      |             |        | 16901.94(3) |      |                     |
| 8346 | 16901.874(17)| 16901.88| 16901.84(3) | 2311 |                     |
| 8347 | 16901.39(3) |         | 16901.05    | 2312 |                     |
|      |             |        |             |      |                     |
| 8348 | 16900.399(18)| 16900.45| 16900.42(3) | 2313 |                     |
| 8349 | 16899.92(3) | 16900.06 | 16900.06(3) | 2314 |                     |
|      |             |        | 16899.89(4) |      |                     |
|      |             |        | 16899.53    |      |                     |
| 8350 | 16899.11(3) | 16899.12(3)| 16899.12(3)| 2315 | S- 3F-2B (0-6) Q5   |
| 8351 | 16898.93(3) | 16898.91 | 16898.93(3) | 2316 |                     |
| 8352 | 16898.68(2) | 16898.78 | 16898.78(4) | 2317 |                     |
|      |             |        | 16898.64(4) |      |                     |
| 8353 | 16898.27(7) |         |             | 2318 |                     |
| 8354 | 16897.73(2) |         |             | 2319 |                     |
| 8355 | 16897.431(18)| 16897.41| 16897.42(3) | 2320 |                     |
| 8356 | 16896.83(6) |         |             | 2321 |                     |
| 8357 | 16896.260(18)| 16896.26| 16896.28(3) | 2322 |                     |
| 8358 | 16895.750(18)| 16895.82| 16895.78(3) | 2323 |                     |
|      |             |        | 16895.58(5) |      |                     |
|      |             |        | 16895.58(5) |      |                     |
Table II (Continued).

| $K_1$   | $\nu^{(a)}$ | $\nu$      | $\nu^{(c)}$ | $K_2$ | Assignment       |
|---------|--------------|------------|--------------|-------|------------------|
| 8359    | 16895.426(18)| 16895.46  | 16895.39(3)  | 2326  |                  |
| 8360    | 16894.91(4)  |            |              |       |                  |
| 8361    | 16894.540(19)| 16894.55  | 16894.53(3)  | 2327  | T+ 3a-2c (4-4) R1|
| 8362    | 16894.12(2)  | 16894.18  | 16894.12(3)  | 2328  |                  |
| 8363    | 16893.704(17)| 16893.72  | 16893.69(3)  | 2329  | T+ 3d-2c (0-0) R1|
| 8364    | 16893.36(2)  | 16893.43  | 16893.34(3)  | 2330  |                  |
| 8365    | 16892.76(4)  | 16892.84  |              |       |                  |
| 8366    | 16892.27(2)  | 16892.35  |              |       |                  |
| 8367    | 16891.82(2)  | 16891.74  | 16891.79(3)  | 2331  |                  |
| 8368    | 16891.49(5)  | 16891.44  | 16891.43(5)  | 2332  |                  |
| 8369    | 16890.78(5)  | 16890.86  |              |       |                  |
| 8370    | 16890.204(17)| 16890.19  | 16890.22(3)  | 2333  |                  |
|         |              |            | 16890.06(3)  | 2334  |                  |
| 8371    | 16889.81(3)  | 16889.60  |              |       | S- 3E-2C (4-1) R5|
| 8372    | 16889.223(17)| 16889.23  | 16889.25(3)  | 2335  | T- 3e-2c (1-1) P2|
|         |              |            | 16889.07(3)  | 2336  |                  |
| 8373    | 16888.751(17)| 16888.69  | 16888.73(3)  | 2337  | T+ 3a-2c (3-3) Q2|
|         |              | 16888.69   |              |       | T+ 3a-2c (3-3) Q1|
|         |              | 16888.62   | 16888.57(3)  | 2338  | T+ 3a-2c (3-3) Q3|
|         |              |            | 16888.47     |       |                  |
| 8374    | 16888.33(2)  | 16888.39  | 16888.41(4)  | 2339  | T+ 3a-2c (3-3) Q4|
|         |              |            | 16888.23(4)  | 2340  | S+ WX-2B (0-3) P2|
| 8375    | 16887.821(17)| 16887.84  | 16887.86(4)  | 2341  | T+ 3e-2c (1-1) P6|
|         |              |            | 16887.76(3)  | 2342  |                  |
| 8376    | 16887.421(18)| 16887.40  | 16887.41(3)  | 2343  |                  |
| 8377    | 16887.04(2)  | 16887.05  | 16887.09(4)  | 2344  |                  |
|         |              |            | 16886.96     |       |                  |
| 8378    | 16886.67(2)  | 16886.65  | 16886.67(4)  | 2345  |                  |
| 8379    | 16886.51(4)  |            | 16886.50(5)  | 2346  |                  |
| 8380    | 16885.58(2)  | 16885.58  | 16885.61(4)  | 2347  |                  |
|         |              |            | 16885.49(5)  | 2348  |                  |
| 8381    | 16884.58(4)  | 16884.70  |              |       |                  |
| 8382    | 16884.261(18)| 16884.26  | 16884.27(3)  | 2349  |                  |
|         |              |            | 16884.13(4)  | 2350  |                  |
| 8383    | 16883.54(3)  | 16883.63  |              |       |                  |
|         |              |            | 16883.48     |       |                  |
| 8384    | 16882.89(3)  | 16882.97  | 16882.89(5)  | 2351  |                  |
| 8385    | 16882.38(3)  |            | 16882.36(6)  | 2352  |                  |
| 8386    | 16881.97(2)  | 16882.02  |              |       |                  |
| 8387    | 16881.43(2)  | 16881.62  | 16881.39(5)  | 2353  |                  |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                     |
|------|-------------|-------|-------------|-------|-------------------------------|
| 8388 | 16881.078(17) | 16881.06 | 16881.07(3) | 2354  | T+ 3d-2c (0-0) R2            |
| 8389 | 16880.82(3)   | 16880.22 | 16880.91(4) | 2355  |                               |
| 8390 | 16879.68(2)   | 16879.68 | 16879.67(5) | 2356  | T- 3e-2c (1-1) Q5            |
| 8391 | 16879.38(3)   | 16878.21 |             |       |                               |
| 8392 | 16877.08(3)   | 16877.22 | 16877.20(5) | 2357  |                               |
| 8393 | 16876.284(19) | 16876.29 | 16876.31(3) | 2359  | T+ 3a-2c (2-2) P2            |
| 8394 | 16873.98(2)   | 16874.00(3) |       | 2360  |                               |
| 8395 | 16873.76(3)   | 16873.89 | 16873.83(3) | 2361  |                               |
| 8396 | 16873.35(3)   | 16873.47(4) |       | 2362  | S- 3E-2C (4-1) R6            |
| 8397 | 16871.73(3)   | 16871.83 | 16871.79(7) | 2363  |                               |
| 8398 | 16871.235(17) | 16871.24 | 16871.25(3) | 2364  |                               |
| 8399 | 16870.56(3)   | 16870.54 | 16870.56(4) | 2365  |                               |
| 8400 | 16869.992(18) | 16870.03 | 16870.06(4) | 2366  |                               |
| 8401 | 16869.65(2)   | 16869.96 | 16869.96(4) | 2367  | T+ 3e-2c (1-1) P7            |
| 8402 | 16868.42(3)   | 16868.44 | 16868.34(3) | 2368  | S+ 3E-2B (2-9) R1            |
| 8403 | 16868.09(4)   | 16868.12(4) |       | 2369  |                               |
| 8404 | 16867.70      | 16867.70 |             |       |                               |
| 8405 | 16866.81(4)   | 16866.81 | 16866.87(3) | 2370  | T- 3f-2c (4-4) P8            |
| 8406 | 16864.76(3)   | 16864.81 | 16864.79(3) | 2371  | T- 3e-2c (2-2) R5            |
| 8407 | 16864.38(4)   | 16864.52 | 16864.44(3) | 2372  | T+ 3e-2c (2-2) R1            |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 8408  | 16863.99(3) | 16864.08 | 16864.06(3) | 2379  | T- 3e-2c (2-2) R4 |
| 8409  | 16863.77(3) | 16863.88 | 16863.87(3) | 2380  | T+ 3d-2c (0-0) Q1 |
| 8410  | 16863.56(4) | 16863.80 | 16863.66(3) | 2381  | T+ 3d-2c (0-0) Q1 |
|       |             | 16863.66 | 16863.40(4) | 2382  |             |
| 8411  | 16862.96(4) | 16862.96 | 16862.94(4) | 2383  |             |
| 8412  | 16861.18(6) | 16861.16 | 16861.152(18) | 2384  | T+ 3a-2c (3-3) P1 |
| 8413  | 16860.67(4) | 16860.88 | 16860.71(3) | 2385  |             |
| 8414  | 16860.31(3) | 16860.32 | 16860.363(19) | 2387  | T+ 3d-2c (0-0) R3 |
| 8415  | 16859.87(5) | 16860.13 | 16860.12(2) | 2388  |             |
|       |             | 16860.03 | 16859.91(2) | 2389  |             |
| 8416  | 16858.79(5) | 16858.90 | 16858.41(2) | 2390  |             |
| 8417  | 16858.09(3) | 16858.130(19) | 16857.98(2) | 2391  |             |
| 8418  | 16857.79(3) | 16857.89 | 16857.802(17) | 2392  |             |
|       |             | 16857.74 | 16857.690(17) | 2393  |             |
| 8419  | 16857.37(3) | 16857.37 | 16857.409(16) | 2394  | T- 3e-2c (2-2) R8 |
| 8420  | 16857.11(4) | 16856.94 | 16857.230(17) | 2395  |             |
|       |             | 16856.51 |             | 2396  |             |
| 8421  | 16854.76(4) | 16854.81 | 16854.78(2) | 2397  |             |
| 8422  | 16853.63(4) | 16853.67 | 16853.63(3) | 2398  |             |
| 8423  | 16853.08(3) | 16853.06 | 16853.08(2) | 2399  |             |
|       |             | 16852.94(3) |             | 2400  |             |
| 8424  | 16852.56(4) | 16852.57 | 16852.57(2) | 2401  |             |
|       |             | 16852.42(4) |             | 2402  |             |
|       |             | 16852.13 | 16852.14(5) | 2403  |             |
|       |             | 16851.59 | 16851.51(4) | 2404  |             |
| 8425  | 16851.12(5) | 16851.11 | 16850.36 | 2405  |             |
| 8426  | 16849.80(3) | 16849.79 | 16849.805(19) | 2407  |             |
|       |             | 16849.61(2) |             | 2408  |             |
| 8427  | 16849.40(3) | 16849.33 | 16849.410(17) | 2409  |             |
| 8428  | 16849.01(4) | 16848.97 | 16848.94(2) | 2410  |             |
|       |             | 16849.281(16) |             | 2411  |             |
|       |             | 16849.33 |             | 2412  |             |
|       |             | 16849.33 |             | 2413  |             |
| 8428  | 16849.01(4) | 16848.97 | 16848.94(2) | 2414  |             |
|       |             | 16849.281(16) |             | 2415  |             |
|       |             | 16849.33 |             | 2416  |             |
|       |             | 16849.33 |             | 2417  |             |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|--------------|-------|--------------|-------|------------|
| 8429  | 16848.40(3)  | 16848.53 | 16848.59(5) | 2413  | T+ 3e-2c (1-1) P8 |
|       | 16848.45    | 16848.41(3) | 2414  | T+ 3b-2a (7-2) P4 |
|       | 16848.20    | 16848.18(2) | 2415  | S+ 3E-2C (4-1) Q2 |
|       | 16847.56    | 16847.34 | | | |
| 8430  | 16846.89(3)  | 16846.92 | 16846.904(16) | 2416  | T- 3e-2c (2-2) R2 |
|       | 16846.76    | 16846.729(16) | 2417  | | |
| 8431  | 16846.48(4)  | 16846.41(4) | 2418  | | |
| 8432  | 16846.23(3)  | 16846.28 | 16846.27(3) | 2419  | S- 3E-2C (4-1) Q1 |
|       | 16846.07    | 16846.10(3) | 2420  | | |
| 8433  | 16845.67(5)  | 16845.463(18) | 2421  | | |
| 8434  | 16845.07(3)  | 16845.07 | 16845.090(18) | 2422  | | |
|       | 16844.93(2) | 16844.93(2) | 2423  | | |
| 8435  | 16844.49(3)  | 16844.46 | 16844.491(17) | 2424  | T- 3e-2c (0-0) P6 |
|       | 16844.33(2) | 16844.33(2) | 2425  | | |
| 8436  | 16844.18(3)  | 16844.19(3) | 2426  | | |
| 8437  | 16843.85(5)  | 16844.07 | 16844.03(2) | 2427  | S- 3E-2B (2-9) Q3 |
|       | 16843.90    | 16843.90 | 16843.23 | 2428  | | |
| 8438  | 16842.74(4)  | 16842.69 | 16842.728(19) | 2429  | | |
|       | 16842.59(2) | 16842.59(2) | 2430  | T+ 3a-2c (4-4) Q1 |
| 8439  | 16842.10(4)  | 16842.09 | 16842.09(2) | 2431  | | |
|       | 16841.94    | 16841.92(3) | 2432  | T+ 3a-2c (4-4) Q2 |
| 8440  | 16841.49(3)  | 16841.53 | 16841.512(18) | 2433  | | |
|       | 16841.39    | 16841.35(2) | 2434  | | |
| 8441  | 16840.84(3)  | 16840.85 | 16840.850(19) | 2435  | T+ 3a-2c (4-4) Q3 |
| 8442  | 16840.55(4)  | 16840.56 | 16840.611(19) | 2436  | | |
| 8443  | 16840.24(5)  | 16840.40 | 16840.41(2) | 2437  | | |
|       | 16839.94    | 16839.94 | 16839.52(3) | 2438  | | |
| 8444  | 16839.52(3)  | 16839.58 | 16839.477(19) | 2439  | T+ 3a-2c (4-4) Q4 |
|       | 16839.24(2) | 16839.24(2) | 2440  | | |
| 8445  | 16839.21(3)  | 16839.17 | 16839.15(3) | 2441  | T+ 3e-2c (2-2) Q5 |
|       | 16839.17    | 16839.03(3) | 2442  | | |
| 8446  | 16838.87(3)  | 16838.83(2) | 2443  | T+ 3a-2c (4-4) Q5 |
|       | 16838.37    | 16838.37 | 16838.03(3) | 2444  | | |
| 8447  | 16838.03(3)  | 16838.04 | 16838.02(3) | 2445  | | |
| 8448  | 16837.23(3)  | 16837.23 | 16837.21(3) | 2446  | | |
| 8449  | 16836.13(3)  | 16836.14 | 16836.15(3) | 2447  | | |
|       | 16836.00(4) | 16836.00(4) | 2448  | | |
| \( K_1 \) | \( \nu^{(a)} \) | \( \nu \) | \( \nu^{(c)} \) | \( K_2 \) | Assignment |
|---|---|---|---|---|---|
| 8450 | 16835.75(3) | 16835.73 | 16835.73(2) | 2446 |  |
| 8451 | 16835.25(3) | 16835.24 | 16834.82 |  |  |
| 8452 | 16834.49(3) | 16834.45(3) | 2447 |  | T+ 3d-2c (0-0) R4 |
| 8453 | 16834.21(2) | 16834.19 | 16834.24(2) | 2448 |  |
| 8454 | 16833.76(4) | 16833.66 | 16833.67(2) | 2450 | T+ 3a-2c (3-3) P2 |
| 8455 | 16833.30(2) | 16833.35 | 16833.351(18) | 2451 |  |
| 8456 | 16832.69(2) | 16832.67 | 16832.709(16) | 2452 |  |
| 8457 | 16832.32(3) | 16832.25 | 16832.211(17) | 2453 |  |
| 8458 | 16832.09(3) | 16832.06 | 16832.016(18) | 2454 |  |
| 8459 | 16831.26(3) | 16831.25 | 16831.293(18) | 2455 |  |
| 8460 | 16830.96(4) | 16831.10(2) | 16832.709(16) | 2456 | T+ 3d-2c (0-0) Q2 |
| 8461 | 16830.56(3) | 16830.67 | 16830.61(3) | 2457 |  |
| 8462 | 16830.06(3) | 16830.09 | 16830.03(3) | 2458 |  |
| 8463 | 16829.36(5) | 16829.17(5) | 16829.89(3) | 2459 |  |
| 8464 | 16828.93(3) |  | 16827.83 | 2460 | T+ 3e-2c (2-2) Q4 |
| 8465 | 16827.11(5) |  | 16827.52 | 2461 |  |
| 8466 | 16826.91(3) | 16826.98 | 16826.91(4) | 2462 |  |
| 8467 | 16826.44(3) | 16826.48 | 16826.44(5) | 2463 |  |
| 8468 | 16826.04(3) | 16826.04 | 16826.01(5) | 2464 |  |
| 8469 | 16825.51(3) | 16825.54 | 16826.30(6) | 2465 | T- 3e-2c (0-0) Q11 |
| 8470 | 16825.12(3) | 16825.12 | 16825.04(5) | 2466 |  |
| 8471 | 16824.33(3) | 16824.29 | 16824.24(6) | 2467 |  |
| 8472 | 16823.37(3) | 16823.39 | 16823.34(5) | 2468 |  |
| 8473 | 16822.90(5) | 16822.91(5) | 16822.91(5) | 2469 | S+ EF-2B (18-1) P3 |
| 8474 | 16822.69(3) | 16822.69 | 16822.68(5) | 2470 |  |
| 8475 | 16822.04(2) | 16822.05 | 16822.04(4) | 2471 |  |
| 8476 | 16820.21(2) | 16820.20 | 16820.23(4) | 2472 |  |
| 8477 | 16820.21(2) | 16820.20 | 16821.04 | 2473 |  |
| 8478 | 16820.21(2) | 16820.20 | 16820.23(4) | 2474 |  |
| 8479 | 16820.21(2) | 16820.20 | 16821.04 | 2475 |  |
| 8480 | 16820.21(2) | 16820.20 | 16821.04 | 2476 |  |
| 8481 | 16820.21(2) | 16820.20 | 16821.04 | 2477 |  |
| $K_1$  | $\nu^{(a)}$ | $\nu^{(c)}$ | $K_2$     | Assignment       |
|--------|-------------|-------------|-----------|------------------|
| 8477   | 16818.68(3) | 16818.64    | 16820.11(4) | 2478             |
|        | 16818.64    | 16818.67(5) | 2479       |                  |
|        | 16818.28    | 16818.54(6) | 2480       | S- 3F-2B (0-6) Q4|
|        | 16818.04    |             |            |                  |
|        | 16817.67    |             |            |                  |
|        | 16817.27    |             |            |                  |
|        | 16817.27    |             |            | S- 3E-2B (2-9) Q2|
|        | 16817.27    |             |            | S+ EF-2B (29-7) R1|
| 8478   | 16817.00(3) | 16816.67    | 16816.28   |                  |
|        | 16814.66    | 16814.62(6) | 2483       | T+ 3b-2a (9-3) P6|
|        | 16814.29    |             |            |                  |
|        | 16813.80    |             |            |                  |
|        | 16813.59    |             |            |                  |
| 8481   | 16813.23(5) | 16813.36    |           |                  |
| 8482   | 16812.70(3) | 16812.70    | 16812.73(6) | 2484             |
|        | 16812.70    | 16812.59(6) | 2485       |                  |
|        | 16811.76(2) | 16811.76    | 16811.76(5) | 2486             |
|        | 16811.76    | 16811.59(5) | 2487       |                  |
|        | 16810.98    |             |            |                  |
| 8485   | 16810.26(7) | 16809.89    |           |                  |
| 8486   | 16809.31(3) | 16809.31    | 16809.30(4) | 2488             |
| 8487   | 16808.73(5) | 16808.59    |           |                  |
| 8488   | 16807.67(5) | 16807.86    | 16807.72   | T+ 3e-2c (2-2) Q2|
|        |             | 16807.31(5) | 2489       |                  |
| 8489   | 16807.20(3) | 16807.16    | 16807.16(4) | 2490             |
| 8490   | 16806.74(3) | 16806.71(6) | 16806.34   | 2491             |
|        |             | 16806.39(5) | 2492       | T+ 3a-2c (3-3) P3|
| 8491   | 16806.28(3) | 16806.20    | 16806.26(5) | 2493             |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 8492  | 16806.09(4) |       | 16806.09(6)| 2494  |            |
| 8493  | 16805.73(4) | 16805.76 | 16805.81(5)| 2495  |            |
|       |             | 16805.65 | 16805.63(7)| 2496  |            |
| 8494  | 16805.18(2) | 16805.15 | 16805.22(4)| 2497  | T- 3e-2c (1-1) P4 |
|       |             |         | 16805.05(4)| 2498  |            |
| 8495  | 16804.88(3) | 16804.78 | 16804.75(7)| 2499  |            |
|       |             |         | 16804.53(7)| 2500  |            |
| 8496  | 16804.31(2) | 16804.29 | 16804.27(4)| 2502  | T+ 3d-2c (0-0) R5 |
| 8497  | 16803.72(3) |       | 16803.70(4)| 2503  |            |
| 8498  | 16803.40(4) | 16803.46 | 16803.53(5)| 2504  |            |
| 8499  | 16802.80(3) | 16802.82 | 16802.84(4)| 2505  | T+ 3d-2c (0-0) P2 |
|       |             |         | 16802.66(5)| 2506  |            |
| 8500  | 16801.494(19)| 16801.52 | 16801.57(5)| 2507  |            |
|       |             |         | 16801.44(7)| 2508  |            |
| 8501  | 16800.78(3) |       | 16800.84(4)| 2509  |            |
|       |             |         | 16800.66(5)| 2510  |            |
| 8502  | 16800.41(5) |       |             |       |            |
| 8503  | 16800.01(3) | 16799.99 | 16800.04(5)| 2511  | T+ 3a-2c (2-2) P5 |
|       |             |         | 16799.85(7)| 2512  |            |
| 8504  | 16799.70(3) | 16799.71 | 16799.71(6)| 2513  | S- 3E-2B (2-9) Q1 |
| 8505  | 16799.04(3) | 16799.07 |             |       |            |
| 8506  | 16798.57(2) | 16798.60 | 16798.62(3)| 2514  |            |
|       |             |         | 16798.51(6)| 2515  |            |
| 8507  | 16797.48(3) | 16797.70 |             |       |            |
|       |             |         | 16797.41(4)| 2516  |            |
| 8508  | 16797.038(18)| 16797.06 | 16797.04(2)| 2517  |            |
| 8509  | 16796.40(2) | 16796.37 | 16796.35(2)| 2518  | S+ WX-2B (0-3) P4 |
| 8510  | 16796.15(3) | 16796.17 | 16796.12(3)| 2519  |            |
| 8511  | 16795.87(4) |       | 16795.89(5)| 2520  |            |
| 8512  | 16795.271(19)| 16795.30 | 16795.28(3)| 2521  |            |
| 8513  | 16794.94(3) |       | 16795.04(4)| 2522  |            |
|       |             |         | 16794.86   | 2523  | S+ 3E-2B (2-9) P3 |
| 8514  | 16794.49(2) | 16794.45 | 16794.52(4)| 2524  | T- 3e-2c (1-1) Q8 |
| 8515  | 16793.97(3) |       | 16794.05(3)| 2525  |            |
| 8516  | 16793.79(3) | 16793.80 | 16793.87(3)| 2526  |            |
| 8517  | 16793.189(19)| 16793.19 | 16793.19(4)| 2527  | T+ 3c-2a (0-0) R7 |
|       |             |         | 16793.08(3)| 2528  |            |
| 8518  | 16792.34(3) | 16792.46 |       |       |            |
|       |             |         | 16792.29   |       |            |
Table II (Continued).

| $K_1$  | $\nu^{(a)}$       | $\nu$        | $\nu^{(c)}$       | $K_2$  | Assignment                                      |
|--------|--------------------|--------------|--------------------|--------|------------------------------------------------|
| 8519   | 16791.828(18)      | 16791.84     | 16791.83(2)       | 2529   | T+ 3c-2a (0-0) R6                              |
| 8520   | 16791.51(2)        | 16791.55     | 16791.53(2)       | 2530   | T+ 3e-2c (3-3) R4                              |
|        |                    | 16791.55     |                    |        | S+ EF-2B (29-7) R4                             |
| 8521   | 16790.81(3)        | 16790.72     | 16790.86(3)       | 2531   |                                                 |
| 8522   | 16790.265(18)      | 16790.26     | 16790.25(3)       | 2532   | T+ 3c-2a (0-0) R8                              |
|        |                    | 16790.09(15) |                    |        |                                                 |
| 8523   | 16789.84(2)        | 16789.82     | 16789.86(2)       | 2534   | T+ 3d-2c (0-0) Q3                              |
|        |                    | 16789.82     |                    |        | T- 3e-2c (0-0) Q12                             |
| 8524   | 16789.61(3)        | 16789.69     | 16789.66(2)       | 2535   |                                                 |
|        |                    | 16789.33     |                    |        |                                                 |
| 8525   | 16789.00(3)        | 16788.92     | 16788.91(2)       | 2536   | S 3A-2C (2-0) P5                               |
|        |                    | 16788.35     |                    |        |                                                 |
| 8526   | 16787.89(2)        | 16787.90     | 16787.92(3)       | 2537   | T- 3e-2c (0-0) P7                               |
|        |                    | 16787.77(3)  |                    |        |                                                 |
| 8527   | 16786.92(3)        | 16786.88     | 16786.85(3)       | 2539   |                                                 |
|        |                    | 16786.53(3)  |                    |        |                                                 |
| 8528   | 16786.224(18)      | 16786.20     | 16786.20(2)       | 2541   | T+ 3c-2a (0-0) R5                              |
| 8529   | 16785.67(2)        | 16785.67     | 16785.66(2)       | 2542   | T- 3c-2a (7-6) Q1                              |
|        |                    | 16785.43     |                    |        |                                                 |
|        |                    | 16784.98     | 16785.05(3)       | 2543   |                                                 |
| 8530   | 16784.95(2)        | 16784.90(3)  |                    | 2544   |                                                 |
| 8531   | 16784.497(19)      | 16784.48     | 16784.47(2)       | 2545   | T- 3e-2c (2-2) Q1                              |
| 8532   | 16784.13(3)        | 16784.20     | 16784.13(2)       | 2546   | S- 3E-2C (4-1) Q4                              |
|        |                    | 16783.58     |                    |        |                                                 |
| 8533   | 16782.99(2)        | 16783.01     | 16782.96(3)       | 2547   | T+ 3c-2a (0-0) R9                              |
| 8534   | 16782.14(3)        | 16782.12     | 16782.12(3)       | 2548   |                                                 |
|        |                    | 16781.19     |                    |        |                                                 |
|        |                    | 16780.22     | 16779.97(3)       | 2549   |                                                 |
| 8535   | 16779.75(5)        | 16779.80     |                    |        |                                                 |
| 8536   | 16779.17(2)        | 16779.23     | 16779.27(4)       | 2550   | T+ 3a-2c (3-3) P4                              |
|        |                    | 16779.12(4)  |                    | 2551   |                                                 |
| 8537   | 16777.77(2)        | 16777.79     | 16777.65(3)       | 2552   |                                                 |
|        |                    | 16777.49(3)  |                    | 2553   |                                                 |
| 8538   | 16777.28(2)        | 16777.27     | 16777.28(2)       | 2554   | T- 3c-2a (7-6) Q2                              |
|        |                    | 16777.09(4)  |                    | 2555   |                                                 |
| 8539   | 16777.03(2)        | 16776.99     | 16776.97(3)       | 2556   |                                                 |
| 8540   | 16776.79(4)        | 16776.36     | 16776.37(2)       | 2557   | T+ 3c-2a (0-0) R4                              |
| 8541   | 16776.372(18)      | 16776.36     |                    |        |                                                 |
| 8542   | 16775.97(3)        | 16776.14(4)  |                    | 2558   |                                                 |
| 8543   | 16775.44(3)        | 16775.51     | 16775.46(4)       | 2559   |                                                 |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 8544  | 16775.17(2) | 16775.19 | 16775.21(2) | 2560  | T- 3e-2c (2-2) Q2  |
|       |             |        | 16775.02(3) |       |             |
|       |             |        | 16774.65(3) |       |             |
| 8545  | 16774.585(19)| 16774.51 | 16774.54(3) | 2563  |             |
|       |             |        | 16774.26(4) |       |             |
| 8546  | 16774.00(3) |        |             |       |             |
| 8547  | 16772.62(2) | 16772.65 | 16772.67(4) | 2565  |             |
| 8548  | 16772.13(3) | 16772.11 |            |       |             |
|       |             |        | 16771.66(3) |       |             |
| 8549  | 16771.592(18)| 16771.58 | 16771.57(2) | 2567  | T+ 3d-2c (0-0) R6 |
| 8550  | 16770.924(18)| 16770.92 | 16770.93(2) | 2568  | S+ 3C-2A (0-0) R10 |
| 8551  | 16770.47(3) | 16770.56 | 16769.99    |       |             |
|       |             |        |             |       |             |
| 8552  | 16769.37(2) | 16769.37 | 16769.38(3) | 2569  | T+ 3b-2a (7-2) P5 |
| 8553  | 16768.90(4) |        | 16769.10(3) | 2570  |             |
|       |             |        | 16768.65(2) |       |             |
| 8554  | 16768.53(3) |        | 16768.47(3) | 2571  |             |
|       |             |        | 16768.06(3) |       |             |
| 8555  | 16767.97(18)| 16767.99 | 16767.97(3) | 2574  |             |
|       |             |        | 16767.09    |       |             |
|       |             |        | 16766.42    |       |             |
| 8556  | 16765.83(4) | 16765.86 | 16765.82(4) | 2575  |             |
|       |             |        | 16765.23(6) |       |             |
| 8557  | 16764.70(3) | 16764.72 | 16764.70(3) | 2577  | T- 3c-2a (7-6) Q3 |
| 8558  | 16764.05(3) | 16764.03 | 16764.10(5) | 2578  |             |
|       |             |        | 16763.93(5) |       |             |
| 8559  | 16763.44(5) | 16763.35 |            |       |             |
| 8560  | 16762.87(5) | 16762.90 |            |       |             |
| 8561  | 16762.30(3) | 16762.32 | 16762.30(2) | 2580  | T+ 3c-2a (0-0) R3 |
| 8562  | 16761.99(4) | 16761.98 | 16762.03(3) | 2581  | T- 3e-2c (1-1) Q9 |
|       |             |        | 16761.98    |       |             |
|       |             |        | 16761.92(3) |       |             |
| 8563  | 16761.61(4) | 16761.46 | 16761.62(3) | 2582  |             |
| 8564  | 16761.14(5) | 16760.90 |            |       |             |
| 8565  | 16759.46(5) |        | 16759.48(3) | 2584  |             |
| 8566  | 16759.15(4) | 16759.17 | 16759.13(2) | 2585  |             |
| 8567  | 16758.59(5) | 16758.46 |            |       |             |
| 8568  | 16757.99(5) |            |            |       |             |
| 8569  | 16757.77(4) | 16757.77 | 16757.82(4) | 2586  |             |
| 8570  | 16757.29(4) | 16757.26 | 16757.28(2) | 2587  | S+ 3E-2C (4-1) P3 |
| 8571  | 16757.12(5) | 16757.26 | 16757.11(3) | 2588  | T- 3e-2e (1-1) P5 |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$   | $\nu^{(c)}$ | $K_2$ | Assignment                        |
|-------|-------------|---------|-------------|-------|-----------------------------------|
| 8572  | 16756.82(4) | 16756.80| 16756.83(3) | 2589  | T+ 3e-2c (3-3) R3                |
| 8573  | 16756.59(4) | 16756.80| 16756.72(3) | 2590  | S+ EF-2B (29-7) R5               |
|       |             |         | 16756.54(4) |       |                                   |
| 8574  | 16756.16(5) | 16755.94|             |       | T+ 3c-2a (0-0) R11               |
| 8575  | 16755.37(4) | 16755.37| 16755.83(3) | 2592  |                                   |
|       |             |         | 16755.25(4) |       |                                   |
| 8576  | 16754.90(4) | 16754.90|             |       |                                   |
| 8577  | 16753.53(4) | 16753.51| 16753.40(4) | 2594  |                                   |
| 8578  | 16752.95(4) | 16752.92| 16752.92(2) | 2595  |                                   |
| 8579  | 16752.52(3) | 16752.47| 16752.50(3) | 2596  | T+ 3a-2c (3-3) P5                |
| 8580  | 16751.94(6) | 16751.86| 16751.86(4) | 2597  |                                   |
| 8581  | 16751.70(4) | 16751.67| 16751.66(4) | 2598  |                                   |
| 8582  | 16750.82(4) | 16750.81| 16750.81(3) | 2599  |                                   |
| 8583  | 16750.23(4) | 16750.23|             |       |                                   |
| 8584  | 16749.74(4) | 16749.71| 16749.77(3) | 2600  | S- 4E-2C (1-2) R3                |
|       |             |         | 16749.71    |       | S- 4E-2C (1-2) R5                |
|       |             |         | 16749.71    |       | S- 4E-2C (0-1) Q1                |
| 8585  | 16749.31(4) | 16749.20|             |       |                                   |
| 8586  | 16748.43(7) | 16748.63|             |       |                                   |
| 8587  | 16748.11(4) | 16748.18| 16748.23(5) | 2602  | T- 3c-2a (7-6) Q4                |
|       |             |         | 16748.06    |       |                                   |
| 8588  | 16746.95(4) | 16746.97| 16746.94(4) | 2604  |                                   |
| 8589  | 16745.23(6) | 16745.05|             |       |                                   |
| 8590  | 16744.70(4) | 16744.74|             |       |                                   |
| 8591  | 16744.19(3) | 16744.14| 16744.18(2) | 2605  | T- 3e-2c (2-2) Q4                |
|       |             |         | 16744.14    |       | T+ 3c-2a (0-0) R2                |
| 8592  | 16743.70(5) |             |             |       |                                   |
|       |             |         | 16743.28    |       |                                   |
|       |             |         | 16742.90    |       |                                   |
| 8593  | 16742.54(2) | 16742.55| 16742.57(4) | 2606  |                                   |
| 8594  | 16742.15(2) | 16742.16| 16742.22(3) | 2607  |                                   |
|       |             |         | 16741.87    |       |                                   |
| 8595  | 16741.453(19)| 16741.46| 16741.48(3) | 2609  | T+ 3d-2c (0-0) P3                |
| 8596  | 16740.78(3) | 16740.79| 16740.79(5) | 2610  |                                   |
| 8597  | 16739.98(4) | 16740.08|             |       |                                   |
| 8598  | 16739.522(18)| 16739.61| 16739.57(3) | 2611  |                                   |
|       |             |         | 16739.36(3) |       |                                   |
| 8599  | 16739.224(19)| 16739.26| 16739.24(3) | 2612  | T+ 3d-2c (0-0) Q4                |
| 8600  | 16738.98(2) | 16739.16| 16739.02(2) | 2613  | S+ GK-2B (4-8) R2                |
| 8601  | 16738.66(3) | 16738.89| 16738.81(3) | 2614  | T- 3e-2c (1-1) Q11               |
|       |             |         | 16738.89    |       | S- 3F-2B (2-10) Q5               |
Table II (Continued).

| $K_1$  | $\nu^{(a)}$ | $\nu$    | $\nu^{(c)}$ | $K_2$ | Assignment               |
|--------|-------------|----------|-------------|-------|--------------------------|
| 8602   | 16738.15(4) | 16738.35 |             |       |                          |
| 8603   | 16737.33(3) | 16737.32 | 16737.31(4) | 2616  |                          |
| 8604   | 16737.09(3) | 16737.22 | 16737.06(4) | 2617  |                          |
|        |             |          | 16736.72(4) | 2618  |                          |
| 8605   | 16736.611(16)| 16736.62| 16736.63(3) | 2619  | T+ 3d-2c (0-0) R7       |
| 8606   | 16736.12(3) |          |             |       |                          |
| 8607   | 16735.57(3) | 16735.76 |             |       |                          |
|        |             |          | 16735.50    |       |                          |
| 8608   | 16734.92(2) | 16734.96 | 16734.95(3) | 2620  | T+ 3a-2c (4-4) P4       |
|        |             |          | 16734.73(4) | 2621  |                          |
|        |             |          | 16734.01    |       | S+ 3F-2B (2-10) P7      |
| 8609   | 16732.79(3) | 16732.79 | 16732.77(4) | 2622  | S+ 3F-2B (0-6) R1       |
| 8610   | 16732.16(4) |          |             |       |                          |
| 8611   | 16731.83(3) | 16731.89 | 16731.61    |       |                          |
|        |             |          | 16731.35    |       |                          |
| 8612   | 16731.11(3) | 16731.17 | 16730.88    |       |                          |
| 8613   | 16730.32(5) | 16730.52(4)|           | 2623  |                          |
| 8614   | 16729.751(19)| 16729.74| 16729.77(4) | 2624  | T- 3e-2c (0-0) P8       |
| 8615   | 16729.57(2) | 16729.36 | 16729.61(4) | 2625  |                          |
| 8616   | 16729.02(2) | 16729.04 | 16729.01(3) | 2626  |                          |
| 8617   | 16728.66(4) | 16728.77 | 16728.70(5) | 2627  |                          |
|        |             |          | 16728.69    |       |                          |
| 8618   | 16728.23(2) | 16728.25 | 16728.20(4) | 2628  |                          |
| 8619   | 16727.95(6) | 16728.01 |            |       |                          |
| 8620   | 16727.516(19)| 16727.50| 16727.52(3) | 2629  | T- 3e-2c (2-2) P2       |
|        |             |          | 16727.50    |       | T- 3c-2a (7-6) Q5       |
| 8621   | 16727.35(2) | 16727.34(3)|          | 2630  |                          |
| 8622   | 16726.74(3) | 16726.90 |            |       |                          |
| 8623   | 16726.45(4) | 16726.58 |            |       |                          |
| 8624   | 16725.88(3) | 16725.93 |            |       |                          |
| 8625   | 16725.50(6) | 16725.50 | 16725.34(4) | 2631  |                          |
| 8626   | 16725.27(2) | 16725.23(4)|          | 2632  |                          |
| 8627   | 16724.72(3) | 16724.69(3)|          | 2633  |                          |
| 8628   | 16724.48(4) | 16724.51(3)|          | 2634  |                          |
| 8629   | 16723.91(2) | 16723.94 |            |       |                          |
| 8630   | 16723.33(2) | 16723.25 | 16723.24(3) | 2635  | T- 3e-2c (2-2) Q5       |
| 8631   | 16723.11(2) | 16723.15(4)|          | 2636  |                          |
Table II (Continued).

| $K_1$  | $\nu^{(a)}$          | $\nu$     | $\nu^{(c)}$          | $K_2$  | Assignment               |
|--------|----------------------|-----------|----------------------|--------|--------------------------|
| 8632   | 16722.575(16)        | 16722.58  | 16722.59(3)          | 2637   | T+ 3e-2c (2-2) P3       |
|        |                      |           | 16722.48(3)          |        |                          |
| 8633   | 16721.984(16)        | 16721.97  | 16721.97(3)          | 2639   | T+ 3c-2a (0-0) R1       |
| 8634   | 16721.44(3)          |           |                      |        |                          |
| 8635   | 16720.994(19)        | 16721.03  | 16721.03(4)          | 2640   |                          |
|        |                      |           | 16720.88(5)          |        |                          |
| 8636   | 16720.56(3)          |           | 16720.44(4)          | 2641   |                          |
| 8637   | 16720.319(17)        | 16720.32  | 16720.29(3)          | 2643   | T+ 3d-2c (1-1) R1       |
| 8638   | 16719.92(2)          | 16720.03  | 16719.94(3)          | 2644   |                          |
| 8639   | 16719.653(19)        | 16719.67  | 16719.67(3)          | 2645   | T+ 3e-2c (3-3) R2       |
| 8640   | 16719.34(4)          |           | 16719.52(4)          | 2646   |                          |
|        |                      |           | 16718.86             |        |                          |
|        |                      |           | 16718.44             |        |                          |
| 8641   | 16717.28(5)          | 16717.31  |                      |        |                          |
| 8642   | 16716.65(4)          | 16716.42  |                      |        |                          |
| 8643   | 16716.08(2)          | 16716.08  |                      |        |                          |
| 8644   | 16715.66(4)          | 16715.60  |                      |        |                          |
| 8645   | 16715.128(18)        | 16715.13  | 16715.08(5)          | 2647   |                          |
| 8646   | 16714.03(2)          | 16714.06  |                      |        |                          |
|        |                      |           | 16713.59             |        |                          |
| 8647   | 16712.859(19)        |           | 16712.88(3)          | 2648   |                          |
| 8648   | 16712.17(4)          | 16712.16  |                      |        |                          |
| 8649   | 16711.710(17)        | 16711.70  | 16711.71(3)          | 2649   |                          |
| 8650   | 16711.32(3)          |           | 16711.32(3)          | 2650   |                          |
|        |                      |           | 16710.75             |        |                          |
| 8651   | 16709.37(4)          | 16709.40  |                      |        |                          |
| 8652   | 16708.97(3)          | 16708.99  | 16709.01(5)          | 2651   |                          |
| 8653   | 16708.47(3)          | 16708.49  |                      |        | S+ GK-2B (5-9) R4       |
| 8654   | 16707.95(3)          | 16707.91  | 16707.94(3)          | 2652   | T+ 3a-2c (4-4) P5       |
| 8655   | 16707.70(4)          | 16707.70  |                      |        |                          |
|        |                      |           | 16707.26             | 2653   | T+ 3d-2c (1-1) R2       |
| 8656   | 16707.18(2)          | 16707.19  | 16707.14(3)          | 2654   | T+ 3e-2c (2-2) P4       |
| 8657   | 16706.76(4)          |           |                      |        |                          |
| 8658   | 16706.33(2)          | 16706.33  | 16706.38(3)          | 2655   | T- 3e-2c (1-1) P6       |
| 8659   | 16706.14(3)          | 16706.21(3) |                      | 2656   |                          |
| 8660   | 16705.68(3)          | 16705.72  |                      |        |                          |
| 8661   | 16705.11(4)          | 16705.37  |                      |        |                          |
| 8662   | 16704.59(2)          | 16704.61  | 16704.62(5)          | 2657   |                          |
| 8663   | 16704.16(4)          | 16703.97  |                      |        |                          |
| 8664   | 16703.58(5)          |           |                      |        |                          |
| 8665   | 16703.19(3)          | 16703.18  |                      |        |                          |
| $K_1$ | $\nu^{(a)}$ | $\nu^{(c)}$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|---|---|---|---|---|---|
| 8666 | 16702.66(2) | 16702.67 | 16702.67(4) | 2658 | T- 3c-2a (7-6) Q6 |
| 8667 | 16702.21(4) | 16702.44 | 16702.40(4) | 2659 | |
| 8668 | 16701.86(3) | 16701.84 | 16701.88(5) | 2660 | S+ GK-2B (4-8) R0 |
| 8669 | 16701.43(6) | 16701.50 | | | |
| 8670 | 16701.02(3) | 16701.02 | | | |
| 8671 | 16700.6(2) | 16700.54 | | | |
| 8672 | 16700.24(5) | | | | |
| 8673 | 16699.84(2) | 16699.87 | 16699.91(4) | 2661 | T+ 3d-2c (0-0) R8 |
| 8674 | 16699.51(3) | 16699.62 | 16699.56(4) | 2663 | S- 3F-2B (0-6) Q2 |
| 8675 | 16698.95(6) | 16698.88 | | | S 3A-2C (2-0) P6 |
| 8676 | 16698.41(3) | 16698.44 | 16698.44(3) | 2664 | |
| 8677 | 16698.08(3) | 16698.02(3) | 16697.74(5) | 2667 | |
| 8678 | 16697.36(6) | | | | |
| 8679 | 16696.90(3) | 16696.95(3) | 16696.78(4) | 2669 | |
| 8680 | 16696.38(5) | 16696.49 | | | |
| 8681 | 16695.84(2) | 16695.89 | 16695.85(3) | 2670 | T+ 3c-2a (0-0) R0 |
| 8682 | 16695.50(3) | | 16695.45(4) | 2672 | |
| 8683 | 16694.97(4) | 16695.02 | | | |
| 8684 | 16694.50(3) | 16694.52 | | | |
| 8685 | 16694.03(2) | 16694.04 | 16694.04(3) | 2673 | T- 3e-2c (3-3) R6 |
| 8686 | 16693.79(3) | 16693.77 | 16693.74(3) | 2675 | T+ 3d-2c (1-1) Q1 |
| 8687 | 16693.56(3) | 16693.56 | 16693.55(3) | 2676 | |
| 8688 | 16693.08(2) | 16693.08 | 16693.10(3) | 2677 | |
| 8689 | 16692.91(4) | 16693.01 | 16692.94(3) | 2678 | T- 3c-2a (1-1) Q1 |
| 8690 | 16692.49(5) | | | | |
| 8691 | 16692.01(3) | 16691.99 | 16692.02(3) | 2679 | |
| 8692 | 16691.85(4) | | 16691.86(3) | 2680 | |
| 8693 | 16691.45(6) | 16691.50 | | | S+ GK-2B (3-7) R2 |
| 8694 | 16691.05(4) | 16691.18 | | 16691.01 | |
| 8695 | 16690.61(2) | 16690.62 | 16690.64(3) | 2681 | T+ 3c-2a (2-2) P5 |
| 8696 | | | 16690.55(3) | 2682 | |
| $K_1$ | $\nu^{(a)}$ | $\nu$   | $\nu^{(c)}$ | $K_2$ | Assignment               |
|-------|-------------|---------|-------------|-------|--------------------------|
| 8696  | 16690.08(3) | 16690.07| 16690.06(3) | 2683  | T- 3e-2c (2-2) P3       |
| 8697  | 16689.89(3) | 16689.95| 16689.90(3) | 2684  |                          |
| 8698  | 16689.43(4) | 16689.42|             |       |                          |
| 8699  | 16688.92(2) | 16688.92| 16688.93(3) | 2685  | T- 3e-2c (3-3) R4       |
| 8700  | 16688.75(3) |         | 16688.77(3) | 2686  |                          |
| 8701  | 16688.26(4) |         | 16688.12    |       |                          |
| 8702  |             |         | 16687.88    |       |                          |
| 8703  | 16687.39(2) | 16687.35| 16687.37(3) | 2687  | T+ 3d-2c (1-1) R3       |
| 8704  | 16687.24(3) | 16687.25| 16687.27(3) | 2688  |                          |
| 8705  | 16686.93(4) | 16687.11| 16687.12(3) | 2689  |                          |
| 8706  | 16686.49(3) | 16686.52|             |       |                          |
| 8707  |             | 16685.09| 16685.11(3) | 2690  |                          |
| 8708  |             |         | 16685.03(4) | 2691  |                          |
| 8709  | 16683.64(2) | 16683.60| 16683.64(3) | 2692  |                          |
| 8710  | 16683.44(3) | 16683.37| 16683.45(3) | 2693  |                          |
| 8711  |             |         | 16682.92    |       |                          |
| 8712  |             | 16682.34| 16682.32(2) | 2694  | T+ 3d-2c (0-0) Q5       |
| 8713  | 16682.12(6) | 16682.03| 16681.96(3) | 2695  |                          |
| 8714  | 16681.72(2) | 16681.71| 16681.68(3) | 2696  |                          |
| 8715  |             |         | 16681.37    |       |                          |
| 8716  |             |         | 16681.29    |       | T+ 3e-2c (3-3) R8       |
| 8717  | 16681.29(2) | 16681.29| 16681.30(3) | 2700  |                          |
| 8718  | 16681.00(4) | 16681.21| 16681.14(3) |       | T+ 3e-2c (3-3) R3       |
| 8719  |             |         |             |       |                          |
| 8720  |             |         |             |       |                          |
| 8721  | 16679.96(2) | 16679.92| 16679.98(3) | 2702  |                          |
| 8722  |             |         |             |       | T+ 3b-2a (7-2) P6       |
| 8723  |             |         |             |       | S+ GK-2B (3-7) R1       |
| 8724  |             |         |             |       |                          |
| 8725  |             |         |             |       |                          |
| $K_1$ | $\nu^{(a)}$  | $\nu$  | $\nu^{(c)}$  | $K_2$ | Assignment               |
|------|-------------|--------|-------------|------|--------------------------|
| 8725 | 16673.33(3) | 16673.28(3) | 2710        |      |                          |
| 8726 | 16673.04(3) | 16673.11 | 16673.03(3) | 2711  | T- 3e-2c (2-2) Q7        |
| 8727 | 16672.35(5) | 16672.43 |             |      |                          |
| 8728 | 16671.81(3) | 16671.86 | 16671.85(3) | 2712  | T+ 3e-2c (2-2) P7        |
|      |             |         | 16671.76(3) | 2713  |                          |
| 8729 | 16671.23(4) | 16671.08 | 16671.23(3) | 2714  |                          |
| 8730 | 16670.60(4) | 16670.52 | 16670.54(5) | 2715  | T- 3e-2c (0-0) P9        |
| 8731 | 16670.39(3) | 16670.52 | 16670.41(3) | 2716  | S+ GK-2B (4-8) P1        |
|      |             |         | 16670.39    | 2717  |                          |
| 8732 | 16669.96(3) | 16669.93 | 16669.95(3) | 2718  | T- 3e-2c (3-3) R2        |
| 8733 | 16669.80(4) | 16669.78(3) | 2719    |      |                          |
| 8734 | 16669.33(5) |             |           |      |                          |
| 8735 | 16668.74(4) | 16668.81 | 16668.71(3) | 2720  | T+ 3d-2c (0-0) P4        |
| 8736 | 16667.92(3) | 16667.98 | 16667.88(4) | 2721  |                          |
|      |             |         | 16667.03    | 2722  |                          |
|      |             |         | 16664.93(4) | 2723  |                          |
| 8737 | 16663.34(3) | 16663.43 | 16663.33(3) | 2724  |                          |
|      |             |         | 16663.34    | 2725  |                          |
| 8738 | 16662.82(3) | 16662.71 | 16662.79(3) | 2726  |                          |
| 8739 | 16662.52(3) | 16662.54 | 16662.54(3) | 2727  |                          |
|      |             |         | 16662.46(3) | 2728  |                          |
| 8740 | 16662.12(3) | 16662.13 | 16662.09(3) | 2729  |                          |
| 8741 | 16661.53(3) | 16661.48 | 16661.51(3) | 2730  |                          |
| 8742 | 16661.36(3) | 16661.30 | 16661.32(3) | 2731  |                          |
| 8743 | 16661.15(3) | 16660.96 | 16661.13(3) | 2732  |                          |
| 8744 | 16660.62(4) | 16660.47 |             |      |                          |
| 8745 | 16659.94(3) | 16659.91 | 16659.91(3) | 2733  |                          |
| 8746 | 16659.73(4) | 16659.74(4) | 2734    |      |                          |
| 8747 | 16658.86(4) | 16658.84 | 16658.84(4) | 2735  |                          |
| 8748 | 16658.70(6) | 16658.69(5) | 2736    |      |                          |
| 8749 | 16657.55(3) | 16657.57 | 16657.52(4) | 2737  |                          |
| 8750 | 16656.88(3) | 16656.93 | 16656.86(5) | 2738  | T+ 3e-2c (3-3) Q5        |
| 8751 | 16656.42(4) | 16656.33 | 16656.41(5) | 2739  |                          |
| 8752 | 16656.09(4) | 16656.05 | 16656.11(3) | 2740  |                          |
| 8753 | 16655.84(6) | 16655.94(4) | 2741    |      |                          |
| 8754 | 16655.30(5) | 16655.36 | 16655.28    |      |                          |
|      |             |         |             |      | S+ GK-2B (4-8) P2        |
| 8755 | 16654.87(3) | 16654.77(3) | 2742    |      |                          |
| 8756 | 16654.54(3) | 16654.55 | 16654.53(3) | 2743  |                          |
| 8757 | 16654.06(4) | 16654.47(3) | 2744    |      |                          |
| 8758 | 16653.66 | 16653.45(3) | 2745    |      |                          |
|      |             |         |             |      |                          |
Table II (Continued).

| \(K_1\) | \(\nu^{(a)}\) | \(\nu\) | \(\nu^{(c)}\) | \(K_2\) | Assignment |
|---|---|---|---|---|---|
| 8759 | 16653.07(3) | 16653.07 | 16653.08(3) | 2743 | T- 3e-2c (1-1) P7 |
| 8760 | 16652.84(4) | 16652.92(3) | 2744 |
| 8761 | 16652.35(5) | | |
| 8762 | 16652.15(4) | 16652.21 | 16652.21(3) | 2745 |
| 8763 | 16650.98(3) | 16651.14 | 16651.02(3) | 2746 |
| | | 16651.01 | 16650.90(4) | 2747 |
| | | | 16650.90 |
| 8764 | 16650.49(3) | 16650.50 | 16650.47(3) | 2749 | T+ 3e-2c (2-2) P8 |
| 8765 | 16649.97(4) | 16649.93 | 16649.92(5) | 2750 |
| 8766 | 16649.57(6) | 16649.77 | S- 3E-2B (3-11) Q3 |
| 8767 | 16649.22(4) | 16649.45 | S+ GK-2B (5-9) R3 |
| | | 16649.12 |
| 8768 | 16648.68(3) | 16648.67 | 16648.72(3) | 2751 | T- 3e-2c (2-2) P4 |
| 8769 | 16648.51(3) | 16648.55 | 16648.55(3) | 2752 |
| 8770 | 16647.80(3) | 16647.85 | 16647.85(3) | 2753 | T+ 3e-2c (3-3) Q4 |
| | | | 16647.67(4) |
| 8771 | 16647.39(4) | 16647.36(3) | 2754 |
| 8772 | 16646.32(4) | 16646.41 | 16646.40(3) | 2755 |
| | | | 16646.21(3) |
| 8773 | 16645.78(4) | | |
| 8774 | 16645.48(3) | 16645.45 | 16645.53(3) | 2756 |
| | | | 16645.25(3) |
| 8775 | 16645.17(4) | 16645.13 | 16645.11(3) | 2757 |
| 8776 | 16644.33(4) | 16644.53 | | |
| 8777 | 16643.61(6) | 16643.83 | | |
| 8778 | 16643.17(4) | 16643.19 | 16643.22(3) | 2758 |
| 8779 | 16642.86(5) | 16643.09 | 16642.92 | T- 3c-2a (0-0) Q3 |
| | | | 16642.36 |
| | | | 16642.28 |
| 8780 | 16641.86(4) | 16641.85 | 16641.49 |
| 8781 | 16640.84(5) | 16640.87(4) | 2762 |
| 8782 | 16640.65(4) | 16640.73 | 16640.70(3) | 2763 | S+ GK-2B (6-10) R3 |
| | | | 16640.29(3) |
| 8783 | 16640.19(4) | 16640.11 | 16640.11(3) | 2764 |
| 8784 | 16639.08(4) | 16639.11 | 16639.17(3) | 2765 |
| | | | 16639.01(4) |
| 8785 | 16638.66(5) | 16638.63(3) | 2766 |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 8786  | 16636.61(6) | 16636.63 | 16636.62(4) | 2769  |            |
|       |             | 16635.55 |             |       |            |
|       |             | 16635.43 |             |       |            |
| 8787  | 16634.85(5) | 16634.88 | 16634.91(2) | 2770  |            |
| 8788  | 16634.60(6) | 16634.78 | 16634.75(3) | 2771  | T+ 3d-2c (1-1) P2 |
|       |             | 16634.50 |             |       |            |
|       |             | 16634.60(3) |             | 2772  |            |
| 8789  | 16634.00(4) | 16634.02 | 16634.02(2) | 2773  | T+ 3d-2c (1-1) R5 |
|       |             | 16633.94(2) |             |       |            |
| 8790  | 16633.50(6) |            |             |       |            |
| 8791  | 16633.04(4) | 16633.20 | 16633.11(4) | 2775  |            |
|       |             | 16633.08 |             |       |            |
|       |             | 16632.98(3) |             | 2776  |            |
| 8792  | 16631.44(6) |            |             |       |            |
| 8793  | 16631.10(5) | 16631.13 | 16631.06(3) | 2777  |            |
| 8794  | 16630.67(5) | 16630.66 | 16630.73(4) | 2778  |            |
|       |             |             | 16630.51(4) |       |            |
| 8795  | 16630.17(6) | 16630.19 | 16630.17(3) | 2779  |            |
|       |             |             | 16630.05(3) |       |            |
|       |             | 16629.60 |             |       |            |
|       |             | 16629.16(5) |             | 2780  |            |
| 8796  | 16628.71(7) | 16628.75 |             |       |            |
|       |             | 16628.55 |             |       |            |
| 8797  | 16628.12(4) | 16628.11 | 16628.09(2) | 2781  |            |
| 8798  | 16627.62(5) | 16627.89 | 16627.72(3) | 2782  | T- 3c-2a (0-0) Q4 |
|       |             | 16627.54(3) |             |       |            |
| 8799  | 16626.70(4) | 16626.68 | 16626.72(3) | 2783  | T+ 3s-2c (3-3) Q2 |
|       |             |             | 16626.61(3) |       |            |
|       |             | 16626.22 |             |       |            |
| 8800  | 16625.71(5) | 16625.75 | 16625.71(3) | 2784  | T+ 3b-2a (5-1) R2 |
|       |             | 16625.75 |             |       | T+ 3b-2a (5-1) R1 |
| 8801  | 16625.39(6) | 16625.29 | 16625.49(3) | 2785  |            |
| 8802  | 16624.84(4) | 16624.78 | 16624.82(2) | 2786  |            |
| 8803  | 16624.63(5) | 16624.78 | 16624.64(3) | 2787  |            |
|       |             | 16624.05 |             |       |            |
| 8804  | 16623.62(5) | 16623.60 | 16623.62(3) | 2788  |            |
|       |             | 16622.64 |             |       |            |
|       |             | 16622.50 |             |       |            |
| 8805  | 16621.81(4) | 16621.79 | 16621.81(3) | 2789  | T+ 3d-2c (0-0) R10 |
|       |             | 16621.56(3) |             |       |            |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|------------|-------|------------|-------|------------|
| 8806  | 16621.50(5)| 16621.79| 16621.68(4)| 2796  | S+ GK-2B (3-7) P2 |
| 8807  | 16619.86(4)| 16619.83| 16619.86(3)| 2797  | S+ EF-2B (29-7) P6 |
| 8808  | 16619.58(5)| 16619.65| 16619.68(4)| 2799  | S+ GK-2B (5-9) R1 |
| 8809  | 16619.17(4)| 16619.12| 16619.15(2)| 2801  | T+ 3d-2c (1-1) Q3 |
| 8810  | 16618.93(4)| 16618.96(2)| 2802 |
| 8811  | 16618.40(4)| 16618.37| 16618.39(3)| 2803 |
| 8812  | 16617.49(4)| 16617.46| 16617.52(3)| 2804  | S+ EF-2B (3-7) P6 |
|       |            |       | 16617.36   |       | S+ GK-2B (5-9) R1 |
| 8813  | 16614.89(2)| 16614.88| 16614.88(3)| 2806  | T+ 3b-2a (5-1) R0 |
| 8814  | 16614.72(3)|       |           |       | S+ GK-2B (5-9) R0 |
| 8815  | 16613.743(12)| 16613.78| 16613.73(3)| 2807 |
| 8816  | 16612.34(3)| 16612.46| 16612.39(3)| 2808 |
| 8817  | 16611.943(14)| 16611.97| 16611.92(3)| 2809 |
| 8818  | 16611.50(2)| 16611.67| 16611.45(3)| 2810  | S+ GK-2B (6-10) R1 |
|       |            |       | 16611.45   |       | S+ GK-2B (5-9) R0 |
| 8819  | 16610.706(15)| 16610.66| 16610.68(3)| 2811  | T- 3e-2c (0-0) P10 |
| 8820  | 16610.51(2)| 16610.51(5)| 2812 |
| 8821  | 16609.92(2)| 16609.98|       |       | S+ GK-2B (5-9) R0 |
| 8822  | 16609.405(10)| 16609.40| 16609.40(2)| 2813  | T- 3c-2a (0-0) Q5 |
|       |            |       | 16609.40   |       | S+ GK-2B (5-9) R0 |
| 8823  | 16608.88(2)|       |           |       | S+ GK-2B (5-9) R0 |
| 8824  | 16608.518(17)| 16608.66| 16608.59(3)| 2814 |
| 8825  | 16607.915(10)| 16607.92| 16607.91(2)| 2816  | T- 3e-2c (3-3) Q1 |
| 8826  | 16607.566(16)| 16607.66| 16607.59(3)| 2818 |
| 8827  | 16606.686(11)| 16606.68| 16606.70(3)| 2819 |
| 8828  | 16605.966(19)| 16605.91| 16605.24   |       | S+ GK-2B (5-9) R0 |
| 8829  | 16604.817(14)| 16604.86| 16604.81(3)| 2821 |
| 8830  | 16604.42(2)| 16604.42| 16604.44(4)| 2822 |
| 8831  | 16603.854(11)| 16603.86| 16603.88(2)| 2823  | T- 3e-2c (2-2) P5 |
| 8832  | 16603.62(2)| 16603.71(2)| 2824 |
| 8833  | 16603.040(19)| 16603.12| 16603.23(5)| 2825 |
|       |            |       | 16602.61(3)| 2826 |
| $K_1$   | $\nu^{(a)}$  | $\nu$      | $\nu^{(c)}$ | $K_2$ | Assignment          |
|--------|--------------|------------|-------------|-------|---------------------|
| 8834   | 16602.559(10)| 16602.57  | 16602.53(2) | 2827  | T+ 3d-2c (1-1) R6   |
| 8835   | 16602.07(2)  | 16602.05  | 16601.69    |       |                     |
|        |              |            | 16601.23    |       |                     |
| 8836   | 16600.667(10)| 16600.67  | 16600.82(3) | 2828  |                     |
|        |              |            |             |       | S+ GK-2B (3-7) P3   |
| 8837   | 16599.679(13)| 16599.70  | 16599.70(3) | 2830  | T- 3e-2c (3-3) Q2   |
|        |              |            | 16599.55(5) | 2831  |                     |
| 8838   | 16598.90(2)  | 16598.92  | 16598.92    |       |                     |
| 8839   | 16598.26(2)  | 16598.62  | 16598.62    |       |                     |
| 8840   | 16597.943(11)| 16597.93  | 16597.98(2) | 2832  | T- 3e-2c (1-1) P8   |
| 8841   | 16597.75(2)  | 16597.85(2)| 16597.85(2)| 2833  |                     |
| 8842   | 16597.15(2)  | 16597.04  | 16597.04    |       |                     |
| 8843   | 16596.516(11)| 16596.53  | 16596.50(2) | 2834  | T+ 3b-2a (5-1) R4   |
|        |              |            | 16596.09    |       |                     |
| 8844   | 16595.59(2)  | 16595.73  | 16595.73    |       |                     |
| 8845   | 16595.125(10)| 16595.12  | 16595.12(2) | 2835  | T+ 3c-2a (0-0) P2   |
| 8846   | 16594.760(16)| 16594.30  | 16594.39(4) | 2836  | S+ 3F-2B (2-10) R1  |
|        |              |            | 16594.21    |       |                     |
|        |              |            | 16593.80    |       |                     |
| 8847   | 16593.481(11)| 16593.50  | 16593.50(3) | 2837  |                     |
|        |              |            | 16593.50(3) |       |                     |
| 8848   | 16592.268(14)| 16592.22  | 16592.22(4) | 2839  |                     |
|        |              |            | 16591.27    |       |                     |
| 8849   | 16590.71(4)  | 16589.96  | 16589.96    | 2840  | S+ GK-2B (7-11) R3  |
| 8850   | 16589.88(2)  | 16589.96  | 16589.97(6) | 2841  | T+ 3c-2a (1-1) R7   |
| 8851   | 16589.325(10)| 16589.31  | 16589.32(2) | 2842  | T+ 3d-2c (0-0) P5   |
|        |              |            | 16589.19    |       |                     |
| 8852   | 16588.942(10)| 16588.93  | 16588.93    | 2843  | S+ GK-2B (0-5) R1   |
|        |              |            | 16588.93    |       |                     |
| 8853   | 16588.537(18)| 16587.64  | 16587.63(3) |       | T- 3e-2c (3-3) Q3   |
| 8854   | 16588.01(2)  | 16588.19  | 16587.12    | 2844  | T- 3c-2a (0-0) Q6   |
| 8855   | 16587.592(13)| 16587.64  | 16587.63(3) | 2845  |                     |
| 8856   | 16587.118(9) | 16587.12  | 16587.13(2) |       |                     |
|        |              |            | 16586.99(3) |       |                     |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment          |
|-------|-------------|-------|-------------|-------|---------------------|
| 8857  | 16586.677(10) | 16586.67 | 16586.68(2) | 2846  | T+ 3c-2a (1-1) R5 |
|       | 16586.67      |        |             |       | S+ GK-2B (0-5) R2  |
| 8858  | 16586.36(3)   |        |             |       |                     |
| 8859  | 16586.019(10) | 16586.04 | 16586.03(2) | 2847  | T+ 3c-2a (1-1) R8 |
| 8860  | 16585.59(3)   |        |             |       |                     |
| 8861  | 16585.09(3)   | 16585.03 |             |       |                     |
| 8862  | 16584.302(16) | 16584.26 | 16584.30(2) | 2848  | S+ GK-2B (0-5) R0  |
|       | 16584.26      |        |             |       | S+ GK-2B (5-9) P1  |
| 8863  | 16583.83(2)   |        |             |       |                     |
| 8864  | 16583.48(2)   | 16583.39 |             |       |                     |
| 8865  | 16582.42(2)   |        |             | 2849  |                     |
| 8866  | 16582.11(4)   |        |             | 2850  |                     |
| 8867  | 16581.80(2)   | 16581.76 | 16581.79(3) | 2852  |                     |
|       | 16581.63      |        | 16581.65(4) | 2853  |                     |
| 8868  | 16581.47(3)   |        |             | 2854  |                     |
| 8869  | 16581.17(3)   |        |             | 2855  |                     |
|       |              |        | 16580.93(3) | 2856  |                     |
| 8870  | 16580.856(15) | 16580.85 | 16580.82(3) | 2857  | T+ 3d-2c (0-0) R11|
| 8871  | 16580.55(4)   |        |             |       | S+ GK-2B (0-5) R3  |
| 8872  | 16579.44(2)   | 16579.42 | 16579.45(3) | 2858  |                     |
| 8873  | 16578.722(16) | 16578.75 | 16578.74(2) | 2859  |                     |
| 8874  | 16578.44(2)   |        |             | 2860  |                     |
| 8875  | 16578.07(3)   |        |             | 2861  |                     |
| 8876  | 16577.55(3)   | 16577.54 |             |       |                     |
| 8877  | 16576.64(5)   | 16576.58 |             |       |                     |
| 8878  | 16575.78(2)   |        |             | 2862  | S+ GK-2B (0-5) R3  |
|       | 16575.81(4)   |        |             | 2863  |                     |
| 8879  | 16574.33(2)   | 16574.34 | 16574.30(4) | 2864  |                     |
|       | 16573.82      |        | 16573.90(5) | 2865  |                     |
| 8880  | 16573.121(17) | 16573.13 | 16573.12(4) | 2866  | T+ 3d-2c (1-1) P3 |
|       | 16573.02(5)   |        |             | 2867  |                     |
| 8881  | 16572.655(19) | 16572.60 | 16572.61(4) | 2868  |                     |
| 8882  | 16572.45(2)   |        |             | 2869  |                     |
| 8883  | 16572.11(4)   |        |             |       |                     |
|       | 16571.02      |        |             |       |                     |
| 8884  | 16570.75(3)   | 16570.73 |             |       |                     |
| 8885  | 16570.392(16) | 16570.35 | 16570.36(4) | 2870  | T+ 3d-2c (1-1) Q4 |
| 8886  | 16570.194(17) | 16570.22 | 16570.18(4) | 2871  |                     |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|------------|-------|-------------|-------|------------|
| 8887  | 16569.67(2)| 16569.55| 16569.70(6)| 2872  |            |
| 8888  | 16569.16(2)| 16569.14| 16569.11(4)| 2873  | S 4D-2C (0-1) R3 |
| 8889  | 16568.84(2)| 16569.04| 16568.95(4)| 2874  | S+ EF-2B (21-3) R1 |
| 8890  | 16568.709(16)| 16568.72| 16568.75(4)| 2875  | T+ 3d-2c (1-1) R7 |
| 8891  | 16568.33(2)|       |            |       |            |
| 8892  | 16567.82(3)| 16567.91| 16567.74(5)| 2877  |            |
| 8893  | 16567.443(16)| 16567.46| 16567.42(4)| 2878  |            |
| 8894  | 16566.61(2)|       |            |       |            |
| 8895  | 16566.170(15)| 16566.17| 16566.14(4)| 2879  | T+ 3c-2a (1-1) R4 |
| 8896  | 16565.67(3)| 16565.63| 16565.63   |       |            |
| 8897  | 16565.077(18)| 16565.11(4)| 16565.00(4)| 2880  |            |
| 8898  | 16564.42(3)| 16564.50|            |       |            |
| 8899  | 16563.882(18)| 16563.80| 16563.82(4)| 2883  | T+ 3d-2c (0-0) Q7 |
| 8900  | 16563.68(2)| 16563.03| 16563.65(4)| 2884  |            |
| 8901  | 16562.446(17)| 16562.42| 16562.42(4)| 2885  | T+ 3e-2c (3-3) P2 |
| 8902  | 16562.23(3)| 16562.23| 16562.27(4)| 2886  |            |
| 8903  | 16561.65(3)| 16561.81|            |       | S+ WW-2B (0-5) R4 |
| 8904  | 16561.328(15)| 16561.32| 16561.33(5)| 2887  | T- 3c-2a (0-0) Q7 |
| 8905  | 16560.83(2)| 16560.81| 16560.77(4)| 2889  | T+ 3b-2a (5-1) P1 |
| 8906  | 16560.07(3)| 16559.97| 16560.81   |       | T- 3c-2a (8-7) Q1 |
| 8907  | 16558.985(17)|        | 16559.00(4)| 2890  |            |
| 8908  | 16557.44(3)|       |            |       |            |
| 8909  | 16556.94(3)| 16556.77| 16556.77   | 2891  | S+ GK-2B (0-5) P1 |
| 8910  | 16556.551(16)|    | 16556.54(4)|       | S 4D-2C (0-1) P2 |
| 8911  | 16556.138(15)| 16556.12| 16556.15(4)| 2892  | T+ 3c-2a (1-1) R3 |
| 8912  | 16555.88(2)| 16555.94| 16556.01(4)| 2893  | T- 3c-2c (2-2) P6 |
| 8913  | 16555.46(3)|       |            |       |            |
| 8914  | 16554.967(19)| 16555.17|            |       |            |
| 8915  | 16554.499(15)| 16554.50| 16554.51(4)| 2894  | T+ 3c-2a (0-0) P3 |
| 8916  | 16554.115(18)|    | 16554.17(4)| 2895  |            |
| $K_1$ | $\nu^{(a)}$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------------|-------|------------|
| 8917  | 16553.42(3) | 16553.57    |       |            |
| 8918  | 16552.94(15)| 16552.94    | 2896  | T- 3e-2c (3-3) P2 |
|       |             | 16552.81(4) | 2897  | T- 3e-2c (3-3) Q5 |
| 8919  | 16552.706(17)| 16552.69    | 2898  | T- 3c-2a (8-7) Q2 |
|       |             | 16552.44    |       |            |
| 8920  | 16552.260(15)| 16552.26    | 2899  | T+ 3b-2a (5-1) R5 |
| 8921  | 16552.00(2) | 16552.13(5) | 2900  |            |
| 8922  | 16551.473(18)| 16551.49(4) | 2901  |            |
|       |             | 16551.32(5) | 2902  |            |
| 8923  | 16551.13(2) | 16551.15(5) | 2903  |            |
| 8924  | 16550.63(2) | 16550.57    |       |            |
| 8925  | 16550.366(18)| 16550.46    | 2904  | T- 3e-2c (0-0) P11 |
|       |             | 16550.45(5) |       |            |
| 8926  | 16549.63(3) |             | 16549.98 |        |
| 8927  | 16548.34(2) | 16548.31    |       |            |
| 8928  | 16547.775(10)| 16547.77    | 2905  |            |
|       |             | 16546.38    | 2906  |            |
|       |             | 16545.82    | 2907  |            |
| 8929  | 16545.60(2) |             | 16545.45(3) | 2908 |
| 8930  | 16544.92(3) | 16545.00    |       |            |
| 8931  | 16544.356(8)  | 16544.36    | 2909  | T+ 3e-2c (3-3) P3 |
|       |             | 16544.36(2) | 2910  |            |
| 8932  | 16543.693(8) | 16543.69    | 2911  |            |
|       |             | 16543.59(3) | 2912  |            |
| 8933  | 16543.163(11)| 16543.16(4) | 2913  |            |
|       |             | 16542.31    | S+ GK-2B (5-9) P3 |
| 8934  | 16541.925(10)| 16541.87(2) | 2914  |            |
|       |             | 16541.76    |       |            |
| 8935  | 16541.668(15)| 16541.64    | 2915  |            |
| 8936  | 16541.445(15)| 16541.54    | 2916  | T- 3e-2c (1-1) P9 |
| 8937  | 16541.040(16)| 16540.95    |       |            |
| 8938  | 16540.437(12)| 16540.43    | 2917  | T- 3c-2a (8-7) Q3 |
| 8939  | 16540.000(17)| 16540.00    |       |            |
| 8940  | 16539.531(7) | 16539.53    | 2918  | T+ 3d-2c (0-0) R12 |
|       |             | 16539.50(2) | 2919  |            |
| 8941  | 16539.047(18)| 16539.00    |       | T+ 3c-2a (1-1) R2 |
| 8942  | 16538.773(9) | 16538.78    | 2919  | S 4D-2C (0-1) R4 |
|       |             | 16538.75(3) |       |            |
|       |             | 16538.73    |       |            |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|-------|-------------|-------|-------------|-------|-----------------------------|
| 8943  | 16538.42(3) | 16538.04 | 16537.17   |       | S+ EF-2B (21-3) P1         |
| 8944  | 16535.82(3) | 16535.90 | 16535.84(4)| 2920  |                             |
| 8945  | 16534.786(18)| 16534.79 | 16534.78(2)| 2921  |                             |
| 8946  | 16534.403(12)| 16534.38(2) |          | 2922  |                             |
| 8947  | 16533.43(2) | 16533.51 |           |       |                             |
| 8948  | 16533.04(2) |           |            |       |                             |
| 8949  | 16532.888(9)| 16532.88 | 16532.86(3)| 2924  |                             |
| 8950  | 16532.543(18) |        |            |       |                             |
| 8951  | 16532.164(8)| 16532.14 | 16532.14(2)| 2925  | T- 3c-2a (0-0) Q8          |
| 8952  | 16531.798(17)| 16531.71 | 16531.67(4)| 2926  | S+ GK-2B (7-11) R1         |
| 8953  | 16531.46(4) |          |            |       |                             |
| 8954  | 16531.13(2) | 16531.25 |           |       | T- 3e-2c (3-3) Q6          |
|       |             | 16530.73 |            |       | S+ GK-2B (7-11) R0         |
|       |             | 16530.66 |            |       |                             |
| 8955  | 16529.22(4) |          |            |       |                             |
| 8956  | 16528.71(3) | 16528.81 |           |       |                             |
| 8957  | 16528.194(8)| 16528.17 | 16528.20(3)| 2927  | T+ 3e-2c (3-3) P4          |
|       |              |          | 16528.11(4)| 2928  |                             |
| 8958  | 16527.73(2) |          |            |       |                             |
| 8959  | 16526.971(13)| 16527.05| 16525.93  |       |                             |
|       |              |          | 16524.80  |       |                             |
| 8960  | 16524.218(9)| 16524.22 | 16524.23(2)| 2929  | T- 3c-2a (8-7) Q4          |
| 8961  | 16523.632(8)| 16523.63(3)|          | 2930  |                             |
| 8962  | 16523.049(16)| 16523.03| 16523.02(4)| 2931  |                             |
| 8963  | 16522.82(4) |          |            |       |                             |
| 8964  | 16522.259(8)| 16522.25 | 16522.28(2)| 2932  | T+ 3d-2c (2-2) R1          |
|       |              |          | 16522.25  |       | S+ GK-2B (6-10) P4         |
| 8965  | 16521.917(12)| 16521.98| 16521.94(3)| 2933  |                             |
|       |              |          | 16521.88  |       |                             |
|       |              |          | 16521.35  |       |                             |
|       |              |          | 16520.81  |       |                             |
| 8966  | 16519.88(5) | 16519.91 |           |       | S+ 3F-2B (2-10) P3         |
| 8967  | 16519.00(4) | 16519.10 |           |       |                             |
| 8968  | 16518.48(2) | 16518.48 | 16518.52(2)| 2934  | T+ 3c-2a (1-1) R1          |
|       |              |          | 16518.27(3)| 2935  |                             |
| 8969  | 16518.10(2) |          |            |       |                             |
|       |              |          | 16518.16(3)| 2936  |                             |
|       |              |          | 16517.67(4)| 2937  |                             |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$       | Assignment                      |
|------|-------------|-------|-------------|-------------|----------------------------------|
| 8970 | 16517.55(2) | 16517.58 | 16517.59(3) | 2938        | T+ 3b-2a (5-1) P2               |
|      |             | 16517.58 | 16517.42(2) | 2939        | T- 3e-2c (3-3) P3               |
| 8971 | 16517.16(2) | 16517.11 | 16517.18(2) | 2940        | T+ 3d-2c (1-1) Q5               |
| 8972 | 16516.96(2) | 16516.99(2) | 2941        |             |                                  |
| 8973 | 16515.91(3) | 16515.97 | 16515.95(5) | 2942        |                                  |
| 8974 | 16515.35(2) | 16515.48 | 16515.43(3) | 2943        |                                  |
|      |             |         | 16515.02(2) | 2944        |                                  |
| 8975 | 16514.91(3) | 16514.84(3) | 2945        |             |                                  |
|      |             |         | 16514.44    |             |                                  |
| 8976 | 16513.73(3) | 16513.72 |             |             |                                  |
| 8977 | 16512.94(2) | 16512.94 | 16512.92(4) | 2947        |                                  |
|      |             |         | 16512.81    |             |                                  |
| 8978 | 16512.38(2) | 16512.24 | 16512.32(3) | 2948        |                                  |
| 8979 | 16512.17(2) | 16512.24 | 16512.21(3) | 2949        | T+ 3e-2c (4-4) R2               |
|      |             | 16512.24 | 16512.11(3) | 2950        | T+ 3d-2c (2-2) R2               |
|      |             |         | 16512.24    |             | S+ EF-2B (21-3) P2              |
| 8980 | 16511.89(2) | 16512.05 | 16511.93(2) | 2951        |                                  |
|      |             | 16511.92 | 16511.83(2) | 2952        | T+ 3e-2c (3-3) P5               |
| 8981 | 16511.37(2) | 16511.39 | 16511.37(2) | 2953        | T+ 3b-2a (5-1) R6               |
| 8982 | 16510.58(2) | 16510.60 | 16510.57(2) | 2954        | T+ 3c-2a (0-0) P4               |
|      |             | 16510.60 | 16510.37(4) | 2955        | S 4D-2C (0-1) Q3                |
| 8983 | 16510.06(2) | 16509.97 |             |             |                                  |
| 8984 | 16509.59(2) | 16509.66 | 16509.59(3) | 2956        | S+ GK-2B (6-10) P5              |
|      |             |         | 16509.10    |             |                                  |
| 8985 | 16508.48(2) | 16508.44 | 16508.51(3) | 2957        |                                  |
|      |             |         | 16508.37(2) | 2958        |                                  |
|      |             |         | 16507.67(6) | 2959        |                                  |
| 8986 | 16506.59(2) | 16506.60 | 16506.58(3) | 2960        | T- 3e-2c (3-3) Q7               |
| 8987 | 16505.99(2) | 16505.95 | 16505.98(2) | 2961        | T- 3e-2c (2-2) P7               |
| 8988 | 16505.83(2) | 16505.81(3) | 2962        |             |                                  |
| 8989 | 16505.26(2) | 16505.13 |             |             | S+ GK-2B (0-5) P3               |
| 8990 | 16504.01(2) | 16504.08 | 16504.01(3) | 2963        | T- 3c-2a (8-7) Q5               |
|      |             |         | 16503.98    | 2964        |                                  |
|      |             |         | 16503.86(3) | 2965        |                                  |
|      |             |         | 16503.70(3) | 2966        |                                  |
| 8992 | 16503.15(2) | 16503.12 | 16503.15(2) | 2966        |                                  |
| 8993 | 16502.96(2) | 16503.02 | 16502.99(2) | 2967        |                                  |
| 8994 | 16502.27(2) | 16502.17 | 16502.26(3) | 2968        | T+ 3d-2c (1-1) P4               |
| 8995 | 16502.05(2) | 16502.07 | 16502.06(3) | 2969        |                                  |
| 8996 | 16501.33(2) | 16501.27 | 16501.35(3) | 2970        | T+ 3d-2c (0-0) Q8               |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 8997  | 16501.13(2) | 16501.20 | 16501.19(2) | 2971  |            |
|       |             |       | 16501.05(3) |       |            |
| 8998  | 16500.77(2) |       |             |       |            |
| 8999  | 16500.11(2) | 16500.31 |             |       |            |
| 9000  | 16499.67(2) | 16499.68 | 16499.66(2) | 2973  | T- 3c-2a (0-0) Q9 |
| 9001  | 16499.30(5) | 16499.33 |             |       |            |
| 9002  | 16498.76(2) | 16498.78 | 16498.79(3) | 2974  |            |
| 9003  | 16498.43(5) |       | 16498.65(4) | 2975  |            |
|       |             |       | 16497.38(3) | 2976  |            |
| 9004  | 16497.21(4) |       | 16497.17(4) | 2977  |            |
| 9005  | 16496.77(3) | 16496.88 |             |       |            |
| 9006  | 16496.09(2) | 16496.07 | 16496.13(2) | 2978  | S- 4E-2C (1-2) P5 |
|       |             |       | 16495.98(2) | 2979  |            |
| 9007  | 16495.65(2) | 16495.51 | 16495.62(3) | 2980  | T+ 3d-2c (0-0) R13 |
|       |             |       | 16495.43(3) | 2981  |            |
| 9008  | 16495.36(2) | 16495.35 | 16495.32(2) | 2982  |            |
|       |             |       | 16495.18    | 2983  |            |
| 9009  | 16495.06(2) | 16495.05 | 16495.01(2) | 2984  | T+ 3d-2c (2-2) R3 |
|       |             |       | 16494.79    |       |            |
| 9010  | 16494.55(3) | 16494.36 |             |       |            |
|       |             |       | 16494.20(3) | 2985  |            |
| 9011  | 16494.12(2) | 16494.11 | 16494.10(2) | 2986  | T+ 3d-2c (2-2) Q1 |
| 9012  | 16493.82(3) | 16493.88 | 16493.90(2) | 2987  |            |
|       |             |       | 16493.56(4) | 2988  |            |
| 9013  | 16493.47(2) | 16493.46 | 16493.47(2) | 2989  | T+ 3c-2a (1-1) R0 |
| 9014  | 16492.98(3) | 16492.90 | 16492.98(3) | 2990  |            |
| 9015  | 16492.75(6) | 16492.68 |             |       |            |
|       |             |       | 16492.57    |       |            |
| 9016  | 16492.22(4) | 16492.27 |             |       |            |
|       |             |       | 16491.98    |       |            |
| 9017  | 16491.32(4) |       | 16491.09    |       |            |
| 9018  | 16490.09(3) | 16490.15 | 16490.11(4) | 2991  | T- 3e-2c (0-0) P12 |
| 9019  | 16489.87(6) | 16489.71 | 16489.73(5) | 2992  | S+ EF-2B (19-2) R1 |
|       |             |       | 16488.35    |       |            |
| 9020  | 16487.71(3) | 16487.73 | 16487.80(2) | 2993  |            |
| 9021  | 16487.47(5) | 16487.64(2) | 16487.07 | 2994  | S+ EF-2B (19-2) R2 |
| 9022  | 16485.64(3) | 16485.73 | 16485.68(4) | 2995  |            |
| 9023  | 16485.13(3) | 16485.35 | 16485.14(4) | 2996  | S+ EF-2B (19-2) R0 |
|       |             |       | 16485.18    |       |            |
| 9024  | 16484.22(3) | 16484.24 | 16484.27(4) | 2997  |            |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 9025  | 16484.00(5) | 16484.14 | 16484.10(5) | 2998  |            |
| 9026  | 16482.49(3) | 16482.55 | 16482.51(4) | 2999  |            |
| 9027  | 16481.27(3) | 16481.30 | 16481.28(3) | 3000  | T+ 3d-2c (2-2) P1 |
| 9028  | 16480.82(4) | 16481.02 | 16480.92(4) | 3001  | S+ EF-2B (21-3) P3 |
|       |             | 16480.64 | 16480.62(6) |       |            |
| 9029  | 16479.95(3) | 16479.98 | 16479.91(4) | 3004  | T- 3c-2a (8-7) Q6 |
| 9030  | 16479.62(4) | 16479.70 | 16479.61(4) | 3005  |            |
|       |             | 16479.21 |             |       |            |
| 9031  | 16478.60(3) | 16478.59 | 16478.62(3) | 3006  | T- 3e-2c (3-3) P4 |
|       |             | 16478.59 |             |       | T- 3e-2c (3-3) Q8 |
| 9032  | 16478.39(4) | 16477.51 |             |      |            |
| 9033  | 16477.69(4) | 16477.22(5) | 3008 |
| 9034  | 16476.23(3) | 16476.46 | 16476.43(3) | 3009  |            |
| 9035  | 16475.90(3) | 16475.88 | 16475.91(3) | 3010  | T- 3e-2c (4-4) R2 |
| 9036  | 16475.68(3) | 16475.75(4) | 3011 |
| 9037  | 16474.41(5) | 16473.91 | 16473.95(4) | 3012  | T+ 3e-2c (3-3) P7 |
|       |             | 16473.81 | 16473.86(4) |       |            |
| 9039  | 16473.93(3) | 16473.81 | 16473.70(4) | 3013  |            |
| 9040  | 16473.48(4) | 16473.29 | 16472.76(4) | 3015  | T+ 3d-2c (2-2) R4 |
| 9041  | 16472.74(3) | 16472.74 | 16472.68(4) | 3016  |            |
| 9042  | 16471.69(3) | 16471.76 | 16471.67(5) | 3017  |            |
|       |             | 16470.36 |             |       |            |
| 9043  | 16468.31(3) | 16468.28 | 16468.28(5) | 3019  |            |
| 9044  | 16468.11(4) | 16468.14(4) | 3020 |
| 9045  | 16465.74(4) | 16466.02 |             |       |            |
| 9046  | 16465.32(3) | 16465.28 | 16465.32(3) | 3021  | T+ 3d-2c (2-2) Q2 |
| 9047  | 16465.11(3) | 16465.13(3) | 3022 |
| 9048  | 16464.84(4) | 16464.67 |             |       |            |
| 9049  | 16464.40(3) | 16464.49 |             |       |            |
| 9050  | 16464.04(3) | 16464.04 | 16464.05(3) | 3023  | T+ 3b-2a (5-1) P3 |
|       |             | 16466.19 |             |       |            |
| $K_1$ | $\nu^{(a)}$ | $\nu$     | $\nu^{(c)}$ | $K_2$  | Assignment                  |
|-------|----------|----------|-------------|-------|-----------------------------|
| 9051  | 16463.58(3) | 16463.59 | 16463.58(3) | 3024  | T- 3c-2a (0-0) Q10         |
| 9052  | 16463.04(4) | 16462.80 |             |       | T+ 3c-2a (0-0) P5          |
| 9053  | 16462.25(4) | 16462.15 |             |       |                            |
| 9054  | 16461.32(4) |          |             |       |                            |
| 9055  | 16460.92(3) | 16460.95 | 16460.93(3) | 3025  | S+ EF-2B (19-2) R4         |
| 9056  | 16460.69(3) | 16460.71 | 16460.74(3) | 3026  | T- 3c-2a (1-1) Q1          |
| 9057  | 16460.47(3) | 16460.54 | 16460.53(4) | 3027  | T+ 3d-2c (1-1) Q6          |
| 9058  | 16460.12(3) | 16460.37 | 16460.31(4) | 3028  |                            |
| 9059  | 16457.586(18) | 16457.60 | 16457.59(5) | 3030  |                            |
| 9060  | 16456.81(3) | 16456.98 | 16456.77(5) | 3031  |                            |
| 9061  | 16456.424(17) | 16456.44 | 16456.40(4) | 3033  |                            |
| 9062  | 16456.13(3) |          |             |       | S+ EF-2B (19-2) P1         |
| 9063  | 16454.26(3) | 16454.40 |             |       | T- 3e-2c (2-2) P8          |
| 9064  | 16453.911(17) | 16454.07 | 16453.93(4) | 3034  |                            |
| 9065  | 16453.52(16) | 16453.50 | 16453.51(3) | 3035  | T- 3c-2a (1-1) Q2          |
| 9066  | 16453.05(2) |          |             |       | S 4D-2C (0-1) Q4           |
| 9067  | 16452.33(2) | 16452.29 |             |       |                            |
| 9068  | 16451.423(17) | 16451.44 | 16451.42(3) | 3037  |                            |
| 9069  | 16451.035(19) | 16451.15 | 16450.98(4) | 3038  | T+ 3d-2c (0-0) R14         |
| 9070  | 16450.625(17) | 16450.63 | 16450.63(3) | 3039  | T+ 3e-2c (3-3) P8          |
| 9071  | 16449.32(2) |          | 16449.25(4) | 3040  |                            |
| 9072  | 16448.23(3) |          | 16448.18(5) | 3041  |                            |
| 9073  | 16446.91(4) |          | 16447.00    |       |                            |
| 9074  | 16446.56(4) |          |             |       |                            |
| 9075  | 16446.375(17) | 16446.39 | 16446.42(3) | 3042  | T+ 3d-2c (2-2) R5          |
|       |            |          | 16446.39    | 3043  | S 3A-2B (2-11) R1          |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 9076  | 16446.01(3) | 16446.20 | 16446.20   |       |            |
| 9077  | 16445.67(5) | 16445.66 | 16445.53   |       |            |
| 9078  | 16443.85(3) | 16443.86 | 16444.90   |       |            |
| 9079  | 16442.96(2) | 16443.09 | 16442.92(5) | 3044  | T- 3c-2a (1-1) Q3 |
| 9080  | 16442.146(16)| 16442.43 | 16442.44(3) | 3045  | T- 3c-2a (1-1) Q3 |
| 9081  | 16442.04(2) | 16442.21 | 16442.14(4) | 3046  | S+ EF-2B (21-3) P4 |
| 9082  | 16441.68(3) | 16441.59 | 16444.90   |       |            |
| 9083  | 16440.78(2) | 16440.79 | 16440.74(4) | 3047  |            |
| 9084  | 16439.64(2) | 16439.63 | 16439.58(3) | 3048  |            |
| 9085  | 16438.83(2) | 16438.79 | 16438.81(3) | 3049  |            |
| 9086  | 16438.47(2) | 16438.48 | 16438.52(4) | 3050  |            |
| 9087  | 16437.84(2) | 16437.84 | 16437.84   | S+ EF-2B (19-2) R5 |
| 9088  | 16437.62(3) | 16437.74 |            | T+ 3d-2c (0-0) Q9 |
|       |             | 16437.53 |            | 16437.53 |            |
| 9089  | 16437.060(18)| 16437.05 | 16437.06(3) | 3051  | T+ 3d-2c (2-2) P2 |
|       |             |        | 16436.91(5) | 3052  |            |
| 9090  | 16436.57(2) | 16436.51 | 16436.56(3) | 3053  | T- 3e-2c (3-3) P5 |
| 9091  | 16436.42(2) | 16436.40(3) | 16436.40(3) | 3054  |            |
| 9092  | 16435.46(2) | 16435.51 | 16435.49(3) | 3055  |            |
|       |             | 16435.36 | 16435.32(4) | 3056  | S+ GK-2B (8-12) R0 |
| 9093  | 16434.36(3) | 16434.60 |            |       |            |
| 9094  | 16433.43(3) | 16433.47(4) | 16433.28(6) | 3057  |            |
|       |             |        | 16432.95    | 3058  |            |
|       |             |        | 16432.02    | 3059  |            |
| 9095  | 16431.47(5) | 16431.46 |             | S+ EF-2B (32-9) R3 |
| 9096  | 16430.90(7) | 16430.82 |             |       |            |
| 9097  | 16430.34(4) | 16430.35 |             | S+ EF-2B (19-2) P2 |
| 9098  | 16429.88(3) | 16429.92 |             | T- 3e-2c (0-0) P13 |
| 9099  | 16429.50(4) | 16429.41 |             |       |            |
| 9100  | 16429.22(5) | 16429.15 |             |       |            |
| 9101  | 16428.65(5) |            |             |       |            |
| 9102  | 16428.23(4) | 16428.35 |             |       |            |
| 9103  | 16427.75(3) | 16427.73 | 16427.75(3) | 3059  | T- 3c-2a (1-1) Q4 |
|       |             |        | 16427.51    | 3060  | S+ GK-2B (0-5) P5 |
| 9104  | 16427.14(3) | 16427.10(3) | 16427.10(3) | 3061  | T+ 3d-2c (2-2) Q3 |
| 9105  | 16426.94(3) | 16427.02 | 16426.92(3) | 3062  |            |
| $K_1$ | $\nu^{(a)}$   | $\nu$    | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|------|-------------|---------|-------------|------|-----------------------------|
| 9106 | 16426.42(4) |         | 16426.32(4) | 3062 |                             |
| 9107 | 16426.20(4) |         | 16426.21    |      |                             |
| 9108 | 16425.37(3) | 16425.37| 16425.38(3) | 3063 | S+ EF-2B (32-9) R2         |
| 9109 | 16424.89(3) | 16424.87| 16424.88(4) | 3064 | T+ 3d-2c (1-1) P5          |
| 9110 | 16424.42(5) |         | 16424.40    |      |                             |
| 9111 | 16424.06(6) |         | 16424.19    |      |                             |
| 9112 | 16423.76(3) | 16423.76| 16423.76(3) | 3065 |                             |
| 9113 | 16423.15(4) |         | 16423.12(3) | 3066 |                             |
| 9114 | 16421.84(4) |         | 16421.97    |      |                             |
| 9115 | 16421.49(3) | 16421.57| 16421.558(17)| 3067|                             |
|      |             |         | 16421.50    | 3068 |                             |
| 9116 | 16420.94(3) |         | 16420.95    |      |                             |
| 9117 | 16420.63(4) |         | 16420.65    |      |                             |
|      |             |         | 16419.82    | S+   | EF-2B (17-1) R1            |
| 9118 | 16418.44(5) | 16418.49|            |      |                             |
| 9119 | 16417.55(5) |         |             |      |                             |
| 9120 | 16417.15(5) |         |             |      |                             |
| 9121 | 16417.01(3) | 16417.061(14)| 3069|         |                             |
|      |             | 16416.97| 16416.888(16)| 3070|                             |
| 9122 | 16416.77(3) | 16416.80| 16416.762(12)| 3071| T+ 3d-2c (2-2) R6         |
| 9123 | 16416.36(4) |         |             |      |                             |
| 9124 | 16415.82(4) | 16415.77| 16415.721(17)| 3072| S+ EF-2B (17-1) R2         |
| 9125 | 16415.61(4) |         |             |      |                             |
| 9126 | 16414.69(3) | 16414.70| 16414.698(13)| 3073|                             |
|      |             |         | 16414.47    | 3074 |                             |
| 9127 | 16414.23(3) | 16414.27| 16414.20(3) | 3075 |                             |
| 9128 | 16413.60(3) | 16413.60| 16413.600(12)| 3076| T+ 3c-2a (0-0) P6         |
| 9129 | 16413.11(4) |         |             |      |                             |
|      |             |         | 16412.71    | 3077 | T- 3c-2a (1-1) Q5          |
| 9130 | 16411.27(6) |         | 16411.29    |      |                             |
| 9131 | 16409.91(4) | 16410.07| 16409.93    |      |                             |
| 9132 | 16409.46(3) | 16409.48| 16409.472(12)| 3078|                             |
| 9133 | 16409.04(4) |         |             |      |                             |
| 9134 | 16408.57(5) | 16408.58|            |      | S+ GK-2B (8-12) P1         |
| 9135 | 16407.83(4) | 16407.91|            |      | S+ EF-2B (19-2) R6         |
| 9136 | 16407.27(3) | 16407.28| 16407.291(18)| 3079|                             |
| 9137 | 16406.29(3) | 16406.24| 16406.268(17)| 3079| T+ 3d-2c (0-0) R15         |
| 9138 | 16406.16(4) |         |             |      |                             |
| 9139 | 16405.64(3) | 16405.67| 16405.652(13)| 3080|                             |
| $K_1$ | $\nu^{(a)}$ | $\nu^{(c)}$ | $K_2$ | Assignment       |
|-------|-------------|-------------|-------|------------------|
| 9140  | 16403.78(3) | 16403.83    | 3081  | S+ EF-2B (17-1) R3 |
| 9141  | 16402.02(3) | 16401.98    | 3082  | T+ 3d-2c (1-1) Q7 |
| 9142  | 16401.82(3) | 16401.30    | 3083  | T+ 3d-2c (1-1) Q7 |
| 9143  | 16400.33(3) | 16400.33    | 3084  | T+ 3b-2a (5-1) P4 |
| 9144  | 16400.17(4) | 16400.106(19)| 3085 | T- 3e-2c (2-2) P9 |
| 9145  | 16399.77(3) | 16399.80    | 3086  | T- 3e-2c (2-2) P9 |
| 9146  | 16399.17(4) | 16399.24    | 3087  | T- 3e-2c (4-4) Q1 |
| 9147  | 16398.26(4) | 16398.29    | 3088  | S+ EF-2B (19-2) P3 |
| 9148  | 16397.13(3) | 16397.20    |       |                  |
| 9149  | 16396.72(3) | 16396.85    | 3089  | S+ EF-2B (21-3) P5 |
| 9150  | 16396.205(11)| 16396.21   | 3090  | T+ 3c-2a (1-1) P2 |
| 9151  | 16395.735(18)| 16395.38   |       |                  |
| 9152  | 16394.89(3) | 16394.75    |       |                  |
| 9153  | 16392.858(11)| 16392.85   | 3091  |                  |
| 9154  | 16392.44(2) | 16392.46(2) | 3092  |                  |
| 9155  | 16391.99(3) |           | 3093  |                  |
| 9156  | 16391.671(13)| 16391.66   | 3094  |                  |
| 9157  | 16391.487(18)| 16391.538(13)| 3095 |                  |
| 9158  | 16390.67(3) | 16390.67    | 3096  |                  |
| 9159  | 16390.274(18)| 16390.31   | 3097  |                  |
| 9160  | 16388.834(15)| 16388.82   | 3098  |                  |
| 9161  | 16388.19(2) | 16388.34    | 3099  |                  |
| 9162  | 16387.707(10)| 16387.71   | 3100  |                  |
| 9163  | 16387.24(2) |           |       |                  |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$   | $\nu$      | $\nu^{(c)}$ | $K_2$           | Assignment          |
|-------|----------------|------------|-------------|-----------------|---------------------|
| 9164  | 16386.759(12)  | 16386.78  | 16386.763(13)| 3102            | T+ 3c-2a (2-2) R7  |
| 9165  | 16386.19(2)    | 16386.28  |             |                 |                     |
| 9166  | 16385.815(11)  | 16385.82  | 16385.817(11)| 3103            | T+ 3c-2a (2-2) R6  |
|       |                |           | 16385.82    | S+ EF-2B (17-1) | P1                 |
| 9167  | 16385.31(3)    | 16385.11  |             |                 |                     |
| 9168  | 16384.85(2)    |           |             | S+ EF-2B (17-1) | R4                 |
| 9169  | 16384.569(11)  | 16384.56  | 16384.550(11)| 3105            | T+ 3d-2c (2-2) R7  |
| 9170  | 16384.278(19)  |           |             |                 |                     |
| 9171  | 16383.785(13)  | 16383.74  | 16383.790(15)| 3106            | T- 3c-2a (0-0) Q12 |
| 9172  | 16383.588(14)  | 16383.63  | 16383.589(12)| 3107            | T+ 3c-2a (2-2) R8  |
| 9173  | 16383.20(2)    |           |             |                 |                     |
| 9174  | 16382.150(12)  | 16382.16  | 16382.159(10)| 3108            | T+ 3d-2c (2-2) Q4  |
| 9175  | 16381.964(15)  | 16382.03  | 16381.981(11)| 3109            |                     |
|       |                |           | 16381.97    |                 |                     |
|       |                |           | 16381.28    |                 |                     |
| 9176  | 16380.788(11)  | 16380.79  | 16380.793(11)| 3110            | T+ 3c-2a (2-2) R5  |
|       |                |           | 16380.79    | S+ WW-2B (0-5) | P6                 |
| 9177  | 16380.063(13)  | 16380.07  | 16380.067(12)| 3111            | T+ 3d-2c (2-2) P3  |
| 9178  | 16379.283(15)  | 16379.28  | 16379.287(10)| 3112            |                     |
|       |                |           | 16378.42    |                 |                     |
|       |                |           | 16377.62    | S+ EF-2B (32-9) | P1                 |
| 9179  | 16377.35(2)    | 16377.33  |             |                 |                     |
| 9180  | 16376.212(11)  | 16376.20  | 16376.214(16)| 3114            | T+ 3c-2a (2-2) R9  |
| 9181  | 16374.19(3)    |           |             |                 |                     |
| 9182  | 16373.880(12)  | 16373.88  | 16373.879(15)| 3115            |                     |
| 9183  | 16373.597(17)  | 16373.79  |             |                 |                     |
| 9184  | 16373.382(18)  | 16373.51  | 16373.56(2) | 3116            | T+ 3d-2c (0-0) Q10 |
| 9185  | 16372.18(2)    | 16372.30  |             |                 | S 3A-2B (2-11) P1  |
| 9186  | 16371.711(10)  | 16371.69  | 16371.732(10)| 3117            | T+ 3c-2a (2-2) R4  |
| 9187  | 16371.23(3)    |           |             |                 |                     |
|       |                |           |             |                 |                     |
|       |                |           |             |                 |                     |
|       |                |           |             |                 |                     |
|       |                |           |             |                 |                     |
|       |                |           |             |                 |                     |


Table II (Continued).

| \(K_1\) | \(\nu^{(a)}\) | \(\nu\) | \(\nu^{(c)}\) | \(K_2\) | Assignment |
|---|---|---|---|---|---|
| 9188 | 16369.831(13) | 16369.80 | | | T- 3e-2c (0-0) P14 |
| 9189 | 16369.21(2) | 16369.08 | 16369.229(16) | 3118 | |
| 9190 | 16368.375(13) | 16368.38 | 16368.414(12) | 3119 | |
| 9191 | 16368.082(14) | | 16368.05(3) | 3120 | |
| 9192 | 16367.80(2) | | 16367.759(18) | 3121 | |
| 9193 | 16367.358(15) | | | 3122 | |
| 9194 | 16366.539(16) | 16366.54 | 16366.56 | S- 3F-2C (2-0) Q5 |
| | | | 16364.99 | S+ EF-2B (15-0) R0 |
| 9195 | 16364.441(7) | 16364.45 | 16364.464(16) | 3123 | T+ 3e-2c (2-2) R10 |
| 9196 | 16363.58(2) | | 16363.55 | 3124 | |
| 9197 | 16362.876(10) | 16362.80 | 16362.856(14) | 3125 | |
| | | | 16362.76(3) | 3126 | |
| 9198 | 16362.538(7) | 16362.53 | 16362.543(13) | 3127 | |
| 9199 | 16362.056(16) | 16361.94 | 16362.08 | T- 3c-2a (1-1) Q7 |
| 9200 | 16361.633(9) | 16361.67 | 16361.677(14) | 3128 | |
| | | | 16361.55 | 3129 | |
| 9201 | 16361.351(11) | 16361.16 | 16361.33(3) | 3130 | |
| 9202 | 16360.808(7) | 16360.81 | 16360.809(13) | 3131 | |
| 9203 | 16360.35(3) | 16360.05 | 16360.04(2) | 3132 | |
| 9204 | 16360.049(10) | 16360.05 | 16360.04(2) | 3133 | S+ EF-2B (32-9) P2 |
| 9205 | 16359.581(13) | 16359.58 | 16359.562(16) | 3134 | T+ 3b-2a (8-3) R1 |
| | | | 16359.58 | 3135 | S+ EF-2B (19-2) P4 |
| 9206 | 16359.108(17) | 16359.04 | 16359.10(3) | 3136 | |
| | | | 16359.04 | 3137 | S+ EF-2B (17-1) R5 |
| 9207 | 16358.650(7) | 16358.66 | 16358.642(12) | 3138 | |
| | | | 16358.45 | 3139 | |
| 9208 | 16358.05(3) | 16358.10 | 16358.00 | 16357.71(4) | 3140 | T+ 3c-2a (0-0) P7 |
| | | | | 16358.00 | |
| 9209 | 16357.542(8) | 16357.55 | 16357.53(2) | 3141 | |
| 9210 | 16356.826(7) | 16356.82 | 16356.812(12) | 3142 | T+ 3c-2a (1-1) P3 |
| 9211 | 16356.004(15) | 16355.94 | | | 3143 | |
| 9212 | 16354.174(15) | 16354.21 | 16354.169(17) | 3144 | T+ 3b-2a (8-3) R0 |
| | | | 16353.38(3) | 3145 | |
| 9213 | 16352.978(8) | 16352.95 | 16352.959(19) | 3146 | |
| 9214 | 16352.515(9) | 16352.48 | 16352.467(14) | 3147 | |
| | | | 16352.48 | 3148 | T+ 3b-2a (8-3) R2 |
| $K_1$ | $\nu^{(a)}$ | $\nu^{(b)}$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------------|-------------|------|------------|
| 9215  | 16351.360(15) | 16351.56 | 16351.37(2) | 3145 |            |
| 9216  | 16350.85(2)  | 16351.21(3) | 3146        |      |            |
| 9217  | 16350.431(15) | 16350.37(2) | 3147        |      |            |
| 9218  | 16350.204(8)  | 16350.17 | 16350.184(15) | 3148 | T+ 3d-2c (2-2) R8 |
| 9219  | 16349.885(19) | 16349.25 | 16348.47 | 3149 |            |
| 9220  | 16347.568(13) | 16347.38 | 16347.402(15) | 3150 | T- 3e-2c (4-4) P2 |
| 9221  | 16347.381(9)  | 16347.11 | 16347.302(17) | 3151 |            |
| 9222  | 16346.885(10) | 16346.88 |            |      |            |
| 9223  | 16346.62(3)   | 16346.52 |            |      |            |
| 9224  | 16346.16(2)   | 16346.103(17) | 3152      |      |            |
| 9225  | 16345.753(10) | 16345.66 | 16345.673(19) | 3153 |            |
| 9226  | 16345.552(17) | 16345.66 |            |      |            |
| 9227  | 16345.03(2)   |            |            |      |            |
| 9228  | 16344.507(9)  | 16344.41 | 16344.500(16) | 3154 | T- 3e-2c (2-2) P10 |
| 9229  | 16344.278(15) | 16344.24 | 16344.301(18) | 3155 | T+ 3e-2c (4-4) P3 |
| 9230  | 16343.88(2)   |            |            |      |            |
| 9231  | 16343.259(19) | 16343.39 | 16343.21(2) | 3156 | T+ 3b-2a (10-4) R0 |
| 9232  | 16342.956(15) | 16342.97 | 16342.968(19) | 3157 |            |
| 9233  | 16342.191(14) | 16342.97 |            |      |            |
| 9234  | 16341.717(7)  | 16341.71 | 16341.713(12) | 3158 | T+ 3c-2a (9-8) Q1 |
| 9235  | 16341.434(10) | 16341.59 | 16341.476(16) | 3159 |            |
| 9236  | 16341.097(10) | 16341.108(13) | 3160   |      |            |
| 9237  | 16340.563(8)  | 16340.53 | 16340.534(15) | 3161 | T+ 3b-2a (10-4) R1 |
| 9238  | 16340.25(3)   |            |            |      |            |
| 9239  | 16339.75(3)   | 16339.86 | 16339.86 | 3162 |            |
| 9240  | 16339.419(8)  | 16339.48 | 16339.565(17) | 3163 | S- 3F-2C (2-0) Q7 |
| 9241  | 16338.033(18) | 16338.51 | 16338.51 | 3164 | T- 3c-2a (0-0) Q13 |
|       |               | 16337.08 | 16335.87 | 3165 |            |

Table II (Continued).
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 9242  | 16335.062(17) | 16335.07 | 16335.06(2) | 3165  | T- 3c-2a (9-8) Q2 |
| 9243  | 16334.45(2)   | 16334.63 | 16334.47    |       | S- 3E-2C (5-2) P3 |
| 9244  | 16334.076(14) | 16334.09 | 16334.07(2) | 3166  | T- 3c-2a (1-1) Q8 |
| 9245  | 16333.71(3)   |       |             |       |             |
| 9246  | 16333.39(4)   | 16333.38 |           |       |             |
| 9247  | 16332.950(18) | 16332.95 | 16332.94(3) | 3167  | T+ 3b-2a (8-3) R3 |
| 9248  | 16332.363(15) | 16332.39 | 16332.38(2) | 3168  | T+ 3d-2c (2-2) Q5 |
|       | 16332.32      | 16332.19(2) | 3169       |       |             |
| 9249  | 16331.998(14) | 16332.08 | 16331.96(2) | 3170  |             |
|       |       | 16331.97   |             |       |             |
| 9250  | 16331.55(3)   | 16331.45 |           |       |             |
| 9251  | 16331.089(16) | 16331.08 | 16330.43 | 3171  | T- 3e-2c (4-4) P3 |
|       |       | 16330.59(3) |           |       |             |
| 9252  | 16329.271(17) | 16329.27 |           |       |             |
| 9253  | 16328.503(16) | 16328.49 | 16328.55(3) | 3172  |             |
| 9254  | 16328.093(18) | 16328.04 | 16328.07(2) | 3173  |             |
| 9255  | 16327.91(2)   | 16327.91(3) | 3175     |       |             |
| 9256  | 16327.483(15) | 16327.49 | 16327.49(2) | 3176  | S+ 3E-2C (4-4) P4 |
|       |       | 16327.40(4) |           |       |             |
| 9257  | 16326.996(15) | 16327.00 | 16326.98(2) | 3178  | T+ 3b-2a (5-1) P5 |
|       |       | 16326.47   |           |       |             |
| 9258  | 16326.057(17) | 16326.06 | 16326.04(2) | 3179  | T+ 3b-2a (10-4) R2 |
|       |       | 16325.28   |           |       | S+ EF-2B (17-1) P3 |
| 9259  | 16324.664(15) | 16324.66 | 16324.65(2) | 3180  |             |
|       |       | 16324.13   |           |       |             |
| 9260  | 16323.179(18) | 16323.19 | 16323.18(3) | 3181  | T- 3c-2a (9-8) Q3 |
| 9261  | 16322.40(2)   |       |             |       |             |
| 9262  | 16322.21(2)   | 16322.24 | 16322.28(3) | 3182  | S+ GK-2B (2-7) R1 |
| 9263  | 16321.76(3)   | 16321.61 |           |       |             |
| 9264  | 16321.42(3)   |       |             |       |             |
| 9265  | 16321.001(14) | 16320.98 | 16320.987(19) | 3183 | T+ 3c-2a (2-2) R1 |
| 9266  | 16320.53(3)   |       |             |       |             |
|       |       | 16320.21   |           |       |             |
| 9267  | 16319.507(18) | 16319.53(4) | 3184    |       |             |
| 9268  | 16319.20(2)   | 16319.29(4) | 3185    |       |             |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-----|------------|-------|------------|
| 9269  | 16318.72(3) | 16318.66 |  |  |  |
| 9270  | 16317.64(2) | 16317.65 |  |  |  |
| 9271  | 16316.99(2) | 16316.96 |  |  |  |
| 9272  | 16316.07(3) | 16316.03 | 16316.10(2) | 3186 |  |
| 9273  | 16315.01(2) | 16315.03 | 16314.93 |  |  |
| 9274  | 16314.593(16) | 16314.65 | 16314.62(3) | 3187 | S+ EF-2B (19-2) P5 |
|       |             | 16314.47(4) | 3188 |  |  |
| 9275  | 16314.083(14) | 16314.06 | 16314.092(19) | 3189 | T+ 3d-2c (2-2) R9 |
|       |             | 16314.06 | 3190 | T+ 3c-2a (1-1) P4 |
| 9276  | 16313.67(2) |  |  |  |  |
| 9277  | 16313.15(3) | 16313.26 |  |  |  |
| 9278  | 16312.855(16) | 16312.85 | 16312.85(3) | 3191 |  |
|       |             | 16312.57(4) | 3192 |  |  |
| 9279  | 16312.29(3) |  | 16312.13(4) | 3193 |  |
| 9280  | 16310.78(3) | 16310.78 |  |  |  |
| 9281  | 16310.10(2) | 16310.15 |  |  |  |
| 9282  | 16309.706(16) | 16309.71 |  |  |  |
|       |             | 16309.33 |  |  |  |
| 9283  | 16308.817(14) | 16308.84 |  |  |  |
|       |             | 16307.94 |  |  |  |
| 9284  | 16307.62(3) | 16307.70 |  |  |  |
| 9285  | 16307.324(12) | 16307.35 | 16307.40(2) | 3194 | T+ 3e-2c (4-4) P5 |
|       |             | 16307.35 | 3195 | T- 3c-2a (9-8) Q4 |
| 9286  | 16306.98(3) |  | 16306.85(3) | 3196 |  |
| 9287  | 16306.69(2) | 16306.58 |  |  |  |
| 9288  | 16306.10(2) | 16306.13 | 16306.05(2) | 3197 | T+ 3b-2a (8-3) P1 |
| 9289  | 16305.81(2) | 16305.85 | 16305.83(3) | 3198 |  |
|       |             | 16305.77 |  |  |  |
| 9290  | 16305.355(10) | 16305.36 | 16305.38(2) | 3199 | T+ 3c-2a (0-0) P8 |
| 9291  | 16304.956(19) |  | 16304.64 |  |  |
| 9292  | 16304.145(12) | 16304.16 | 16304.17(2) | 3200 |  |
| 9293  | 16303.65(3) |  |  |  |  |
| 9294  | 16302.78(2) | 16302.96 |  |  |  |
| 9295  | 16302.391(10) | 16302.39 | 16302.38(2) | 3201 | T- 3c-2a (1-1) Q9 |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 9296  | 16301.993(17) | 16301.36 | 16301.40(4) | 3202  |            |
| 9297  | 16301.48(2)  | 16301.23 | 16301.21(3) | 3203  | T+ 3b-2a (8-3) R4 |
|       |              |         | 16301.23   |       | T+ 3b-2a (10-4) P1 |
| 9298  | 16300.46(2)  | 16300.39 | 16300.41(4) | 3204  |            |
| 9299  | 16300.145(11)| 16300.16 | 16300.13(2) | 3205  | T+ 3d-2c (3-3) R1 |
| 9300  | 16299.808(16)| 16299.88 | 16299.82(3) | 3206  |            |
|       |              | 16299.75 | 16299.34    |       |            |
| 9301  | 16299.06(3)  | 16297.96 | 16297.96    | 3207  |            |
| 9302  | 16297.87(3)  | 16297.89 | 16297.89    |       |            |
| 9303  | 16297.361(19)| 16297.48 | 16297.18    |       |            |
| 9304  | 16297.07(2)  | 16297.18 | 16297.18    |       |            |
| 9305  | 16296.599(10)| 16296.59 | 16296.58(2) | 3208  | T+ 3c-2a (2-2) R0 |
| 9306  | 16296.16(2)  | 16296.06 | 16295.74    |       |            |
| 9307  | 16295.71(3)  | 16295.74 | 16295.29    | 3209  | T- 3e-2c (3-3) P8 |
| 9308  | 16295.351(13)| 16295.33(2)| 16295.33(2) | 3210  |            |
| 9309  | 16295.188(16)| 16295.17(3)| 16295.17(3) | 3211  |            |
| 9310  | 16294.841(17)| 16294.90 | 16294.86(2) | 3212  |            |
| 9311  | 16294.36(3)  | 16294.30 | 16294.39(4) |       |            |
| 9312  | 16294.24     |         | 16294.24    |       |            |
| 9313  | 16293.860(12)| 16293.82 | 16293.84(2) | 3213  | T+ 3d-2c (3-3) R2 |
| 9314  | 16293.660(15)| 16293.68(3)| 16293.68(3) | 3214  |            |
| 9315  | 16293.117(17)| 16292.93 | 16292.93    |       |            |
| 9316  | 16292.51(3)  |         | 16292.51(3) |       |            |
| 9317  | 16292.349(12)| 16292.33 | 16292.33(3) | 3215  | T- 3c-2a (0-0) Q14 |
| 9318  | 16291.90(3)  |         | 16291.90(3) |       |            |
| 9319  | 16291.295(11)| 16291.28(2)| 16291.28(2) | 3216  |            |
| 9320  | 16291.135(13)| 16291.21 | 16291.13(2) | 3217  | S- 3F-2C (3-1) R3 |
| 9321  | 16290.342(15)| 16290.33 | 16290.31(4) | 3218  |            |
| 9322  | 16290.16(2)  |         | 16290.16(2) |       |            |
| 9323  | 16289.85(3)  |         | 16289.85(3) |       |            |
| 9324  | 16289.363(12)| 16289.33 | 16289.36(3) | 3219  |            |
| 9325  | 16289.083(14)| 16289.13(4)| 16289.13(4) | 3220  |            |
| 9326  | 16288.60(2)  | 16288.04 | 16289.01(3) | 3221  |            |
| 9327  | 16288.429(12)| 16288.74 | 16288.46(3) | 3222  |            |
| 9328  | 16288.397(13)| 16288.39 | 16288.39(3) | 3223  |            |
| 9329  | 16287.825(16)| 16287.84 | 16287.80(3) | 3224  |            |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                      |
|-------|------------|-------|------------|-------|---------------------------------|
| 9330  | 16287.65(2)|       |            |       |                                 |
| 9331  | 16286.26(4)|       | 16286.19(2)| 3226  |                                 |
| 9332  | 16286.003(17)| 16285.98| 16285.98(3)| 3227  |                                 |
| 9333  | 16285.656(12)| 16285.65| 16285.64(2)| 3228  | T+ 3e-2c (4-4) P6              |
| 9334  | 16285.218(13)| 16285.23| 16285.22(3)| 3229  |                                 |
| 9335  | 16284.87(2) |       | 16284.81(3)| 3231  |                                 |
| 9336  | 16284.618(19)|       | 16283.95   |       | S+ EF-2B (17-1) P4             |
| 9337  | 16282.18(3) |       | 16282.19(3)| 3232  |                                 |
| 9338  | 16281.88(4) |       |            |       |                                 |
| 9339  | 16280.84(4) |       | 16280.87   |       |                                 |
| 9340  | 16280.31(2) | 16280.33| 16280.34(2)| 3233  | T+ 3d-2c (3-3) R3              |
| 9341  | 16279.93(2) | 16279.88| 16279.96(3)| 3234  |                                 |
| 9342  | 16279.62(3) | 16279.66|            |       |                                 |
| 9343  | 16279.15(2) | 16279.12| 16279.14(2)| 3236  | T+ 3d-2c (2-2) Q6              |
| 9344  | 16278.96(2) | 16278.96|            | 3237  | S+ GK-2B (2-7) P1              |
|       |            |       |            |       | 16278.95                        |
| 9345  | 16278.34(5) |       |            |       |                                 |
| 9346  | 16278.07(6) |       | 16278.19   |       |                                 |
| 9347  | 16277.07(4) |       |            |       |                                 |
| 9348  | 16276.66(2) | 16276.66| 16276.67(2)| 3238  | T+ 3d-2c (2-2) R10             |
| 9349  | 16276.22(5) |       |            |       |                                 |
| 9350  | 16275.80(4) |       | 16275.72   |       |                                 |
| 9351  | 16275.01(3) |       | 16275.08(3)| 3239  |                                 |
| 9352  | 16274.31(4) | 16274.06|            | 3240  |                                 |
| 9353  | 16273.00(3) |       | 16272.992(13)| 3241 |                                 |
| 9354  | 16272.52(4) |       |            |       |                                 |
| 9355  | 16270.68(3) |       | 16270.74   |       |                                 |
| 9356  | 16270.26(2) |       | 16270.23   | 3242  |                                 |
| 9357  | 16269.93(3) |       |            |       |                                 |
| 9358  | 16269.62(3) | 16269.58| 16269.600(13)| 3243| T+ 3d-2c (3-3) Q1              |
| 9359  | 16269.38(3) | 16269.47| 16269.409(16)| 3244 |                                 |
| 9360  | 16268.21(3) | 16268.37|            | 3245  |                                 |
| 9361  | 16267.79(2) | 16267.78| 16267.777(11)| 3246| T+ 3c-2a (1-1) P5              |
| 9362  | 16267.62(2) | 16267.60| 16267.600(15)| 3247| T- 3c-2a (1-1) Q10             |
|       |            |       |            |       |                                 |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 9363  | 16267.23(3) |       |             |       |            |
| 9364  | 16266.82(3) | 16266.98 | 16266.87   |       |            |
| 9365  | 16266.43(3) | 16266.56 | 16266.34   | 16266.13 | S- 3E-2B (2-10) Q7 |
|       |             | 16265.91 | 16265.66   |       |            |
| 9366  | 16265.37(3) |       | 16265.279(12) | 3248 |
| 9367  | 16265.05(2) | 16265.05 | 16265.038(10) | 3249 | T- 3c-2a (2-2) Q1 |
| 9368  | 16264.58(2) | 16264.54 | 16264.58(2) | 3250 |
|       |             |         | 16264.38(2) | 3251 |
| 9369  | 16264.26(3) | 16264.20 | 16264.19(3) | 3252 |
| 9370  | 16263.66(3) | 16263.67 | 16263.652(12) | 3253 | T+ 3b-2a (8-3) P2 |
|       |             |         | 16263.46   | 3253 |
|       |             |         | 16262.71   | 3253 |
| 9371  | 16261.76(4) | 16261.66 |             |       | S+ GK-2B (2-7) P2 |
| 9372  | 16261.39(3) |       | 16261.381(19) | 3254 |
| 9373  | 16261.25(3) | 16261.26 | 16261.263(19) | 3255 | T+ 3d-2c (3-3) R4 |
|       |             |         | 16261.16(2) | 3256 |
| 9374  | 16260.93(3) |       |             |       |            |
| 9375  | 16260.19(4) | 16260.27 |             |       | T+ 3d-2c (1-1) P7 |
|       |             |         | 16260.27   | 3257 |
| 9376  | 16258.88(4) | 16258.76 |             |       |            |
|       |             |         | 16258.76   | 3257 |
|       |             |         | 16258.65   | 3257 |
| 9377  | 16258.49(3) | 16258.44 |             |       | T+ 3b-2a (8-3) R5 |
| 9378  | 16258.12(3) |       | 16258.113(13) | 3257 |
| 9379  | 16257.83(2) | 16257.81 | 16257.822(10) | 3258 | T- 3c-2a (2-2) Q2 |
| 9380  | 16257.46(3) |       |             |       |            |
| 9381  | 16257.03(3) | 16257.02 | 16257.021(16) | 3259 | T+ 3b-2a (10-4) P2 |
| 9382  | 16256.41(3) | 16256.38 |             |       |            |
| 9383  | 16255.89(5) |       |             |       |            |
|       |             |         | 16255.54   | 3259 |
| 9384  | 16255.06(2) | 16255.06 | 16255.066(12) | 3260 | T+ 3d-2c (3-3) P1 |
| 9385  | 16254.74(5) |       | 16254.75(3) | 3261 |
| 9386  | 16254.55(3) | 16254.57 | 16254.565(14) | 3262 |
| 9387  | 16254.15(3) | 16254.30 |             |       |            |
|       |             |         | 16254.17   | 3262 |
|       |             |         | 16253.26   | 3262 |
| 9388  | 16252.74(4) |       |             |       |            |
|       |             |         | 16252.20   | 3262 |
| $K_1$ | $\nu^{(a)}$ | $\nu^{(b)}$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------------|-------------|-------|------------|
| 9389  | 16251.59(3) | 16251.56    | 16251.606(13) | 3263  | T- 3e-2c (4-4) P5 |
| 9390  | 16251.43(3) |             | 16251.445(16) | 3264  |             |
| 9391  | 16250.94(5) |             |             |       |             |
| 9392  | 16250.75(4) | 16250.76    |             |       |             |
| 9393  | 16249.64(3) | 16249.68    | 16248.81    |       |             |
| 9394  | 16247.96(3) | 16248.00    | 16247.90    |       |             |
| 9395  | 16247.409(16)| 16247.42   | 16247.419(13)| 3265  | T+ 3c-2a (0-0) P9 |
| 9396  | 16246.975(16)| 16246.99   | 16246.992(10)| 3266  | T- 3c-2a (2-2) Q3 |
| 9397  | 16246.63(2) | 16246.73    | 16246.639(19)| 3267  | S- 3F-2C (3-1) R1 |
| 9398  | 16246.378(16)| 16246.39   | 16246.387(11)| 3268  | T+ 3b-2a (5-1) P6 |
| 9399  | 16245.91(3) | 16245.79    |             |       |             |
| 9400  | 16245.41(3) | 16245.46    | 16245.40(2) | 3269  |             |
| 9401  | 16245.130(19)| 16245.13   | 16245.167(11)| 3270  | T+ 3d-2c (3-3) Q2 |
| 9402  | 16244.87(3) | 16244.67    | 16244.639(18)| 3272  |             |
| 9403  | 16244.552(19)| 16243.89   |             |       |             |
| 9404  | 16243.94(2) |             |             |       |             |
| 9405  | 16243.73(3) |             |             |       |             |
|       | 16243.26    |             |             |       | S+ GK-2B (2-7) P3 |
|       |             | 16242.97    |             |       |             |
|       |             | 16242.89    |             |       |             |
| 9406  | 16242.773(19)| 16242.75   | 16242.76(2) | 3273  | T- 3c-2a (0-0) Q15 |
| 9407  | 16242.52(2) | 16242.62    | 16242.54(2) | 3274  |             |
| 9408  | 16241.42(2) | 16241.44    | 16241.44(2) | 3275  | T+ 3d-2c (2-2) P5 |
| 9409  | 16240.26(4) | 16240.26    |             |       |             |
| 9410  | 16239.73(4) | 16239.71    |             |       |             |
| 9411  | 16238.55(3) | 16238.34    |             |       |             |
| 9412  | 16238.11(3) | 16238.07    |             |       |             |
| 9413  | 16237.726(18)| 16237.71   | 16237.772(14)| 3276  | T+ 3d-2c (3-3) R5 |
| 9414  | 16237.57(3) | 16237.71    | 16237.677(15)| 3277  | T+ 3d-2c (2-2) R11 |
|       |             | 16237.53    | 16237.506(13)| 3278  |             |
| 9415  | 16237.21(2) | 16237.23    | 16237.217(13)| 3279  |             |
| 9416  | 16237.04(3) |             |             |       |             |
| 9417  | 16236.65(3) |             |             |       |             |
|       |             |             | 16236.39    |       |             |
Table II (Continued).

| $K_1$ | $\nu(a)$ | $\nu$  | $\nu(c)$ | $K_2$ | Assignment                      |
|-------|-----------|--------|-----------|-------|---------------------------------|
| 9418  | 16235.40(2) | 16235.42 | 16235.416(13) | 3280  | S+ EF-2B (17-1) P5              |
| 9419  | 16234.400(19) | 16234.40 | 16234.35(3) | 3281  |                                 |
| 9420  | 16234.13(3) | 16234.05 |           |       |                                 |
| 9421  | 16233.553(18) | 16233.58 | 16233.57(2) | 3283  |                                 |
| 9422  | 16233.15(2) | 16233.26 |           |       |                                 |
| 9423  | 16232.635(16) | 16232.64 | 16232.661(12) | 3284  | T- 3c-2a (2-2) Q4               |
| 9424  | 16232.199(18) | 16232.40 |           |       |                                 |
| 9425  | 16231.77(2) | 16231.82 | 16231.82(3) | 3285  |                                 |
| 9426  | 16231.38(4) | 16231.19 |           |       |                                 |
| 9427  | 16230.89(4) |          |           |       |                                 |
| 9428  | 16230.31(3) | 16230.41 |           |       |                                 |
| 9429  | 16229.890(17) | 16229.90 | 16229.914(18) | 3286  | T- 3c-2a (1-1) Q11              |
| 9430  | 16229.61(4) |          |           |       |                                 |
| 9431  | 16228.77(4) | 16228.86 |           |       |                                 |
|       |            |        | 16227.28  |       |                                 |
|       |            |        | 16226.67  |       |                                 |
|       |            |        | 16225.33  |       |                                 |
|       |            |        | 16223.91  |       |                                 |
| 9432  | 16223.240(18) | 16223.21 | 16223.281(14) | 3287  | T+ 3d-2c (2-2) Q7               |
| 9433  | 16223.02(2) |          | 16223.103(18) | 3288  |                                 |
| 9434  | 16221.39(2) | 16221.43 | 16221.375(19) | 3289  |                                 |
| 9435  | 16220.33(2) | 16220.40 | 16220.37(4) | 3290  |                                 |
|       |            |        | 16218.94  |       |                                 |
| 9436  | 16217.86(5) |          |           |       |                                 |
| 9437  | 16217.476(19) | 16217.48 | 16217.45(3) | 3291  |                                 |
| 9438  | 16217.28(2) |          |           |       |                                 |
| 9439  | 16216.83(4) | 16216.68 |           |       |                                 |
| 9440  | 16216.46(2) | 16216.41 |           |       |                                 |
| 9441  | 16216.015(17) | 16216.04 | 16216.01(3) | 3292  | T+ 3c-2a (1-1) P6               |
|       |            |        | 16215.88  |       |                                 |
| 9442  | 16215.58(2) |          |           |       |                                 |
| 9443  | 16215.202(18) | 16215.30 | 16215.20(4) | 3293  |                                 |
| 9444  | 16214.804(18) | 16214.83 | 16214.79(3) | 3294  | T- 3c-2a (2-2) Q5               |
| 9445  | 16214.50(2) | 16214.51 | 16214.47(3) | 3295  | T+ 3d-2c (3-3) P2               |
| 9446  | 16214.23(3) |          |           |       |                                 |
| 9447  | 16213.780(19) | 16213.84 |          |       |                                 |
| Table II (Continued). | \(K_1\) | \(\nu^{(a)}\) | \(\nu\) | \(\nu^{(c)}\) | \(K_2\) | Assignment |
|----------------------|--------|-------------|--------|-------------|--------|------------|
| 9448                 | 16213.26(2) | 16213.28 (1) | 16212.37 | 3296 | T+ 3d-2c (3-3) Q3 |
| 9449                 | 16211.680(19) | 16211.67 | 16211.68(3) | 3297 | T+ 3d-2c (3-3) R3 |
| 9450                 | 16211.48(2) | 16211.54 | 16211.51(3) | 3298 | T+ 3d-2c (3-3) R6 |
| 9451                 | 16211.03(3) | 16211.09 | 16210.73(3) | 3299 | T+ 3d-2c (3-3) R6 |
| 9452                 | 16210.693(17) | 16210.71 | 16210.64(3) | 3300 | T+ 3d-2c (3-3) R6 |
| 9453                 | 16210.25(3) | 16210.05 | 16209.79 | 3301 | T+ 3d-2c (3-3) R6 |
| 9454                 | 16209.320(19) | 16209.26 | 16209.32(3) | 3302 | T+ 3d-2c (3-3) R6 |
| 9455                 | 16209.14(2) | 16209.11 | 16209.13(3) | 3303 | T+ 3d-2c (3-3) R6 |
| 9456                 | 16207.14(2) | 16207.15 | 16207.15 | 3304 | T+ 3d-2c (3-3) R6 |
| 9457                 | 16206.34(4) | 16206.36 | 16205.44 | 3305 | T+ 3d-2c (3-3) R6 |
| 9458                 | 16204.670(18) | 16204.72 | 16204.63(4) | 3306 | T+ 3d-2c (3-3) R6 |
| 9459                 | 16203.98(2) | 16203.95 | 16203.94(4) | 3307 | T+ 3d-2c (3-3) R6 |
| 9460                 | 16203.54(4) | 16203.61 | 16203.42(4) | 3308 | T+ 3d-2c (3-3) R6 |
| 9461                 | 16203.29(3) | 16203.40 | 16202.88 | 3309 | T+ 3d-2c (3-3) R6 |
| 9462                 | 16202.752(17) | 16202.75 | 16202.74(3) | 3310 | T+ 3d-2c (3-3) R6 |
| 9463                 | 16202.24(2) | 16202.19 | 16202.13(4) | 3311 | T+ 3d-2c (3-3) R6 |
| 9464                 | 16201.368(18) | 16201.35 | 16201.34(4) | 3312 | T+ 3d-2c (3-3) R6 |
| 9465                 | 16199.85(2) | 16199.85 | 16199.83(3) | 3313 | T+ 3d-2c (3-3) R6 |
| 9466                 | 16198.83(4) | 16198.81 | 16198.91 | 3314 | T+ 3d-2c (3-3) R6 |
| 9467                 | 16198.412(18) | 16198.40 | 16198.39(3) | 3315 | T+ 3d-2c (3-3) R6 |
| 9468                 | 16198.14(2) | 16198.32 | 16198.06(4) | 3316 | T+ 3d-2c (3-3) R6 |
| 9469                 | 16197.89(3) | 16197.86 | 16197.15 | 3317 | T+ 3d-2c (3-3) R6 |
| 9470                 | 16195.56(3) | 16195.57(3) | 16194.36 | 3318 | T+ 3d-2c (3-3) R6 |
| 9471                 | 16194.06(4) | 16194.21 | 16193.92 | 3319 | T+ 3d-2c (3-3) R6 |
| 9472                 | 16193.61(3) | 16193.59 | 16193.61(4) | 3320 | T+ 3d-2c (3-3) R6 |
| 9473                 | 16193.20(4) | 16193.20(4) | 16193.20(4) | 3321 | T+ 3d-2c (3-3) R6 |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment          |
|------|------------|------|------------|------|--------------------|
| 9474 | 16192.78(3)| 16192.78 | 16192.76(3) | 3315 |                    |
| 9475 | 16192.58(4)| 16192.26 | 16191.78    |      |                    |
| 9476 | 16191.93(3)| 16191.31 | 16191.28(5) | 3317 | T- 3c-2a (0-0) Q16|
| 9477 | 16190.87(3)| 16190.87 | 16190.86(4) | 3318 |                    |
| 9478 | 16189.78(4)| 16189.93 | 16189.32    | 3319 |                    |
| 9479 | 16188.76(4)| 16188.63 | 16189.33(3) | 3319 |                    |
| 9480 | 16187.87(4)| 16187.71 |            |      |                    |
| 9481 | 16187.50(3)| 16187.48(2)| 3320       |      |                    |
| 9482 | 16187.13(3)| 16187.13 | 16187.109(17)| 3321| T+ 3c-2a (0-0) P10|
| 9483 | 16185.29   | 16185.01 | 16185.17    | 3322 |                    |
| 9484 | 16184.27   | 16184.27 |            |      |                    |
| 9485 | 16183.60(3)| 16183.65 | 16183.59(3) | 3323 |                    |
| 9486 | 16181.38(4)| 16181.43 | 16181.38(3) | 3324 |                    |
| 9487 | 16181.02(3)| 16180.972(17)| 3325      |      | T+ 3d-2c (3-3) R7 |
| 9488 | 16180.87(3)| 16180.93 | 16180.826(16)| 3326| T+ 3c-2a (3-3) R5 |
| 9489 | 16180.84   | 16180.84 | 16180.84    | 3327 | S+ EF-2B (17-1) P6|
| 9490 | 16180.47(4)| 16180.06 |            |      |                    |
| 9491 | 16178.82(4)| 16178.86 |            |      |                    |
| 9492 | 16178.34(3)| 16178.38 | 16178.31(3) | 3328 |                    |
| 9493 | 16176.72(4)| 16176.74 | 16176.74    |      |                    |
| 9494 | 16176.12(3)| 16176.09 | 16176.082(16)| 3329| T+ 3c-2a (1-1) P7 |
| 9495 | 16175.79(4)| 16175.85 | 16175.860(16)| 3330|                    |
| 9496 | 16175.46(5)| 16175.50 | 16175.52(3) | 3331 |                    |
| 9497 | 16174.98(3)| 16174.94 | 16174.937(15)| 3332| T+ 3c-2a (3-3) R4 |
| 9498 | 16172.88(5)| 16172.41 | 16172.408(18)| 3333|                    |
| 9499 | 16172.44(3)| 16172.12 | 16171.77(3) | 3334 |                    |
| 9500 | 16171.79(3)| 16171.84 |            |      |                    |
| $K_1$ | $\nu^{(a)}$   | $\nu^{(c)}$     | $K_2$   | Assignment       |
|-------|---------------|------------------|---------|------------------|
| 9501  | 16171.38(3)   | 16171.347(16)    | 3333    |                  |
| 9502  | 16171.19(3)   | 16171.175(17)    | 3333    | T+ 3d-2c (3-3)  Q4|
| 9503  | 16169.53(4)   | 16169.72         |         |                  |
| 9504  | 16169.08(3)   | 16169.06         | 3335    | T- 3c-2a (2-2)  Q7|
| 9505  | 16168.63(4)   |                 | 16168.24|                  |
| 9506  | 16167.18(5)   | 16167.27         |         |                  |
| 9507  | 16165.93(4)   | 16166.03         |         |                  |
| 9508  | 16165.46(3)   | 16165.51         | 3336    | T+ 3d-2c (2-2)  Q8|
| 9509  | 16165.28(3)   | 16165.35         | 3337    |                  |
| 9510  | 16164.96(3)   | 16164.95         | 3338    | T+ 3d-2c (2-2)  P6|
| 9511  | 16164.73(3)   | 16164.88         | 3339    |                  |
| 9512  | 16164.37(4)   |                 | 16164.37|                  |
| 9513  | 16163.85(3)   | 16164.09         | 3340    |                  |
| 9514  | 16163.45(3)   | 16163.45         | 3341    | T+ 3c-2a (3-3)  R3|
| 9515  | 16162.97(5)   |                 | 16163.26|                  |
| 9516  | 16162.76(3)   | 16162.80         | 3342    | T+ 3d-2c (3-3)  P3|
| 9517  | 16160.39(6)   | 16160.47         | 16160.1 |                  |
| 9518  | 16159.57(6)   | 16159.77         |         | S- 3F-2C (3-1)  Q5|
| 9519  | 16159.38(4)   | 16159.42         | 3343    |                  |
| 9520  | 16158.94(5)   | 16158.90         |         |                  |
| 9521  | 16158.60(6)   | 16158.56         |         |                  |
| 9522  | 16158.06(5)   |                 | 16158.06|                  |
| 9523  | 16156.92(5)   | 16156.91         |         |                  |
| 9524  | 16155.89(4)   | 16155.96         |         |                  |
| 9525  | 16155.52(6)   | 16155.18         |         |                  |
| 9526  | 16154.55(5)   | 16154.51         |         |                  |
| 9527  | 16154.36(5)   | 16154.30         |         |                  |
| 9528  | 16153.52(4)   | 16153.52         | 3344    |                  |
| 9529  | 16153.05(5)   | 16153.09         |         |                  |
| 9530  | 16152.66(5)   | 16152.65(4)      | 3345    |                  |
| 9531  | 16151.29(6)   |                 | 16151.29|                  |
| 9532  | 16150.95(4)   | 16150.98         | 3346    |                  |
|       |               | 16150.42         |         |                  |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                |
|-------|-------------|-------|-------------|-------|---------------------------|
| 9533  | 16149.92(6) | 16149.97 | 16149.89(4) | 3347  |                           |
| 9534  | 16149.46(5) | 16149.49 |             |       |                           |
| 9535  | 16149.01(5) | 16148.82(4) | 16148.86(3) | 3348  | T+ 3d-2c (3-3) R8        |
| 9536  | 16148.56(5) | 16148.32 | 16148.77(3) | 3349  |                           |
| 9537  | 16148.15(5) |             |             |       |                           |
| 9538  | 16147.71(4) | 16147.69 | 16147.69(2) | 3350  | T+ 3c-2a (3-3) R2        |
| 9539  | 16147.29(5) |             | 16146.11    |       |                           |
| 9540  | 16146.92(5) | 16146.89 | 16146.92(3) | 3351  |                           |
| 9541  | 16146.73(5) | 16146.79 | 16146.77(4) | 3352  |                           |
| 9542  | 16146.02(4) | 16146.03 | 16146.01(3) | 3353  | T- 3c-2a (1-1) Q13       |
| 9543  | 16144.90(8) | 16144.92 |             |       |                           |
| 9544  | 16144.27(6) | 16143.35 |             |       | S+ EF-2B (19-2) P8       |
| 9545  | 16142.88(5) |             | 16142.84(3) | 3354  |                           |
| 9546  | 16142.69(4) | 16142.67 | 16142.69(3) | 3355  | T+ 3b-2a (8-3) P4        |
| 9547  |             | 16142.67 |             |       | S- 3E-2B (2-10) Q5       |
| 9548  | 16141.71(4) | 16141.75 | 16141.69(3) | 3356  | T+ 3b-2a (5-1) P7        |
| 9549  | 16141.29(4) | 16141.29 | 16141.27(3) | 3357  | T- 3c-2a (2-2) Q8        |
| 9550  | 16140.91(5) | 16140.75 |             |       |                           |
| 9551  | 16140.53(6) | 16140.46 |             |       |                           |
| 9552  | 16140.10(5) | 16140.07 | 16140.09(4) | 3358  |                           |
| 9553  | 16139.92(5) |             |             |       |                           |
| 9554  | 16139.41(5) | 16139.55 |             |       |                           |
| 9555  | 16138.94(5) | 16138.95 |             |       |                           |
| 9556  | 16138.07(7) | 16138.10 |             |       |                           |
| 9557  | 16137.32(5) | 16137.46 |             |       |                           |
| 9558  | 16136.75(5) | 16136.73 |             |       | T- 3c-2a (0-0) Q17       |
| 9559  | 16136.58(6) |             |             |       |                           |
| 9560  | 16135.96(5) | 16135.84 | 16135.84(3) | 3359  |                           |
| 9561  | 16135.71(4) |             |             |       |                           |
| 9562  | 16134.98(4) | 16135.01 |             |       |                           |
| 9563  | 16134.25(7) |             |             |       |                           |
| 9564  | 16133.66(6) | 16133.61 |             |       |                           |
| 9565  | 16133.43(6) |             | 16132.89    |       |                           |
| 9566  | 16132.60(4) | 16132.64 | 16132.59(3) | 3360  | T- 3c-2a (10-9) Q1       |
| 9567  | 16132.98(3) |             |             |       | 16131.63                 |
| 9568  |             |             | 16130.02     |       |                           |
| $K_1$ | $\nu^{(a)}$ | $\nu\pm$ | $\nu^{(c)}\pm$ | $K_2$ | Assignment |
|-------|-------------|----------|----------------|-------|------------|
| 9569  | 16128.91(4)| 16128.77 | 16128.92(4)    |       |            |
| 9570  | 16128.62(4)| 16128.59 | 16128.61(4)    |       |            |
| 9571  | 16128.08(3)| 16128.08 | 16128.10(3)    | 3361  | T+ 3c-2a  |
| 9572  | 16127.63(4)|           | 16127.30       |       |            |
| 9573  | 16126.90(3)| 16126.90 | 16126.90(3)    | 3362  |            |
| 9574  | 16126.65(3)| 16126.70 | 16126.67(3)    | 3363  |            |
| 9575  | 16125.80(3)|           | 16125.76       | 3364  | T+ 3d-2c  |
| 9576  | 16125.60(3)| 16125.64 | 16125.64(3)    | 3365  |            |
| 9577  | 16124.92(3)| 16124.94 | 16124.91(3)    | 3366  | T- 3c-2a  |
| 9578  | 16124.53(3)|           | 16124.56       | 3367  | T+ 3c-2a  |
| 9579  | 16124.16(3)| 16124.14 | 16124.15(3)    | 3368  | T+ 3b-2a  |
| 9580  | 16123.83(3)|           | 16123.87(3)    | 3369  |            |
| 9581  | 16123.41(4)| 16123.30 | 16123.30       |       |            |
| 9582  | 16123.02(5)| 16122.88 | 16122.88       |       |            |
| 9583  | 16122.27(3)| 16122.30 | 16122.30       |       |            |
| 9584  | 16121.48(3)| 16121.49 | 16121.46(3)    | 3370  |            |
| 9585  | 16120.18(5)|           | 16120.51       |       |            |
| 9586  | 16119.92(3)| 16119.99 | 16119.99       |       | S+ EF-2B  |
| 9587  | 16119.45(3)| 16119.45 | 16119.43(3)    | 3371  | T+ 3c-2a  |
| 9588  | 16118.99(4)|           | 16118.99       |       |            |
| 9589  | 16118.54(3)| 16118.51 | 16118.53(3)    | 3372  |            |
| 9590  | 16118.27(3)| 16118.30 | 16118.28(4)    | 3373  |            |
| 9591  | 16117.10(7)| 16117.21 | 16117.21       |       |            |
| 9592  | 16116.39(4)|           | 16116.38(3)    | 3374  |            |
| 9593  | 16115.79(5)| 16115.96 | 16115.96       |       |            |
| 9594  | 16115.43(4)|           | 16115.43       |       |            |
| 9595  | 16115.31(3)| 16115.32 | 16115.31(3)    | 3375  | T+ 3d-2c  |
| 9596  | 16114.95(4)| 16115.21 | 16115.21       |       |            |
| 9597  | 16114.71(6)| 16114.91 | 16114.91(3)    | 3376  |            |
| 9598  | 16114.28(5)|           | 16114.28       |       |            |
| 9599  | 16113.78(3)| 16113.81 | 16113.72       |       |            |
| 9600  | 16113.49(4)| 16113.45 | 16113.45       |       | T- 3c-2a  |
| 9601  | 16112.94(3)| 16112.96 | 16112.96       |       |            |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment               |
|------|-------------|------|-------------|------|-------------------------|
| 9602 | 16110.80(5) | 16110.10 | 3377       | T- 3c-2a (2-2) Q9   |
| 9603 | 16110.39(3) | 16110.35 | 16110.38(3) | 3377 | T+ 3d-2c (2-2) Q9   |
| 9604 | 16109.10(4) | 16109.17 | 16108.02(3) | 3379 |                      |
| 9605 | 16108.02(3) | 16107.21 |            |      |                      |
| 9606 | 16108.02(3) | 16107.21 |            |      |                      |
| 9607 | 16106.20(3) | 16106.18 | 16106.18(3) | 3380 |                      |
| 9608 | 16106.00(4) |            |            |      |                      |
| 9609 | 16105.77(3) | 16105.66 | 16105.81(3) | 3381 |                      |
| 9610 | 16105.26(4) | 16105.38 |            |      |                      |
| 9611 | 16104.80(2) | 16104.79 | 16104.82(3) | 3382 |                      |
| 9612 | 16104.33(4) | 16104.21 |            |      |                      |
| 9613 | 16103.55(2) | 16103.58 | 16103.61(4) | 3383 |                      |
| 9614 | 16102.32(3) | 16102.37 | 16102.34(4) | 3384 |                      |
| 9615 | 16102.05(2) | 16102.08 | 16102.09(3) | 3385 |                      |
| 9616 | 16100.15(2) | 16100.19 | 16100.16(3) | 3386 |                      |
| 9617 | 16099.69(3) |            |            |      |                      |
| 9618 | 16099.33(5) | 16099.41 |            |      |                      |
| 9619 | 16098.60(4) |            |            |      |                      |
| 9620 | 16098.19(2) | 16098.18 | 16098.16(4) | 3387 |                      |
| 9621 | 16095.62(4) | 16095.57 |            |      |                      |
| 9622 | 16094.59(3) |            | 16094.53(4) | 3388 |                      |
| 9623 | 16094.23(3) | 16094.26 |            |      |                      |
| 9624 | 16093.66(3) | 16093.60 |            |      |                      |
| 9625 | 16092.03(2) | 16092.01 |            |      |                      |
| 9626 | 16091.83(3) |            |            |      |                      |
| 9627 | 16091.44(4) |            |            |      |                      |
| 9628 | 16090.19(3) |            | 16090.13(3) | 3389 |                      |
| 9629 | 16089.07(3) |            |            |      |                      |
| 9630 | 16088.21(3) | 16088.20 |            |      |                      |
| 9631 | 16087.77(3) |            |            |      |                      |
| 9632 | 16087.30(5) |            |            |      |                      |
| 9633 | 16086.94(2) | 16086.91 | 16086.91(4) | 3390 |                      |
| 9634 | 16086.64(3) |            |            |      |                      |
| 9635 | 16086.12(2) | 16086.12 | 16086.09(3) | 3391 |                      |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$   | $\nu$  | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|-------|----------------|--------|-------------|-------|----------------------------|
| 9636  | 16085.70(3)    |        |             |       |                            |
| 9637  | 16085.21(3)    | 16085.18 |            |       | T+ 3d-2c (2-2) P7         |
| 9638  | 16084.63(3)    |        |             |       |                            |
| 9639  | 16083.75(3)    | 16083.68 |            |       |                            |
| 9640  | 16082.42(5)    | 16082.37 |            |       |                            |
| 9641  | 16081.23(4)    |        |             |       |                            |
| 9642  | 16080.90(2)    | 16080.87 |            |       |                            |
| 9643  | 16080.44(14)   | 16080.43 | 16080.44(3) | 3392  | T- 3c-2a (0-0) Q18        |
|       |                |        | 16080.43    |       |                            |
| 9644  | 16080.075(15)  | 16080.13 | 16080.14(4) | 3393  | T+ 3c-2a (2-2) P5         |
|       |                |        | 16079.99(4) |       |                            |
| 9645  | 16079.748(16)  |        | 16079.73(3) | 3394  |                            |
| 9646  | 16079.238(17)  | 16079.22 | 16079.20(5) | 3395  |                            |
| 9647  | 16078.77(2)    | 16078.96 |            |       |                            |
|       |                |        | 16078.82    |       |                            |
| 9648  | 16078.17(5)    |        |             |       |                            |
| 9649  | 16077.76(4)    | 16077.86 |            |       | S+ EF-2B (20-3) R1        |
| 9650  | 16077.37(3)    |        |             |       |                            |
| 9651  | 16076.978(19)  | 16077.05 |            |       |                            |
|       |                |        | 16076.81    |       |                            |
| 9652  | 16076.467(14)  | 16076.57 | 16076.50(4) | 3397  | T+ 3d-2c (3-3) Q6         |
|       |                |        | 16076.39    |       |                            |
| 9653  | 16076.213(15)  | 16076.20 | 16076.23(3) | 3398  | T+ 3d-2c (3-3) Q6         |
| 9654  | 16075.79(3)    |        |             |       |                            |
| 9655  | 16075.47(3)    | 16075.57 |            |       |                            |
| 9656  | 16074.91(2)    | 16075.03 |            |       | S+ EF-2B (20-3) R2        |
| 9657  | 16074.452(14)  | 16074.46 | 16074.47(3) | 3400  | T- 3c-2a (3-3) Q1         |
| 9658  | 16073.969(17)  | 16073.91 | 16074.01(4) | 3401  | S+ EF-2B (20-3) R0        |
| 9659  | 16073.49(3)    | 16073.62 |            |       |                            |
| 9660  | 16072.98(2)    | 16073.03 |            |       |                            |
|       |                |        | 16071.25    |       |                            |
| 9661  | 16070.721(15)  | 16070.74 |            |       |                            |
| 9662  | 16070.40(3)    |        |             |       |                            |
| 9663  | 16069.85(2)    |        |             |       |                            |
| 9664  | 16069.13(4)    | 16069.23 |            |       | S- 3F-2B (0-7) Q5         |
| 9665  | 16068.71(2)    |        |             |       |                            |
| 9666  | 16068.08(3)    | 16068.04 |            |       |                            |
| 9667  | 16067.73(2)    |        |             |       |                            |
| 9668  | 16067.397(13)  | 16067.38 | 16067.389(11) | 3402  | T- 3c-2a (3-3) Q2         |
| 9669  | 16067.02(2)    |        |             |       |                            |
| 9670  | 16066.588(18)  | 16066.62 | 16066.597(17) | 3403  |                            |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|------|-------------|------|-------------|------|-----------------------------|
| 9671 | 16066.283(19) | 16066.23 | 16066.233(16) | 3404 |                             |
| 9672 | 16065.35(3)  | 16065.35 | 16064.66(16)  | 3405 | T+ 3b-2a (8-3) P5          |
| 9673 | 16064.666(15) | 16064.68 | 16064.660(16) | S- 3F-2C (3-1) P4          |
| 9674 | 16063.88(5)  | 16063.72 | 16063.58     | 3406 | T+ 3c-2a (1-1) P9          |
| 9675 | 16063.56(2)  | 16063.72 | 16063.58     | 3407 |                             |
| 9676 | 16063.03(3)  | 16063.18 | 16063.18     | 3408 | T+ 3c-2a (0-0) P12         |
| 9677 | 16062.636(14) | 16062.63 | 16062.628(14) | S- 3E-2B (2-10) Q3         |
| 9678 | 16062.22(3)  | 16062.07 | 16062.068(14)|                             |
| 9679 | 16059.839(18)| 16059.46(4)| 16058.92(2)  | 3410 |                             |
| 9680 | 16059.40(2)  | 16059.41 | 16059.408(15)| S- 3F-2C (3-1) P4          |
| 9681 | 16058.20(18) | 16058.18 | 16058.18     | 3411 |                             |
| 9682 | 16056.861(14)| 16056.84 | 16056.860(12)|                             |
| 9683 | 16056.60(2)  | 16056.62 | 16056.67(2)  | 3412 |                             |
| 9684 | 16056.35(3)  | 16056.28 | 16056.49(2)  | 3413 |                             |
| 9685 | 16055.17(3)  | 16055.97 |                             | 3414 |                             |
| 9686 | 16055.178(15)| 16055.13 | 16055.18(3)  | 3415 |                             |
| 9687 | 16053.98(2)  | 16054.00 |                             | 3416 |                             |
| 9688 | 16052.70(4)  | 16052.63(2)| 16052.63(2)  | 3417 | T+ 3d-2c (4-4) R1          |
| 9689 | 16052.40(4)  | 16052.31 | 16052.45(4)  | 3418 |                             |
| 9690 | 16051.844(15)| 16051.84 | 16051.88(3)  | 3419 |                             |
| 9691 | 16050.64(2)  | 16050.44 | 16050.76(3)  | 3420 |                             |
| 9692 | 16050.071(15)| 16050.07 | 16050.078(16)| T+ 3d-2c (4-4) R2          |
| 9693 | 16049.73(2)  | 16049.78 | 16049.734(17)| 3421 |                             |
| 9694 | 16048.703(18)| 16048.67 | 16048.73(2)  | 3422 |                             |
| 9695 | 16047.86(2)  | 16047.84 | 16047.84(2)  | 3423 |                             |
| 9696 | 16047.58(2)  | 16047.59 | 16047.620(16)| S+ EF-2B (20-3) P1         |
| 9697 | 16047.12(6)  | 16047.12 | 16047.12(6)  | 3424 |                             |
| 9698 | 16046.67(6)  | 16046.67 | 16046.67(6)  | 3425 |                             |
| 9699 | 16046.05(2)  | 16046.03 | 16046.04(2)  | 3426 |                             |
| 9700 | 16045.84(3)  | 16045.80(3)| 16045.80(3)  | 3427 |                             |
| 9701 | 16045.62(2)  | 16045.63 | 16045.634(15)| T+ 3d-2c (2-2) Q10         |
| 9702 | 16045.25(3)  | 16045.20 | 16045.20     | 3428 |                             |
| 9703 | 16044.82(3)  | 16044.82 | 16044.82(3)  | 3429 |                             |
| 9704 | 16044.35(11) | 16044.35 | 16044.35(11) | 3430 |                             |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                      |
|------|-------------|------|------------|------|---------------------------------|
| 9709 | 16043.98(4) |      |            |      |                                 |
| 9710 | 16043.29(3) | 16043.49 |            |      |                                 |
| 9711 | 16042.853(19) | 16042.85 | 16042.854(12) | 3425 | T- 3c-2a (3-3) Q4               |
| 9712 | 16042.49(2)  |      | 16042.533(19) | 3426 |                                 |
| 9713 | 16042.18(4)  |      |            |      |                                 |
| 9714 | 16041.89(3)  | 16041.98 | 16041.96(2) | 3427 | T+ 3b-2a (5-1) P8               |
| 9715 | 16041.47(4)  |      | 16041.49   |      |                                 |
| 9716 | 16040.71(2)  | 16040.70 | 16040.697(16) | 3428 |                                 |
| 9717 | 16040.29(7)  |      |            |      |                                 |
| 9718 | 16039.68(2)  | 16039.71 | 16039.71(2) | 3429 |                                 |
| 9719 | 16038.14(2)  | 16038.11 | 16038.106(17) | 3430 | T+ 3d-2c (4-4) R3               |
| 9720 | 16038.00(2)  |      | 16037.99(3) | 3431 |                                 |
|      |              |      | 16036.56   |      |                                 |
| 9721 | 16036.27(2)  | 16036.24 | 16036.23(2) | 3432 |                                 |
| 9722 | 16035.92(3)  |      |            |      |                                 |
| 9723 | 16035.41(3)  | 16035.42 | 16035.39(3) | 3433 | T+ 3d-2c (3-3) P5               |
| 9724 | 16035.10(3)  | 16035.12 | 16035.08(3) | 3434 |                                 |
| 9725 | 16034.35(3)  | 16034.45 |            |      |                                 |
|      |              |      | 16034.18   |      |                                 |
| 9726 | 16033.887(19) | 16033.89 | 16033.883(12) | 3435 | T+ 3c-2a (2-2) P6               |
| 9727 | 16033.54(2)  |      | 16033.62(2) | 3436 |                                 |
| 9728 | 16033.18(2)  | 16033.23 | 16033.219(15) | 3437 |                                 |
| 9729 | 16032.59(3)  | 16032.62 | 16032.59(3) | 3438 |                                 |
| 9730 | 16031.64(2)  | 16031.69 |            |      |                                 |
| 9731 | 16031.21(2)  | 16031.20 | 16031.21(3) | 3439 |                                 |
| 9732 | 16030.55(3)  | 16030.50 |            |      |                                 |
| 9733 | 16027.70(3)  |      |            |      |                                 |
| 9734 | 16027.52(3)  | 16027.59 | 16027.60(3) | 3440 | S+ WX-2B (0-4) P1               |
|      |              |      | 16027.27   |      |                                 |
| 9735 | 16026.65(2)  |      | 16026.65   |      |                                 |
| 9736 | 16025.93(4)  |      |            |      |                                 |
| 9737 | 16025.469(19) | 16025.49 | 16025.494(13) | 3441 | T- 3c-2a (3-3) Q5               |
| 9738 | 16024.99(3)  |      |            |      |                                 |
| 9739 | 16024.52(2)  | 16024.56 | 16024.55(2) | 3442 |                                 |
| 9740 | 16024.03(2)  | 16024.02 | 16024.06(2) | 3443 | T+ 3d-2c (3-3) Q7               |
| 9741 | 16023.85(2)  |      | 16023.90(2) | 3444 |                                 |
| 9742 | 16023.46(3)  | 16023.34 |            |      |                                 |
| 9743 | 16022.90(2)  | 16022.90 | 16022.91(18) | 3445 | T+ 3d-2c (4-4) R4               |
| 9744 | 16022.78(3)  |      |            |      |                                 |
| 9745 | 16022.19(2)  | 16022.21 |            |      | T- 3c-2a (0-0) Q19              |

Table II (Continued).
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment                  |
|-------|-------------|-------|-------------|-------|-----------------------------|
| 9746  | 16021.88(3) | 16021.87 |             |       |                             |
| 9747  | 16021.72(3) | 16021.72 | 16020.58    |       | S+ EF-2B (20-3) P2         |
| 9748  | 16021.10(3) | 16021.10 |             |       |                             |
| 9749  | 16018.86(3) | 16018.86 |             |       |                             |
| 9750  | 16018.225(18)| 16018.15|             |       |                             |
| 9751  | 16017.93(2) | 16017.93 |             |       |                             |
| 9752  | 16017.39(2) | 16017.39 | 16017.40    | 3446  |                             |
|       |             |        | 16017.25    | 3447  |                             |
| 9753  | 16017.15(3) | 16017.15 | 16017.12(3) | 3448  |                             |
| 9754  | 16016.95(4) | 16016.95 |             |       |                             |
| 9755  | 16016.34(2) | 16016.34 |             |       |                             |
| 9756  | 16016.019(19)| 16016.01 | 16016.00(2) | 3449  |                             |
| 9757  | 16015.681(17)| 16015.68 | 16015.697(14) | 3450  | T+ 3b-2a (6-2) R1          |
| 9758  | 16014.884(18)| 16014.91 | 16014.91(4) | 3451  |                             |
| 9759  | 16014.271(18)| 16014.32 | 16014.296(13) | 3452  | T+ 3c-2a (3-3) P2          |
| 9760  | 16013.979(17)| 16014.02 | 16014.006(13) | 3453  | T+ 3b-2a (6-2) R2          |
| 9761  | 16013.64(4) | 16013.64 |             |       |                             |
|       |             |        | 16013.82    | 3454  |                             |
| 9762  | 16013.037(19)| 16013.19 | 16013.05(3) | 3455  |                             |
| 9763  | 16012.71(4) | 16012.71 |             |       |                             |
| 9764  | 16012.12(2) | 16012.12 |             |       |                             |
| 9765  | 16011.783(16)| 16011.79 | 16011.79(3) | 3455  |                             |
| 9766  | 16011.30(2) | 16011.30 |             |       |                             |
| 9767  | 16010.24(2) | 16010.24 | 16010.24(3) | 3456  |                             |
| 9768  | 16009.21(6) | 16009.21 |             |       |                             |
| 9769  | 16007.18(5) | 16007.18 |             |       |                             |
| 9770  | 16006.76(3) | 16006.76 | 16006.75(2) | 3457  |                             |
| 9771  | 16006.323(18)| 16006.32 | 16006.32(2) | 3458  | T+ 3b-2a (6-2) R0          |
|       |             |        | 16006.13    |       |                             |
| 9772  | 16005.287(19)| 16005.29 | 16005.19(4) | 3459  |                             |
| 9773  | 16004.807(16)| 16004.83 | 16004.81(2) | 3460  | T- 3c-2a (3-3) Q6          |
| 9774  | 16004.37(3) | 16004.37 |             |       |                             |
| 9775  | 16004.024(16)| 16004.02 | 16004.03(2) | 3461  | T+ 3c-2a (1-1) P10         |
|       |             |        | 16003.95(3) | 3462  |                             |
| 9776  | 16003.580(17)| 16003.61 | 16003.54(3) | 3463  |                             |
| 9777  | 16003.200(17)| 16003.20 | 16003.24(3) | 3464  | T+ 3d-2c (4-4) R5          |
|       |             |        | 16003.15(3) | 3465  |                             |
| 9778  | 16002.91(3) | 16002.91 |             |       |                             |
|       |             |        | 16002.78    | 3466  |                             |
| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment         |
|------|-------------|------|-------------|------|-------------------|
| 9779 | 16002.70(2) |      | 16002.65(4) | 3467 |                   |
| 9780 | 16001.437(19)| 16001.40 | 16001.44(2) | 3468 |                   |
| 9781 | 16001.233(18)| 16001.29 | 16001.27(2) | 3469 | $T+\ 3b-2a\ (6-2)\ R3$ |
| 9782 | 16000.155(16)| 16000.14 | 16000.15(2) | 3470 |                   |
| 9783 | 15998.33(2) | 15998.34 | 15998.33(4) | 3471 | $S+\ EF-2B\ (18-2)\ R1$ |
| 9784 | 15997.75(2) |      |             |      |                   |
| 9785 | 15997.337(17)| 15997.33 | 15997.34(2) | 3472 | $T+\ 3c-2a\ (4-4)\ R6$ |
| 9786 | 15997.064(19)| 15997.03 | 15997.09(2) | 3473 | $S+\ EF-2B\ (29-8)\ R1$ |
| 9787 | 15996.89(2) | 15996.92 | 15996.92(2) | 3474 |                   |
| 9788 | 15996.36(3) | 15996.28(4) | 3475 |                   |
| 9789 | 15996.06(3) | 15995.98 |             |      | $S+\ EF-2B\ (18-2)\ R2$ |
| 9790 | 15995.65(3) | 15995.43 |             |      |                   |
| 9791 | 15994.952(16)| 15994.97 | 15994.96(2) | 3476 | $T+\ 3c-2a\ (4-4)\ R5$ |
| 9792 | 15992.92(4) | 15992.87 |             |      |                   |
| 9793 | 15992.041(15)| 15992.02 | 15992.05(3) | 3477 |                   |
| 9794 | 15990.38(3) |      |             |      |                   |
| 9795 | 15989.95(2) | 15989.93 |             |      |                   |
| 9796 | 15989.24(3) | 15989.27 |             |      | $S+\ EF-2B\ (20-3)\ P3$ |
| 9797 | 15988.171(18)| 15988.19 | 15988.31(4) | 3478 |                   |
| 9798 | 15987.412(13)| 15987.43 | 15987.44(2) | 3479 | $T+\ 3c-2a\ (4-4)\ R4$ |
| 9799 | 15986.59(2) | 15986.61 | 15986.65(5) | 3480 | $S+\ EF-2B\ (18-2)\ R3$ |
| 9800 | 15985.519(16)| 15985.44 | 15985.56(4) | 3481 |                   |
| 9801 | 15985.28(2) |      |             |      |                   |
| 9802 | 15984.679(13)| 15984.68 | 15984.70(2) | 3482 | $T+\ 3c-2a\ (2-2)\ P7$ |
| 9803 | 15984.05(2) |      |             |      |                   |
| 9804 | 15983.735(17)| 15983.87 |             |      | $S+\ EF-2B\ (29-8)\ R3$ |
| 9805 | 15983.34(2) | 15983.26 |             |      |                   |
| 9806 | 15982.97(3) |      |             |      |                   |
| 9807 | 15980.867(13)| 15980.88 | 15980.87(4) | 3483 | $T-\ 3c-2a\ (3-3)\ Q7$ |
| 9808 | 15980.336(15)| 15980.29(4) | 3484 |                   |
| 9809 | 15980.137(14)| 15980.20 | 15980.12(4) | 3485 |                   |
| 9810 | 15979.76(2) |      |             |      |                   |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 9811  | 15979.38(2) | 15979.37 | 15979.37    | 3486  | T- 3c-2a (3-3) P3 |
|       |             |       | 15978.96    |       |             |
|       |             |       | 15978.33    |       |             |
| 9812  | 15977.82(3) |       |             |       |             |
| 9813  | 15977.566(13)| 15977.69 | 15977.62(3) | 3486  | T- 3c-2a (3-3) P3 |
|       |             |       | 15977.69    |       |             |
|       |             |       | 15977.48    |       |             |
| 9814  | 15977.11(4) |       |             |       |             |
| 9815  | 15975.779(14)| 15975.77 | 15975.76(3) | 3486  | T+ 3c-2a (4-4) R3 |
| 9816  | 15975.514(15)| 15975.52 | 15975.49(3) | 3486  | T+ 3b-2a (8-3) P6 |
|       |             |       | 15975.28    |       |             |
|       |             |       | 15974.51    |       |             |
| 9817  | 15973.98(2) |       |             |       |             |
|       |             |       | 15974.02(5) | 3490  |             |
|       |             |       | 15973.88(5) | 3491  |             |
|       |             |       | 15973.17(5) | 3492  |             |
| 9818  | 15972.88(2) | 15972.80 | 15972.83(5) | 3493  |             |
| 9819  | 15972.332(18)| 15972.31 | 15971.75    |       | S+ GK-2B (5-10) R3 |
|       |             |       |             |       | S+ EF-2B (29-8) P1 |
| 9820  | 15970.58(3) | 15970.54 | 15970.61(4) | 3494  |             |
| 9821  | 15970.09(2) | 15970.01 |             |       | S+ EF-2B (18-2) R4 |
| 9822  | 15969.560(14)| 15969.49 | 15969.53(4) | 3495  |             |
| 9823  | 15969.383(16)| 15969.38 | 15969.38(4) | 3496  |             |
| 9824  | 15968.77(2) | 15968.68(5)| 15968.68(5)| 3497  |             |
| 9825  | 15968.405(17)| 15968.36 | 15968.37(4) | 3498  |             |
| 9826  | 15968.23(2) | 15968.19(4)| 15968.19(4)| 3499  |             |
| 9827  | 15967.703(15)| 15967.75 | 15967.67(4) | 3500  |             |
| 9828  | 15966.51(3) |             |             |       |             |
| 9829  | 15965.97(5) |             |             |       |             |
| 9830  | 15965.29(2) | 15965.22 |             |       |             |
| 9831  | 15964.61(4) | 15964.71 |             |       |             |
|       |             |       | 15964.60    |       |             |
| 9832  | 15964.216(16)| 15964.22 | 15964.21(4) | 3501  |             |
| 9833  | 15963.774(18)| 15963.75 | 15963.75(4) | 3502  | S+ EF-2B (18-2) P1 |
| 9834  | 15963.56(2) |             |             |       |             |
| 9835  | 15962.84(2) | 15962.78 |             |       |             |
| 9836  | 15962.53(3) | 15962.55 |             |       |             |
| 9837  | 15962.132(14)| 15962.14 | 15962.14(5) | 3503  | T- 3c-2a (0-0) Q20 |
|       |             |       | 15961.71    |       |             |
| 9838  | 15961.02(2) | 15960.97 | 15960.97(5) | 3504  |             |
| 9839  | 15960.84(3) |             |             |       |             |
Table II (Continued).

| $K_1$ | $\nu^{(a)}$ | $\nu$ | $\nu^{(c)}$ | $K_2$ | Assignment |
|-------|-------------|-------|-------------|-------|------------|
| 9840  | 15960.293(13) | 15960.29 | 15960.30(3) | 3505  | T+ 3c-2a (4-4) R2 |
| 9841  | 15959.84(3) | 15959.44 |           |       |             |
| 9842  | 15957.919(18) | 15957.91 | 15957.92(4) | 3506  |             |
| 9843  | 15957.47(3) | 15957.63(5) | 15957.18(4) | 3507  |             |
| 9844  | 15957.105(18) | 15957.11 | 15957.07(4) | 3508  |             |
| 9845  | 15956.84(3) | 15955.98 | 15955.46 |       |             |
| 9846  | 15954.59(2) | 15954.59 | 15954.587(19) | 3510  | T+ 3b-2a (6-2) P1 |
| 9847  | 15954.22(3) |           |           |       |             |
| 9848  | 15953.789(17) | 15953.77 | 15953.783(16) | 3511  | T- 3c-2a (3-3) Q8 |
| 9849  | 15953.29(2) |           |           |       |             |
| 9850  | 15953.11(2) | 15953.20 | 15953.11(2) | 3512  |             |
| 9851  | 15952.722(17) | 15952.74 | 15952.713(15) | 3513  | T+ 3b-2a (3-0) R2 |
|       |             | 15951.89 | 15951.38 |       | S+ EF-2B (20-3) P4 |
|       |             | 15950.72 |           |       |             |
| 9852  | 15949.21(2) | 15949.22 |           |       | S+ EF-2B (29-8) P2 |
| 9853  | 15948.806(18) | 15948.83 | 15948.823(17) | 3514  | T+ 3b-2a (3-0) R1 |
| 9854  | 15948.398(19) | 15948.43 | 15948.39(3) | 3515  |             |
| 9855  | 15947.108(19) | 15947.07 | 15947.073(16) | 3516  |             |
| 9856  | 15946.635(18) | 15946.66 | 15946.635(16) | 3517  | T+ 3b-2a (3-0) R3 |
| 9857  | 15946.22(2) | 15946.26 | 15946.21(3) | 3518  | S+ EF-2B (18-2) R5 |