NASA Technical Memorandum 108485

Dynamics Explorer 1, Retarding Ion Mass Spectrometer Summary Spectrograms—82/110 to 82/229 Spin-Time Spectrograms for H^+, He^+, O^+, N^+, O^{++}, M/Z = 2, and Molecular Ions

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NASA TECHNICAL MEMORANDUM

DYNAMICS EXPLORER 1, RETARDING ION MASS SPECTROMETER SUMMARY SPECTROGRAMS

82/110 TO 82/229 SPIN-TIME SPECTROGRAMS FOR H^+, HE^+, O^+, N^+, O^{++}, M/Z=2, AND MOLECULAR IONS

I. INTRODUCTION TO THE DE MISSION AND THE RIMS INSTRUMENT

The introductory material is taken, in part, from the following sources:

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A. DESCRIPTION OF SPACECRAFT

On August 3, 1981, a Delta rocket launched from Vandenberg Air Force Base successfully placed the two Dynamics Explorer (DE) spacecraft into coplanar polar orbits. The purpose of the mission was to acquire data relevant to processes coupling the magnetosphere, ionosphere, and upper atmosphere. The two spacecraft were manufactured by the Government System Division of RCA, and the instruments were provided by various principal investigators. A complete description of the mission, spacecraft, instruments, and ground data systems appears in an issue of *Space Science Instruments* (Volume 5, pp. 345-573, 1981), edited by R. A. Hoffman. The high-altitude satellite, DE 1, carried an auroral imager and detectors designed primarily for field and particle measurements. The low-altitude satellite carried more aeronomic-type instruments. The orbits of the two satellites remained very nearly coplanar during their joint lifetimes, providing the unique opportunity to acquire data at two altitudes along common magnetic flux tubes. DE 2, operating at ionospheric altitudes, re-entered the atmosphere in February 1983. DE 1 ceased data collection operations in March 1991.

Both spacecraft were power limited and considerable effort was expended in selecting portions of orbits for maximum science return. DE 1 had a duty cycle of nearly 90% during the early portion of the mission, but in general varied between 16-55%. DE 2 had a duty cycle between 16 and 36%. Times of magnetic conjunction between the spacecraft, or between one spacecraft and a collaborating ground observatory, were given high priority. Also, data acquisition during passages through geophysical regions like the dayside cusp and plasmapause was emphasized.

B. ORBIT INFORMATION

The DE 1 satellite, carrying the RIMS experiment, was launched into an elliptical polar orbit on August 3, 1981. The ~7.5 hour orbit has perigee of 675 km altitude and apogee of 24,875 km altitude. The orbit plane drifts westward at a rate of ~1 hour MLT every 15.4 days (24 hours in 12 months); the orbit line of apsides drifts about 0.328° geographic latitude each day (moving from one pole to the other in 18 months). Thus, the orbit which started in the dawn-dusk plane with apogee over the north pole precessed to noon-midnight, with apogee over the midnight equator by the spring of 1982. The apogee continued to sweep around in latitude, bringing its position over the south pole during the summer of 1983, the noon sector equator during the spring of 1984, and returned to approximately its original position during the winter of 1984.

Note that while the DE 1 orbit provides coverage for most all local times and latitudes out to the apogee at 4.65 R_E, the 3 to 1 ratio between the drift of the line of apsides and the westward drift of the orbital plane results in uneven coverage in local time for a given altitude. In particular, in the 12-18 hour magnetic local time sector, the higher altitudes in the auroral latitude region were not fully sampled.

The spacecraft spins in a reverse cartwheel mode, at 10 rpm with its spin axis perpendicular to the orbit plane. The spacecraft orbital-plane is roughly coincident with the magnetic field meridian plane so that the radial head (mounted perpendicular to the spin axis) responds to ion fluxes for nearly the full range of magnetic pitch angles (-180° to +180°).

C. DESCRIPTION OF THE INSTRUMENT

The Retarding Ion Mass Spectrometer (RIMS) experiment onboard the DE 1 satellite was designed to perform energy and mass-per-charge analysis on low-energy ions (<50 eV) with mass/charge ranging from 1 to 40 amu/Z. The instrument is fully described by Chappell et al. (The Retarding Ion Mass Spectrometer on Dynamics Explorer-A, *Space Sci. Instrum.*, *4*, 477, 1981). RIMS has significantly improved capabilities over previous retarding potential analyzer instruments (RPA) by providing ion mass/charge separation so that RPA and spin curves are obtained separately for each programmed species. These enhanced instrument

capabilities, combined with the DE 1 orbit, produced a unique opportunity to investigate the variable dynamics and composition of the low-energy ion population in the near-Earth space environment.

DE 1 RIMS consists of four instrument assemblies interconnected to form one experiment. Three of the assemblies are sensor heads and one is the central electronics assembly. The three heads are labeled according to the mounting axis on the DE 1 spacecraft: Radial, +Z, and -Z. The radial sensor views perpendicular to the spacecraft spin axis, while the ±Z sensors on the ends of the spacecraft view parallel and anti-parallel to the spin axis. The central electronics assembly (CEA) provides the spacecraft interface, all data processing, command decoding, and complete timing control of the entire RIMS experiment.

Each sensor head consists of an RPA followed by a magnetic mass analyzer with two separate exit slits corresponding to two mass/charge ranges in the ratio 1:4. The total mass/charge range covered is 1 to 40 amu/Z. Surrounding and attached to the entrance of the sensor head is a 20-cm circular aperture plate. The plate is connected to a relay which can, on command, connect to either spacecraft chassis ground or to the aperture potential power supply output. The aperture potential power supply can be set by spacecraft minor mode A command to 0, -2, -4, or -8 V to partially compensate for a non-zero positive spacecraft potential.

The retarding grid of the RPA is connected to the retarding potential power supply through a shielded conductor. The retarding potential may be set to any one of 1024 linearly spaced steps from 0 to +51.125 V with a resolution of 0.05 V. The RPA collector plate is connected through a co-axial cable to a 5-decade logarithmic amplifier. The reference voltage for the front end of the log amp is the output of the aperture potential power supply. The output of the log amp is converted, by command from the CEA, to a 10-bit digital word using an analog/digital (A/D) converter. The digital word is held in a holding register until the CEA is ready to read and process the data.

Those ions passing into the Ion Mass Spectrometer (IMS) are sorted according to their mass to charge ratio. The proper combination of ion accelerating voltage, applied magnetic field strength, and ion beam gyro radius in the applied magnetic field determines the mass/charge of the ion focused on each collector slit. Varying the ion accelerating voltage varies the ion mass/charge detected. Ions of mass/charge 1 to 8 amu/Z and 4 to 32 amu/Z can be focused on the low and high mass slits, respectively. Ions exiting the collector slits are counted by channel electron multiplier (CEM) detectors. The ion mass/charge range is also programmable by a minor mode command. Any 32 of 4096 voltage steps may be selected. All 32 steps may be the same, in which case the mass/charge analyzer will be locked onto a given pair of mass/charge peaks having the ratio 1:4. The two-channel IMS uses CEMs as detectors. The two CEMs in each sensor head are powered by a single multiplier high-voltage power supply which can be set, by spacecraft minor mode A command, to any one of four voltages, -1200, -2100, -2400, and -2800 V. The IMS accelerating voltage comes from a swept high voltage power supply that can be addressed to any one of 4096 linearly spaced steps between 0 and -2250 V.

The output of each detector is connected to a charge sensitive pulse amplifier whose output is sent to a level detector. The discrimination level is set by spacecraft minor mode A command. Pulses from the discriminator are coupled to an 18-stage binary counter. Four bits of the counter are located in each head, and the other 14 bits of each accumulator are located in the CEA. The CEA contains the circuitry for compressing each accumulator output into a 10-bit base 2-floating point number (6-bit mantissa and 4-bit exponent) for output into the telemetry buffer.

The DE spacecraft utilizes a pulse code modulation data system with 128, 8-bit words at a main frame rate of 16 frames per second. Note that the RIMS instrument is assigned 26 of these 8-bit telemetry words. One 8-bit word is reserved for status information, five groups of 5 8-bit telemetry words each are used for measurements – where each group is considered a telemetry channel by the processor. With this convention, each telemetry channel can contain 4 each 10-bit instrument words. Each data sample represents a period of 1/4 minor frame (1/64th of a second, or 15.625 msec.) Each RIMS sensor head has three data outputs, the RPA and high and low mass IMS channels, and therefore outputs 9 measurements each 1/4 frame for a total of 36, 10-bit instrument words per telemetry minor frame. Since the 40-bit telemetry channel can contain only 4, 10-bit instrument words, only 20 of the 36 instrument words may be loaded into the telemetry channels each telemetry frame (4 instrument words x 5 telemetry channels). The telemetry channel assignments, number of words assigned to each, and their content are as follows:

A	1	Housekeeping and status
B	5	Radial IMS low-mass channel accumulation
C	5	Radial IMS high-mass channel accumulation
D	5	Alternates each 1/4 frame between +Z IMS low & high-mass accumulation
E	5	Alternates each 1/4 frame between -Z IMS low & high-mass accumulation
F	5	Alternates each 1/4 frame between radial, +Z, and -Z RPA (electrometer) accumulation

The instrument cycle is 32 data samples from each data source. The RIMS completes one instrument cycle each 0.5 sec. Each data sample represents a period of 15.625 msec. This interval consists of a measurement interval and a data processing interval. During the measurement interval, the IMS accumulators are active for a period of 12 msec. The 3.625 msec data processing interval is used to process the data accumulated during the measurement interval and to establish the mass/charge voltage and retarding voltage for the next integration period.

The RIMS instrument continued to return usable data until the end of the DE mission in March 1991. The radial head RPA failed on 81/329 19:50:18. It worked again between 82/045 23:30 and 82-046 06:15 before failing again. Sometime before 82/046 the -Z head

aperture bias mechanism failed. At launch the -Z head was found to be biased -2 V with respect to the other two heads. The anomaly disappeared on day 73 or 74 of 1982. The Z heads show spin variation primarily at low altitudes in cold, dense plasmas at high spacecraft velocities. For a more detailed and complete account of RIMS performance characteristics, see Olsen et al., DE-1 RIMS Operational Characteristics, NASA TM-86527, 1985.

The RIMS instrument data was provided by GSFC to ES53/MSFC on 1600 BPI magnetic tapes. The RIMS data was extracted and combined with orbit/attitude and magnetic field data to produce mission analysis files (MAF) and summary spectrograms. There is usually one MAF file per pass (RIMS instrument on/off time). Each MAF file data record consists of 8 seconds of RIMS data (512 samples per channel, each sample 1/64 sec measurement), in time order. One MAF record is 5624 bytes in size. The first 100 locations (16-bit words) of this record contain timing, orbit/attitude, B-field, and instrument mode information. Since the instrument mode takes some logic to decode, subroutines are available that perform the decoding of the instrument flags, determination of RPA/IMS settings for any sample through the 512, and decommutation of the D and E channels (Z-head data).

Data quality is, in general, excellent. Data are not always recorded at altitudes down to the DE 1 perigee of 675 km. At the lower altitudes, the plasma density can be quite high and the RIMS instrument is generally shut off to protect the particle detecting CEMs from excessive counting rates. However, on occasion, saturation of the detecting CEMs may be seen in the radial head data during low altitude-high density passes.

Detection of very low-energy ions is made difficult by the presence of floating spacecraft potentials. Analysis of RIMS data by Olsen [1989] established a density-potential relationship, such that the satellite accumulates positive charge on entering density regions below 1000 cm^{-3}, rising slowly to about +1 V at 100 cm^{-3}, and about +5 V at 10 cm^{-3}. By preventing measurement of the coldest plasma components, this potential can mask out an isotropic background plasma or, when the potential is sufficiently high, can give the appearance that no cold plasma exists in a region. This effect is known to be a concern in the plasmapause and trough region, where densities are of the order 7 to 70 cm^{-3} and the spacecraft may reach potentials of +2 to +5 V [Olsen, 1989]. At altitudes above the ionosphere in the polar regions, densities again can be sufficiently low that observation of ions of classical polar wind speed is possible only during negative aperture bias instrument modes [Nagai et al., 1984].

The DE 1/RIMS team has attempted to compensate for the spacecraft charging by the addition of a voltage bias plate at the entrance aperture of the instrument. The diameter of the external aperture plane is 20 cm, which may be compared to the spacecraft dimension of one meter in height and 1/4 meter in diameter. The instrument retarding voltages are referenced to this aperture plane, so that to the RIMS detector the effect of the bias is similar to a change in spacecraft potential, though sheath effects can complicate the interpretation of the resulting data.

D. REFERENCES TO AID IN THE USE AND UNDERSTANDING OF THE RIMS DATA SET

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II. DESCRIPTION OF THE RIMS SUMMARY SPECTROGRAMS

The summary spectrograms included in this volume consist of seven spin-angle versus time panels; one panel for each of the seven mass/charge settings, H^+, He^+, O^+, N^+, M/Z=2, O^{++}, and molecular ions. Noted at the top of each spectrogram is the date and time interval covered by the spectrogram, the instrument head, and indications of the RPA and aperture bias sort used. In this set, data were included regardless of RPA or aperture bias setting. Orbit parameters – geocentric altitude, McIlwain L-shell, magnetic local time, magnetic latitude, and invariant latitude – are given at 40-min intervals at the bottom of the page.

The panels are labeled with mass designations (i.e., L/H^+ for low mass channel, ionized hydrogen). Please note, however, that the data plotted represent the response of that RIMS channel to a specific range of mass/charge settings.

The satellite ram direction is defined to be along the center of each panel, meaning the point at which the radial detector was viewing into the direction of motion of the spacecraft. The maximum (180°) and minimum (0°) magnetic pitch angles are indicated by the black dashed and dotted lines (nearly horizontal, for the most part), respectively, corresponding to closest aperture approach to the parallel and anti-parallel directions of the Earth's magnetic field.

The data arrays used to construct each panel consist of 120 time divisions and 32 spin angle divisions. Since each spectrogram covers an 8-hour period, including a single 7.5-hour spacecraft orbital period, each angle/time bin represents a data average over 11.25° in spin angle and 4 minutes of accumulation time. That is, the counts-per-accumulation periods (12 milliseconds), for all RPA and aperture bias settings, are averaged over the 4-min time resolution period for each 11.25° spin angle bin.

The counts-per-sample for a given spin angle-time bin is coded by vertical lines; one solid vertical line representing low counts (0 to 1 count/sample) and many closely-spaced vertical lines (approaching solid black) representing higher count rates (>5000 counts/sample). A dotted vertical line represents an angle/time bin for which sampling occurred, but no counts were registered. No vertical lines at all indicates that sampling for that ion was not performed. The squares arranged vertically to the left of the spin angle-time panels show this scale.

The counts-per-sample is proportional to the integral directional ion flux for the energy range 0 to 50 eV with approximate conversion ratios of counts to integral flux of 3.1×10^4 (particles/cm^2 s·ster)/(counts/sample) for H^+, 1.9×10^4 (particles/cm^2 s·ster)/(counts/sample) for He^+, and 4.4×10^4 (particles/cm^2 s·ster)/(counts/sample) for O^+. These factors, which reflect the mass-dependent angular response, are based on pre-flight and in-flight calibration; the ratios are time-dependent due to on-orbit CEM degradation and are offered here only as a general approximation.

III. DE 1/RIMS 1982 DATA CATALOG

Each line in the listing that follows represents one RIMS operation cycle and lists operation cycle number, instrument on/off time (UT), and quality information. An explanation of each field follows.

Operation Cycle Number: Begins with first science mode cycle. An operation cycle begins with an instrument "on" command and ends with an instrument "off" command. More than one operation cycle may be executed during a single spacecraft orbit.

Date: The year and day of year is represented as (YEAR-1900) * 1000 + DAYNUMBER.

Time Interval: The start/stop time (UT) of the operation cycle (HHMM).

Archive Flag: Used by RIMS team to flag which data have been archived to optical disk. The numerical entry is the disk number on which the data reside. "nd" or "no" = no data or too little data to archive. Used also when the electrometer was operated with the channeltrons off. In this latter case, the "nd" entry is followed by a notation of "Electrometer only." "oo" means data were not received from GSFC.

Quality Information: Text to summarize data anomalies, data gaps, and data processing problems.

"Sunpulse" means that a response of the radial head detector to solar UV can be seen in spectrograms of the data.

DNA: followed by a universal time (UT), means that data were not available for the time listed. This entry

usually indicates data were collected on the spacecraft but did not survive to the telemetry end product.

LMCD: Low mass channel degraded. Recognizable as H^+ counts that are lower than the He^+ counts in the high mass channel. Usually occurs when the spacecraft is in the plasmasphere.

BMD: Bad memory dump. When this is noted, the telemetry was in error or bits were incorrect in the RIMS memory. In either case, no data are obtained.

BEGIN LISTING

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811 82110 0050-0200 01B
812 82110 0405-0855 01B
813 82110 1105-1755 01B
814 82110 2125-0415 01B
815 82111 0535-1118 01B
816 82111 1151-1842 01B DNA:1513-1557
817 82111 2242-0126 01B DNA:2326-0126
818 82112 0226-0500 01B
819 82112 0600-0750 01B
820 82112 0829-1443 01B
821 82112 1543-1800 01B
822 82112 2231-0522 01B
823 82113 0731-1116 01B
824 82113 1150-1547 01B
825 82113 1900-0151 nd  DNA:1900-0151
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827 82114 0555-0745 01B
828 82114 0824-1438 01B
829 82114 1538-1755 01B
830 82114 2226-0517 01B DNA:0355-0410
831 82115 0726-1111 01B
832 82115 1145-1542 01B Memory dump problems
833 82115 1855-0146 01B
834 82116 0241-0500 01B
835 82116 0600-0740 01B Noise
836 82116 0820-1434 01B
837 82116 1900-0151 01B
838 82117 0300-0409 01B
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841 82117 1720-0011 01B
842 82118 2325-2327 nd  Not enough data to archive
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1132 82209 1728-0019 01B
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1135 82210 1217-1552 01B LMCD
1136 82210 1915-2243 01B
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1139 82211 1323-1452 01B
1140 82211 1733-1749 01B H104 ap bias
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1143 82212 0625-1100 01B
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1181 82221 1559-1946 01B
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1184 82222 1057-1355 01B DNA:1130-1200 Other gaps also
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1186 82223 0120-0711 01B
1187 82223 0921-1354 01B No data 1235-1354
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1189 82223 2111-0020 01B
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1191 82224 1052-1350 01B
1192 82224 1648-2221 01B
1193 82225 0010-0210 01B
1194 82225 0342-0612 01B
1195 82225 0750-1243 01B
1196 82225 1543-1938 oo
1197 82225 2313-0604 01B Noise after about 0330
1198 82226 0918-1253 01B Random high counts
1199 82226 1553-1735 01B
1200 82226 1935-2211 01B DNA: 2112-2211
1201 82227 0005-0205 01B DNA: 0005-0012
1202 82227 0337-0607 01B
1203 82227 0745-1238 01B
1204 82227 1538-1933 01B
1205 82227 2308-0559 01B
1206 82228 0913-1248 01B
1207 82228 1548-1730 01B
1208 82228 1930-2206 01B
1209 82229 0106-0510 oo
1210 82229 0654-1035 01B
1211 82229 1235-1338 01B
1212 82229 1538-2020 01B
1213 82229 2336-0627 01B

END OF LISTING
```

IV. DE1/RIMS 1982 INSTRUMENT MODES

The RIMS instrument, being programmable by spacecraft major and minor mode commands, operated in a variety of survey modes during the experiment lifetime. The operating sequence is controlled by an internal memory in the CEA which is programmed by ground command. The RIMS commonly performed two basic operational functions during the mission: (1) The RPA voltage is swept over a selected range for a given mass/charge and, (2) the RPA voltage is set to zero and a sweep is made over a selected mass/charge range. There are several variations of these modes, several specialized modes, and several combinations of sweeps, aperture biasing, and cycling patterns.

Users of the RIMS MAF data sets must be aware of the instrument mode setting for the segment of data being analyzed. The documentation data set, a listing of which accompanies this set of summary spectrograms, lists the RIMS minor mode B commands employed during the mission, keyed to the data's universal time. Brief information on the meaning of the mode mnemonics is given with that listing.

The following is a summary of the RIMS nominal operating modes:

IMSON, RPAON, APPON: "Turn-on" and initiation commands.

STOPIT: "Turn-off" command.

HIXXZ: A family of modes in which the instrument is measuring only one mass/charge pair and concentrating on either high mass/charge or angular resolution. The two unspecified locations in the mnemonic denoted by X will specify the heavier of the pair while the location denoted by Z refers to an RPA program.

XVXXZ: A family of survey modes in which the instrument splits its observing pattern between the H^+/He^+ mass/charge pair and one other mass/charge pair. The definition of the unspecified location is the same as in the previous case. The total cycle time is 16 sec.

SXYYZ: The alternate memory is used to observed the H^+/He^+ pair and the normal memory to observe another mass/charge pair. The XX denotes the heavier of the mass/charge pair under normal memory control. Each mass/charge pair is sampled for 8 sec. Total cycle time is 16 sec.

TXYYZ: A survey mode which is similar to the previous survey mode with the exception of the sequencing pattern. In this case, the H^+/He^+ setting is maintained for 8 sec with an RPA cycle each 0.25 sec. In the subsequent 8-sec half of the cycle time, the instrument toggles between the alternate mass/charge pairs each 0.25 sec. The total cycle time is 16 sec.

MXXYY: A mass/charge sweep mode starting at mass/charge XX and ending at mass/charge YY. The specified mass/charge numbers are those of the heavy mass channel. The lower mass channel is operating and measuring mass/charge species of 1/4 the high mass values. Note: The sweep may not be continuous within the specified range if prior instrument experience has indicated that certain mass/charge numbers are unpopulated. The cycle time is 0.5 sec.

CXXYY: A mass/charge sweep mode with interspersed RPA analysis of the H^+/He^+ pair. The cycle time is 16 sec.

SHXXY: A special mode for high latitude studies. The three ions O^+, H^+, and He^+ are measured with RPA scans for each. The cycle time is 1/2 sec.

SSZZZ: Special science modes designed after launch. Contact RIMS science team.

PLPHN: Plasma mode used to investigate spacecraft/plasma interactions. Geophysical data may be available, but will require special interpretation. N is the program number.

INSTR: Instrument check out, test, and calibration modes.

Note that the instrument may be operating with an additional potential applied to the entrance aperture. The start-up command APPON normally indicates the start of an aperture bias sequence although exceptions do exist within the data set. The following commands identify the applied bias voltage:

NAMMAP2X	-2 volts
NAMMAP4X	-4 volts
NAMMAP8X	-8 volts
PH20AAAA	-2 volts
PH20ADTD	-2 volts
PH40AAAA	-4 volts
PH40ADTD	-4 volts
PH80AAAA	-8 volts
PH80ADAA	-8 volts
PH80ADTD	-8 volts
PL80ADAA	-8 volts
HI04A02X	-2 volts
HI04A03X	-4 volts
HI04A04X	-8 volts
SH16M02X	-8 volts
SSNV801X	-8 volts
SSN8V01X	-8 volts
T816Q03X	-2 volts
T816Q04X	-4 volts
T816205X	-8 volts
SS04P01	-8 volts

The convention of naming modes as given above was generally but not rigorously followed, i.e., there may be times in which a mass/charge scan mode MXXYY alternated with measurement of H^+/He^+. Studies of the RIMS data set should be conducted only with a thorough understanding of the RIMS operational modes and the instrument response to these modes.

In the listing that follows, the year and daynumber is coded as (YEAR-1980) * 1000 + DAYNUMBER. The universal time of day is coded as HHMMSS.

```
BEGIN LISTING
2109 220000 APPON
2109 220016 SH16M01
2109 220100 SH16M02X
2109 220200 SH16M03X
2109 220300 SH16M02X
2109 220400 SH16M03X
2109 220500 SH16M02X
2109 220600 SH16M03X
2109 220700 SH16M02X
2109 220800 SH16M03X
2109 220900 SH16M02X
2109 221000 SH16M03X
2109 221100 SH16M02X
2109 221200 SH16M03X
2109 221300 SH16M02X
2109 221400 SH16M03X
2109 221500 SH16M02X
2109 221600 SH16M03X
2109 221700 SH16M02X
2109 221800 SH16M03X
2109 221900 SH16M02X
2109 222000 SH16M03X
2109 222100 SH16M02X
2109 222200 SH16M03X
2109 222300 SH16M02X
2109 222400 SH16M03X
2109 222500 SH16M02X
2109 222600 SH16M03X
2109 222700 SH16M02X
2109 222800 SH16M03X
2109 222900 SH16M02X
2109 223000 SH16M03X
2109 223100 SH16M02X
2109 223200 SH16M03X
2109 223300 SH16M02X
2109 223400 SH16M03X
2109 223500 SH16M02X
2109 223600 SH16M03X
2109 223700 SH16M02X
2109 223800 SH16M03X
2109 223900 SH16M02X
2109 224000 SH16M03X
2109 224100 SH16M02X
2109 224200 SH16M03X
2109 224300 SH16M02X
2109 224400 SH16M03X
2109 224500 SH16M02X
2109 224600 SH16M03X
2109 224700 SH16M02X
2109 224800 SH16M03X
2109 224900 SH16M02X
2109 225000 SH16M03X
2109 225100 SH16M02X
2109 225200 SH16M03X
2109 225300 SH16M02X
2109 225400 SH16M03X
2109 225500 SH16M02X
2109 225600 SH16M03X
2109 225700 SH16M02X
2109 225800 SH16M03X
2109 225900 SH16M02X
2109 230000 SH16M03X
2109 230100 SH16M02X
2109 230200 SH16M03X
2109 230300 SH16M02X
2109 230400 SH16M03X
2109 230500 SH16M02X
2109 230600 SH16M03X
2109 230700 SH16M02X
2109 230800 SH16M03X
2109 230900 SH16M02X
2109 231000 SH16M03X
2109 231100 SH16M02X
2109 231200 SH16M03X
2109 231300 SH16M02X
2109 231400 SH16M03X
2109 231500 SH16M02X
2109 231600 SH16M03X
2109 231700 SH16M02X
2109 231800 SH16M03X
2109 231900 SH16M02X
2109 232000 SH16M03X
2109 232100 SH16M02X
2109 232200 SH16M03X
2109 232300 SH16M02X
2109 232400 SH16M03X
2109 232500 SH16M02X
2109 232600 SH16M03X
2109 232700 SH16M02X
2109 232800 SH16M03X
2109 232900 SH16M02X
2109 233000 SH16M03X
2109 233100 SH16M02X
2109 233200 SH16M03X
2109 233300 SH16M02X
2109 233400 SH16M03X
2109 233500 SH16M02X
2109 233600 SH16M03X
2109 233700 SH16M02X
2109 233800 SH16M03X
2109 233900 SH16M02X
2109 234000 SH16M03X
2109 234100 SH16M02X
2109 234200 SH16M03X
2109 234300 SH16M02X
2109 234400 SH16M03X
2109 234500 SH16M02X
2109 234600 SH16M03X
2109 234700 SH16M02X
2109 234800 SH16M03X
2109 234900 SH16M02X
2109 235000 SH16M03X
2109 235100 SH16M02X
2109 235200 SH16M03X
2109 235300 SH16M02X
2109 235400 SH16M03X
2109 235500 SH16M02X
2109 235600 SH16M03X
2109 235700 SH16M02X
2109 235800 SH16M03X
2109 235900 SH16M02X
2110 000000 SH16M03X
2110 000100 SH16M02X
2110 000200 SH16M03X
2110 000300 SH16M02X
2110 000400 SH16M03X
2110 000500 SH16M02X
2110 000600 SH16M03X
2110 000700 SH16M02X
2110 000800 SH16M03X
2110 000900 SH16M02X
2110 001000 SH16M03X
2110 001100 SH16M02X
2110 001200 SH16M03X
2110 001300 SH16M02X
2110 001400 SH16M03X
2110 001500 SH16M02X
2110 001600 SH16M03X
2110 001700 SH16M02X
2110 001800 SH16M03X
2110 001900 SH16M02X
2110 002000 SH16M03X
2110 002100 SH16M02X
2110 002200 SH16M03X
2110 002300 SH16M02X
2110 002400 SH16M03X
2110 002500 SH16M02X
2110 002600 SH16M03X
2110 002700 SH16M02X
2110 002800 SH16M03X
2110 002900 SH16M02X
2110 003000 SH16M03X
2110 003100 SH16M02X
2110 003200 SH16M03X
2110 003300 SH16M02X
2110 003400 SH16M03X
2110 003500 SH16M02X
2110 003600 SH16M03X
2110 003700 SH16M02X
2110 003800 SH16M03X
2110 003900 SH16M02X
2110 004000 SH16M03X
2110 004100 SH16M02X
2110 004200 SH16M03X
2110 004300 SH16M02X
2110 004400 SH16M03X
2110 004500 SH16M02X
2110 004600 SH16M03X
2110 004700 SH16M02X
2110 004800 STOPIT
2110 005000 IMSON
2110 005016 MC87201
2110 020000 STOPIT
2110 040000 IMSON
2110 040016 SC28M01
2110 085000 STOPIT
2110 110000 IMSON
2110 110016 SC28M01
2110 175000 STOPIT
2110 212000 IMSON
2110 212016 T816Q02
2111 041000 STOPIT
2111 053000 IMSON
2111 053016 SC28M01
2111 111000 STOPIT
2111 115000 IMSON
2111 115016 SC28M01
2111 184000 STOPIT
2111 214000 IMSON
2111 224016 T816Q02
2112 012000 STOPIT
2112 022000 APPON
2112 022016 T816Q02
2112 012016 T816Q05X
2112 050000 STOPIT
2112 060000 IMSON
2112 060016 SC28M01
2112 075000 STOPIT
2112 082000 IMSON
2112 082016 SC28M01
2112 144000 STOPIT
2112 154000 APPON
2112 154016 SH16M02X
2112 160000 STOPIT
2112 220000 IMSON
2112 220016 T816Q02
2113 051000 STOPIT
2113 073000 IMSON
2113 073016 SC28M01
2113 111000 STOPIT
2113 115000 IMSON
2113 115016 SC28M01
2113 154000 STOPIT
2113 190000 IMSON
2113 190016 T816Q02
2114 015000 STOPIT
2114 022000 APPON
2114 022016 T816Q02
2114 022016 T816Q05X
2114 045000 STOPIT
2114 055000 IMSON
2114 055016 SC28M01
2114 074000 STOPIT
2114 082000 IMSON
2114 082016 SC28M01
2114 143000 STOPIT
2114 153000 APPON
2114 153016 SH16M01
2114 153016 SH16M01X
2114 175000 STOPIT
2114 222000 IMSON
2114 222016 T816Q02
2115 051000 STOPIT
2115 072000 IMSON
2115 072016 SC28M01
2115 111000 STOPIT
2115 114000 IMSON
2115 114016 SC28M01
2115 154000 STOPIT
2115 185000 IMSON
2115 185016 T816Q02
2116 014000 STOPIT
2116 024000 IMSON
2116 024016 SC28M01
2116 050000 STOPIT
2116 060000 IMSON
2116 060016 SC28M01
2116 074000 STOPIT
2116 082000 IMSON
2116 082016 SC28M01
2116 143000 STOPIT
2116 190000 IMSON
2116 190016 T816Q02
2117 015000 STOPIT
2117 030000 APPON
2117 030016 SH16M01
2117 030016 SH16M01X
2117 040000 STOPIT
2117 080000 IMSON
2117 080016 SC28M01
2117 110000 STOPIT
2117 114000 IMSON
2117 114016 SC28M01
2117 140000 STOPIT
2117 172000 IMSON
2117 172016 T816Q02
2118 001000 STOPIT
2118 232500 APPON
2118 232516 T816Q02
2118 232616 T816Q05X
2118 232750 STOPIT
2119 022200 IMSON
2119 022216 SS04P01
2119 040000 STOPIT
```

2119	060000	APPON
2119	060016	SH16M01
2119	060116	SH16M02X
2119	110000	STOPIT
2119	120000	IMSON
2119	120016	T816Q02
2119	185100	STOPIT
2119	232200	IMSON
2119	232216	T816Q02
2120	060000	STOPIT
2120	070500	IMSON
2120	070516	T816Q02
2120	082900	STOPIT
2120	094500	IMSON
2120	094516	M133301
2120	163600	STOPIT
2120	183600	APPON
2120	183616	SH16M01
2120	183716	SH16M02X
2120	211100	STOPIT
2120	235000	APPON
2120	235016	T816Q02
2120	235116	T816Q05X
2121	035900	STOPIT
2121	084000	IMSON
2121	084016	M133301
2121	153100	STOPIT
2121	171600	IMSON
2121	171616	T816Q02
2121	190000	STOPIT
2121	231700	IMSON
2121	231716	T816Q02
2122	055500	STOPIT
2122	070000	IMSON
2122	070016	T816Q02
2122	082400	STOPIT
2122	094000	IMSON
2122	094016	M133301
2122	163100	STOPIT
2122	183100	APPON
2122	183116	SH16M01
2122	183216	SH16M02X
2122	210500	STOPIT
2122	234500	APPON
2122	234516	T816Q02
2122	234616	T816Q05X
2123	035400	STOPIT
2123	083500	IMSON
2123	083516	M133301
2123	152600	STOPIT
2123	171100	IMSON
2123	171116	T816Q02
2123	185500	STOPIT
2123	232000	IMSON
2123	232016	M133301
2124	052000	STOPIT
2124	065300	IMSON
2124	065316	M133301
2124	081500	STOPIT
2124	091500	IMSON
2124	091516	T816Q02
2124	160600	STOPIT
2124	203500	IMSON
2124	203516	M133301
2125	012800	STOPIT
2125	024700	IMSON
2125	024716	T816Q02
2125	045000	STOPIT
2125	060500	IMSON
2125	060516	CS04L01
2125	125600	STOPIT
2125	140500	APPON
2125	140516	SH16M01
2125	140600	SH16M02X
2125	140700	SH16M03X
2125	140800	SH16M02X
2125	140900	SH16M03X
2125	141000	SH16M02X
2125	141100	SH16M03X
2125	141200	SH16M02X
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2125	141600	SH16M02X
2125	141700	SH16M03X
2125	141800	SH16M02X
2125	141900	SH16M03X
2125	142000	SH16M02X
2125	142100	SH16M03X
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2125	142500	SH16M03X
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2125	142800	SH16M02X
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2125	143600	SH16M02X
2125	143700	SH16M03X
2125	143800	SH16M02X
2125	143900	SH16M03X
2125	144000	SH16M02X
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2125	144800	SH16M02X
2125	144900	SH16M03X
2125	145000	SH16M02X
2125	145100	SH16M03X
2125	145200	SH16M02X
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2125	145400	SH16M02X
2125	145500	SH16M03X
2125	145600	SH16M02X
2125	145700	SH16M03X
2125	145800	SH16M02X
2125	145900	SH16M03X
2125	150000	SH16M02X
2125	150100	SH16M03X
2125	150200	SH16M02X
2125	150300	SH16M03X
2125	150400	SH16M02X
2125	150500	SH16M03X
2125	150600	SH16M02X
2125	150700	SH16M03X
2125	150800	SH16M02X
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2125	151000	SH16M02X
2125	151100	SH16M03X
2125	151200	SH16M02X
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2125	152500	SH16M03X
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2125	153100	SH16M03X
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2125	154100	SH16M03X
2125	154200	SH16M02X
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2125	154700	SH16M03X
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2125	155000	SH16M02X
2125	155100	SH16M03X
2125	155200	SH16M02X
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2125	155400	SH16M02X
2125	155500	SH16M03X
2125	155600	SH16M02X
2125	155700	SH16M03X
2125	155800	SH16M02X
2125	155900	SH16M03X
2125	160000	SH16M02X
2125	160100	SH16M03X
2125	160200	SH16M02X
2125	160300	SH16M03X
2125	160400	SH16M02X
2125	160500	SH16M03X
2125	160600	SH16M02X
2125	160700	SH16M03X
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2125	161100	SH16M03X
2125	161200	SH16M02X
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2125	161400	SH16M02X
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2125	161700	SH16M03X
2125	161800	SH16M02X
2125	161900	SH16M03X
2125	162000	SH16M02X
2125	162100	SH16M03X
2125	162200	SH16M02X
2125	162300	SH16M03X
2125	162400	SH16M02X
2125	162500	SH16M03X
2125	162600	SH16M02X
2125	162700	SH16M03X
2125	162800	SH16M02X
2125	162900	SH16M03X
2125	163000	SH16M02X
2125	163100	SH16M03X
2125	163200	SH16M02X
2125	163300	SH16M03X
2125	163400	SH16M02X
2125	163500	SH16M03X
2125	163600	SH16M02X
2125	163700	SH16M03X
2125	163800	SH16M02X
2125	163900	SH16M03X
2125	164000	SH16M02X
2125	164100	SH16M03X
2125	164200	SH16M02X
2125	164300	SH16M03X
2125	164400	SH16M02X
2125	164500	SH16M03X
2125	164600	SH16M02X
2125	164700	SH16M03X
2125	164800	SH16M02X
2125	164900	SH16M03X
2125	165000	SH16M03X
2125	165200	SH16M03X
2125	165300	STOPIT
2125	170500	IMSON
2125	170516	M133301
2125	200500	STOPIT
2125	231700	IMSON
2125	231716	T816Q02
2126	044700	STOPIT
2126	054700	IMSON
2126	054716	T816Q02
2126	123800	STOPIT
2126	133800	IMSON
2126	133816	M133301
2126	170000	STOPIT
2126	202950	IMSON
2126	203006	M133301
2127	012250	STOPIT
2127	024200	IMSON
2127	024216	T816Q02
2127	044500	STOPIT
2127	060000	IMSON
2127	060016	CMMSL01
2127	125100	STOPIT
2127	140000	APPON
2127	140016	SH16M01
2127	140100	SH16M02X
2127	140200	SH16M03X
2127	140300	SH16M02X
2127	140400	SH16M03X
2127	140500	SH16M02X
2127	140600	SH16M03X
2127	140700	SH16M02X
2127	140800	SH16M03X
2127	140900	SH16M02X
2127	141000	SH16M03X
2127	141100	SH16M02X
2127	141200	SH16M03X
2127	141300	SH16M02X
2127	141400	SH16M03X
2127	141500	SH16M02X
2127	141600	SH16M03X
2127	141700	SH16M02X
2127	141800	SH16M03X
2127	141900	SH16M02X
2127	142000	SH16M03X
2127	142100	SH16M02X
2127	142200	SH16M03X
2127	142300	SH16M02X
2127	142400	SH16M03X
2127	142500	SH16M02X
2127	142600	SH16M03X
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2145	032800	PH80ADAA
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2146	123420	PH00AAAA
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2146	210700	IMSON
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2157	173200	PH00AAAA
2157	212000	PH00AAAA
2157	230200	STOPIT
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2158	091116	SH16M01
2158	091120	PH00ADAA
2158	050500	STOPIT
2158	080500	IMSON
2158	080516	T816Q02
2158	080520	PH00AAAA
2158	125000	STOPIT

2158	204300	APION
2158	204316	SH16M01
2158	204320	PH80ADAA
2159	022000	STOPIT
2159	075500	IMSON
2159	075516	CMMSL01
2159	144600	STOPIT
2159	163700	APION
2159	163716	T816Q02
2159	163720	PH00AAAA
2159	172700	PH00AAAA
2159	211500	PH80AAAA
2159	225700	STOPIT
2160	000600	APION
2160	000616	SH16M01
2160	000620	PH80ADAA
2160	000624	AMV2400
2160	050000	STOPIT
2160	132100	APION
2160	132116	SH16M01
2160	132120	PH80ADAA
2160	132124	AMV2400
2160	143000	PH00ADAA
2160	143004	AMV2400
2160	181500	PH80ADAA
2160	181504	AMV2400
2160	193000	PH00ADAA
2160	193004	AMV2400
2160	193500	STOPIT
2160	203800	APION
2160	203816	SH16M01
2160	203820	PH80ADAA
2160	203824	AMV2400
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2161	160516	SSN8V01X
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2161	162404	AHV2400
2161	163300	PH80AAAA
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2162	000216	T816Q02
2162	000220	PH00AAAA
2162	000224	AHV2400
2162	005000	STOPIT
2162	005500	IMSON
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2162	005600	HI04N01X
2162	005700	HI04N03X
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2162	011500	APPON
2162	011516	T816Q02
2162	011520	PH00AAAA
2162	011524	AHV2400
2162	050000	STOPIT
2162	142900	APPON
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2162	195300	APPON
2162	195316	T816Q02
2162	195320	PH00AAAA
2162	195324	AHV2400
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2163	080420	SSN8V01X
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2164	142400	APPON
2164	142416	T816Q02
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2165	080920	SSN8V01X
2165	080924	AHV2400
2165	150000	STOPIT
2165	162300	APPON
2165	162316	SH16M01
2165	162320	PH80ADAA
2165	162324	AHV2400
2165	171700	PH00ADAA
2165	171704	AHV2400
2165	211000	PH80ADAA
2165	211004	AHV2400
2165	224200	STOPIT
2165	235600	IMSON
2165	235616	T816Q02
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2165	235624	AHV2400
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2166	080516	T816Q02
2166	080520	PH80AAAA
2166	080524	AHV2400
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2166	125624	AHV2400
2166	180700	STOPIT
2166	194400	IMSON
2166	194416	SH16M01
2166	194420	PH00ADAA
2166	194424	AHV2400
2167	020600	STOPIT
2167	080900	APPON
2167	080916	M133301
2167	081016	SSN8V01X
2167	081020	PH80AAAA
2167	081024	AHV2400
2167	090300	PH00AAAA
2167	090304	AHV2400
2167	093000	PH80AAAA
2167	093004	AHV2400
2167	150000	STOPIT
2167	235000	IMSON
2167	235016	T816Q02
2167	235020	PH00AAAA
2167	235024	AHV2400
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2168	052300	APPON
2168	052316	M133301
2168	052416	SSN8V01X
2168	052420	PH00AAAA
2168	052424	AHV2400
2168	063000	PH80AAAA
2168	063004	AHV2400
2168	083000	STOPIT
2168	113000	IMSON
2168	113016	T816Q02
2168	113020	PH00AAAA
2168	113024	AHV2400
2168	182100	STOPIT
2168	202100	APPON
2168	202116	SH16M01
2168	202120	PH80ADAA
2168	202124	AHV2400
2169	020000	STOPIT
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2169	080416	M133301
2169	080516	SSN8V01X
2169	080520	PH80AAAA
2169	080524	AHV2400
2169	085800	PH00AAAA
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2169	092500	PH80AAAA
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2169	234500	IMSON
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2169	234524	AHV2400
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2170	051916	SSN8V01X
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2170	062504	AHV2400
2170	082500	STOPIT
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2170	112520	PH00AAAA
2170	112524	AHV2400
2170	181600	STOPIT
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2170	201616	SH16M01
2170	201620	PH80ADAA
2170	201624	AHV2400
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2171	085300	PH00AAAA
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2171	092004	AHV2400
2171	120300	STOPIT
2171	160700	IMSON
2171	160716	T816Q02
2171	160720	PH00AAAA
2171	160724	AHV2400
2171	210500	STOPIT
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2171	234416	T816Q02
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2171	234424	AHV2400
2172	044400	STOPIT
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2172	055124	AHV2400
2172	122200	STOPIT
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2172	130824	AHV2400
2172	160000	STOPIT
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2172	190024	AHV2400
2172	192800	PH80ADAA
2172	192804	AHV2400
2172	201500	PH00ADAA
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2173	050816	SSN8V01X
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2173	050824	AHV2400
2173	084800	PH00AAAA
2173	084804	AHV2400
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2173	115800	STOPIT
2173	160200	IMSON
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2173	160220	PH00AAAA
2173	160224	AHV2400
2173	210000	STOPIT
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2174	054620	PH00AAAA
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2174	121700	STOPIT
2174	130300	IMSON
2174	130316	T816Q02
2174	130320	PH00AAAA
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2174	155500	STOPIT
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2174	185516	SH16M01
2174	185520	PH00ADAA
2174	185524	AHV2400
2174	192300	PH80ADAA
2174	192304	AHV2400
2174	201000	PH00ADAA
2174	201004	AHV2400
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2175	050000	APPON
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2175	050024	AHV2400
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2175	084104	AHV2400
2175	091100	PH80AAAA
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2175	125516	M133301
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2175	125620	PH80AAAA
2175	125624	AHV2400
2175	152900	PH00AAAA
2175	152904	AHV2400
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2175	160004	AHV2400
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2175	221700	PH00AAAA
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2175	233800	APPON
2175	233816	T816R01
2175	233820	PH80AAAA
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2176	043600	STOPIT
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2176	055720	PH00AAAA
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2176	095500	STOPIT
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2176	110020	PH00AAAA
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2176	203820	PH00AAAA
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2177	004600	STOPIT
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2177	045516	T816R01
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2177	233320	PH80AAAA
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2179	052416	SH16M01
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2179	083204	AHV2400
2179	090200	PH80ADAA
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2179	222000	STOPIT
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2179	232216	T816R01
2179	232220	PH00AAAA
2179	232224	AHV2400
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2180	124724	AHV2400
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2180	182124	AHV2400
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2183	223900	STOPIT
2183	232400	APPON
2183	232416	SH16M01
2183	232420	PH80ADAA
2183	232424	AHV2400
2184	042100	STOPIT
2184	053700	IMSON
2184	053716	T816R01
2184	053720	PH00AAAA
2184	053724	AHV2400
2184	094100	STOPIT
2184	123800	IMSON
2184	123816	T816R01
2184	123820	PH80AAAA
2184	123824	AHV2400
2184	175500	STOPIT
2184	211500	IMSON
2184	211516	T816R01
2184	211520	PH00AAAA
2184	211524	AHV2400
2185	003200	STOPIT
2185	011400	APPON
2185	011416	M133301
2185	011516	SSN8V01X
2185	011520	PH00AAAA
2185	011524	AHV2400
2185	020800	STOPIT
2185	044900	APPON
2185	044916	T816R01
2185	044920	PH00AAAA
2185	044924	AHV2400
2185	075000	PH80AAAA
2185	075004	AHV2400
2185	081800	PH00AAAA
2185	081804	AHV2400
2185	084700	PH80AAAA
2185	084704	AHV2400
2185	110800	PH00AAAA
2185	110804	AHV2400
2185	114000	STOPIT
2185	121500	IMSON
2185	121516	T816R01
2185	121520	PH00AAAA
2185	121524	AHV2400
2185	145300	STOPIT
2185	175900	APPON
2185	175916	SH16M01
2185	175920	PH00ADAA
2185	175924	AHV2400
2185	204700	PH80ADAA
2185	204704	AHV2400
2185	215300	PH00ADAA
2185	215304	AHV2400
2185	222200	PH80ADAA
2185	222204	AHV2400
2185	232600	PH00ADAA
2185	232604	AHV2400
2186	005000	STOPIT
2186	051100	IMSON
2186	051116	T816R01
2186	051120	PH00AAAA
2186	051124	AHV2400
2186	090000	STOPIT
2186	092500	IMSON
2186	092516	T816R01
2186	092520	PH00AAAA
2186	092524	AHV2400
2186	114700	STOPIT
2186	123700	APPON
2186	123716	T816R01
2186	123720	PH80AAAA
2186	123724	AHV2400
2186	155200	STOPIT
2186	195200	IMSON
2186	195216	SH16M01
2186	195220	PH00ADAA
2186	195224	AHV2400
2187	003100	STOPIT
2187	010900	APPON
2187	010916	M133301
2187	011016	SSN8V01X
2187	011020	PH00AAAA
2187	011024	AHV2400
2187	020300	STOPIT
2187	044400	APPON
2187	044416	T816R01
2187	044420	PH00AAAA
2187	044424	AHV2400
2187	074500	PH80AAAA
2187	074504	AHV2400
2187	081300	PH00AAAA
2187	081304	AHV2400
2187	084200	PH80AAAA
2187	084204	AHV2400
2187	110300	PH00AAAA
2187	110304	AHV2400
2187	113500	STOPIT
2187	121000	IMSON
2187	121016	T816R01
2187	121020	PH00AAAA
2187	121024	AHV2400
2187	144800	STOPIT
2187	175400	APPON
2187	175416	SH16M01
2187	175420	PH00ADAA
2187	175424	AHV2400
2187	204200	PH80ADAA
2187	204204	AHV2400
2187	214800	PH00ADAA
2187	214804	AHV2400
2187	221700	PH80ADAA
2187	221704	AHV2400
2187	232100	PH00ADAA
2187	232104	AHV2400
2188	004500	STOPIT
2188	050600	IMSON
2188	050616	T816R01
2188	050620	PH00AAAA
2188	050624	AHV2400
2188	085500	STOPIT
2188	092000	IMSON
2188	092016	T816R01
2188	092020	PH00AAAA
2188	092024	AHV2400
2188	114200	STOPIT
2188	123200	APPON
2188	123216	T816R01
2188	123220	PH80AAAA
2188	123224	AHV2400
2188	154700	STOPIT
2188	194700	IMSON
2188	194716	SH16M01
2188	194720	PH00ADAA
2188	194724	AHV2400
2189	002600	STOPIT
2189	024400	IMSON
2189	024416	T816R01
2189	024420	PH00AAAA
2189	024424	AHV2400
2189	093500	STOPIT
2189	103500	IMSON
2189	103516	SH16M01
2189	103520	PH00ADAA
2189	103524	AHV2400
2189	163500	STOPIT
2189	183500	IMSON
2189	183516	T816R01
2189	183520	PH00AAAA
2189	183524	AHV2400
2190	012600	STOPIT
2190	040400	APPON
2190	040416	M133301
2190	040516	SSN8V01X
2190	040520	PH80AAAA
2190	040524	AHV2400
2190	043900	PH00AAAA
2190	043904	AHV2400
2190	050800	PH80AAAA
2190	050804	AHV2400
2190	095000	STOPIT
2190	110500	APPON
2190	110516	M133301
2190	110616	SSN8V01X
2190	110620	PH80AAAA
2190	110624	AHV2400
2190	112900	PH00AAAA
2190	112904	AHV2400
2190	115900	PH80AAAA
2190	115904	AHV2400
2190	164600	STOPIT
2190	194600	IMSON
2190	194616	T816R01
2190	194620	PH00AAAA
2190	194624	AHV2400
2191	013000	STOPIT
2191	023900	IMSON
2191	023916	T816R01
2191	023920	PH00AAAA
2191	023924	AHV2400
2191	093000	STOPIT
2191	103000	IMSON
2191	103016	SH16M01
2191	103020	PH00ADAA
2191	103024	AHV2400
2191	163000	STOPIT
2191	183000	IMSON
2191	183016	T816R01
2191	183020	PH00AAAA
2191	183024	AHV2400
2192	012100	STOPIT
2192	035900	APPON
2192	035916	M133301
2192	040016	SSN8V01X
2192	040020	PH80AAAA
2192	040024	AHV2400
2192	043400	PH00AAAA
2192	043404	AHV2400
2192	050300	PH80AAAA
2192	050304	AHV2400
2192	094500	STOPIT
2192	110000	APPON
2192	110016	M133301
2192	110116	SSN8V01X
2192	110120	PH80AAAA
2192	110124	AHV2400
2192	112400	PH00AAAA
2192	112404	AHV2400
2192	115400	PH80AAAA
2192	115404	AHV2400
2192	164100	STOPIT
2192	194100	IMSON
2192	194116	T816R01
2192	194120	PH00AAAA
2192	194124	AHV2400
2193	012500	STOPIT
2193	045400	APPON
2193	045416	SH16M01
2193	045420	PH80ADAA
2193	045424	AHV2400
2193	075800	PH00ADAA
2193	075804	AHV2400
2193	082700	PH80ADAA
2193	082704	AHV2400
2193	114500	STOPIT
2193	122000	APPON
2193	122016	M133301
2193	122116	SSN8V01X
2193	122120	PH80AAAA
2193	122124	AHV2400
2193	144500	PH00AAAA
2193	144504	AHV2400
2193	151400	PH80AAAA
2193	151404	AHV2400
2193	160200	STOPIT
2193	183500	IMSON
2193	183516	T816R01
2193	183520	PH00AAAA
2193	183524	AHV2400
2194	012600	STOPIT
2194	041000	APPON
2194	041016	M133301
2194	041116	SSN8V01X
2194	041120	PH80AAAA
2194	041124	AHV2400
2194	042900	PH00AAAA
2194	042904	AHV2400
2194	045900	PH80AAAA
2194	045904	AHV2400
2194	081500	STOPIT
2194	092500	IMSON
2194	092516	T816R01
2194	092520	PH00AAAA
2194	092524	AHV2400
2194	112800	STOPIT
2194	121400	IMSON
2194	121416	T816R01
2194	121420	PH00AAAA
2194	121424	AHV2400
2194	173500	STOPIT
2194	194000	IMSON
2194	194016	T816R01
2194	194020	PH00AAAA
2194	194024	AHV2400
2195	001800	STOPIT
2195	044900	APPON
2195	044916	SH16M01
2195	044920	PH80ADAA
2195	044924	AHV2400
2195	075300	PH00ADAA
2195	075304	AHV2400
2195	082200	PH80ADAA
2195	082204	AHV2400
2195	114000	STOPIT
2195	121500	APPON
2195	121516	M133301
2195	121616	SSN8V01X
2195	121620	PH80AAAA
2195	121624	AHV2400
2195	144000	PH00AAAA
2195	144004	AHV2400
2195	150900	PH80AAAA
2195	150904	AHV2400
2195	155700	STOPIT
2195	183000	IMSON
2195	183016	T816R01
2195	183020	PH00AAAA
2195	183024	AHV2400
2196	012100	STOPIT
2196	040500	APPON
2196	040516	M133301
2196	040616	SSN8V01X
2196	040620	PH80AAAA
2196	040624	AHV2400
2196	042400	PH00AAAA
2196	042404	AHV2400
2196	045400	PH80AAAA
2196	045404	AHV2400
2196	081000	STOPIT
2196	092000	IMSON
2196	092016	T816R01
2196	092020	PH00AAAA
2196	092024	AHV2400
2196	112300	STOPIT
2196	120900	IMSON
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2196	120924	AHV2400
2196	173000	STOPIT
2196	193500	IMSON
2196	193516	T816R01
2196	193520	PH00AAAA
2196	193524	AHV2400
2197	001300	STOPIT
2197	012000	IMSON
2197	012016	T816R01
2197	012020	PH00AAAA
2197	012024	AHV2400
2197	063500	STOPIT
2197	084100	IMSON
2197	084116	T816R01
2197	084120	PH00AAAA
2197	084124	AHV2400
2197	135500	STOPIT
2197	151400	IMSON
2197	151416	T816R01
2197	151420	PH00AAAA
2197	151424	AHV2400
2197	202900	STOPIT
2197	215000	IMSON
2197	215016	T816R01
2197	215020	PH00AAAA
2197	215024	AHV2400
2198	030500	STOPIT
2198	051100	IMSON
2198	051116	T816R01
2198	051120	PH00AAAA
2198	051124	AHV2400
2198	102600	STOPIT
2198	115700	IMSON
2198	115716	T816R01
2198	115720	PH00AAAA
2198	115724	AHV2400
2198	170000	STOPIT
2198	183000	IMSON
2198	183016	T816R01
2198	183020	PH00AAAA
2198	183024	AHV2400
2198	233900	STOPIT
2199	011500	IMSON
2199	011516	T816R01
2199	011520	PH00AAAA
2199	011524	AHV2400
2199	063000	STOPIT
2199	083600	IMSON
2199	083616	T816R01
2199	083620	PH00AAAA
2199	083624	AHV2400
2199	135000	STOPIT
2199	150900	IMSON
2199	150916	T816R01
2199	150920	PH00AAAA
2199	150924	AHV2400
2199	202400	STOPIT
2199	214500	IMSON
2199	214516	T816R01
2199	214520	PH00AAAA
2199	214524	AHV2400
2200	014000	STOPIT
2201	041800	APPON
2201	041816	INSTR10
2201	041820	AHV2400
2201	074400	PH00ADDT
2201	074404	AHV2400
2201	110900	STOPIT
2201	112000	APPON
2201	112016	M133301
2201	112116	SSN8V01X
2201	112120	PH80AAAA
2201	112124	AHV2400
2201	115000	STOPIT
2201	125000	APPON
2201	125016	M133301
2201	125116	SSN8V01X
2201	125120	PH80AAAA
2201	125124	AHV2400
2201	135600	STOPIT
2201	171500	IMSON
2201	171516	T816R01
2201	171520	PH00AAAA
2201	171524	AHV2400

2201	215000	STOPIT	2202	024400	T816Q05X	2202	041700	T816Q03X	2202	054900	T816Q04X
2202	011400	APPON	2202	024500	T816Q02X	2202	041800	T816Q02X	2202	055000	T816Q02X
2202	011416	T816Q02	2202	024600	T816Q03X	2202	041900	T816Q04X	2202	055100	T816Q05X
2202	011500	T816Q02X	2202	024700	T816Q02X	2202	042000	T816Q02X	2202	055200	T816Q02X
2202	011600	T816Q03X	2202	024800	T816Q04X	2202	042100	T816Q05X	2202	055300	T816Q03X
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2202	011800	T816Q04X	2202	025000	T816Q05X	2202	042300	T816Q03X	2202	055500	T816Q04X
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2202	012000	T816Q05X	2202	025200	T816Q03X	2202	042500	T816Q04X	2202	055700	T816Q05X
2202	012100	T816Q02X	2202	025300	T816Q02X	2202	042600	T816Q02X	2202	055800	T816Q02X
2202	012200	T816Q03X	2202	025400	T816Q04X	2202	042700	T816Q05X	2202	055900	T816Q03X
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2202	013200	T816Q05X	2202	030400	T816Q03X	2202	043700	T816Q04X	2202	060900	T816Q05X
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2202	021000	T816Q03X	2202	034200	T816Q04X	2202	051500	T816Q05X	2202	064700	T816Q03X
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2202	021200	T816Q04X	2202	034400	T816Q05X	2202	051700	T816Q03X	2202	064900	T816Q04X
2202	021300	T816Q02X	2202	034500	T816Q02X	2202	051800	T816Q02X	2202	065000	T816Q02X
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2202	021500	T816Q02X	2202	034700	T816Q02X	2202	052000	T816Q02X	2202	065200	T816Q02X
2202	021600	T816Q03X	2202	034800	T816Q04X	2202	052100	T816Q05X	2202	065300	T816Q03X
2202	021700	T816Q02X	2202	034900	T816Q02X	2202	052200	T816Q02X	2202	065400	T816Q02X
2202	021800	T816Q04X	2202	035000	T816Q05X	2202	052300	T816Q03X	2202	065500	T816Q04X
2202	021900	T816Q02X	2202	035100	T816Q02X	2202	052400	T816Q02X	2202	065600	T816Q02X
2202	022000	T816Q05X	2202	035200	T816Q03X	2202	052500	T816Q04X	2202	065700	T816Q05X
2202	022100	T816Q02X	2202	035300	T816Q02X	2202	052600	T816Q02X	2202	065800	T816Q02X
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2202	180200	STOPIT	2203	112100	IMSON
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2203	213600	PH80AAAA			
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2203	230900	STOPIT			
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2204	123016	T816R01	2210	121716	T816R01	2211	114800	SH16M03X	2211	132416	SSN8V01X	2213	105600	SH16M02X
2204	123020	PH80AAAA	2210	121720	PH00AAAA	2211	114900	SH16M02X	2211	132420	PH80AAAA	2213	105700	SH16M03X
2204	123024	AHV2400	2210	121724	AHV71582	2211	115000	SH16M03X	2211	132424	AHV71582	2213	105800	SH16M02X
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2204	183800	IMSON	2210	191500	IMSON	2211	115200	SH16M03X	2211	135704	AHV71582	2213	110000	SH16M02X
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2204	183820	PH00AAAA	2210	191520	PH00AAAA	2211	115400*	SH16M03X	2211	142504	AHV71582	2213	110200	SH16M02X
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2205	003424	AHV2400	2211	103000	APPON	2211	120100	SH16M02X	2211	173700	HI04N01X	2213	110900	SH16M03X
2205	010300	PH80AAAA	2211	103016	SH16M01	2211	120200	SH16M03X	2211	173800	HI04N03X	2213	111000	SH16M02X
2205	010304	AHV2400	2211	103100	SH16M02X	2211	120300	SH16M02X	2211	173900	HI04N04X	2213	111100	SH16M03X
2205	015700	STOPIT	2211	103200	SH16M03X	2211	120400	SH16M03X	2211	174000	HI04N01X	2213	111200	SH16M02X
2207	173300	APPON	2211	103300	SH16M02X	2211	120500	SH16M02X	2211	174100	HI04N03X	2213	111300	SH16M03X
2207	173316	SH16M01	2211	103400	SH16M03X	2211	120600	SH16M03X	2211	174200	HI04N04X	2213	111400	SH16M02X
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2207	201100	PH80ADAA	2211	103700	SH16M02X	2211	120900	SH16M02X	2211	174500	HI04N04X	2213	111700	SH16M03X
2207	201104	AHV71582	2211	103800	SH16M03X	2211	121000	SH16M03X	2211	174600	HI04N01X	2213	111800	SH16M02X
2207	205900	PH00ADAA	2211	103900	SH16M02X	2211	121100	SH16M02X	2211	174700	HI04N03X	2213	111900	SH16M03X
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2207	231400	PH00ADAA	2211	104300	SH16M02X	2211	121500	SH16M02X	2211	175316	T816R01	2213	112300	SH16M03X
2207	231404	AHV71582	2211	104400	SH16M03X	2211	121600	SH16M03X	2211	175320	PH00AAAA	2213	112400	SH16M02X
2208	002400	STOPIT	2211	104500	SH16M02X	2211	121700	SH16M02X	2211	175324	AHV71582	2213	112500	SH16M03X
2208	020400	IMSON	2211	104600	SH16M03X	2211	121800	SH16M03X	2211	203300	STOPIT	2213	112600	SH16M02X
2208	020416	T816R01	2211	104700	SH16M02X	2211	121900	SH16M02X	2211	231100	APPON	2213	112700	SH16M03X
2208	020420	PH00AAAA	2211	104800	SH16M03X	2211	122000	SH16M03X	2211	231116	M133301	2213	112800	SH16M02X
2208	020424	AHV71582	2211	104900	SH16M02X	2211	122100	SH16M02X	2211	231216	SSN8V01X	2213	112900	SH16M03X
2208	085500	STOPIT	2211	105000	SH16M03X	2211	122200	SH16M03X	2211	231220	PH80AAAA	2213	113000	SH16M02X
2208	192000	IMSON	2211	105100	SH16M02X	2211	122300	SH16M02X	2211	231224	AHV71582	2213	113100	SH16M03X
2208	192016	T816R01	2211	105200	SH16M03X	2211	122400	SH16M03X	2212	032500	STOPIT	2213	113200	SH16M02X
2208	192020	PH00AAAA	2211	105300	SH16M02X	2211	122500	SH16M02X	2212	062500	APPON	2213	113300	SH16M03X
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2208	224800	STOPIT	2211	105500	SH16M02X	2211	122700	SH16M02X	2212	062616	SSN8V01X	2213	113500	SH16M03X
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2209	011216	T816R01	2211	105700	SH16M02X	2211	122900	SH16M02X	2212	062624	AHV71582	2213	113700	SH16M03X
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2209	011224	AHV71582	2211	105900	SH16M02X	2211	123100	SH16M02X	2212	103204	AHV71582	2213	113900	SH16M03X
2209	024500	STOPIT	2211	110000	SH16M03X	2211	123200	SH16M03X	2212	110000	STOPIT	2213	114000	SH16M02X
2209	041500	APPON	2211	110100	SH16M02X	2211	123300	SH16M02X	2212	130000	APPON	2213	114100	SH16M03X
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2209	041616	SSN8V01X	2211	110300	SH16M02X	2211	123500	SH16M02X	2212	130020	PH80AAAA	2213	114300	SH16M03X
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2209	111620	PH80AAAA	2211	111400	SH16M03X	2211	124600	SH16M03X	2213	020720	AHV71582	2213	115400	SH16M02X
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2209	143304	AHV71582	2211	111900	SH16M02X	2211	125100	SH16M02X	2213	102700	SH16M03X	2213	115900	SH16M03X
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2209	172800	APPON	2211	112100	SH16M02X	2211	125300	SH16M02X	2213	102900	SH16M03X	2213	120100	SH16M03X
2209	172816	SH16M01	2211	112200	SH16M03X	2211	125400	SH16M03X	2213	103000	SH16M02X	2213	120200	SH16M02X
2209	172820	PH00ADAA	2211	112300	SH16M02X	2211	125500	SH16M02X	2213	103100	SH16M03X	2213	120300	SH16M03X
2209	172824	AHV71582	2211	112400	SH16M03X	2211	125600	SH16M03X	2213	103200	SH16M02X	2213	120400	SH16M02X
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2210	001900	STOPIT	2211	113300	SH16M02X	2211	130500	SH16M02X	2213	104100	SH16M03X	2213	121300	SH16M03X
2210	015900	IMSON	2211	113400	SH16M03X	2211	130600	SH16M03X	2213	104200	SH16M02X	2213	121400	SH16M02X
2210	015916	T816R01	2211	113500	SH16M02X	2211	130700	SH16M02X	2213	104300	SH16M03X	2213	121500	SH16M03X
2210	015920	PH00AAAA	2211	113600	SH16M03X	2211	130800	SH16M03X	2213	104400	SH16M02X	2213	121600	SH16M02X

2213	121700	SH16M03X
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2214	125520	PH80AAAA
2214	125524	AHV71582
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2214	191020	PH00AAAA
2214	191024	AHV71582
2214	235000	STOPIT
2215	020100	IMSON
2215	020116	M204001
2215	020120	AHV71582
2215	064200	STOPIT
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2215	174300	IMSON
2215	174316	T816R01
2215	174320	PH00AAAA
2215	174324	AHV71582
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2215	230116	M133301
2215	230216	SSN8V01X
2215	230220	PH80AAAA
2215	230224	AHV71582
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2216	125020	PH80AAAA
2216	125024	AHV71582
2216	165500	STOPIT
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2216	190516	T816R01
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2216	234500	STOPIT
2217	040400	APPON
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2217	065400	PH00AAAA
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2217	072600	PH80AAAA
2217	072604	AHV71582
2217	085100	STOPIT
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2217	101716	SH16M01
2217	101720	PH00ADAA
2217	101724	AHV71582
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2217	205904	AHV71582
2217	213000	STOPIT
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2217	233020	PH00AAAA
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2218	033616	SH16M01
2218	033620	PH00ADAA
2218	033624	AHV71582
2218	035600	PH80ADAA
2218	035604	AHV71582
2218	100000	STOPIT
2218	120500	IMSON
2218	120516	T816R01
2218	120520	PH00AAAA
2218	120524	AHV71582
2218	143500	STOPIT
2218	185000	APPON
2218	185016	SH16M01
2218	185020	PH80ADAA
2218	185024	AHV71582
2218	214100	STOPIT
2219	004800	IMSON
2219	004816	T816R01
2219	004820	PH00AAAA
2219	004824	AHV71582
2219	051100	STOPIT
2219	080200	IMSON
2219	080216	T816R01
2219	080220	PH00AAAA
2219	080224	AHV71582
2219	092000	STOPIT
2219	101200	IMSON
2219	101216	SH16M01
2219	101220	PH00ADAA
2219	101224	AHV71582
2219	130200	STOPIT
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2219	155124	AHV71582
2219	202600	PH00AAAA
2219	202604	AHV71582
2219	205400	PH80AAAA
2219	205404	AHV71582
2219	212500	STOPIT
2219	232500	IMSON
2219	232516	T816R01
2219	232520	PH00AAAA
2219	232524	AHV71582
2220	013100	STOPIT
2220	033100	APPON
2220	033116	SH16M01
2220	033120	PH00ADAA
2220	033124	AHV71582
2220	035100	PH80ADAA
2220	035104	AHV71582
2220	095500	STOPIT
2220	120000	IMSON
2220	120016	T816R01
2220	120020	PH00AAAA
2220	120024	AHV71582
2220	143000	STOPIT
2220	184500	APPON
2220	184516	SH16M01
2220	184520	PH80ADAA
2220	184524	AHV71582
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2221	012500	APPON
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2221	012616	SSN8V01X
2221	012620	PH80AAAA
2221	012624	AHV71582
2221	064400	PH00AAAA
2221	064404	AHV71582
2221	071600	STOPIT
2221	092600	APPON
2221	092616	T816R01
2221	092620	PH80AAAA
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2221	133100	PH00AAAA
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2221	135900	STOPIT
2221	155900	IMSON
2221	155916	T816R01
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2221	194600	STOPIT
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2222	032500	APPON	2225	232000	T816Q02X	2226	005200	T816Q02X	2226	022500	T816Q02X	2226	035700	T816Q02X
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2222	032524	AHV71582	2225	232300	T816Q04X	2226	005500	T816Q05X	2226	022800	T816Q03X	2226	040000	T816Q04X
2222	075700	STOPIT	2225	232400	T816Q02X	2226	005600	T816Q02X	2226	022900	T816Q02X	2226	040100	T816Q02X
2222	105700	IMSON	2225	232500	T816Q05X	2226	005700	T816Q03X	2226	023000	T816Q04X	2226	040200	T816Q05X
2222	105716	T816R01	2225	232600	T816Q02X	2226	005800	T816Q02X	2226	023100	T816Q02X	2226	040300	T816Q02X
2222	105720	PH00AAAA	2225	232700	T816Q03X	2226	005900	T816Q04X	2226	023200	T816Q05X	2226	040400	T816Q03X
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2222	135500	STOPIT	2225	232900	T816Q04X	2226	010100	T816Q05X	2226	023400	T816Q03X	2226	040600	T816Q04X
2222	165300	APPON	2225	233000	T816Q02X	2226	010200	T816Q02X	2226	023500	T816Q02X	2226	040700	T816Q02X
2222	165316	SH16M01	2225	233100	T816Q05X	2226	010300	T816Q03X	2226	023600	T816Q04X	2226	040800	T816Q05X
2222	165320	PH00ADAA	2225	233200	T816Q02X	2226	010400	T816Q02X	2226	023700	T816Q02X	2226	040900	T816Q02X
2222	165324	AHV71582	2225	233300	T816Q03X	2226	010500	T816Q04X	2226	023800	T816Q05X	2226	041000	T816Q03X
2222	172000	PH80ADAA	2225	233400	T816Q02X	2226	010600	T816Q02X	2226	023900	T816Q02X	2226	041100	T816Q02X
2222	172004	AHV71582	2225	233500	T816Q04X	2226	010700	T816Q05X	2226	024000	T816Q03X	2226	041200	T816Q04X
2222	190700	PH00ADAA	2225	233600	T816Q02X	2226	010800	T816Q02X	2226	024100	T816Q02X	2226	041300	T816Q02X
2222	190704	AHV71582	2225	233700	T816Q05X	2226	010900	T816Q03X	2226	024200	T816Q04X	2226	041400	T816Q05X
2222	222600	STOPIT	2225	233800	T816Q02X	2226	011000	T816Q02X	2226	024300	T816Q02X	2226	041500	T816Q02X
2223	012000	APPON	2225	233900	T816Q03X	2226	011100	T816Q04X	2226	024400	T816Q05X	2226	041600	T816Q03X
2223	012016	M133301	2225	234000	T816Q02X	2226	011200	T816Q02X	2226	024500	T816Q02X	2226	041700	T816Q02X
2223	012116	SSN8V01X	2225	234100	T816Q04X	2226	011300	T816Q05X	2226	024600	T816Q03X	2226	041800	T816Q04X
2223	012120	PH80AAAA	2225	234200	T816Q02X	2226	011400	T816Q02X	2226	024700	T816Q02X	2226	041900	T816Q02X
2223	012124	AHV71582	2225	234300	T816Q05X	2226	011500	T816Q03X	2226	024800	T816Q04X	2226	042000	T816Q05X
2223	063900	PH00AAAA	2225	234400	T816Q02X	2226	011600	T816Q02X	2226	024900	T816Q02X	2226	042100	T816Q02X
2223	063904	AHV71582	2225	234500	T816Q03X	2226	011700	T816Q04X	2226	025000	T816Q05X	2226	042200	T816Q03X
2223	071100	STOPIT	2225	234600	T816Q02X	2226	011800	T816Q02X	2226	025100	T816Q02X	2226	042300	T816Q02X
2223	092100	APPON	2225	234700	T816Q04X	2226	011900	T816Q05X	2226	025200	T816Q03X	2226	042400	T816Q04X
2223	092116	M133301	2225	234800	T816Q02X	2226	012000	T816Q02X	2226	025300	T816Q02X	2226	042500	T816Q02X
2223	092216	SSN8V01X	2225	234900	T816Q05X	2226	012100	T816Q03X	2226	025400	T816Q04X	2226	042600	T816Q05X
2223	092220	PH80AAAA	2225	235000	T816Q02X	2226	012200	T816Q02X	2226	025500	T816Q02X	2226	042700	T816Q02X
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2223	132604	AHV71582	2225	235300	T816Q04X	2226	012500	T816Q05X	2226	025800	T816Q03X	2226	043000	T816Q04X
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2223	155400	IMSON	2225	235500	T816Q05X	2226	012700	T816Q03X	2226	030000	T816Q04X	2226	043200	T816Q05X
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2223	194100	STOPIT	2225	235900	T816Q04X	2226	013100	T816Q05X	2226	030400	T816Q03X	2226	043600	T816Q04X
2223	211100	IMSON	2226	000000	T816Q02X	2226	013200	T816Q02X	2226	030500	T816Q02X	2226	043700	T816Q02X
2223	211116	SH16M01	2226	000100	T816Q05X	2226	013300	T816Q03X	2226	030600	T816Q04X	2226	043800	T816Q05X
2223	211120	PH00ADAA	2226	000200	T816Q02X	2226	013400	T816Q02X	2226	030700	T816Q02X	2226	043900	T816Q02X
2223	211124	AHV71582	2226	000300	T816Q03X	2226	013500	T816Q04X	2226	030800	T816Q05X	2226	044000	T816Q03X
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2225	154316	SH16M01	2226	004000	T816Q02X	2226	021300	T816Q02X	2226	034500	T816Q02X	2226	051700	T816Q02X
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END LISTING

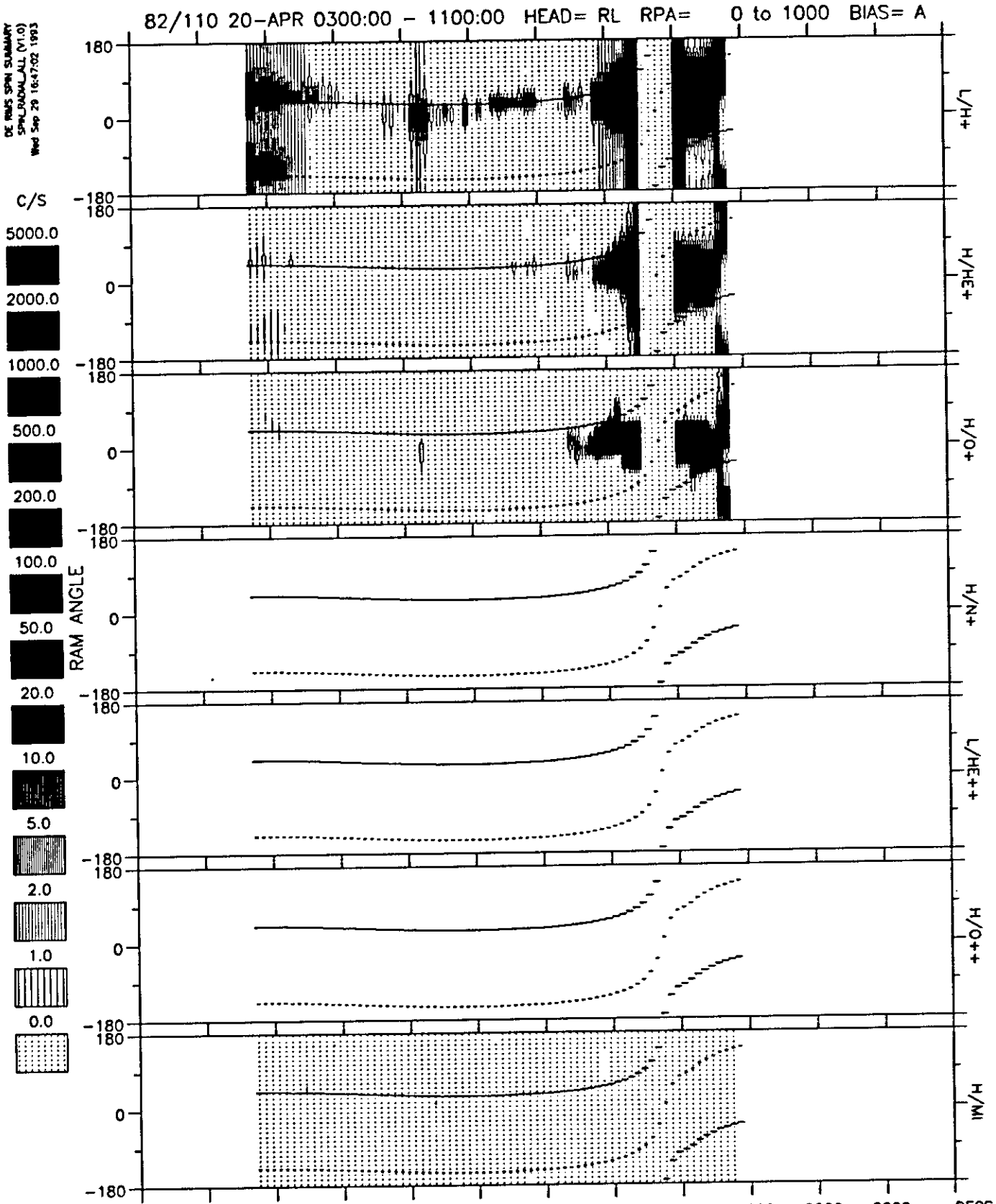
V. DE1/RIMS 1982 SUMMARY SPECTROGRAMS

Errata

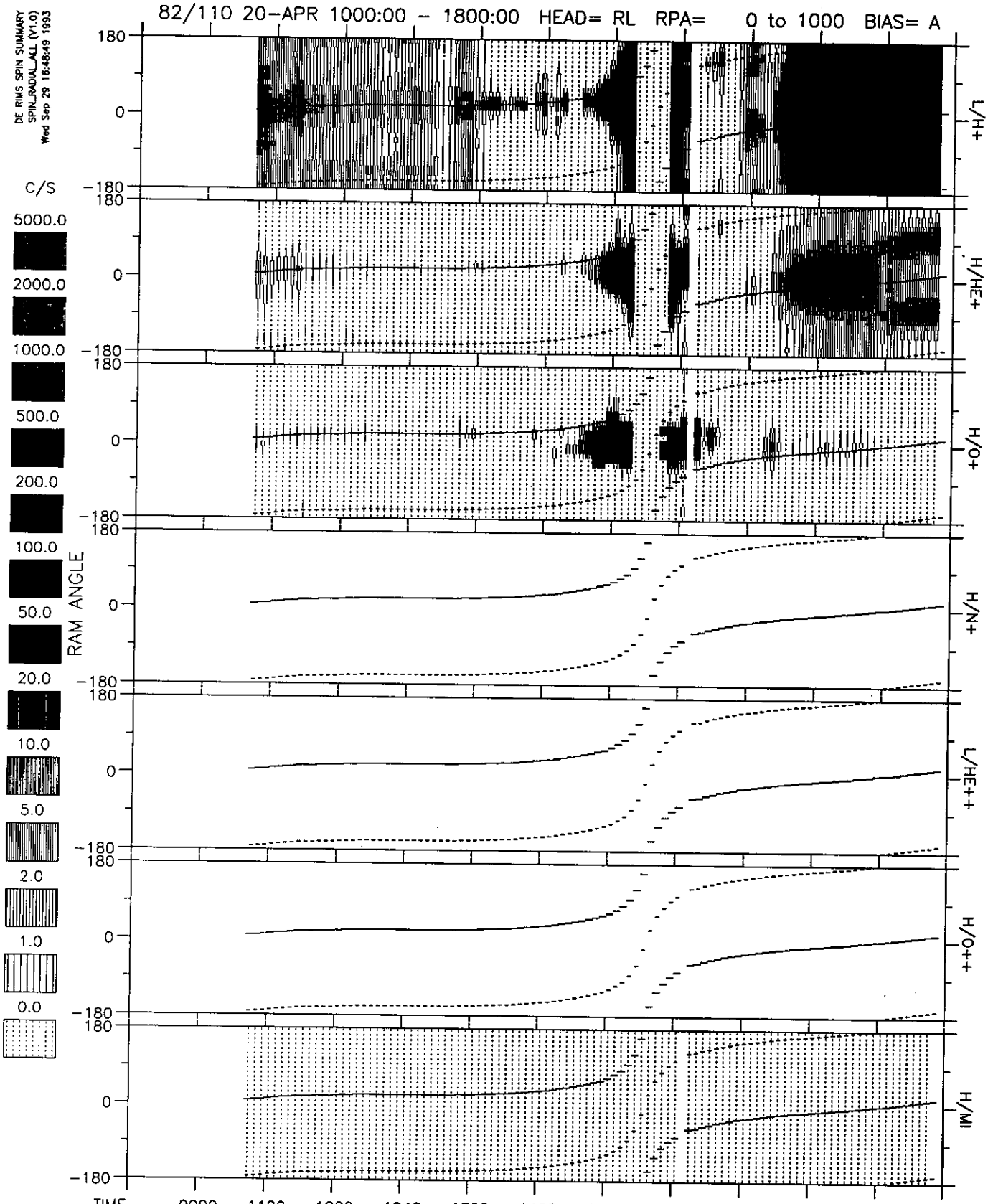
Units listed for the various orbit parameters shown at the bottom of each plot should be as follows:

TIME	HHMM
RE	RE
L	
MLT	HRS
MLAT	DEGS
INVLAT	DEGS

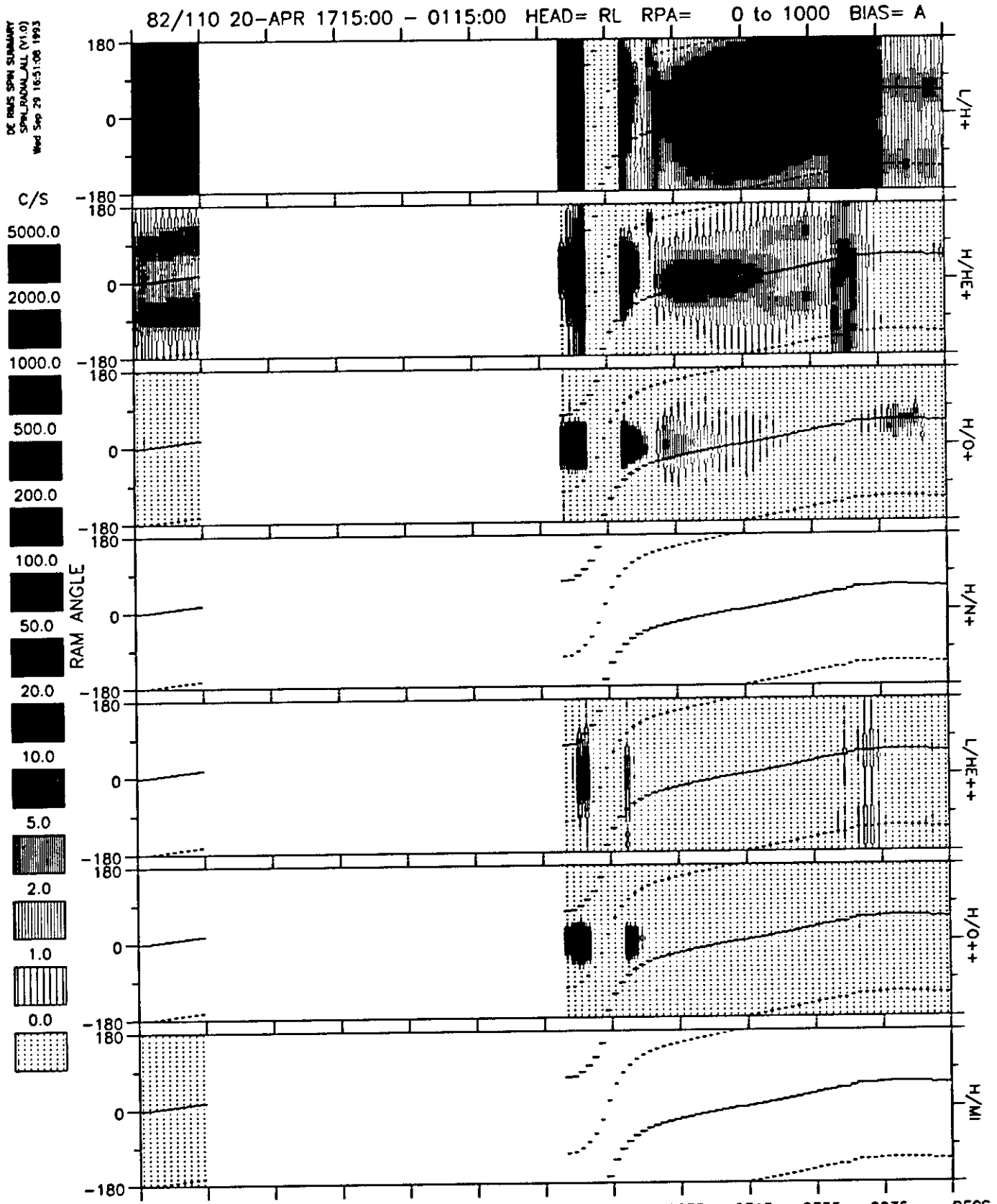
The panel labeled L/He^{++} refers to the response of the RIMS low-mass channel to the M/Z=2 mass/charge settings.



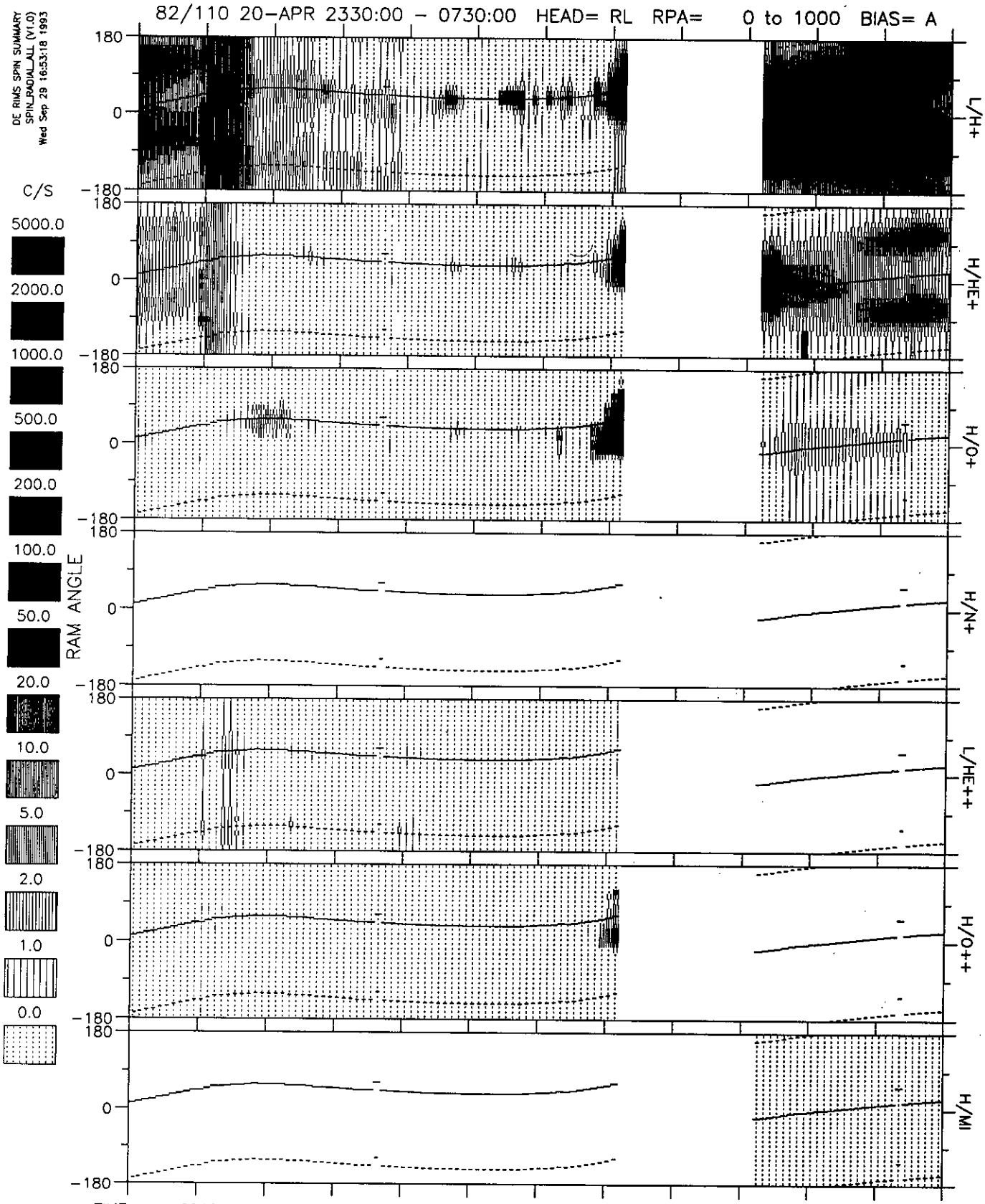
TIME	0000	0420	0500	0540	0620	0700	0740	0820	0000	0000	0000	DEGS
RE	0.0	4.6	4.6	4.4	3.9	3.0	1.8	1.3	0.0	0.0	0.0	HHMM
L	0.0	5.1	5.8	6.6	8.1	14.1	22.1	5.6	0.0	0.0	0.0	RE
MLT	0.0	20.8	20.6	20.4	20.1	19.4	11.6	7.2	0.0	0.0	0.0	
MLAT	0.00	18.09	26.80	35.71	46.39	62.06	73.22	*****	0.00	0.00	0.00	HRS
INVLAT	0.0	63.8	65.5	67.1	69.4	74.6	77.7	64.9	0.0	0.0	0.0	DEGS



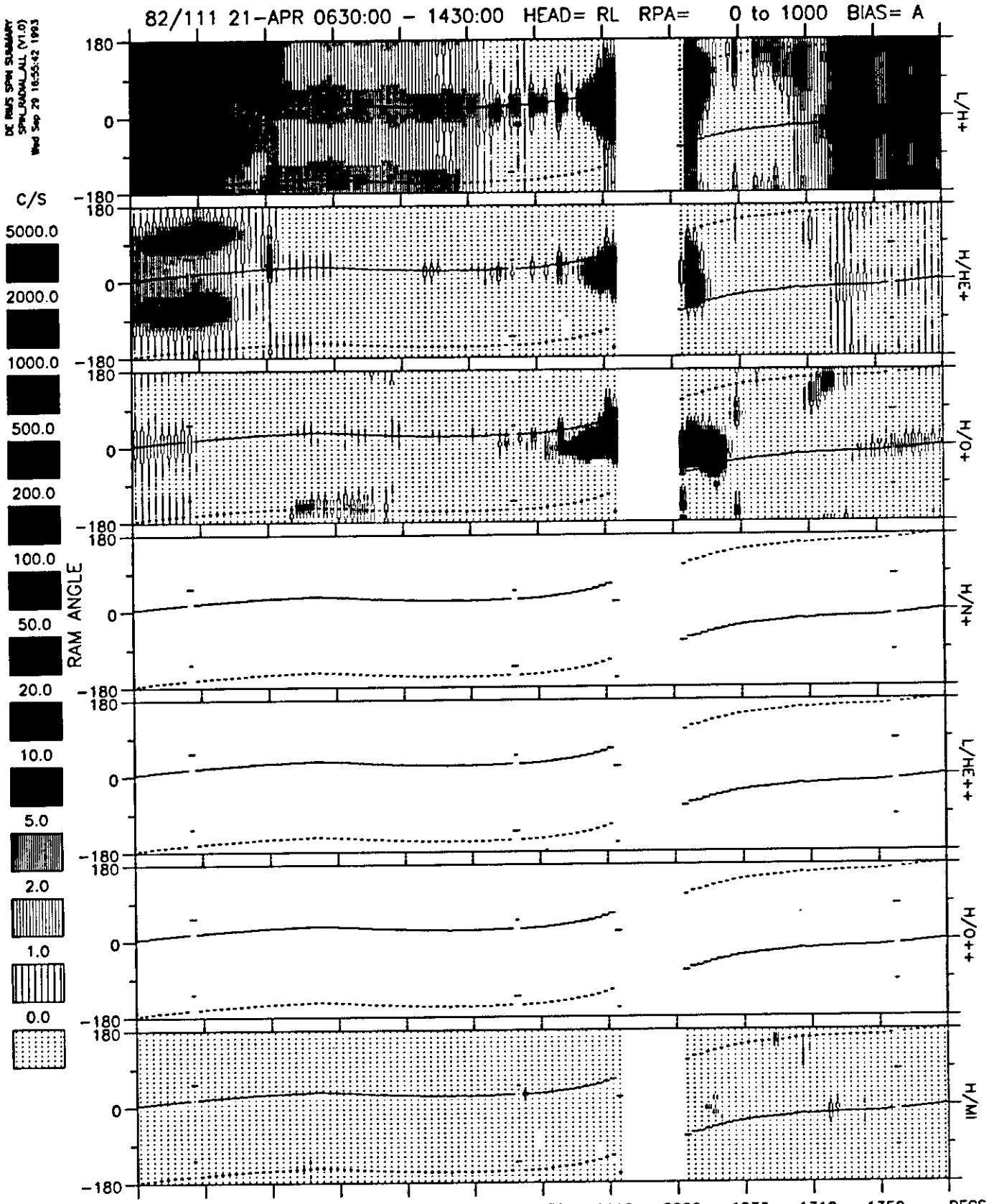
TIME	0000	1120	1200	1240	1320	1400	1440	1520	1600	1640	1720	DEGS
RE	0.0	4.7	4.6	4.3	3.7	2.8	1.5	1.5	2.9	3.8	4.3	HHMM
L	0.0	4.6	4.8	5.1	5.9	10.7	10.5	19.6	5.7	4.4	4.4	RE
MLT	0.0	20.7	20.6	20.6	20.7	20.9	8.1	10.4	20.4	20.7	20.9	
MLAT	0.00	2.41	11.90	22.57	36.24	57.62	67.83	*****	*****	*****	-7.72	HRS
INVLAT	0.0	62.2	62.8	63.6	65.7	72.2	72.0	76.9	65.1	61.6	61.6	DEGS



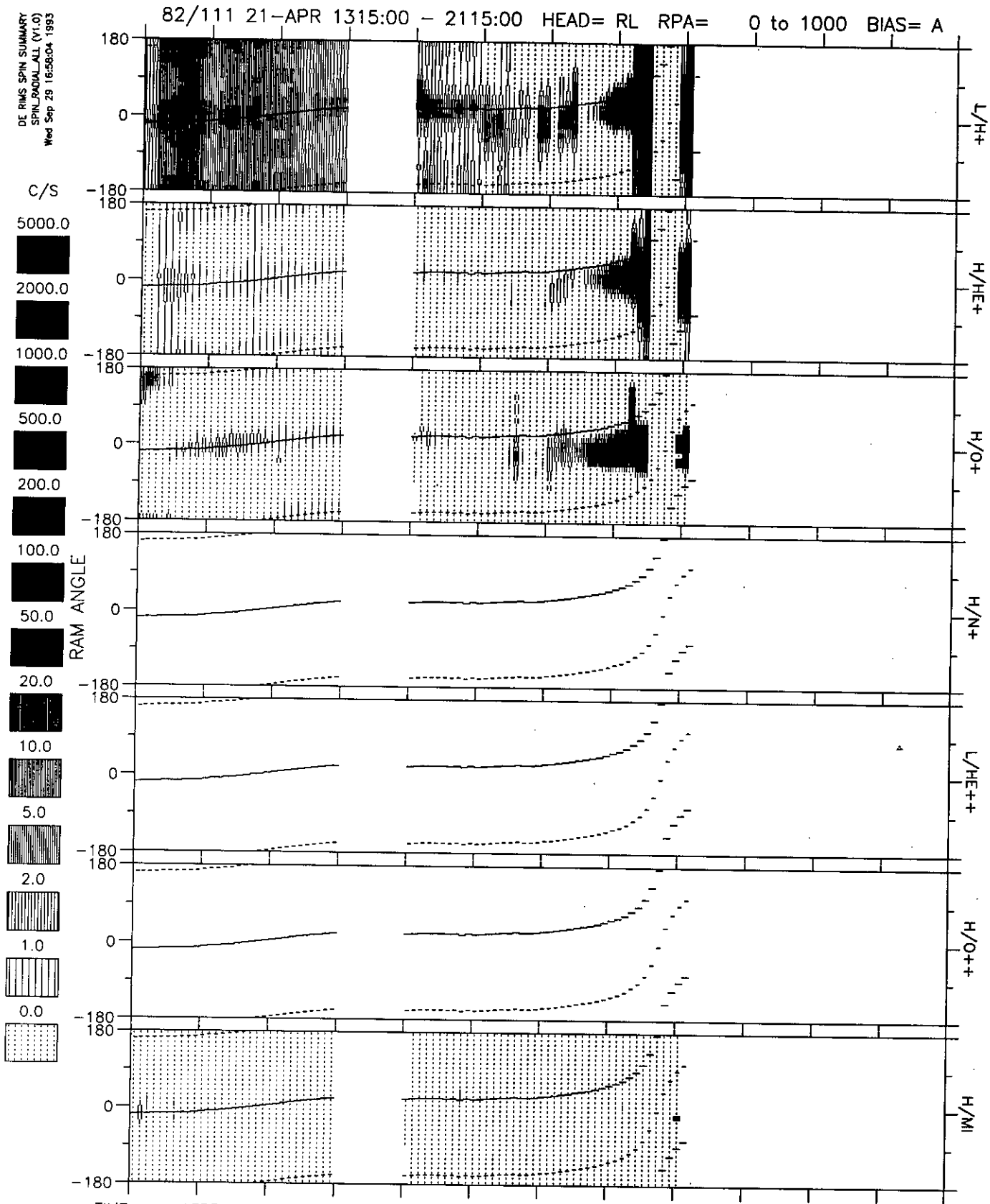
TIME	0000	0000	0000	0000	0000	0000	2155	2235	2315	2355	0035	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.4	3.5	4.2	4.5	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	2.8	4.2	3.7	4.2	5.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	9.7	20.5	20.9	21.0	21.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	3.78	16.18	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	53.3	60.8	58.8	61.0	63.4	DEGS



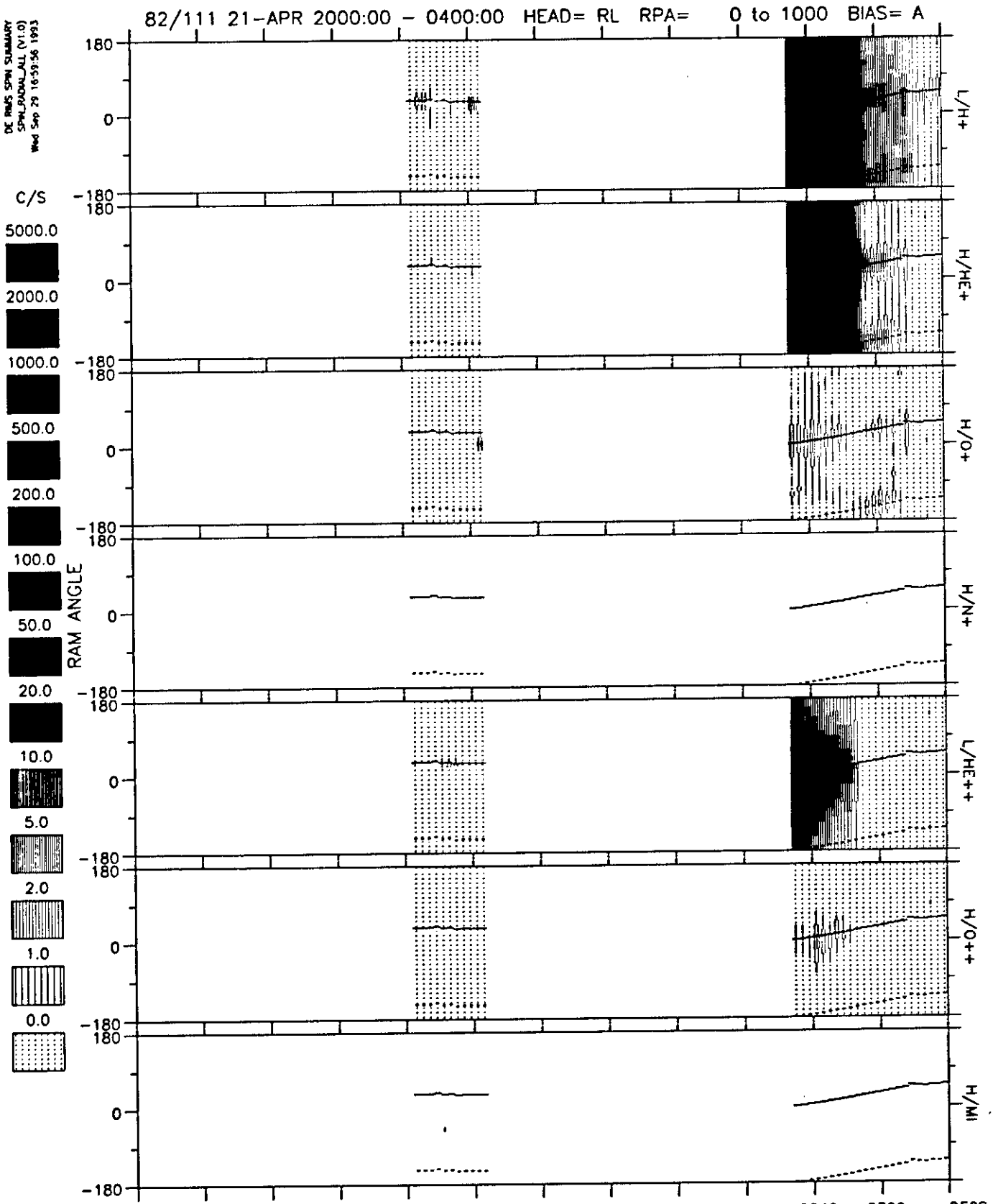
TIME	0010	0050	0130	0210	0250	0330	0410	0000	0000	0610	0650	DEGS
RE	4.3	4.6	4.7	4.4	3.9	3.1	1.9	0.0	0.0	3.5	4.2	HHMM
L	4.5	5.3	6.4	7.9	11.1	26.9	21.2	0.0	0.0	3.9	4.2	RE
MLT	21.0	21.0	20.9	20.8	20.5	19.7	10.4	0.0	0.0	21.0	20.8	
MLAT	8.70	20.32	30.83	41.41	53.53	70.25	70.73	0.00	0.00	*****	-3.78	HRS
INVLAT	61.9	64.3	66.7	69.2	72.5	78.9	77.5	0.0	0.0	59.4	60.8	DEGS



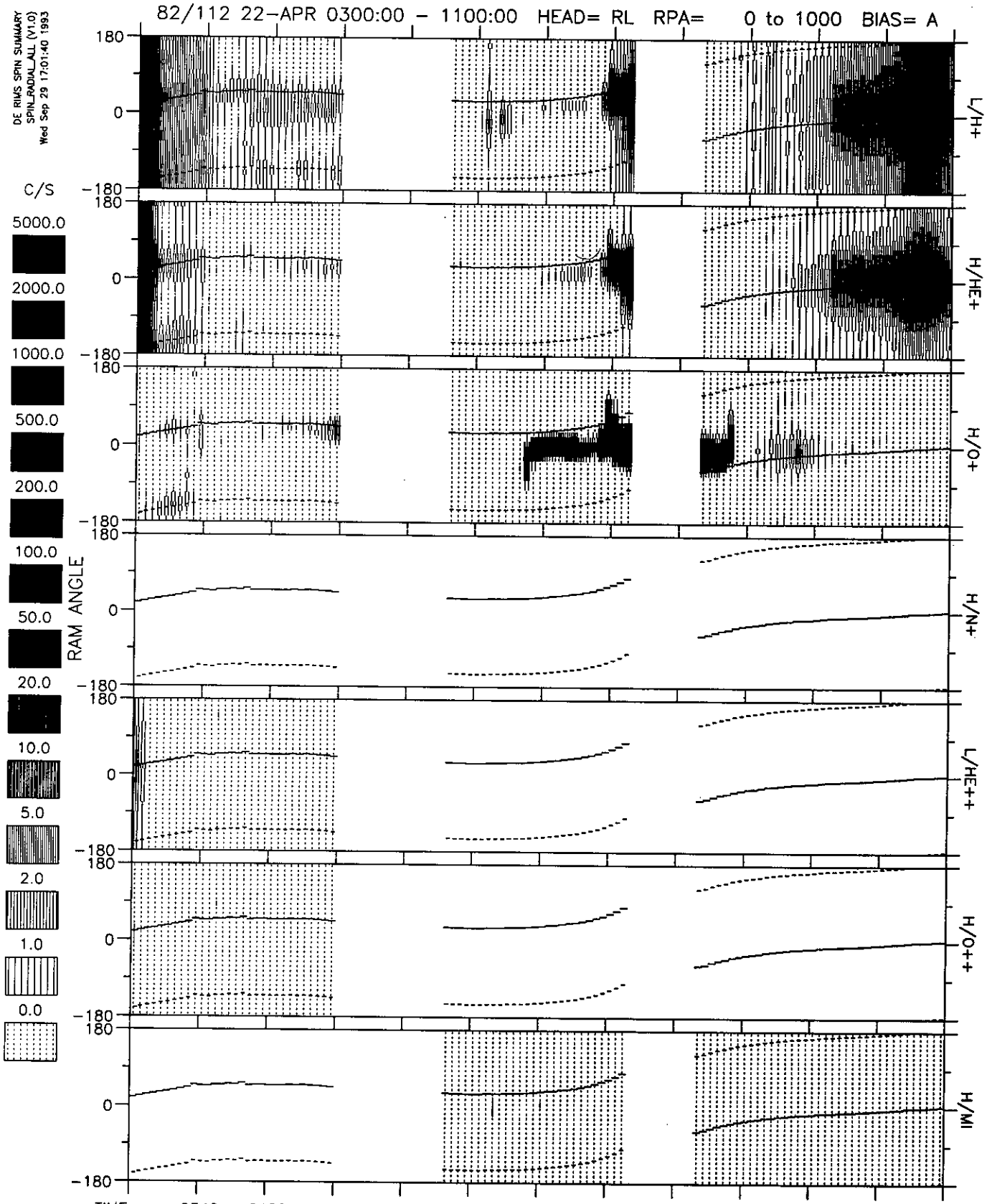
TIME	0710	0750	0830	0910	0950	1030	1110	0000	1230	1310	1350	DEGS
RE	4.4	4.7	4.6	4.3	3.8	2.8	1.5	0.0	2.8	3.7	4.3	HHMM
L	4.4	4.7	5.0	5.4	6.2	10.8	11.5	0.0	6.5	4.7	4.5	RE
MLT	20.8	20.6	20.5	20.3	20.1	19.8	9.9	0.0	20.8	20.6	20.6	
MLAT	1.14	9.79	18.05	27.19	39.02	57.91	71.46	0.00	*****	*****	*****	HRS
INVLAT	61.5	62.6	63.5	64.5	66.4	72.3	72.8	0.0	67.0	62.5	61.9	DEGS



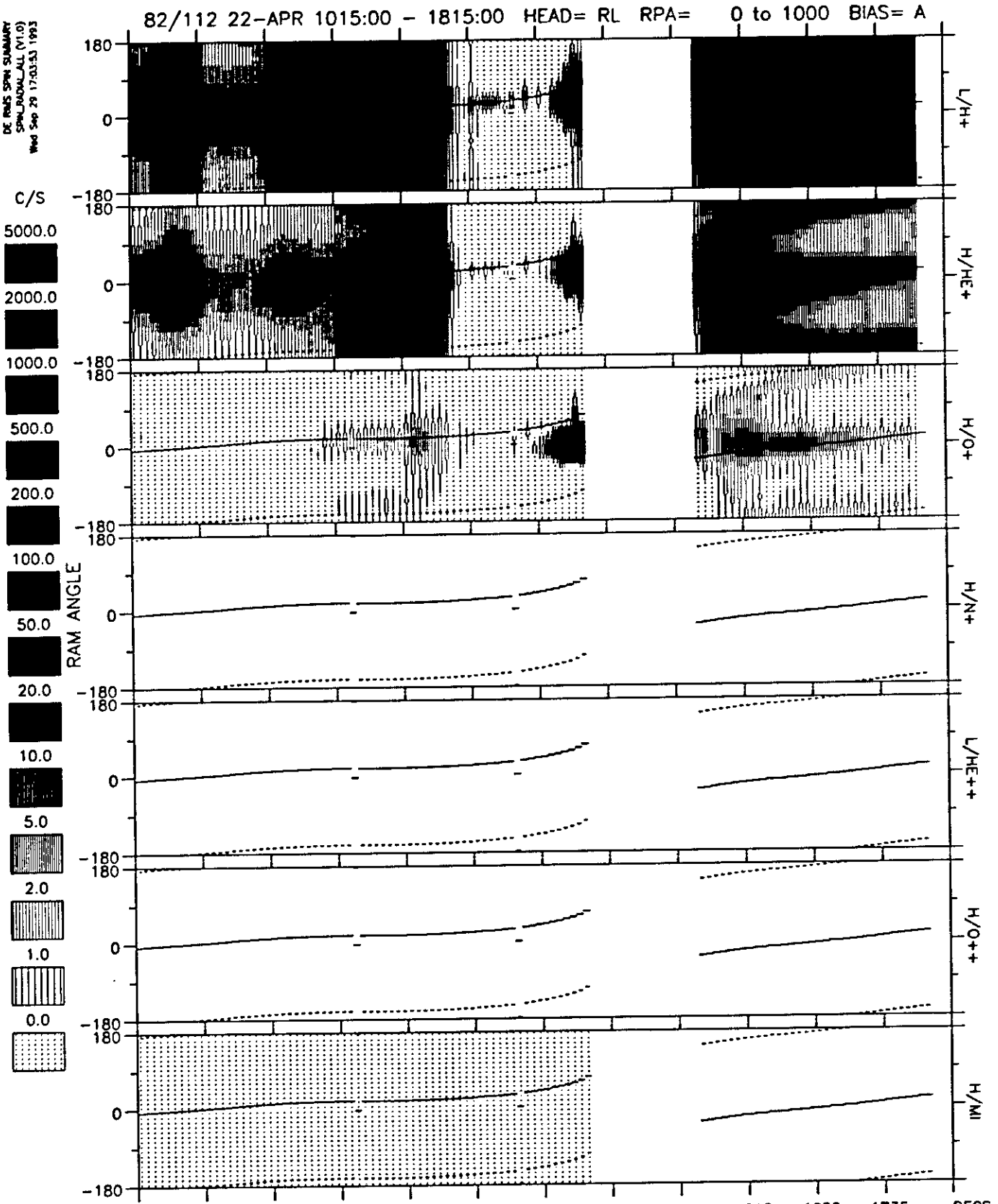
TIME	1355	1435	0000	1555	1635	1715	1755	1835	0000	0000	0000	DEGS
RE	4.4	4.6	0.0	4.4	3.9	3.0	1.7	1.3	0.0	0.0	0.0	HHMM
L	4.5	4.6	0.0	5.1	6.0	9.7	29.0	9.1	0.0	0.0	0.0	RE
MLT	20.6	20.7	0.0	21.0	21.3	21.9	6.0	10.9	0.0	0.0	0.0	
MLAT	*****	-1.09	0.00	21.90	36.10	55.60	74.75	*****	0.00	0.00	0.00	HRS
INVLAT	61.9	62.2	0.0	63.8	65.9	71.3	79.3	70.7	0.0	0.0	0.0	DEGS



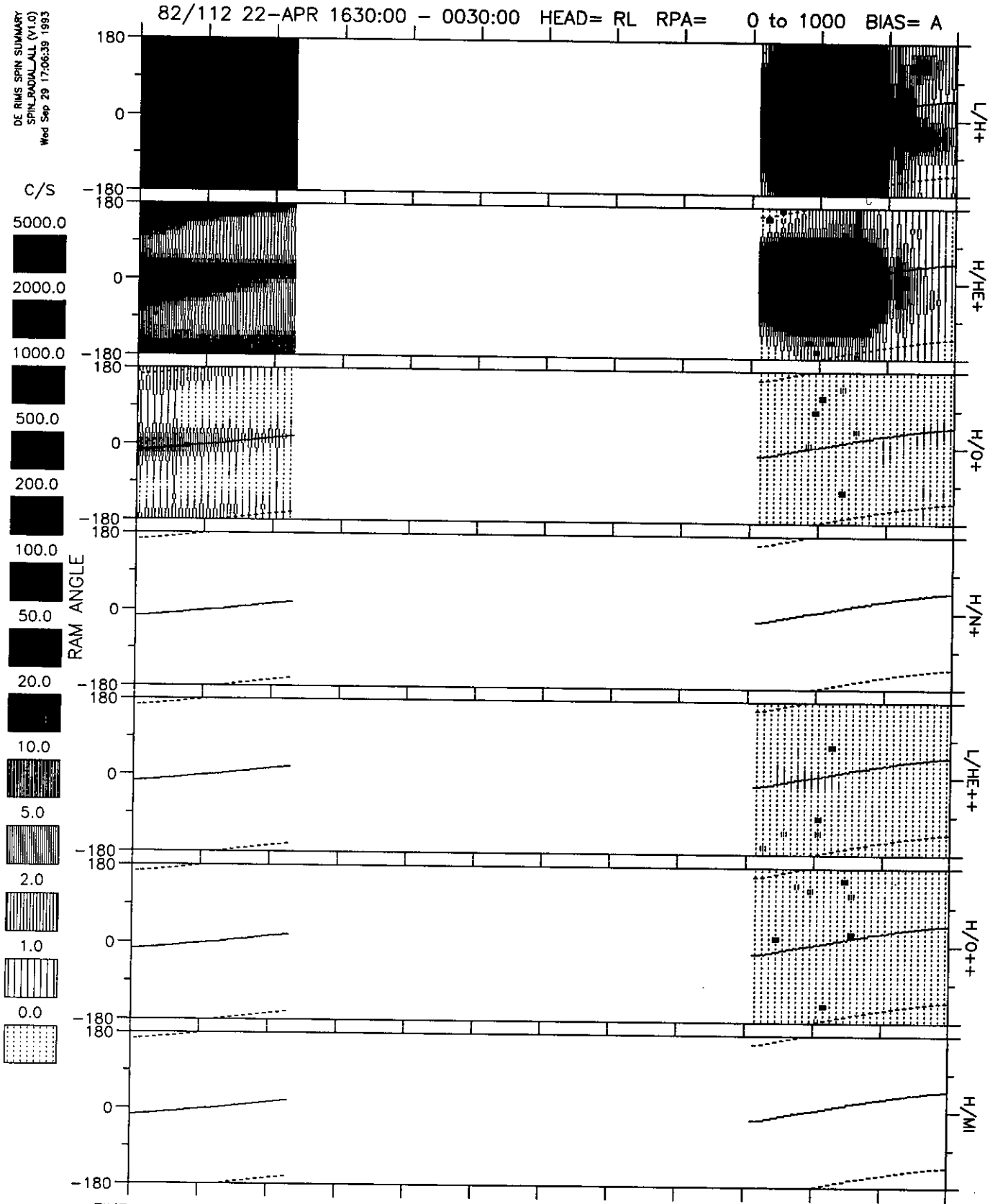
TIME	0000	0000	0000	0000	2320	0000	0000	0000	0000	0240	0320	DEGS
RE	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	3.5	4.2	HHMM
L	0.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0	0.0	3.7	4.2	RE
MLT	0.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	20.9	20.8	
MLAT	0.00	0.00	0.00	0.00	51.58	0.00	0.00	0.00	0.00	*****	3.42	HRS
INVLAT	0.0	0.0	0.0	0.0	71.3	0.0	0.0	0.0	0.0	58.5	60.9	DEGS



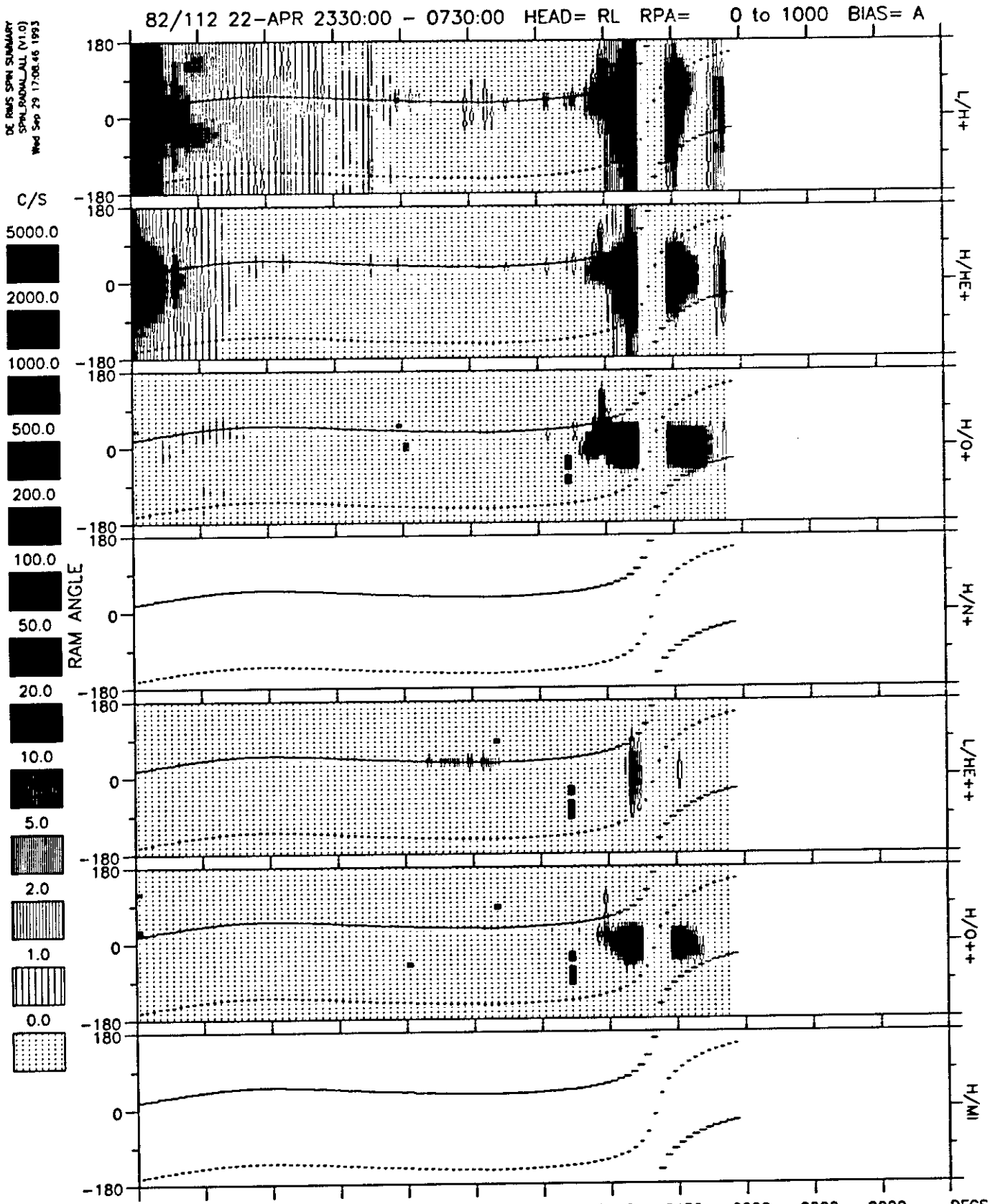
TIME	0340	0420	0000	0000	0620	0700	0740	0000	0900	0940	1020	DEGS
RE	4.4	4.6	0.0	0.0	3.8	2.9	1.6	0.0	2.7	3.7	4.3	HHMM
L	4.5	5.2	0.0	0.0	8.1	15.6	9.2	0.0	5.4	4.4	4.4	RE
MLT	20.8	20.6	0.0	0.0	19.9	19.1	10.5	0.0	21.3	20.9	20.7	
MLAT	8.95	18.46	0.00	0.00	47.21	63.98	66.15	0.00	*****	*****	*****	HRS
INVLAT	62.0	63.9	0.0	0.0	69.5	75.3	70.7	0.0	64.6	61.6	61.6	DEGS



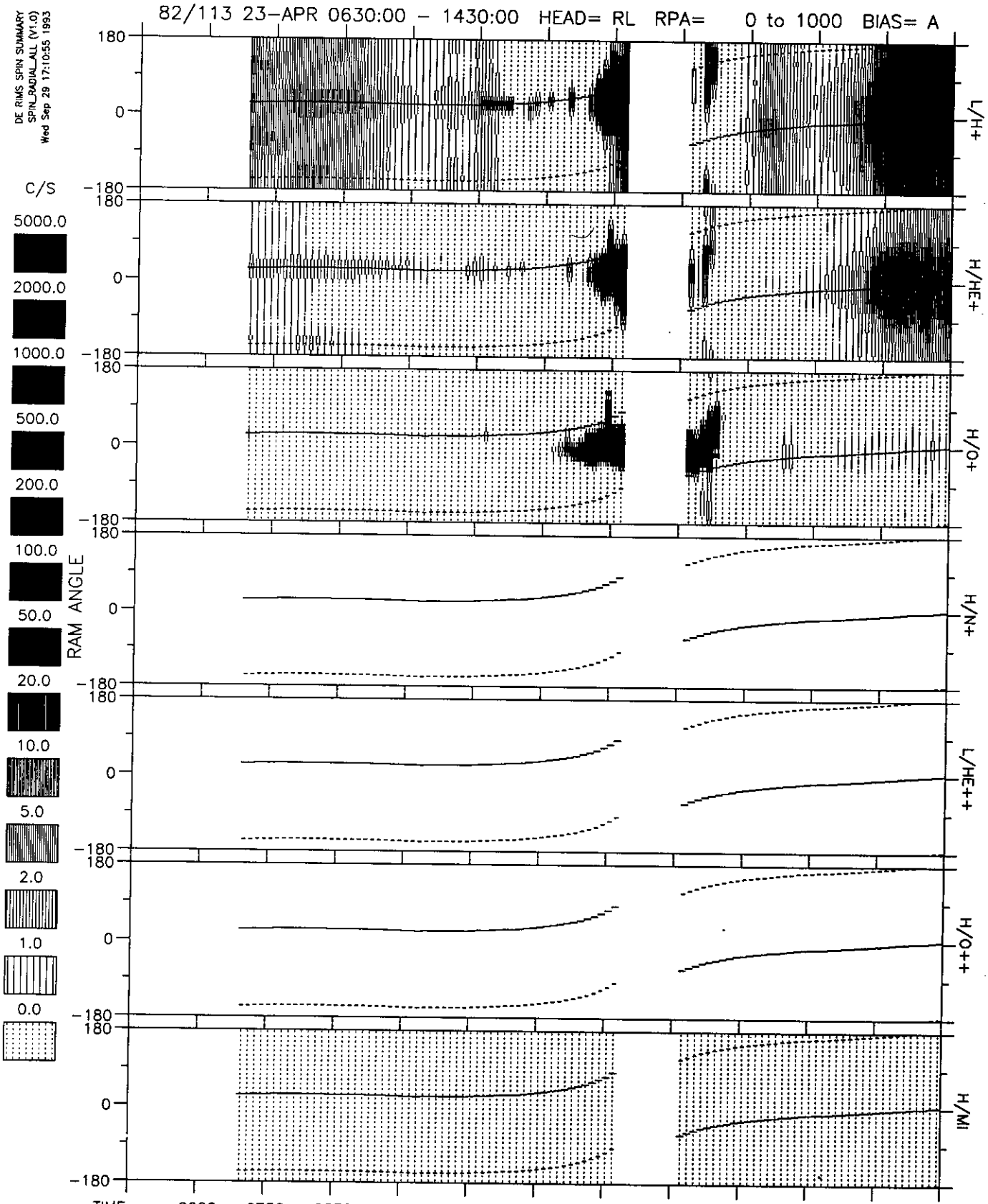
TIME	1055	1135	1215	1255	1335	1415	0000	0000	1615	1655	1735	DEGS
RE	4.6	4.7	4.5	4.1	3.3	2.2	0.0	0.0	3.4	4.1	4.5	HHMM
L	4.5	4.7	4.9	5.3	6.9	-0.0	0.0	0.0	4.8	4.4	4.5	RE
MLT	20.6	20.5	20.5	20.5	20.7	21.4	0.0	0.0	20.4	20.6	20.8	
MLAT	-3.00	6.37	16.32	28.20	44.75	75.51	0.00	0.00	*****	*****	-1.72	HRS
INVLAT	62.0	62.4	63.1	64.3	67.6	-0.0	0.0	0.0	62.7	61.6	62.0	DEGS



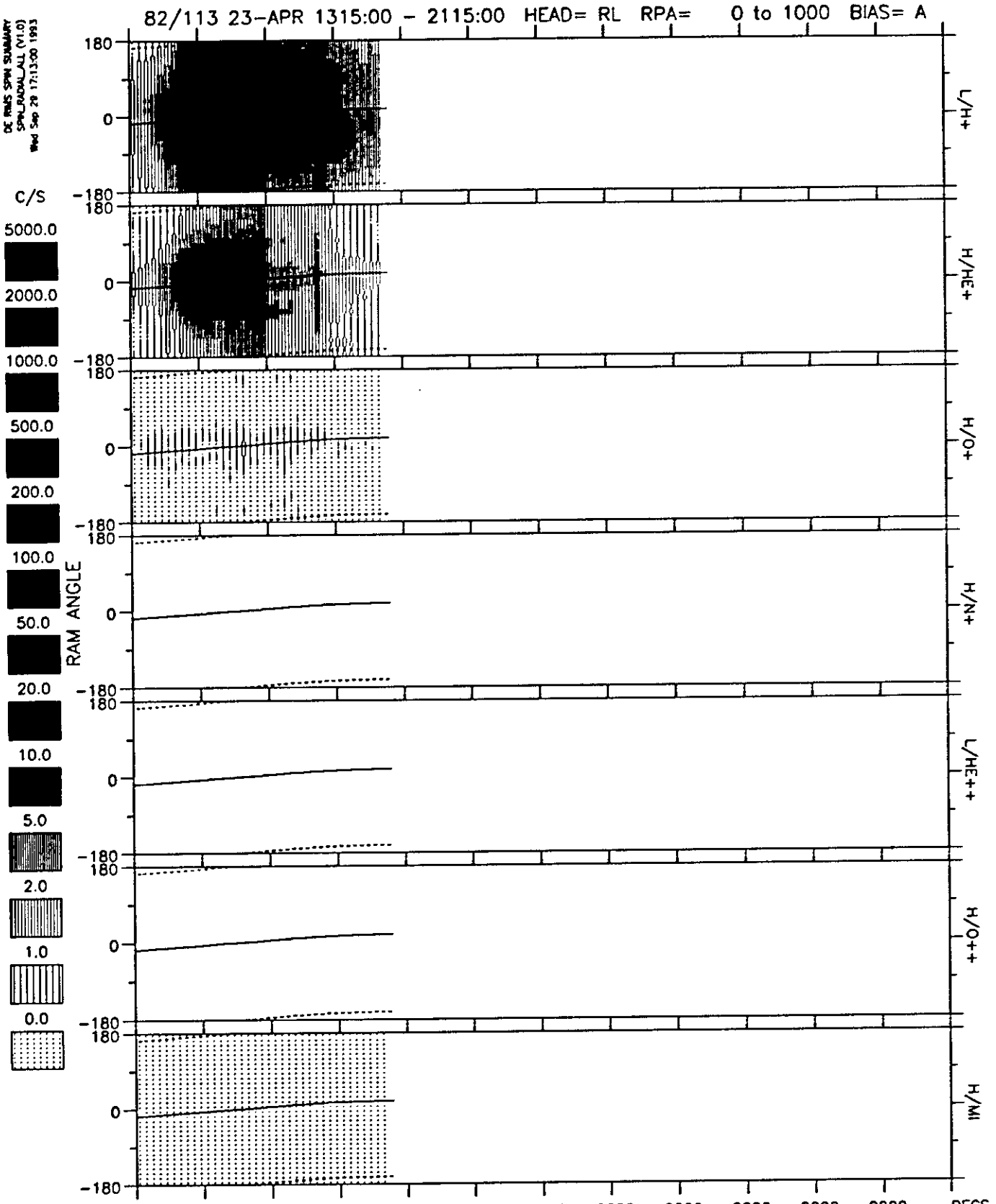
TIME	1710	1750	0000	0000	0000	0000	0000	0000	0000	2310	2350	DEGS
RE	4.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.2	HHMM
L	4.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	4.2	RE
MLT	20.7	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	20.8	
MLAT	-9.93	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	3.14	HRS
INVLAT	61.6	62.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.9	60.9	DEGS



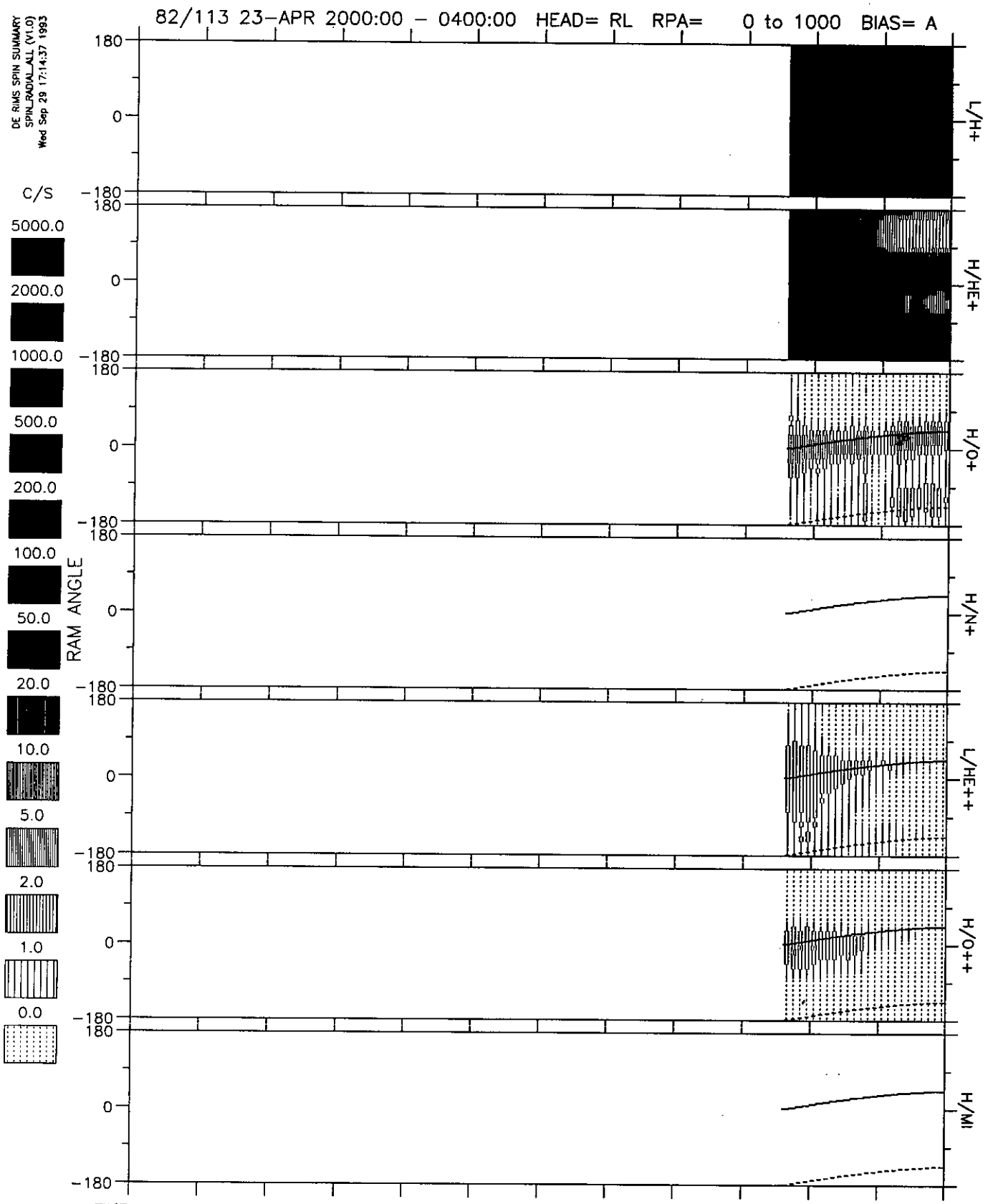
TIME	0010	0050	0130	0210	0250	0330	0410	0450	0000	0000	0000	DEGS
RE	4.4	4.6	4.6	4.4	3.8	3.0	1.7	1.3	0.0	0.0	0.0	HHMM
L	4.6	5.4	6.4	8.0	11.4	31.6	9.8	21.9	0.0	0.0	0.0	RE
MLT	20.9	20.8	20.8	20.6	20.3	19.4	9.8	5.1	0.0	0.0	0.0	
MLAT	9.63	21.01	31.44	42.09	54.52	72.19	63.28	•••••	0.00	0.00	0.00	HRS
INVLAT	62.1	64.5	66.8	69.3	72.8	79.8	71.4	77.7	0.0	0.0	0.0	DEGS



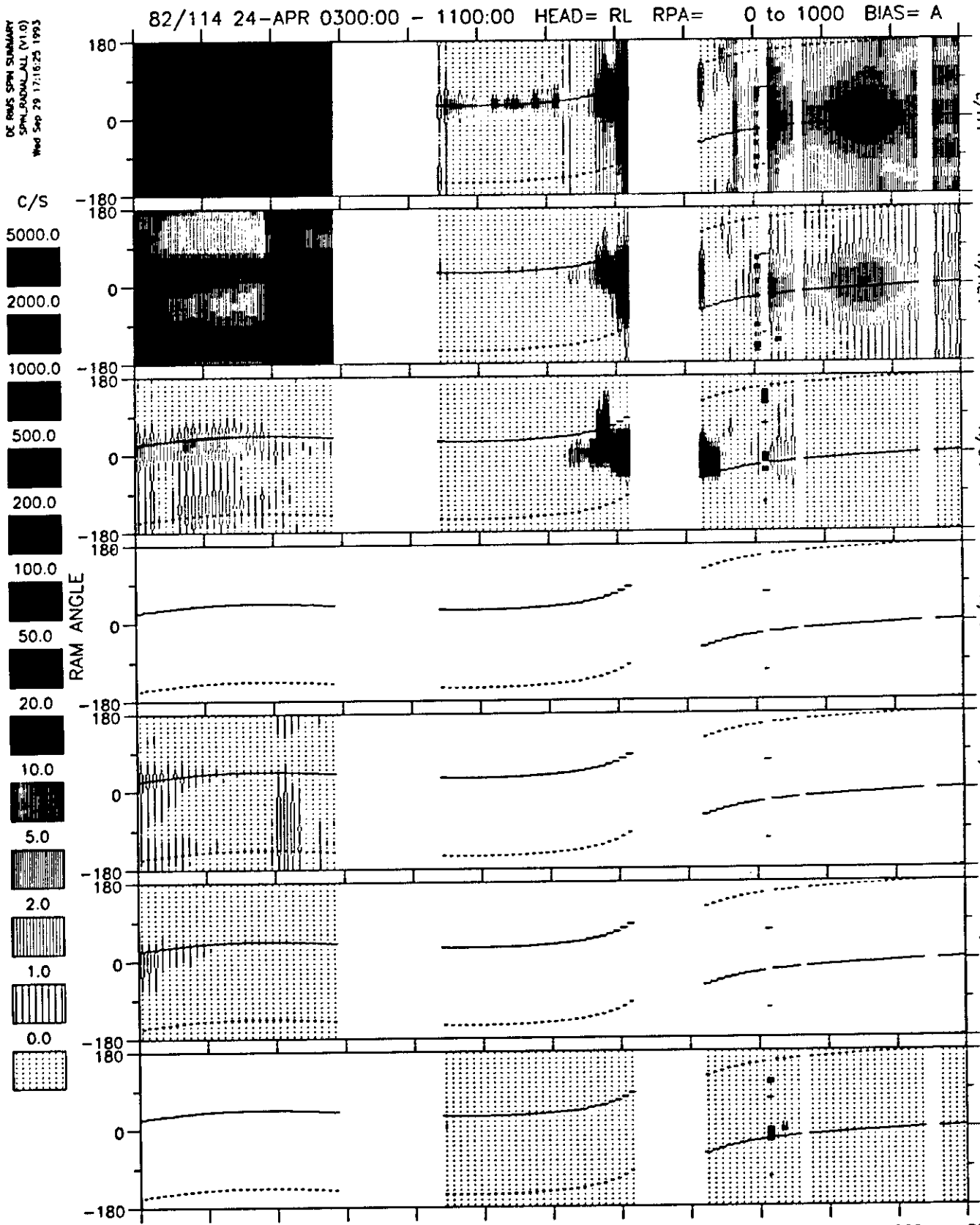
TIME	0000	0750	0830	0910	0950	1030	1110	0000	1230	1310	1350	DEGS
RE	0.0	4.7	4.6	4.3	3.7	2.7	1.4	0.0	2.9	3.8	4.4	HHMM
L	0.0	4.8	5.0	5.4	6.3	12.3	4.5	0.0	6.1	4.7	4.5	RE
MLT	0.0	20.5	20.3	20.2	20.0	19.6	9.1	0.0	20.6	20.5	20.5	
MLAT	0.00	10.03	18.33	27.70	40.08	60.60	59.66	0.00	*****	*****	*****	HRS
INVLAT	0.0	62.7	63.5	64.5	66.5	73.4	61.8	0.0	66.2	62.5	61.9	DEGS



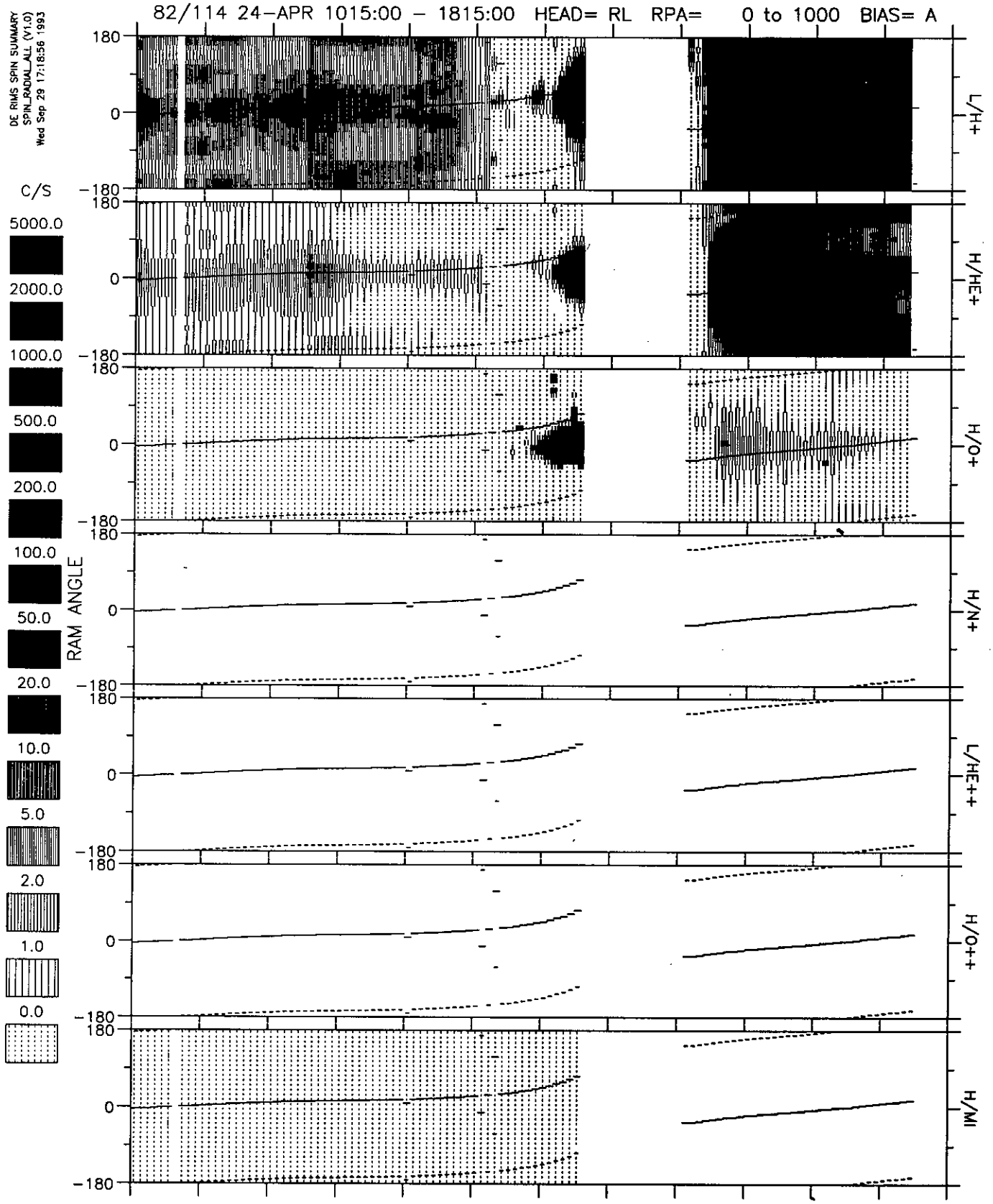
TIME	1355	1435	1515	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.4	4.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.5	4.6	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	20.5	20.6	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	*****	-0.34	10.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	61.9	62.2	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



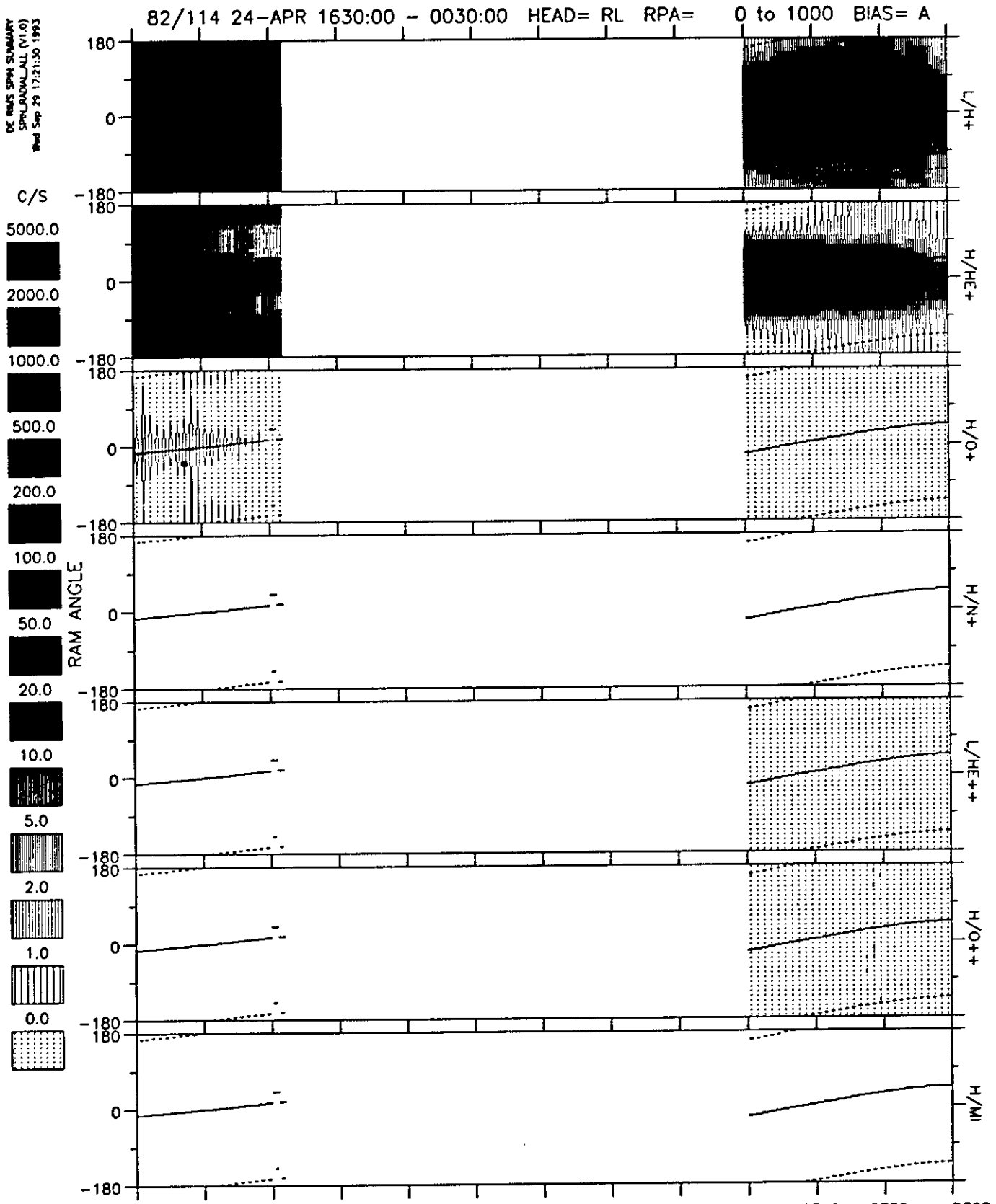
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0240	0320	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	4.2	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	4.3	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.8	20.7	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-9.48	4.11	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.8	61.1	DEGS



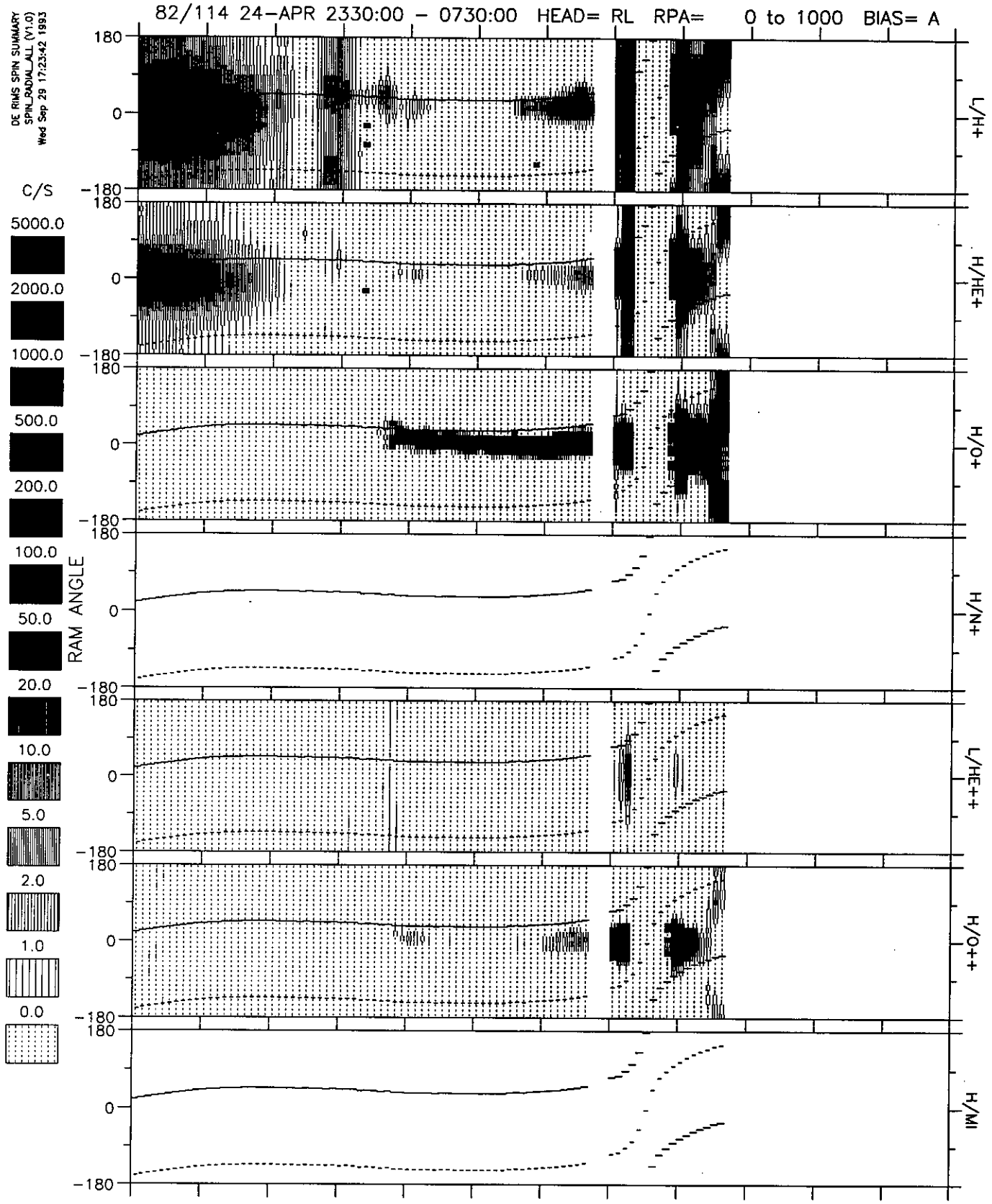
TIME	0340	0420	0000	0000	0620	0700	0740	0000	0900	0940	1020	DEGS
RE	4.4	4.7	0.0	0.0	3.7	2.8	1.5	0.0	2.9	3.8	4.3	HHMM
L	4.6	5.2	0.0	0.0	8.2	17.6	4.2	0.0	5.2	4.5	4.5	RE
MLT	20.6	20.5	0.0	0.0	19.8	18.8	9.7	0.0	21.1	20.7	20.5	
MLAT	9.46	18.77	0.00	0.00	48.06	66.07	56.40	0.00	*****	*****	*****	HRS
INVLAT	62.2	64.0	0.0	0.0	69.6	76.2	60.9	0.0	64.1	61.7	61.7	DEGS



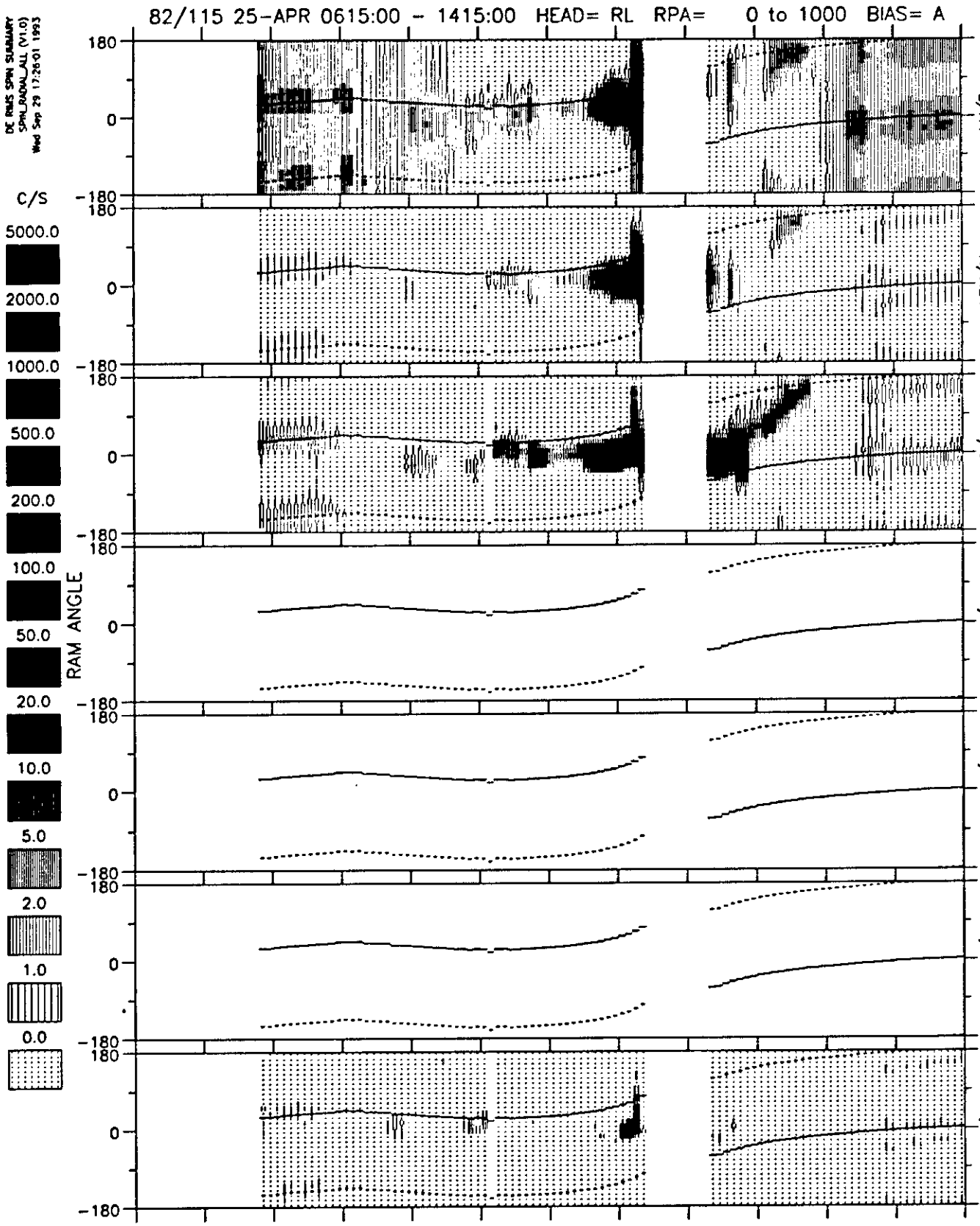
TIME	1055	1135	1215	1255	1335	1415	0000	0000	1615	1655	1735	DEGS
RE	4.6	4.7	4.5	4.0	3.2	2.0	0.0	0.0	3.5	4.2	4.6	HHMM
L	4.5	4.7	4.8	5.3	7.2	99.9	0.0	0.0	4.7	4.4	4.6	RE
MLT	20.4	20.4	20.4	20.4	20.6	22.0	0.0	0.0	20.3	20.5	20.7	
MLAT	-2.58	6.82	16.93	29.21	46.66	81.02	0.00	0.00	*****	*****	-0.69	HRS
INVLAT	62.0	62.4	63.0	64.3	68.1	85.1	0.0	0.0	62.6	61.7	62.1	DEGS



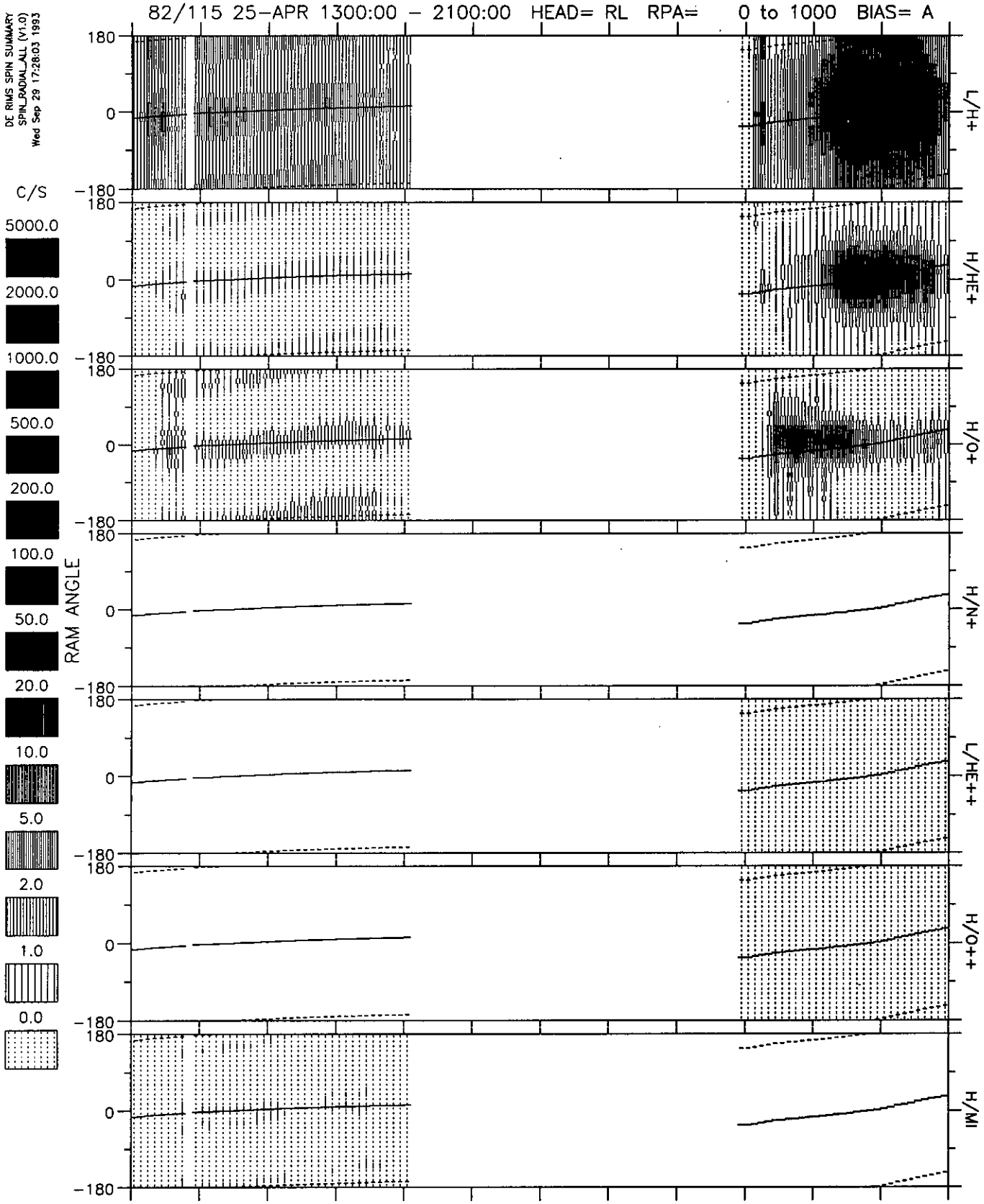
TIME	1710	1750	0000	0000	0000	0000	0000	0000	2230	2310	2350	DEGS
RE	4.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.6	4.2	HHMM
L	4.5	4.7	0.0	0.0	0.0	0.0	0.0	0.0	4.1	3.8	4.3	RE
MLT	20.6	20.8	0.0	0.0	0.0	0.0	0.0	0.0	20.4	20.6	20.7	
MLAT	-8.76	3.94	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	4.23	HRS
INVLAT	61.7	62.4	0.0	0.0	0.0	0.0	0.0	0.0	60.3	59.2	61.2	DEGS



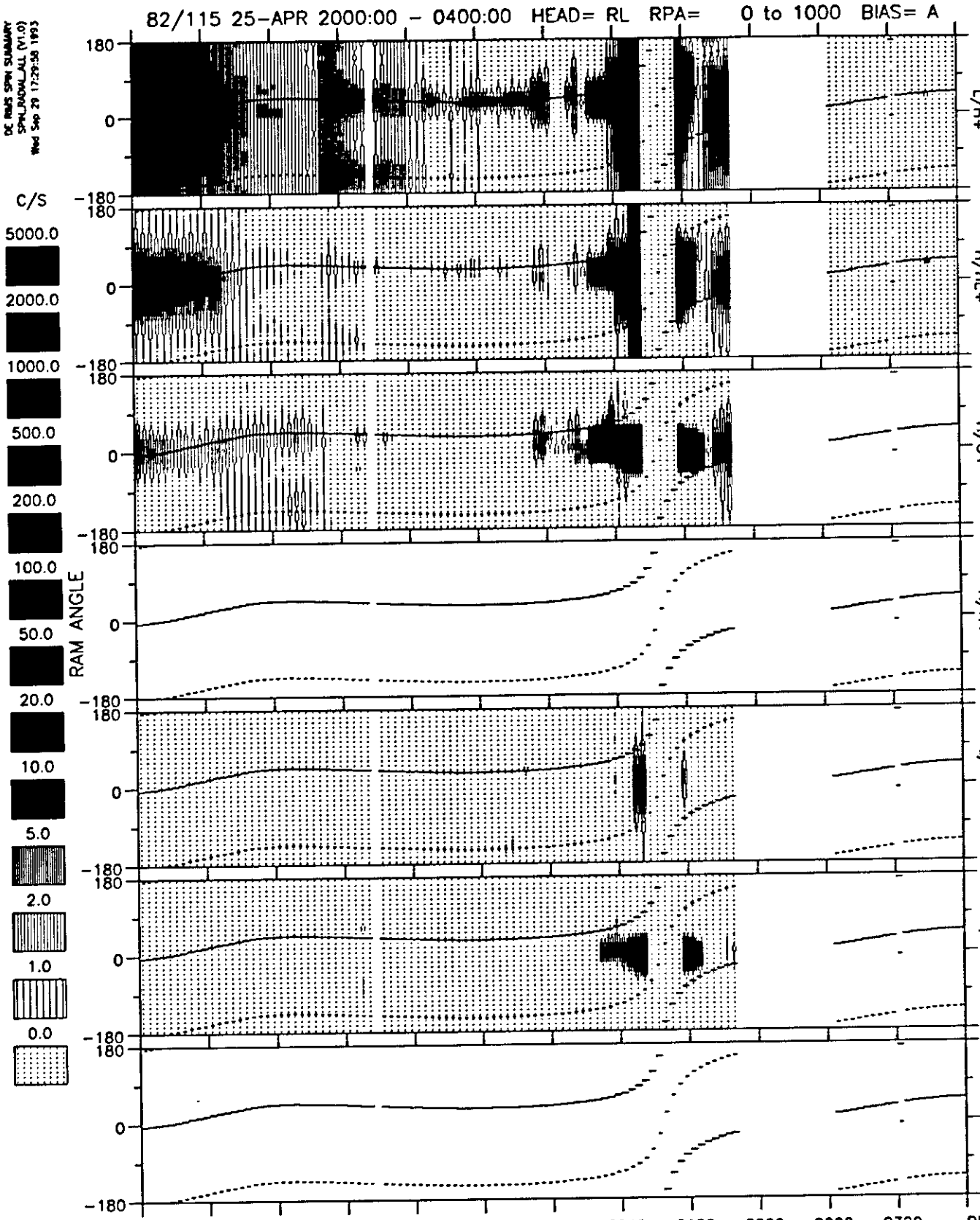
TIME	0010	0050	0130	0210	0250	0330	0410	0450	0000	0000	0000	DEGS
RE	4.4	4.7	4.6	4.3	3.7	2.8	1.5	1.5	0.0	0.0	0.0	HHMM
L	4.7	5.4	6.5	8.1	11.7	39.1	4.8	25.8	0.0	0.0	0.0	RE
MLT	20.7	20.7	20.6	20.5	20.2	19.0	9.4	0.3	0.0	0.0	0.0	
MLAT	10.53	21.70	32.06	42.80	55.62	74.37	53.49	*****	0.00	0.00	0.00	HRS
INVLAT	62.4	64.6	66.9	69.4	73.0	80.8	62.9	78.7	0.0	0.0	0.0	DEGS



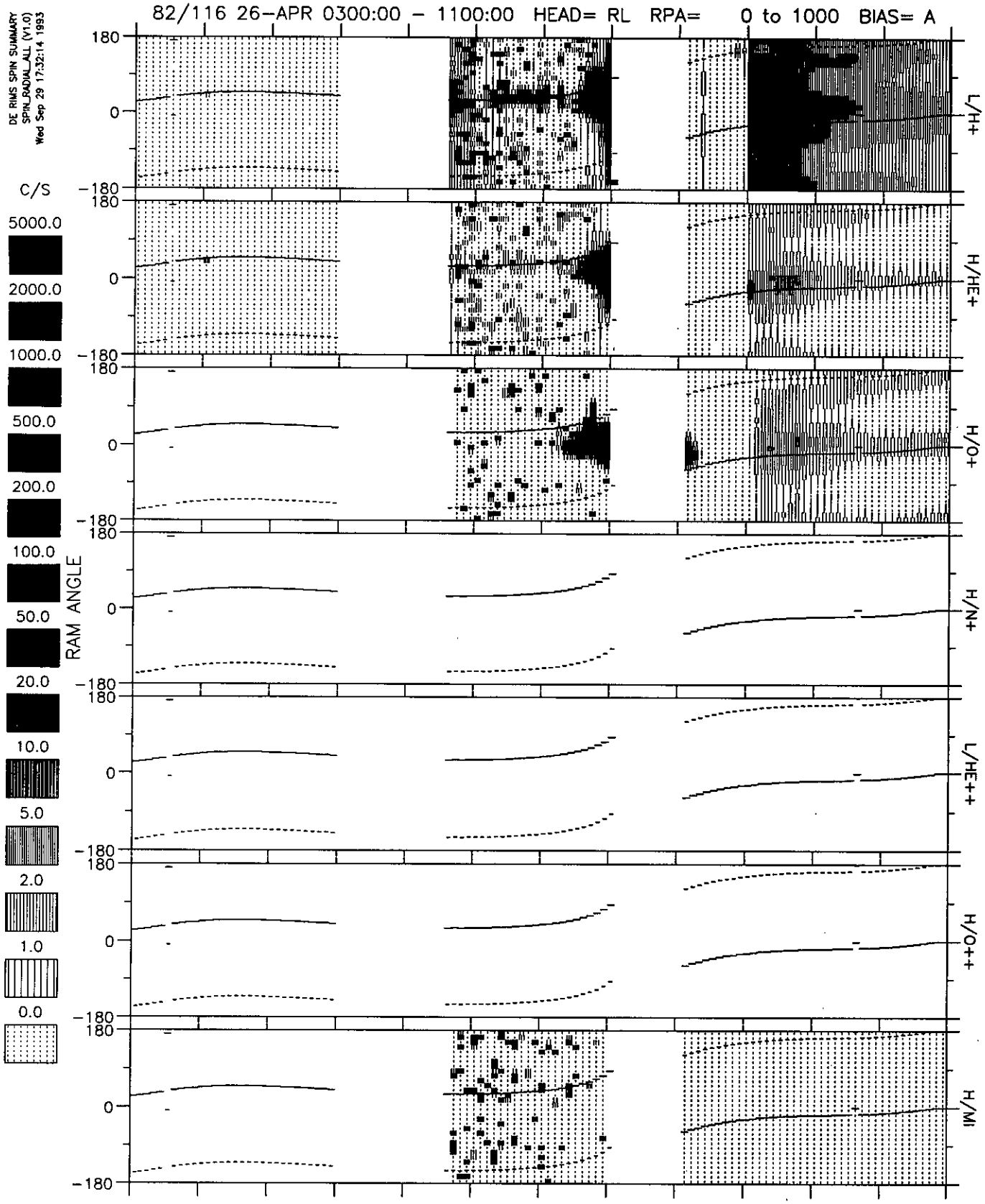
TIME	0000	0735	0815	0855	0935	1015	1055	0000	1215	1255	1335	DEGS
RE	0.0	4.6	4.6	4.4	3.9	3.0	1.7	0.0	2.7	3.6	4.3	HHMM
L	0.0	4.7	4.9	5.2	5.8	8.8	53.4	0.0	7.9	4.9	4.6	RE
MLT	0.0	20.4	20.2	20.1	19.9	19.7	11.6	0.0	20.6	20.4	20.4	
MLAT	0.00	7.16	15.41	24.39	35.75	53.36	81.74	0.00	*****	*****	*****	HRS
INVLAT	0.0	62.4	63.2	64.0	65.5	70.3	82.1	0.0	69.1	63.1	62.1	DEGS



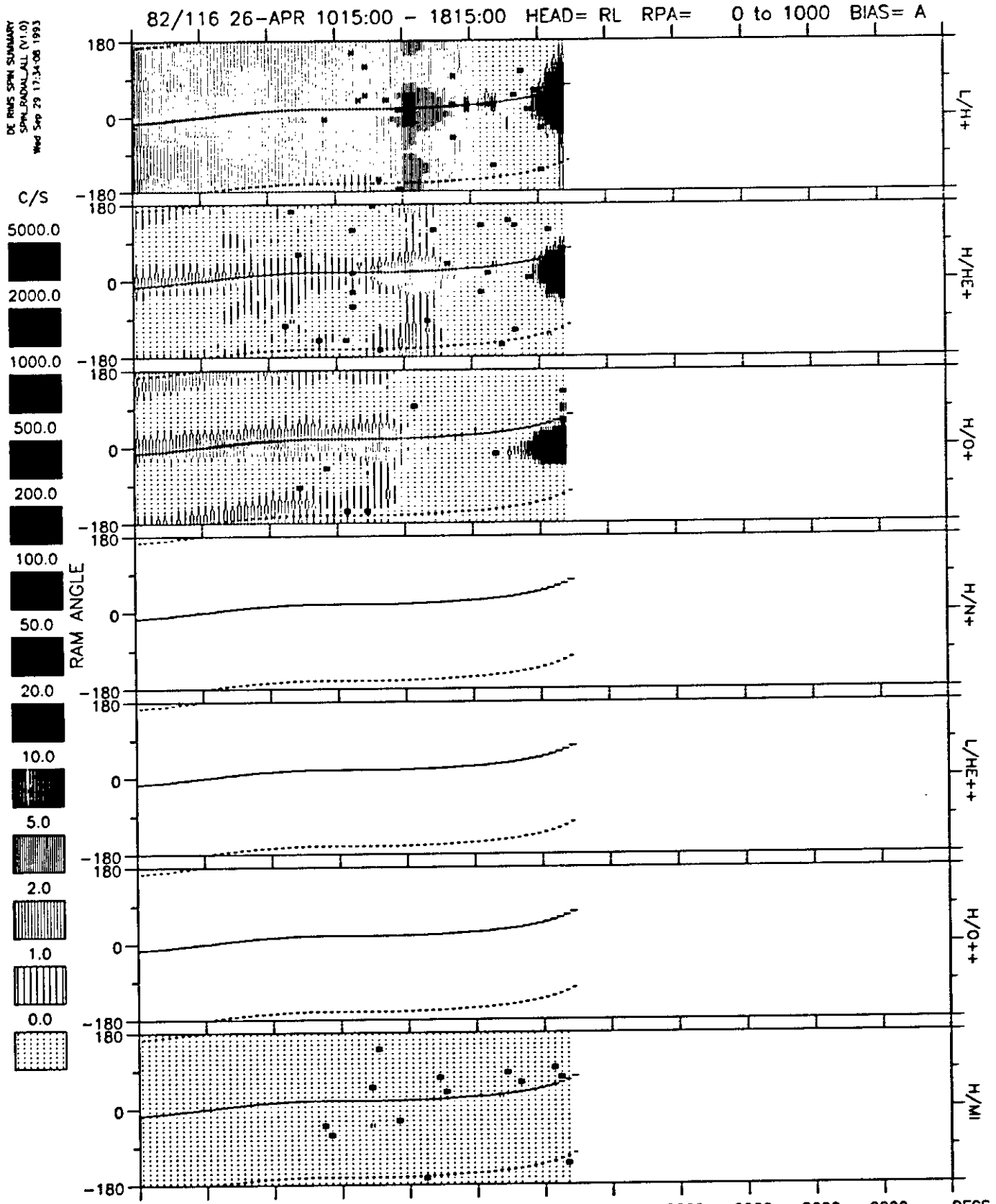
TIME	1340	1420	1500	1540	0000	0000	0000	0000	1900	1940	2020	DEGS
RE	4.3	4.6	4.7	4.5	0.0	0.0	0.0	0.0	2.5	3.5	4.2	HHMM
L	4.5	4.6	4.7	5.0	0.0	0.0	0.0	0.0	5.6	4.2	4.3	RE
MLT	20.4	20.4	20.5	20.7	0.0	0.0	0.0	0.0	19.9	20.4	20.7	
MLAT	*****	-3.75	7.37	18.59	0.00	0.00	0.00	0.00	*****	*****	-3.75	HRS
INVLAT	62.0	62.1	62.6	63.3	0.0	0.0	0.0	0.0	65.1	60.8	61.2	DEGS



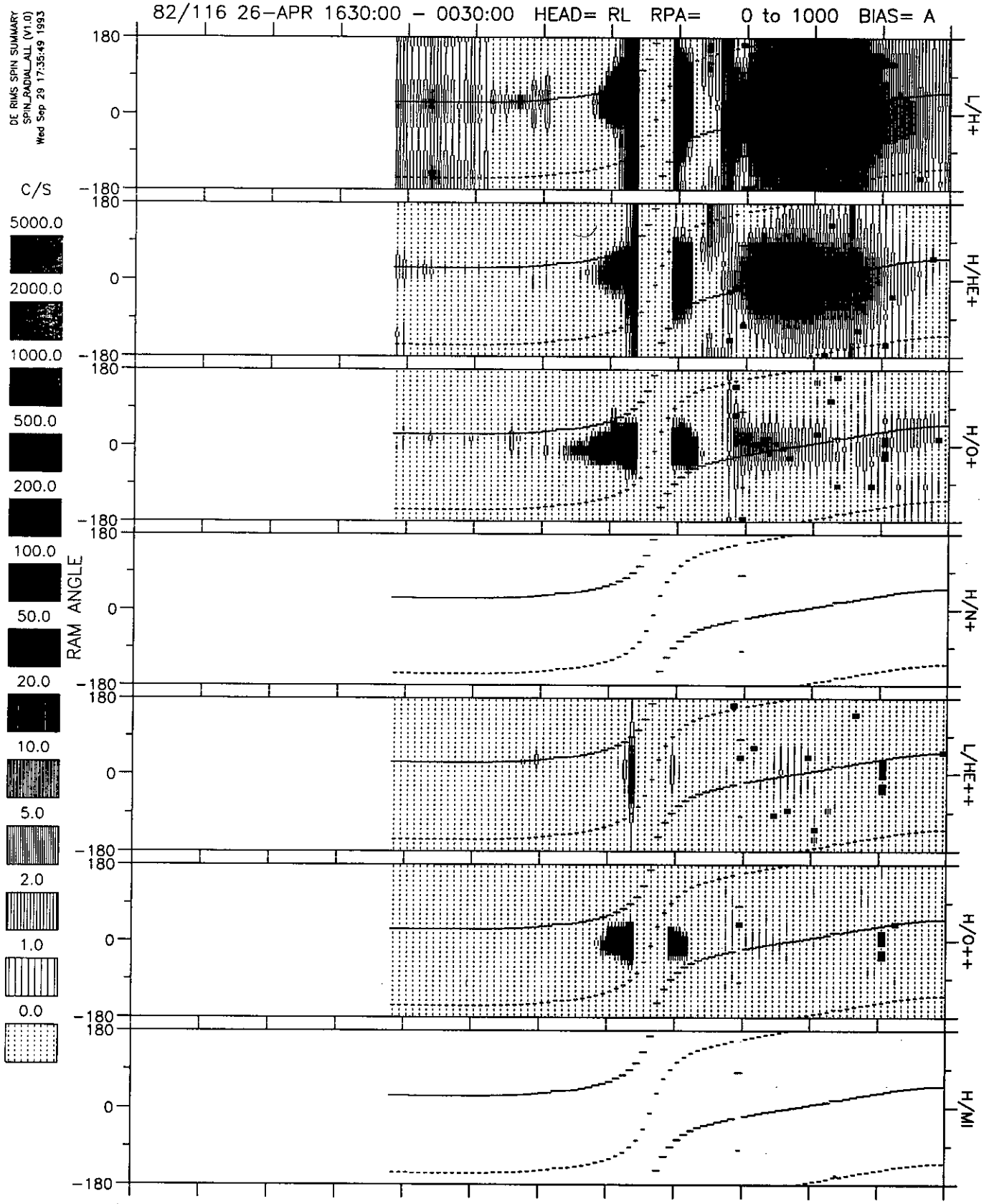
TIME	2040	2120	2200	2240	2320	0000	0040	0120	0000	0000	0320	DEGS
RE	4.4	4.6	4.6	4.4	3.8	2.9	1.6	1.4	0.0	0.0	4.3	HHMM
L	4.5	5.0	5.8	7.1	10.5	36.5	6.2	64.4	0.0	0.0	4.4	RE
MLT	20.8	20.9	21.0	21.0	21.1	21.4	8.5	21.2	0.0	0.0	20.5	
MLAT	3.14	15.62	27.46	39.82	54.37	75.27	56.33	•••••	0.00	0.00	4.76	HRS
INVLAT	61.8	63.4	65.4	68.0	72.0	80.5	66.2	82.8	0.0	0.0	61.4	DEGS



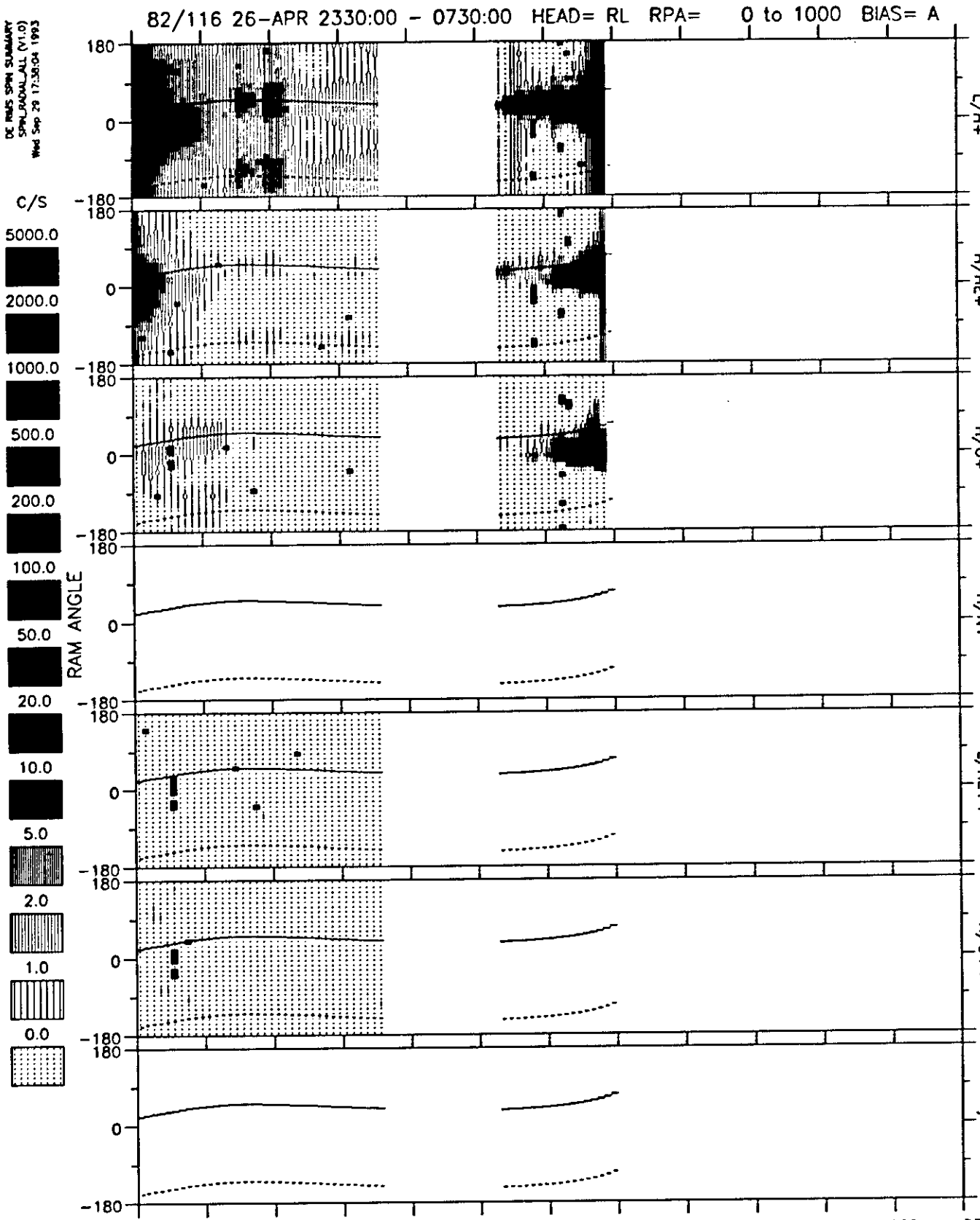
TIME	0340	0420	0000	0000	0620	0700	0740	0000	0900	0940	1020	DEGS
RE	4.5	4.7	0.0	0.0	3.6	2.6	1.4	0.0	3.0	3.9	4.4	HHMM
L	4.7	5.2	0.0	0.0	8.3	20.9	3.8	0.0	5.1	4.5	4.5	RE
MLT	20.5	20.4	0.0	0.0	19.6	18.4	9.5	0.0	20.9	20.5	20.4	
MLAT	9.95	19.08	0.00	0.00	49.01	68.44	54.80	0.00	*****	*****	*****	HRS
INVLAT	62.4	64.0	0.0	0.0	69.7	77.4	59.1	0.0	63.8	61.8	61.8	DEGS



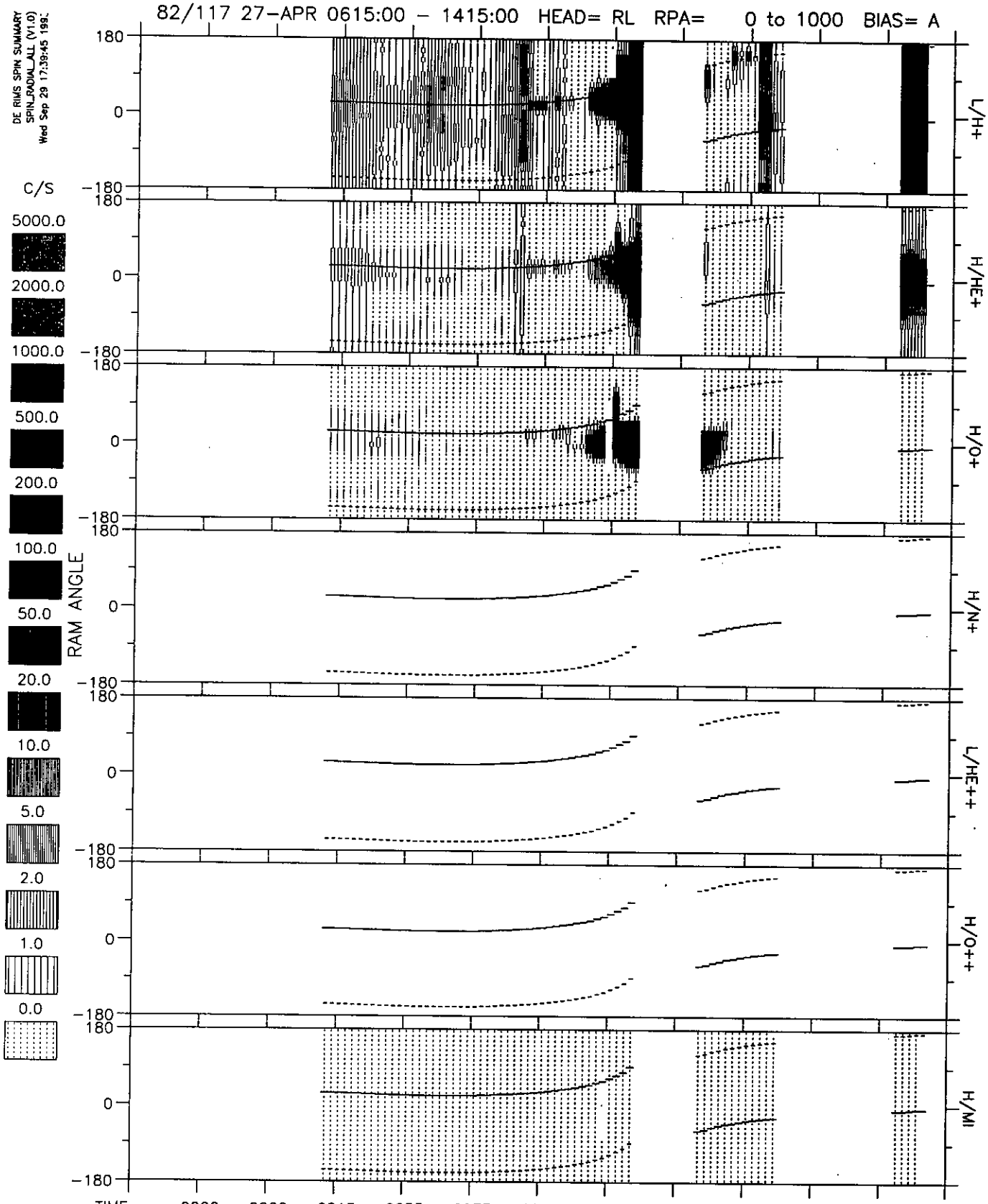
TIME	1055	1135	1215	1255	1335	1415	0000	0000	0000	0000	0000	DEGS
RE	4.6	4.6	4.4	3.9	3.1	1.8	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.6	4.7	4.8	5.3	7.6	100.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	20.3	20.2	20.2	20.3	20.5	2.7	0.0	0.0	0.0	0.0	0.0	
MLAT	-2.15	7.30	17.61	30.33	48.99	86.20	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.1	62.4	63.0	64.3	68.7	88.5	0.0	0.0	0.0	0.0	0.0	DEGS



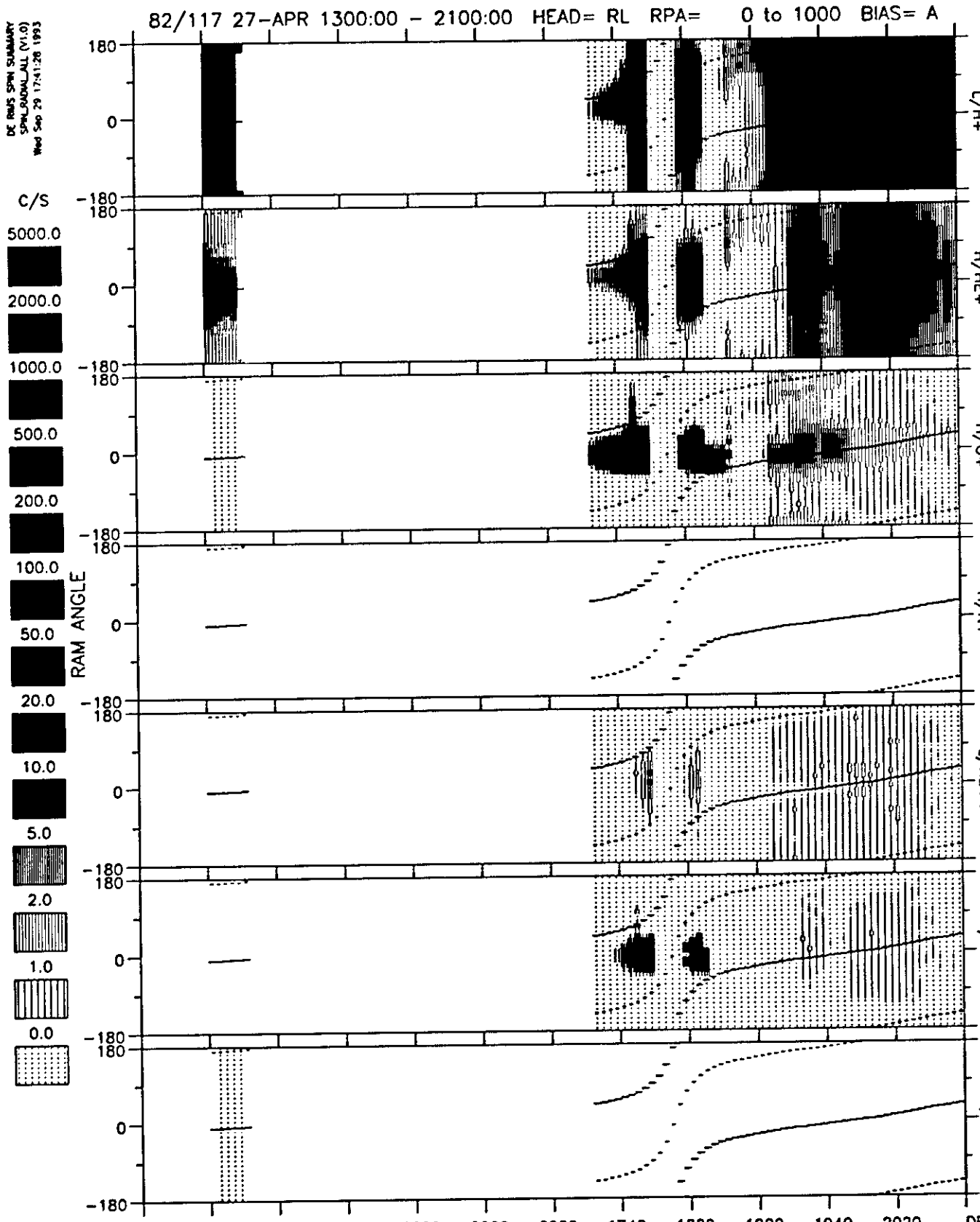
TIME	0000	0000	0000	1910	1950	2030	2110	2150	2230	2310	2350	DEGS
RE	0.0	0.0	0.0	4.4	3.8	2.9	1.7	1.4	2.7	3.7	4.3	HHMM
L	0.0	0.0	0.0	5.7	7.2	14.9	10.2	63.3	3.9	3.9	4.4	RE
MLT	0.0	0.0	0.0	21.1	21.4	22.3	7.2	12.8	20.3	20.5	20.6	
MLAT	0.00	0.00	0.00	29.75	44.63	65.07	64.44	*****	*****	-9.64	5.25	HRS
INVLAT	0.0	0.0	0.0	65.2	68.1	75.0	71.8	82.8	59.8	59.4	61.5	DEGS



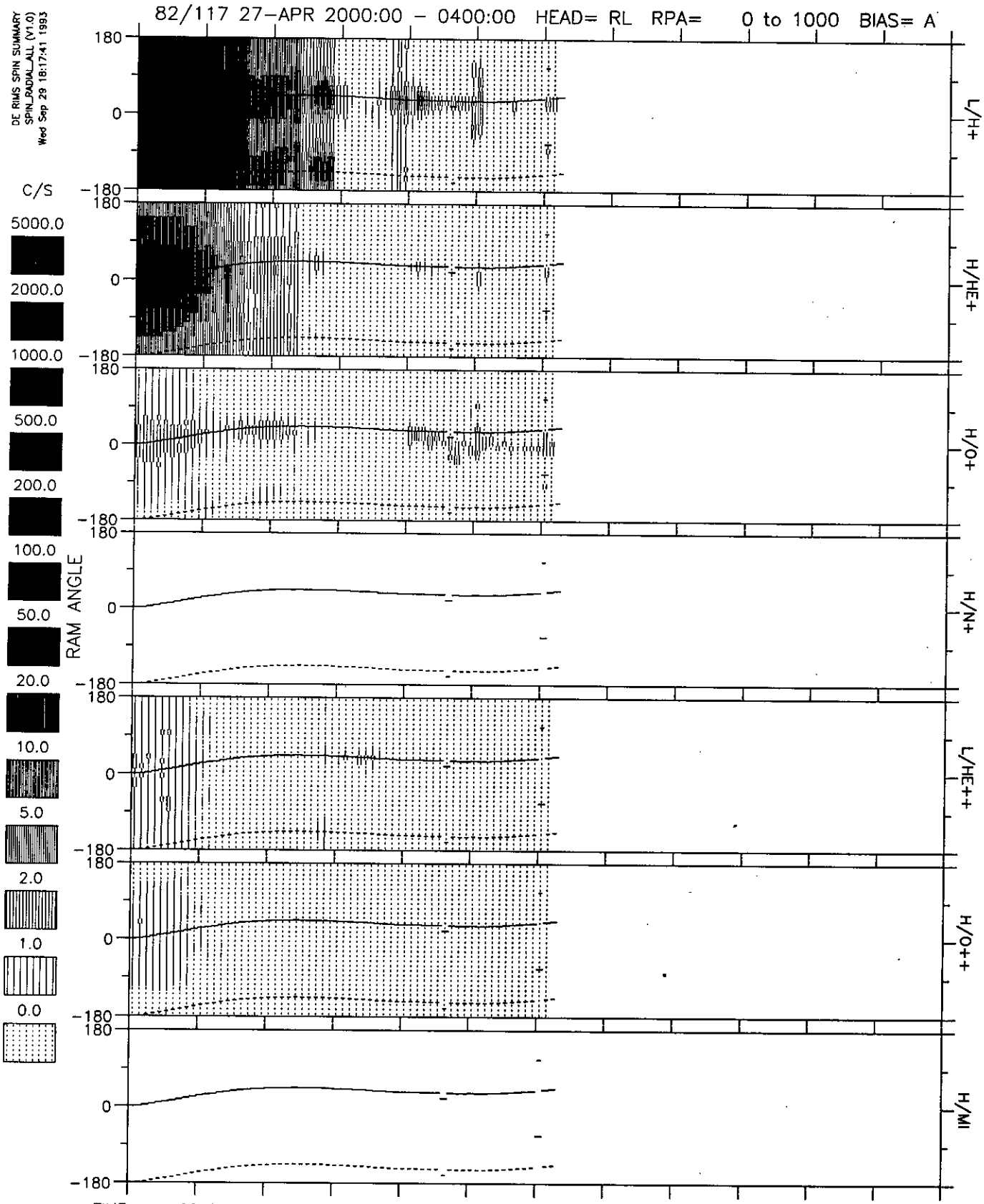
TIME	0010	0050	0130	0000	0000	0330	0000	0000	0000	0000	0000	DEGS
RE	4.5	4.7	4.6	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.7	5.5	6.5	0.0	0.0	52.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	20.6	20.6	20.5	0.0	0.0	18.4	0.0	0.0	0.0	0.0	0.0	
MLAT	11.38	22.34	32.67	0.00	0.00	76.69	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.6	64.8	67.0	0.0	0.0	82.0	0.0	0.0	0.0	0.0	0.0	DEGS



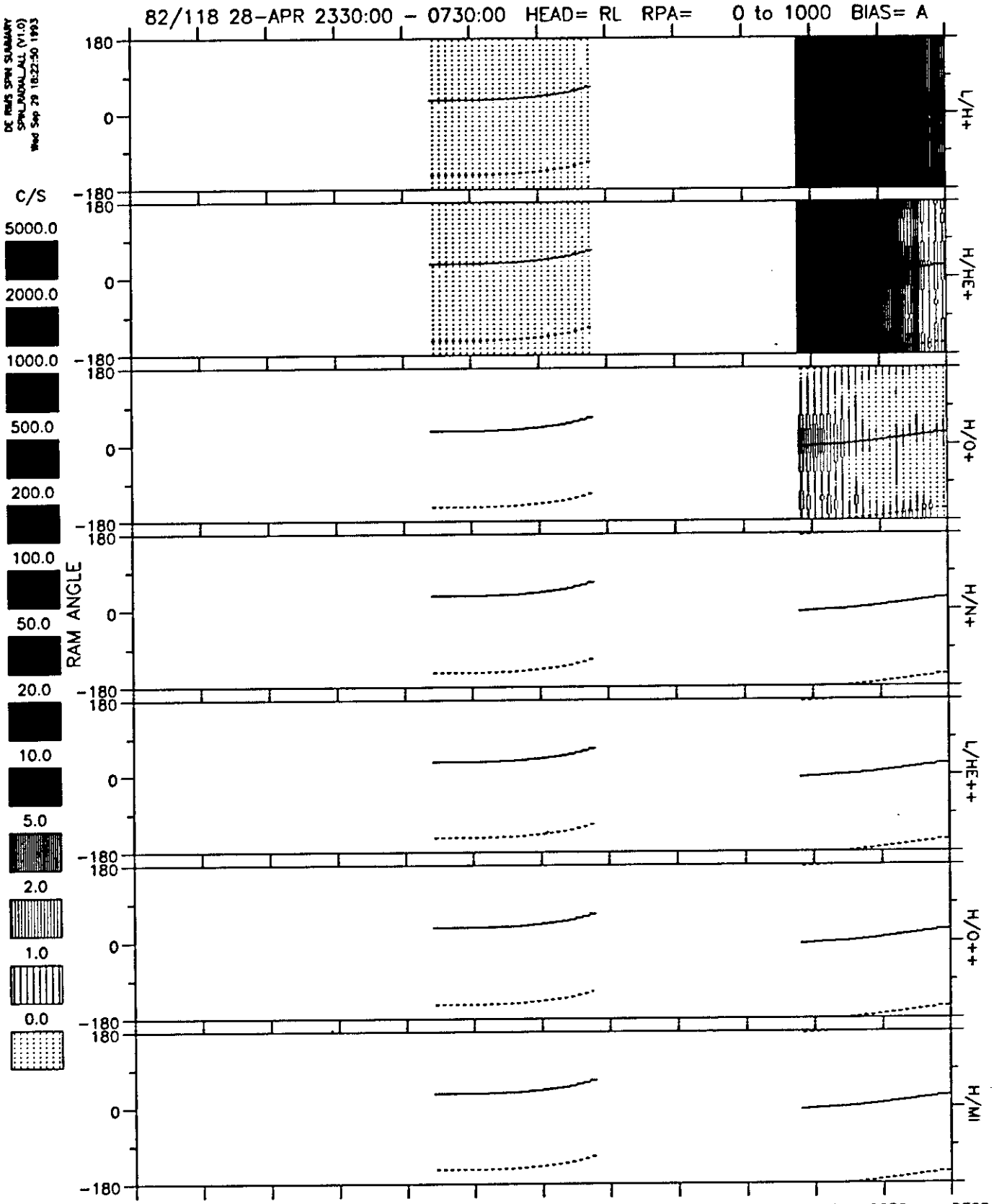
TIME	0000	0000	0815	0855	0935	1015	1055	0000	1215	0000	0000	DEGS
RE	0.0	0.0	4.6	4.3	3.8	2.8	1.6	0.0	2.8	0.0	0.0	HHMM
L	0.0	0.0	4.9	5.2	5.9	9.6	21.2	0.0	7.1	0.0	0.0	RE
MLT	0.0	0.0	20.1	20.0	19.8	19.5	9.9	0.0	20.4	0.0	0.0	
MLAT	0.00	0.00	15.67	24.85	36.73	55.73	76.73	0.00	*****	0.00	0.00	HRS
INVLAT	0.0	0.0	63.2	64.0	65.6	71.1	77.4	0.0	68.0	0.0	0.0	DEGS



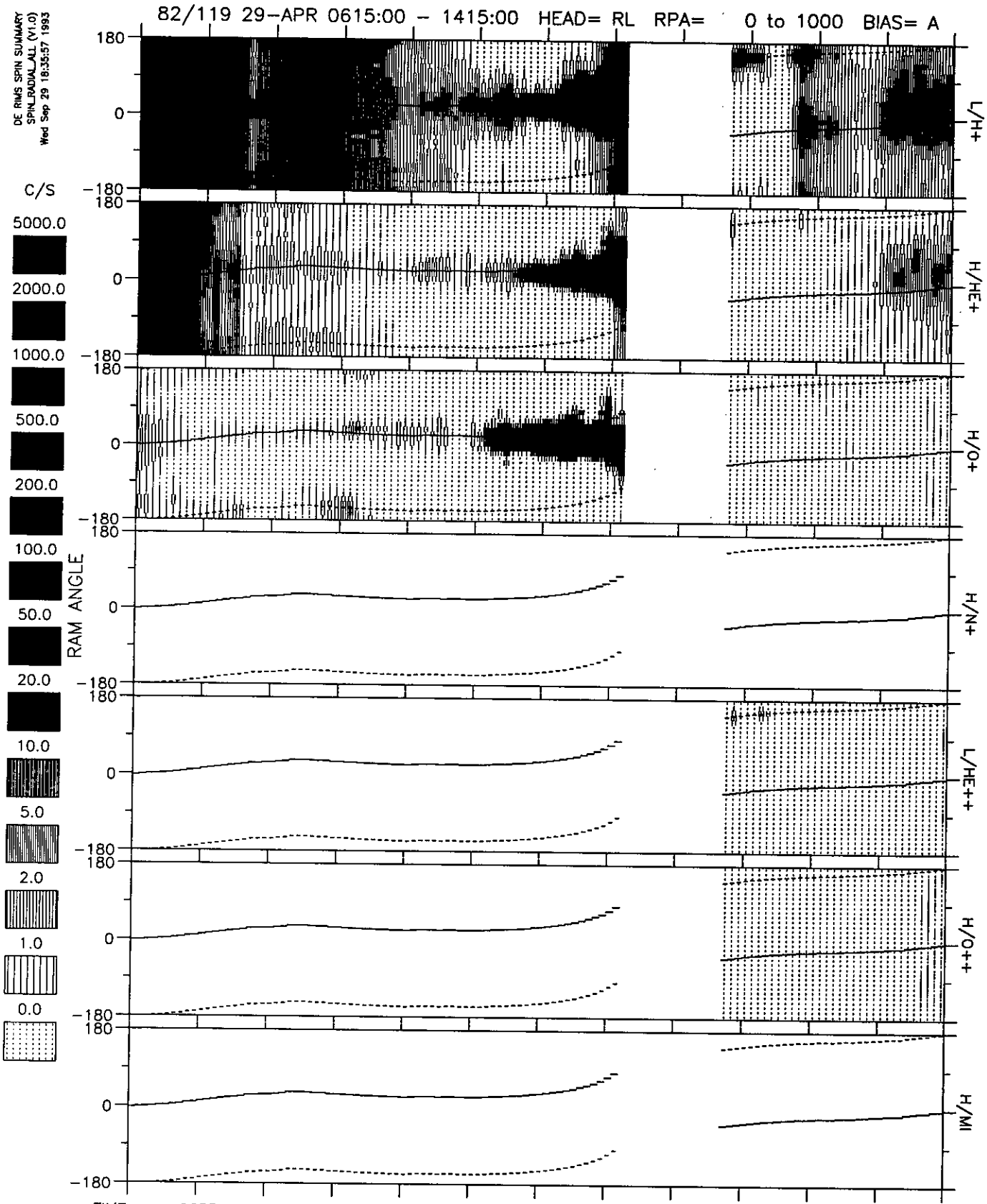
TIME	1340	0000	0000	0000	0000	0000	1740	1820	1900	1940	2020	DEGS
RE	4.4	0.0	0.0	0.0	0.0	0.0	1.7	1.3	2.6	3.6	4.3	HHMM
L	4.6	0.0	0.0	0.0	0.0	0.0	-0.0	8.1	5.3	4.2	4.4	RE
MLT	20.2	0.0	0.0	0.0	0.0	0.0	5.2	10.4	19.8	20.3	20.6	
MLAT	•••••	0.00	0.00	0.00	0.00	0.00	75.88	•••••	•••••	•••••	-2.51	HRS
INVLAT	62.1	0.0	0.0	0.0	0.0	0.0	-0.0	69.4	64.2	60.9	61.4	DEGS



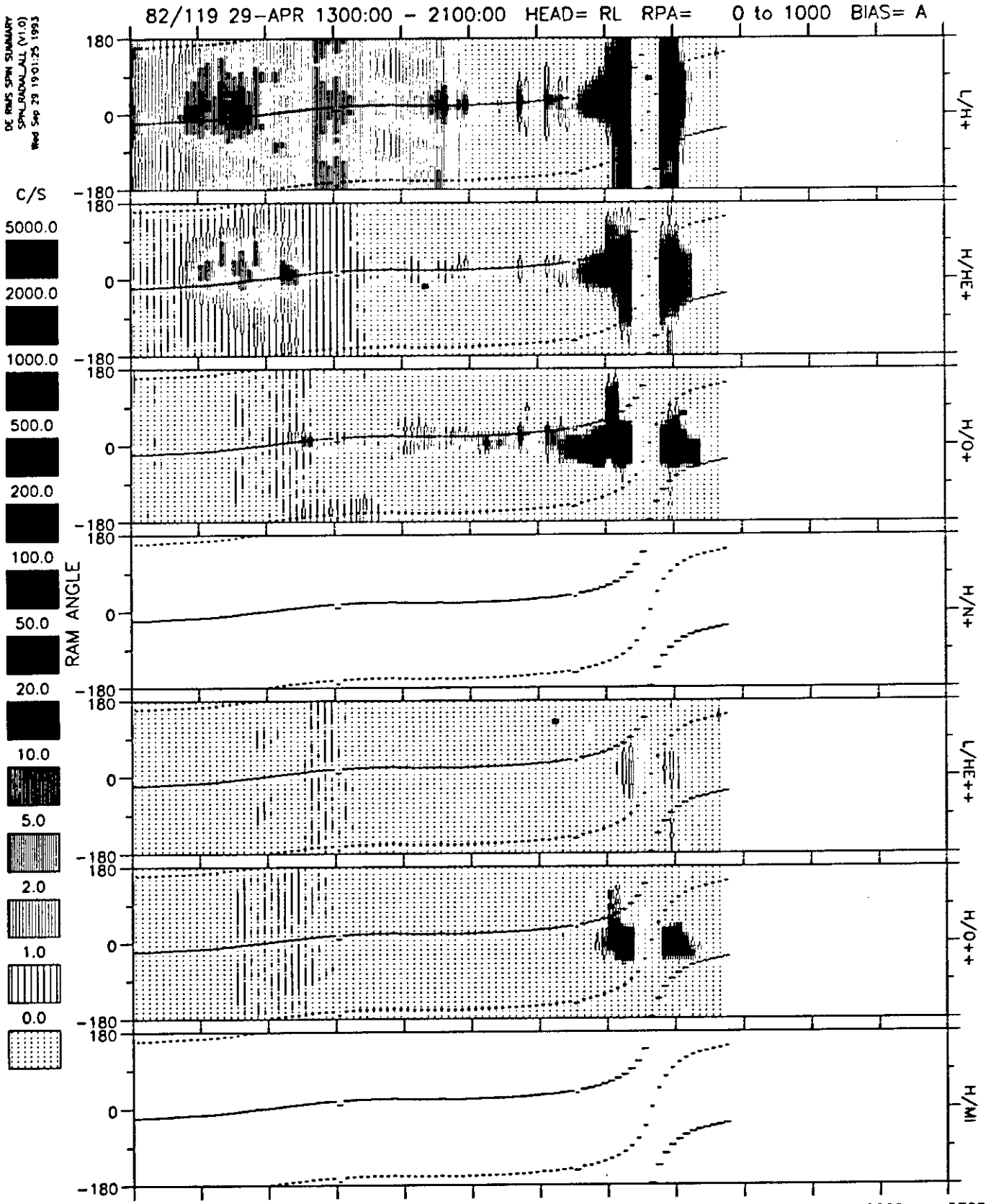
TIME	2040	2120	2200	2240	2320	0000	0000	0000	0000	0000	0000	DEGS
RE	4.5	4.7	4.6	4.3	3.7	2.7	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.6	5.1	5.9	7.3	11.1	51.2	0.0	0.0	0.0	0.0	0.0	RE
MLT	20.6	20.8	20.9	20.9	21.0	21.5	0.0	0.0	0.0	0.0	0.0	
MLAT	4.23	16.55	28.38	40.89	55.88	78.21	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.1	63.7	65.7	68.3	72.5	82.0	0.0	0.0	0.0	0.0	0.0	DEGS



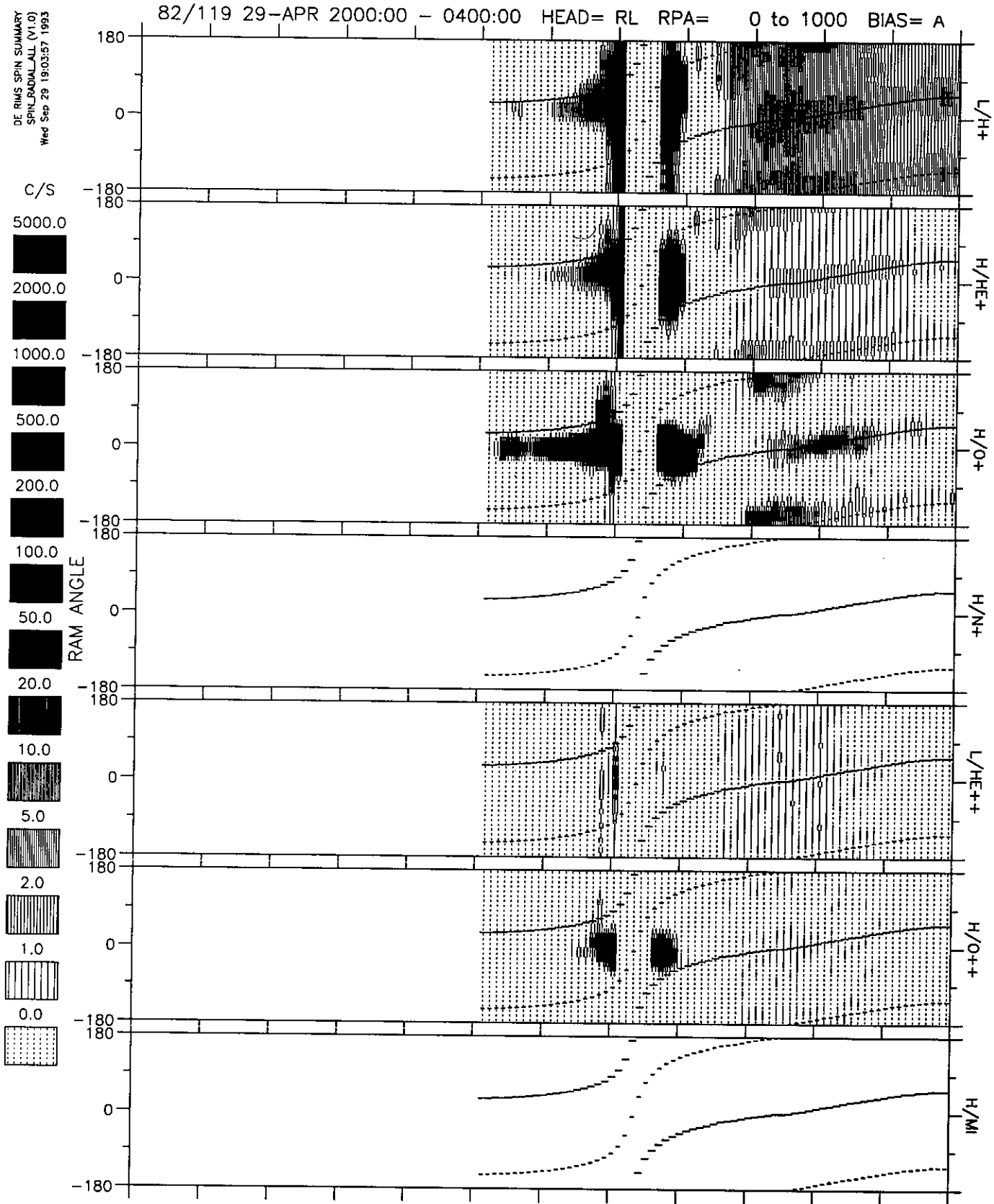
TIME	0000	0000	0000	0000	0250	0330	0000	0000	0000	0610	0650	DEGS
RE	0.0	0.0	0.0	0.0	3.6	2.5	0.0	0.0	0.0	3.9	4.4	HHMM
L	0.0	0.0	0.0	0.0	12.6	76.7	0.0	0.0	0.0	4.1	4.4	RE
MLT	0.0	0.0	0.0	0.0	19.8	17.6	0.0	0.0	0.0	20.5	20.3	
MLAT	0.00	0.00	0.00	0.00	57.99	79.10	0.00	0.00	0.00	*****	-2.04	HRS
INVLAT	0.0	0.0	0.0	0.0	73.7	83.4	0.0	0.0	0.0	60.5	61.5	DEGS



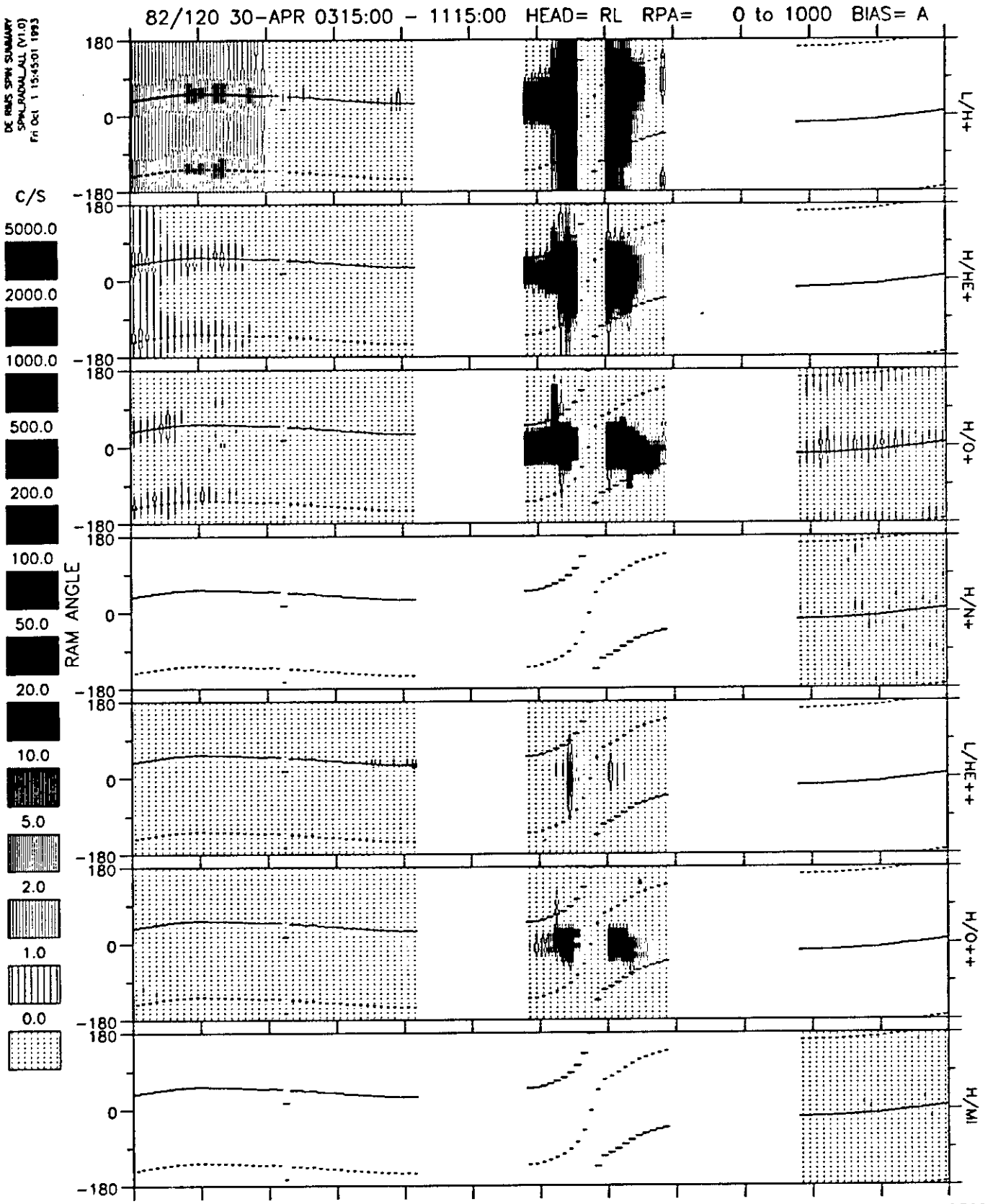
TIME	0655	0735	0815	0855	0935	1015	1055	0000	1215	1255	1335	DEGS
RE	4.5	4.7	4.6	4.3	3.7	2.7	1.4	0.0	2.9	3.8	4.4	HHMM
L	4.4	4.7	4.9	5.2	5.9	10.7	5.2	0.0	6.7	4.9	4.6	RE
MLT	20.3	20.1	20.0	19.8	19.7	19.3	8.8	0.0	20.2	20.1	20.1	
MLAT	-0.91	7.62	15.95	25.35	37.80	58.43	61.94	0.00	*****	*****	*****	HRS
INVLAT	61.6	62.5	63.2	63.9	65.7	72.2	63.8	0.0	67.2	63.0	62.2	DEGS



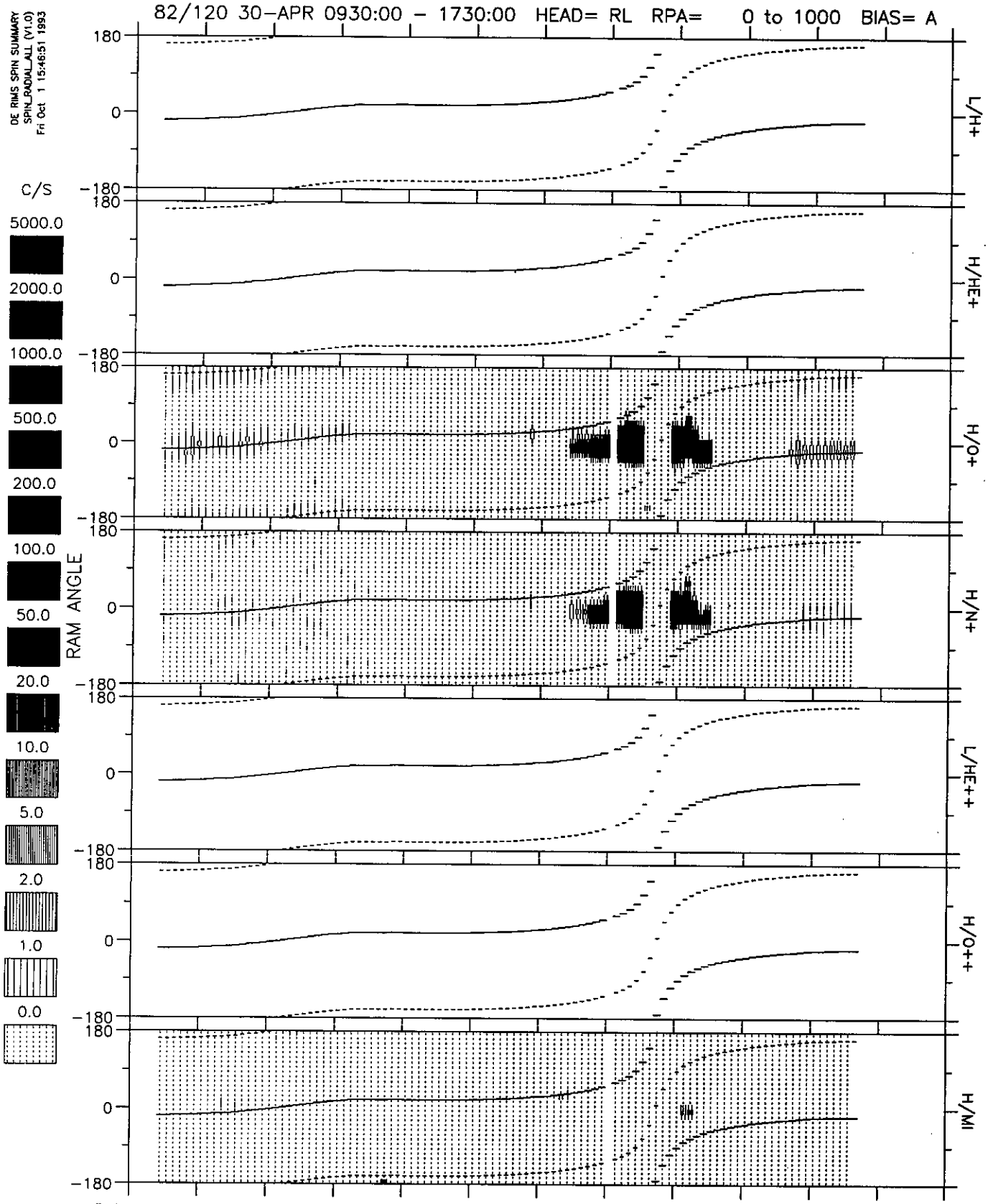
TIME	1340	1420	1500	1540	1620	1700	1740	1820	0000	0000	0000	DEGS
RE	4.4	4.7	4.6	4.3	3.8	2.9	1.6	1.5	0.0	0.0	0.0	HHMM
L	4.6	4.6	4.7	5.0	5.8	10.0	11.5	22.2	0.0	0.0	0.0	RE
MLT	20.1	20.2	20.3	20.5	20.8	21.5	6.5	12.5	0.0	0.0	0.0	
MLAT	•••••	-2.19	9.03	21.18	35.91	57.13	67.87	•••••	0.00	0.00	0.00	HRS
INVLAT	62.2	62.2	62.6	63.5	65.5	71.5	72.8	77.7	0.0	0.0	0.0	DEGS



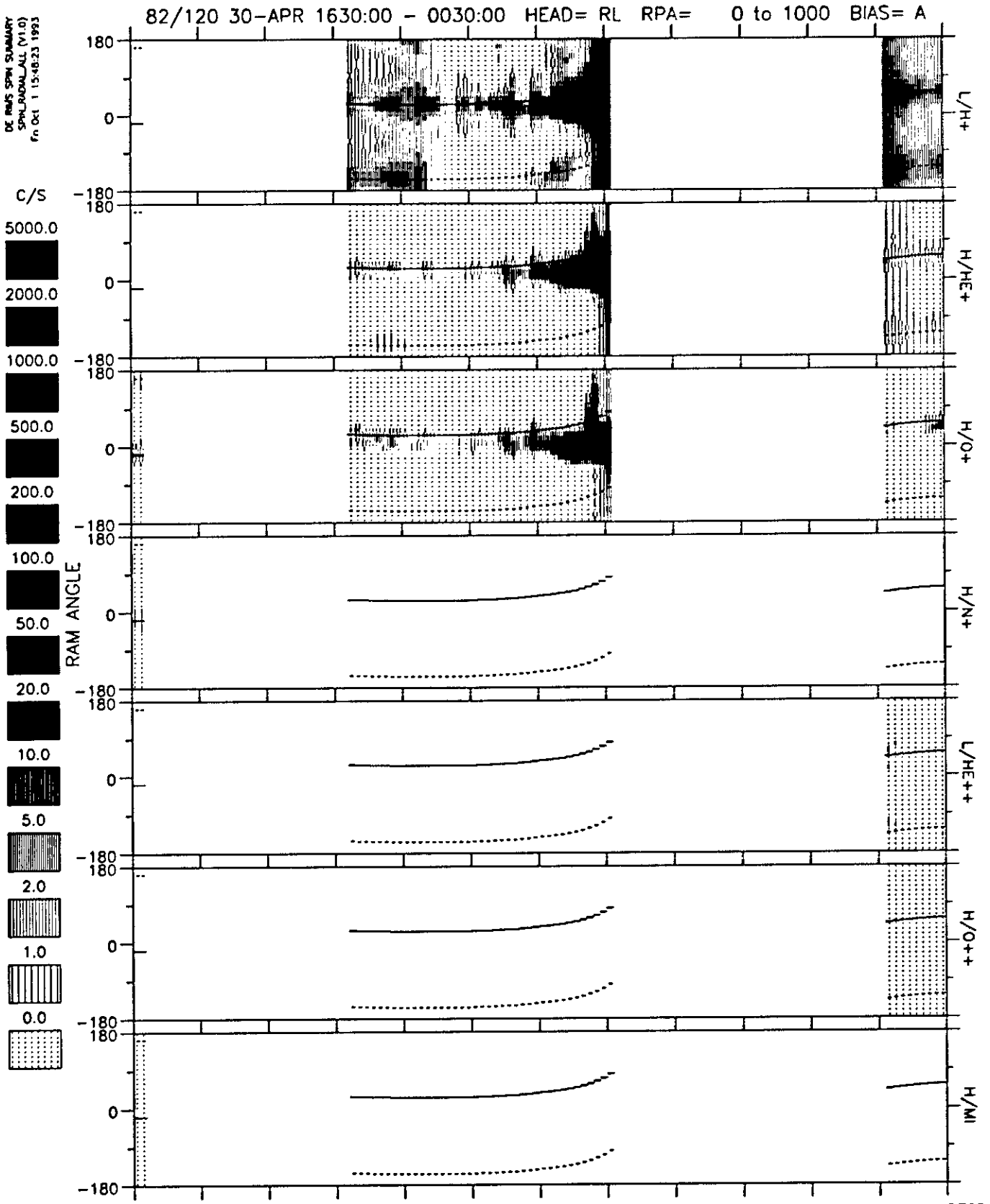
TIME	0000	0000	0000	0000	0000	0000	0040	0120	0200	0240	0320	DEGS
RE	0.0	0.0	0.0	0.0	0.0	2.6	1.3	1.8	3.0	3.9	4.4	HHMM
L	0.0	0.0	0.0	0.0	0.0	84.3	1.8	8.4	3.6	3.9	4.5	RE
MLT	0.0	0.0	0.0	0.0	0.0	21.5	8.4	20.6	20.5	20.4	20.3	
MLAT	0.00	0.00	0.00	0.00	0.00	81.65	29.85	*****	*****	-5.98	5.91	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	83.8	41.2	69.8	58.3	59.8	61.8	DEGS



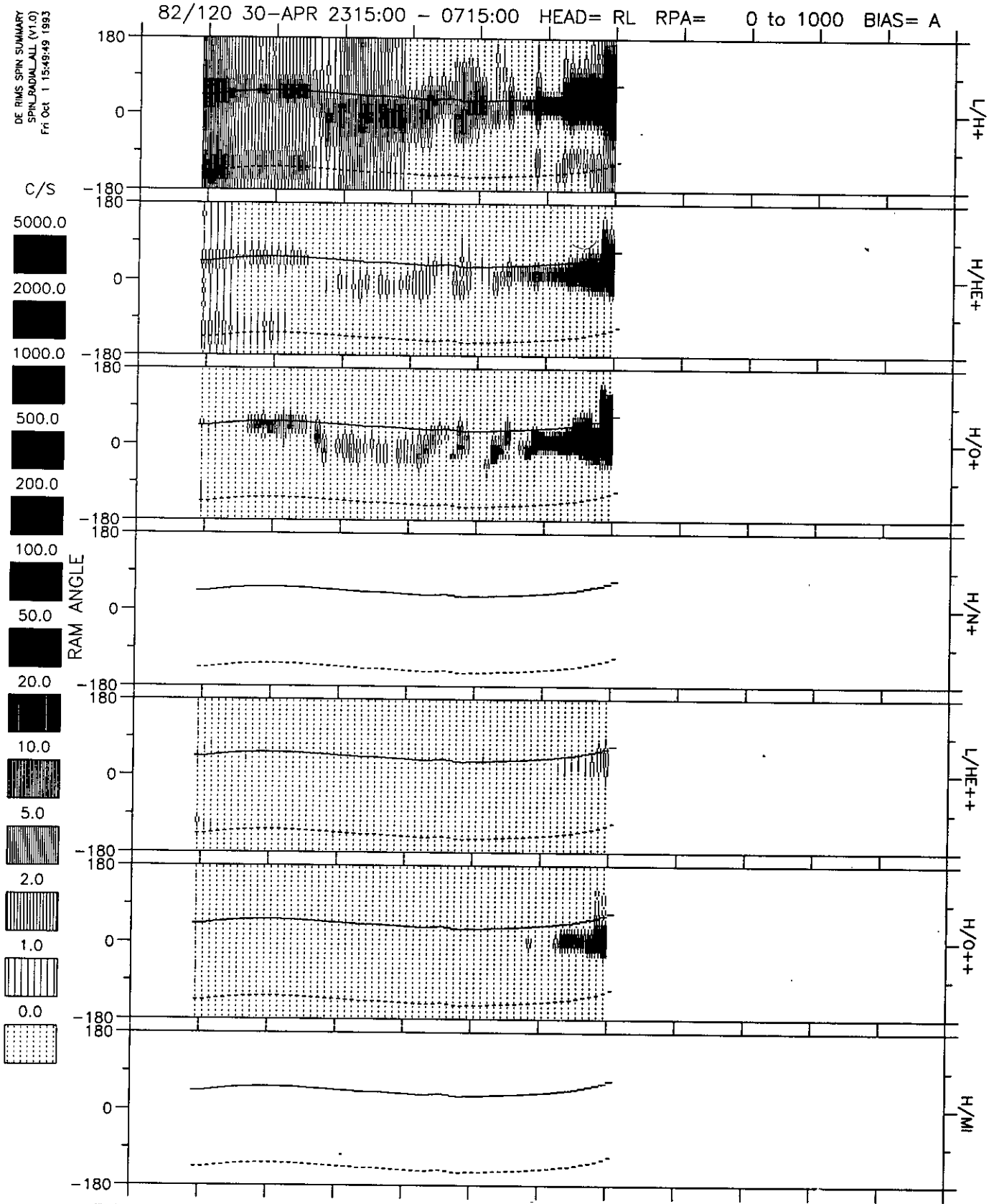
TIME	0355	0435	0515	0555	0000	0715	0755	0000	0000	0955	1035	DEGS
RE	4.6	4.6	4.4	3.9	0.0	1.8	1.3	0.0	0.0	4.2	4.6	HHMM
L	4.9	5.4	6.0	7.0	0.0	34.0	4.6	0.0	0.0	4.5	4.6	RE
MLT	20.2	20.0	19.8	19.5	0.0	11.8	6.8	0.0	0.0	20.2	20.0	
MLAT	14.25	22.87	31.74	42.43	0.00	76.09	*****	0.00	0.00	*****	-6.01	HRS
INVLAT	63.2	64.6	66.0	67.9	0.0	80.1	62.3	0.0	0.0	62.0	62.1	DEGS



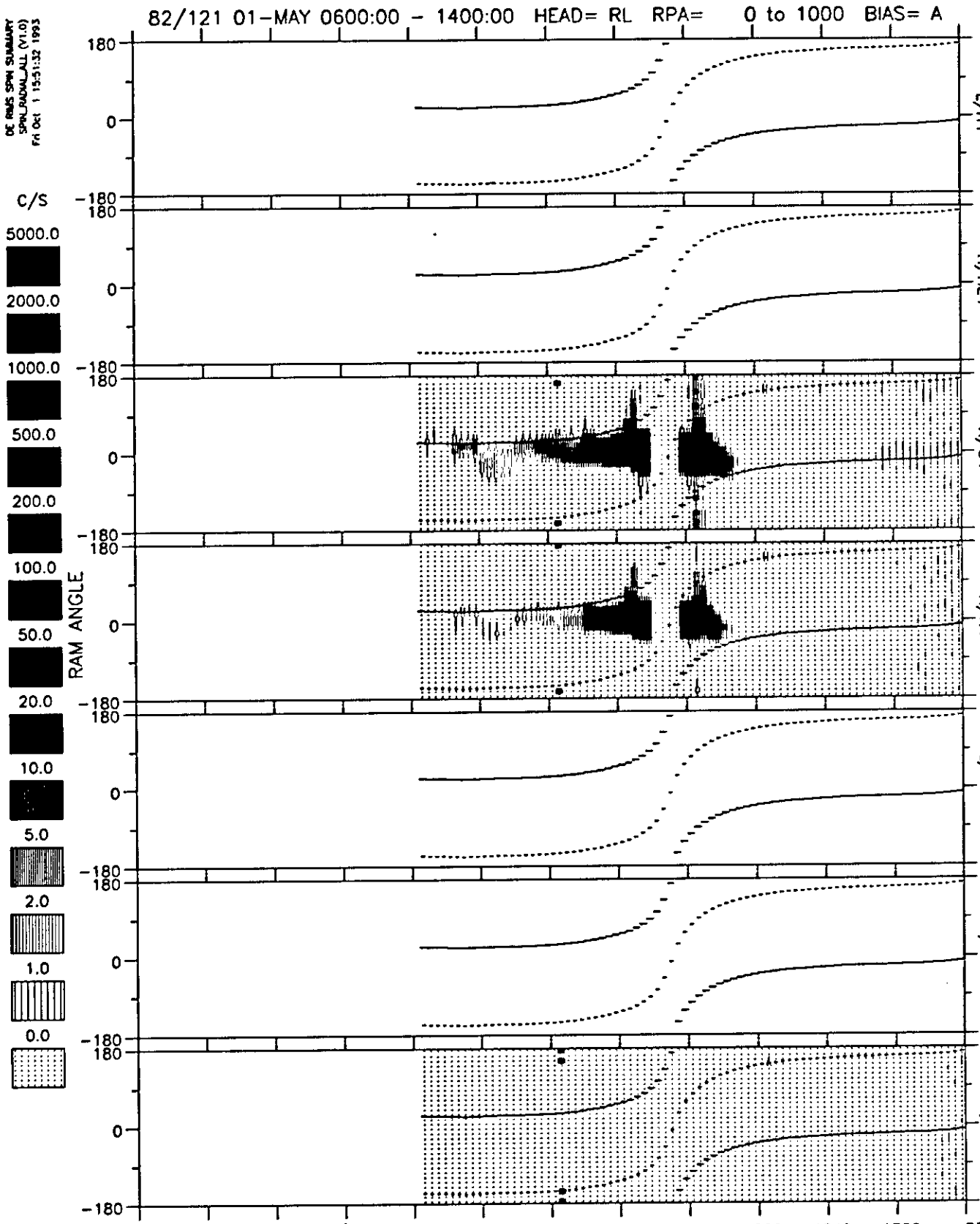
TIME	1010	1050	1130	1210	1250	1330	0000	1450	1530	1610	0000	DEGS
RE	4.4	4.6	4.6	4.4	3.8	2.9	0.0	1.4	2.7	3.7	0.0	HHMM
L	4.5	4.6	4.7	4.8	5.3	7.9	0.0	8.4	7.0	4.7	0.0	RE
MLT	20.1	20.0	20.0	20.0	20.0	20.3	0.0	9.2	19.5	19.9	0.0	
MLAT	*****	-2.47	7.08	17.63	30.85	50.85	0.00	*****	*****	*****	0.00	HRS
INVLAT	62.0	62.1	62.4	62.8	64.2	69.2	0.0	69.8	67.7	62.6	0.0	DEGS



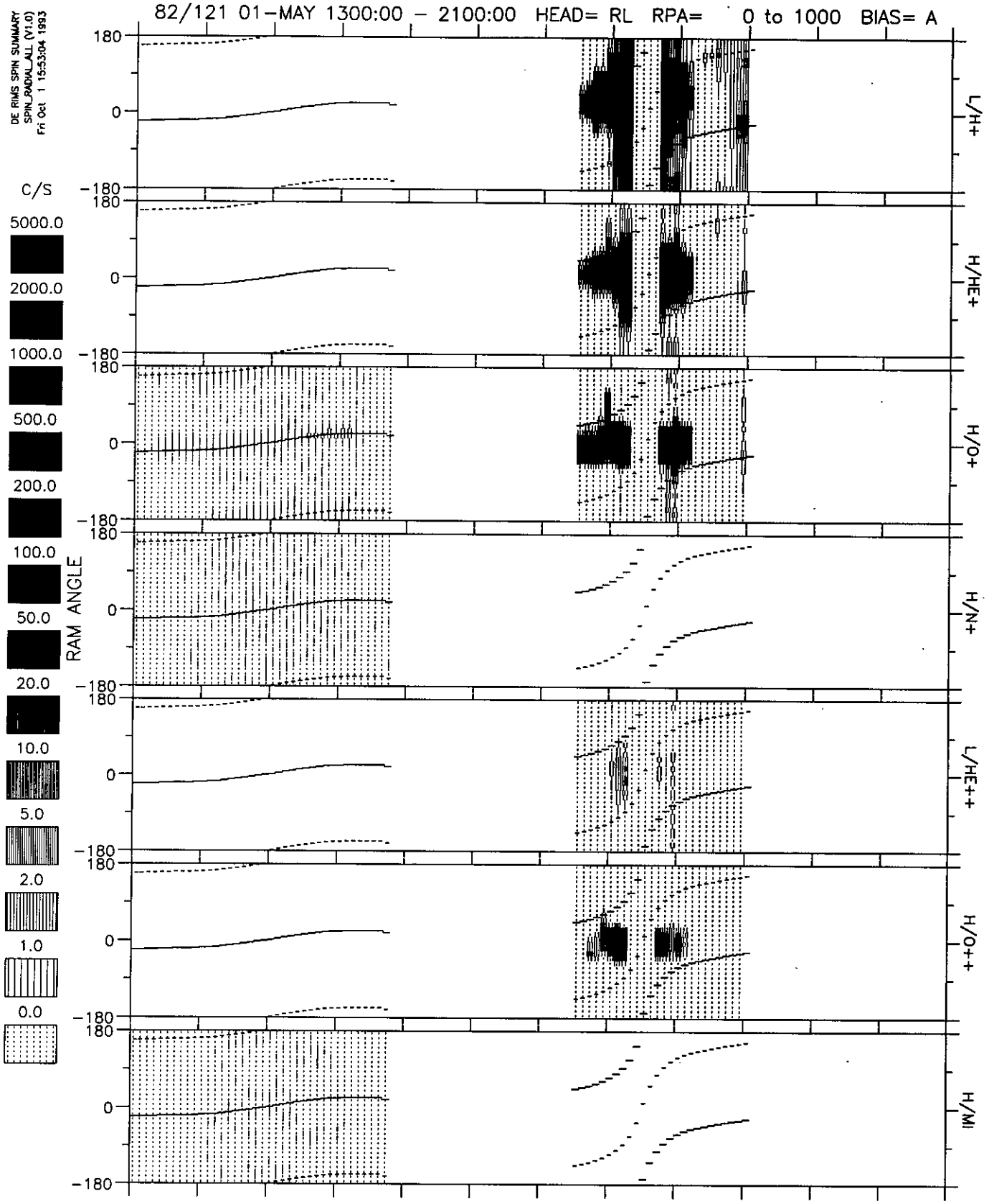
TIME	0000	0000	0000	1910	1950	2030	2110	0000	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	4.3	3.6	2.7	1.4	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	5.8	7.6	21.9	3.6	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	20.9	21.2	22.6	7.7	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	32.16	48.00	70.94	49.78	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	65.4	68.8	77.7	57.9	0.0	0.0	0.0	0.0	DEGS



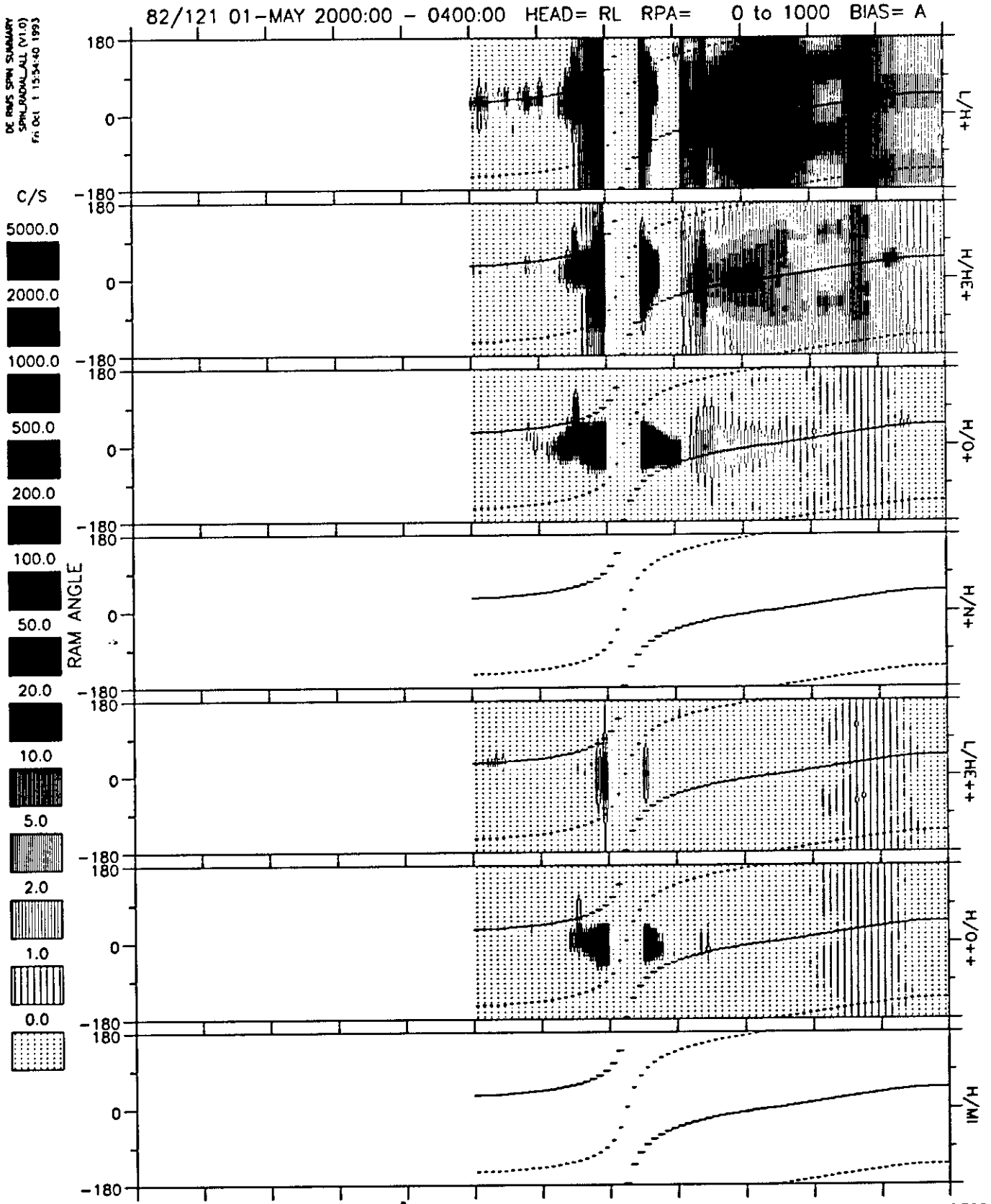
TIME	2355	0035	0115	0155	0235	0315	0355	0000	0000	0000	0000	DEGS
RE	4.4	4.7	4.6	4.3	3.7	2.8	1.5	0.0	0.0	0.0	0.0	HHMM
L	4.6	5.3	6.2	7.6	10.5	30.2	5.5	0.0	0.0	0.0	0.0	RE
MLT	20.4	20.4	20.3	20.1	19.8	18.8	9.1	0.0	0.0	0.0	0.0	
MLAT	8.61	19.70	29.98	40.64	53.37	72.14	56.05	0.00	0.00	0.00	0.00	HRS
INVLAT	62.2	64.3	66.4	68.7	72.1	79.5	64.8	0.0	0.0	0.0	0.0	DEGS



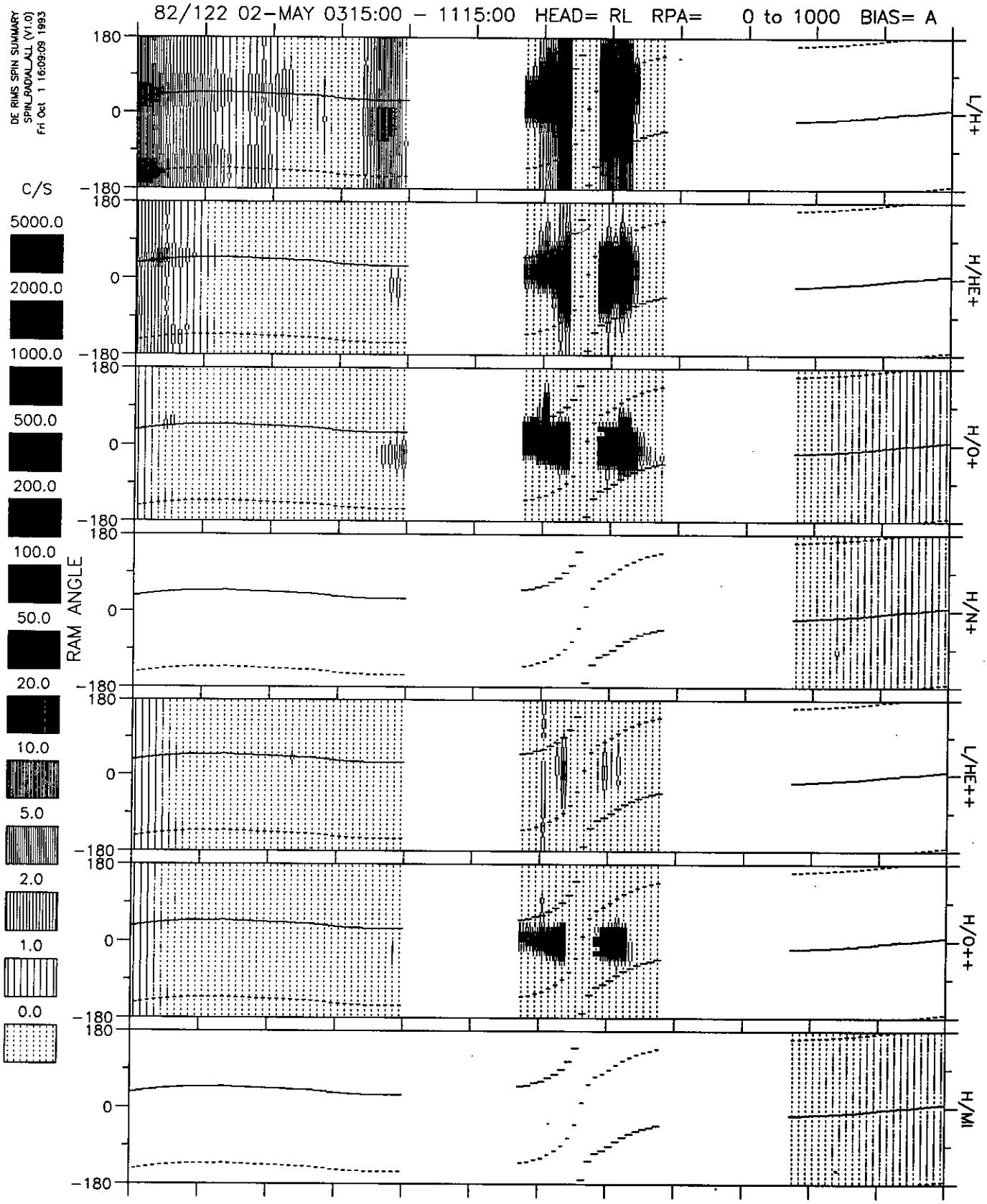
TIME	0000	0000	0000	0000	0920	1000	1040	1120	1200	1240	1320	DEGS
RE	0.0	0.0	0.0	0.0	3.9	3.0	1.7	1.3	2.7	3.6	4.3	HHMM
L	0.0	0.0	0.0	0.0	5.5	7.9	80.2	4.7	8.8	5.1	4.7	RE
MLT	0.0	0.0	0.0	0.0	19.6	19.3	12.1	7.5	20.1	20.0	19.9	
MLAT	0.00	0.00	0.00	0.00	29.79	51.15	83.38	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	64.8	69.2	83.6	62.5	70.3	63.8	62.4	DEGS



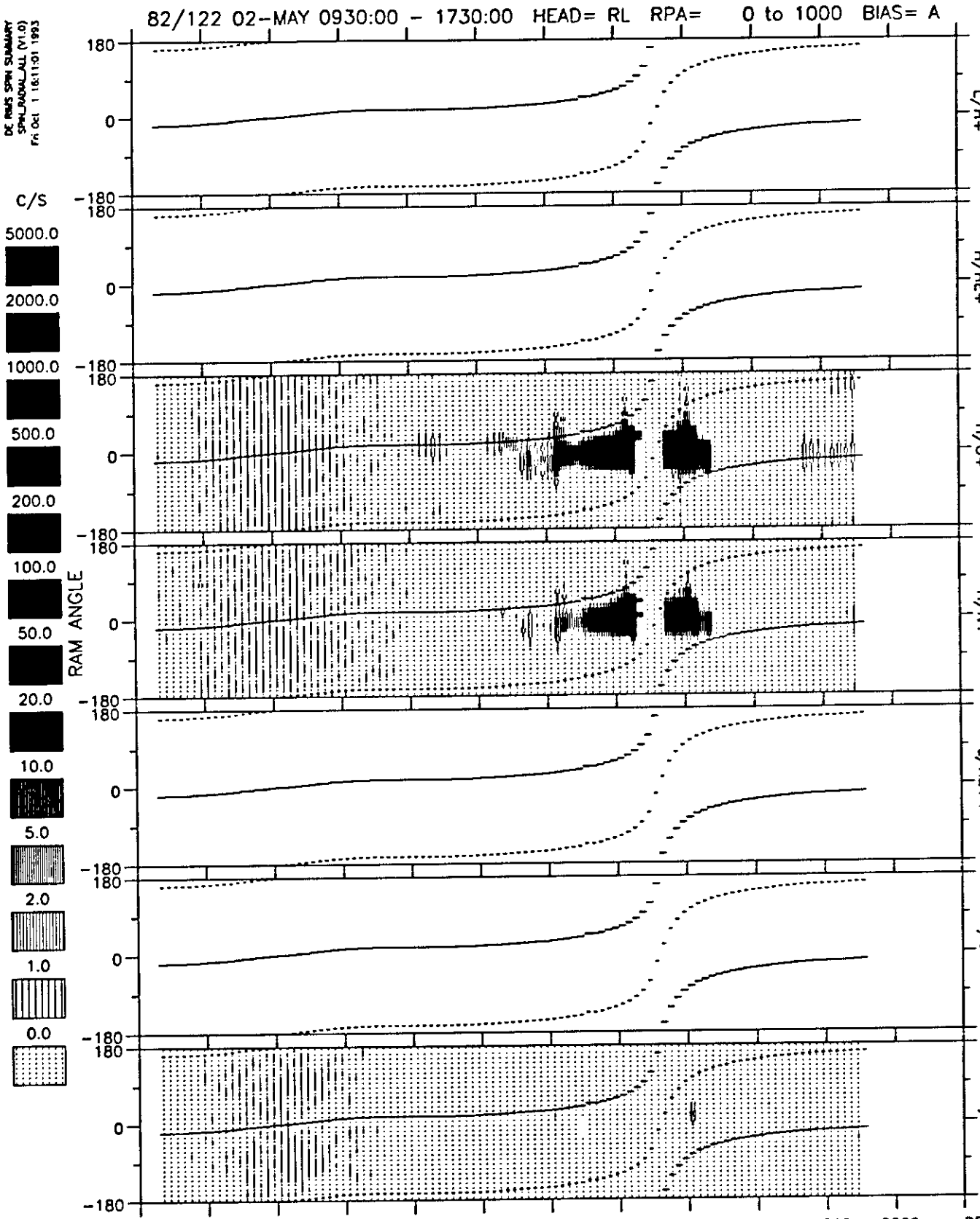
TIME	1340	1420	1500	0000	0000	0000	1740	1820	1900	0000	0000	DEGS
RE	4.5	4.7	4.6	0.0	0.0	0.0	1.4	1.6	2.8	0.0	0.0	HHMM
L	4.6	4.6	4.7	0.0	0.0	0.0	4.6	24.2	5.0	0.0	0.0	RE
MLT	20.0	20.0	20.2	0.0	0.0	0.0	7.1	15.8	19.7	0.0	0.0	
MLAT	*****	-1.44	9.87	0.00	0.00	0.00	56.81	*****	*****	0.00	0.00	HRS
INVLAT	62.2	62.3	62.6	0.0	0.0	0.0	62.2	78.3	63.4	0.0	0.0	DEGS

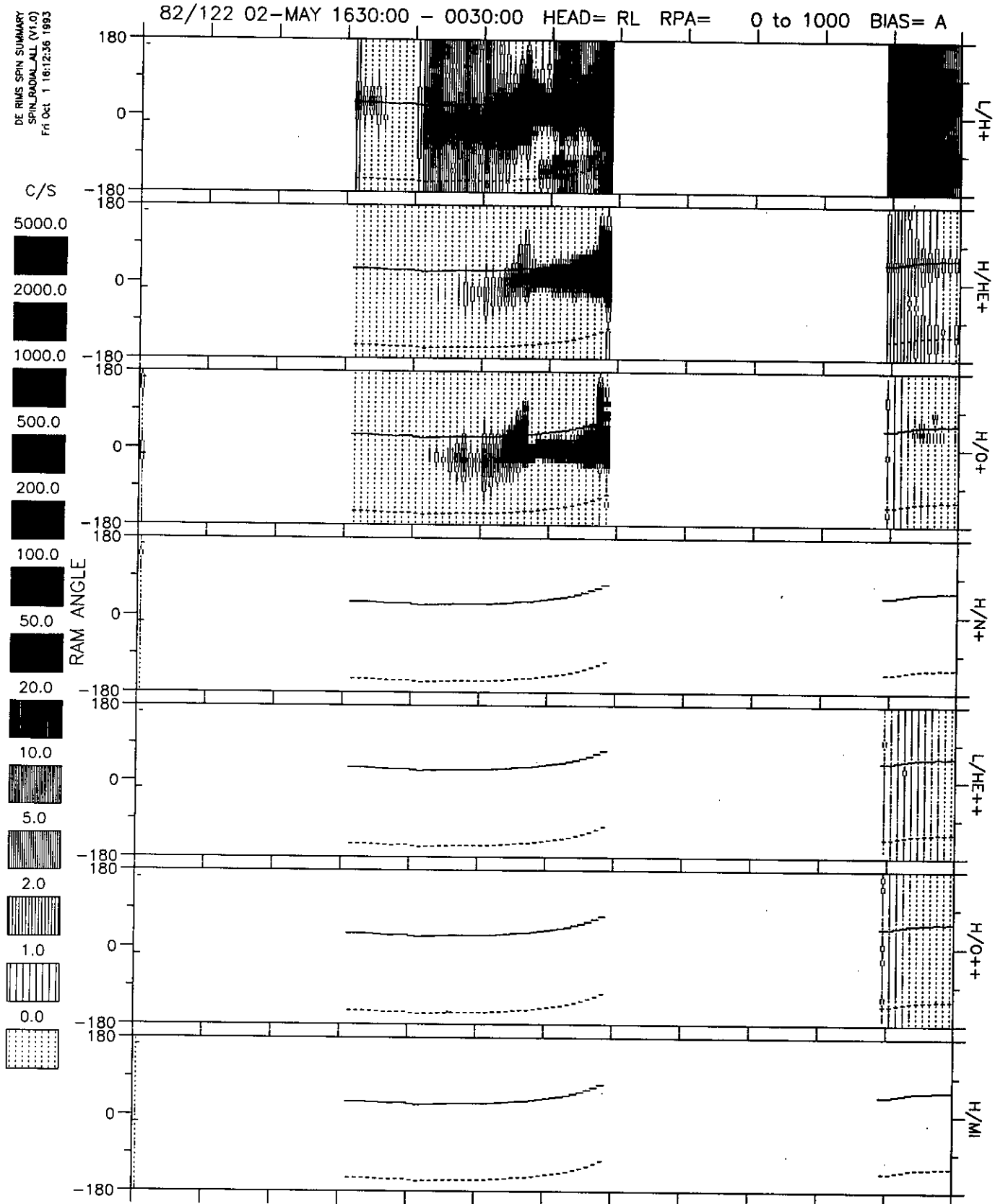


TIME	0000	0000	0000	0000	2320	0000	0040	0120	0200	0240	0320	DEGS
RE	0.0	0.0	0.0	0.0	3.5	2.4	1.1	2.0	3.2	4.0	4.4	HHMM
L	0.0	0.0	0.0	0.0	12.5	100.0	1.1	6.1	3.7	4.0	4.5	RE
MLT	0.0	0.0	0.0	0.0	20.8	22.0	8.3	20.5	20.4	20.3	20.2	
MLAT	0.00	0.00	0.00	0.00	59.28	85.32	10.82	*****	*****	-4.97	6.45	HRS
INVLAT	0.0	0.0	0.0	0.0	73.5	85.8	20.4	66.1	58.5	60.1	61.9	DEGS

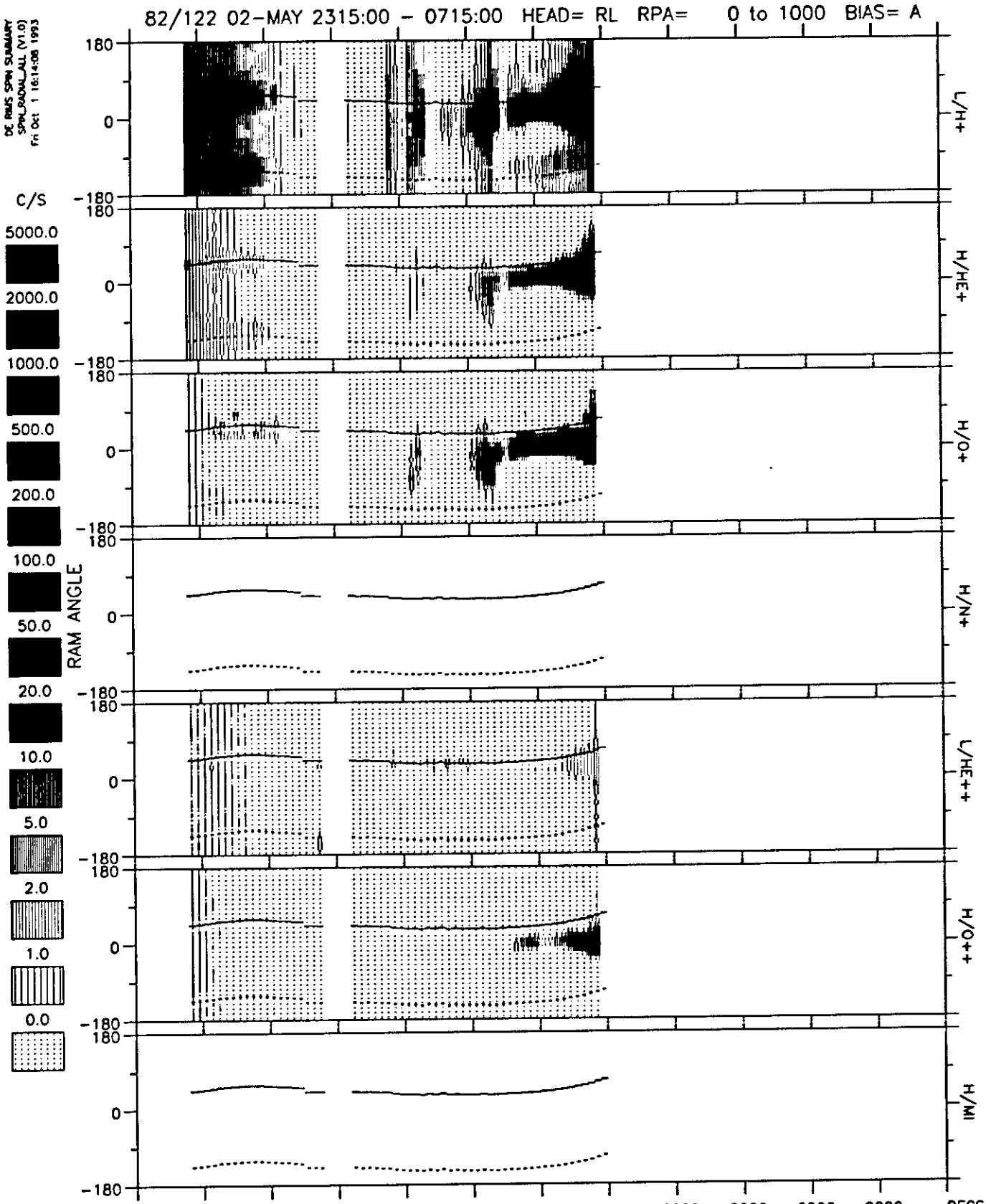


TIME	0355	0435	0515	0000	0000	0715	0755	0000	0000	0955	1035	DEGS
RE	4.6	4.6	4.4	0.0	0.0	1.6	1.4	0.0	0.0	4.3	4.6	HHMM
L	5.0	5.4	6.0	0.0	0.0	12.7	11.6	0.0	0.0	4.6	4.6	RE
MLT	20.0	19.9	19.7	0.0	0.0	10.2	5.5	0.0	0.0	20.0	19.9	
MLAT	14.57	23.15	32.14	0.00	0.00	69.82	*****	0.00	0.00	*****	-5.57	HRS
INVLAT	63.3	64.6	65.9	0.0	0.0	73.7	72.9	0.0	0.0	62.1	62.1	DEGS

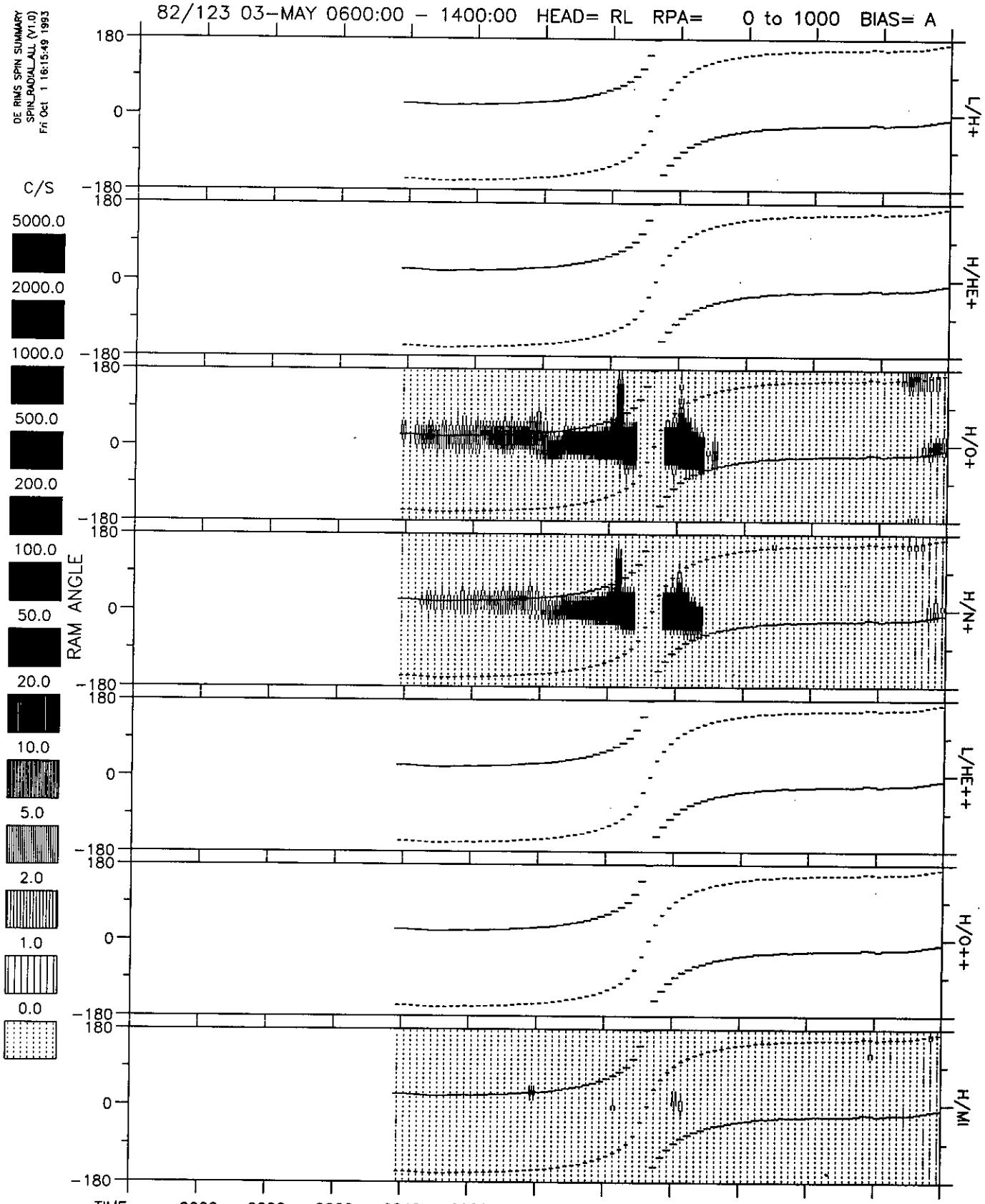

82/122 02-MAY 0930:00 - 1730:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Oct 1 16:11:01 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 1010 1050 1130 1210 1250 1330 1410 1450 1530 1610 0000 DEGS
RE 4.4 4.7 4.6 4.3 3.7 2.8 1.5 1.6 2.9 3.8 0.0 HHMM
L 4.6 4.6 4.6 4.8 5.3 8.6 14.7 28.8 6.4 4.7 0.0 RE
MLT 20.0 19.9 19.9 19.9 19.9 20.2 7.0 10.4 19.5 19.8 0.0
MLAT ***** -2.00 6.85 18.43 32.19 53.63 71.40 ***** ***** ***** 0.00 HRS
INVLAT 62.1 62.2 62.3 62.8 64.3 70.1 74.9 79.2 66.8 62.5 0.0 DEGS



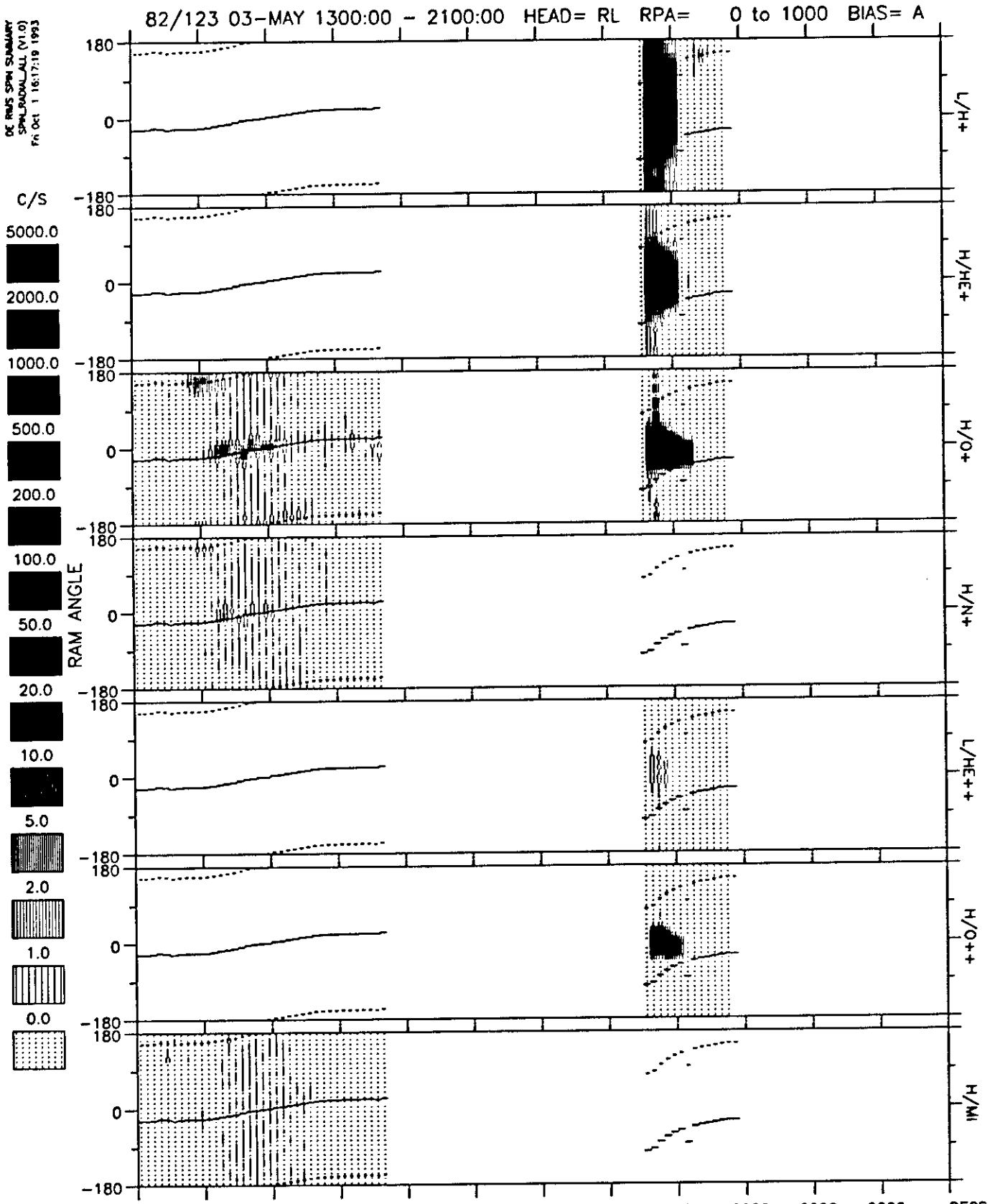
TIME	0000	0000	0000	1910	1950	2030	0000	0000	0000	0000	2350	DEGS
RE	0.0	0.0	0.0	4.2	3.5	2.5	0.0	0.0	0.0	0.0	4.4	HHMM
L	0.0	0.0	0.0	5.8	7.9	29.3	0.0	0.0	0.0	0.0	4.6	RE
MLT	0.0	0.0	0.0	20.8	21.2	22.9	0.0	0.0	0.0	0.0	20.3	
MLAT	0.00	0.00	0.00	33.41	49.82	74.12	0.00	0.00	0.00	0.00	7.98	HRS
INVLAT	0.0	0.0	0.0	65.6	69.2	79.3	0.0	0.0	0.0	0.0	62.2	DEGS



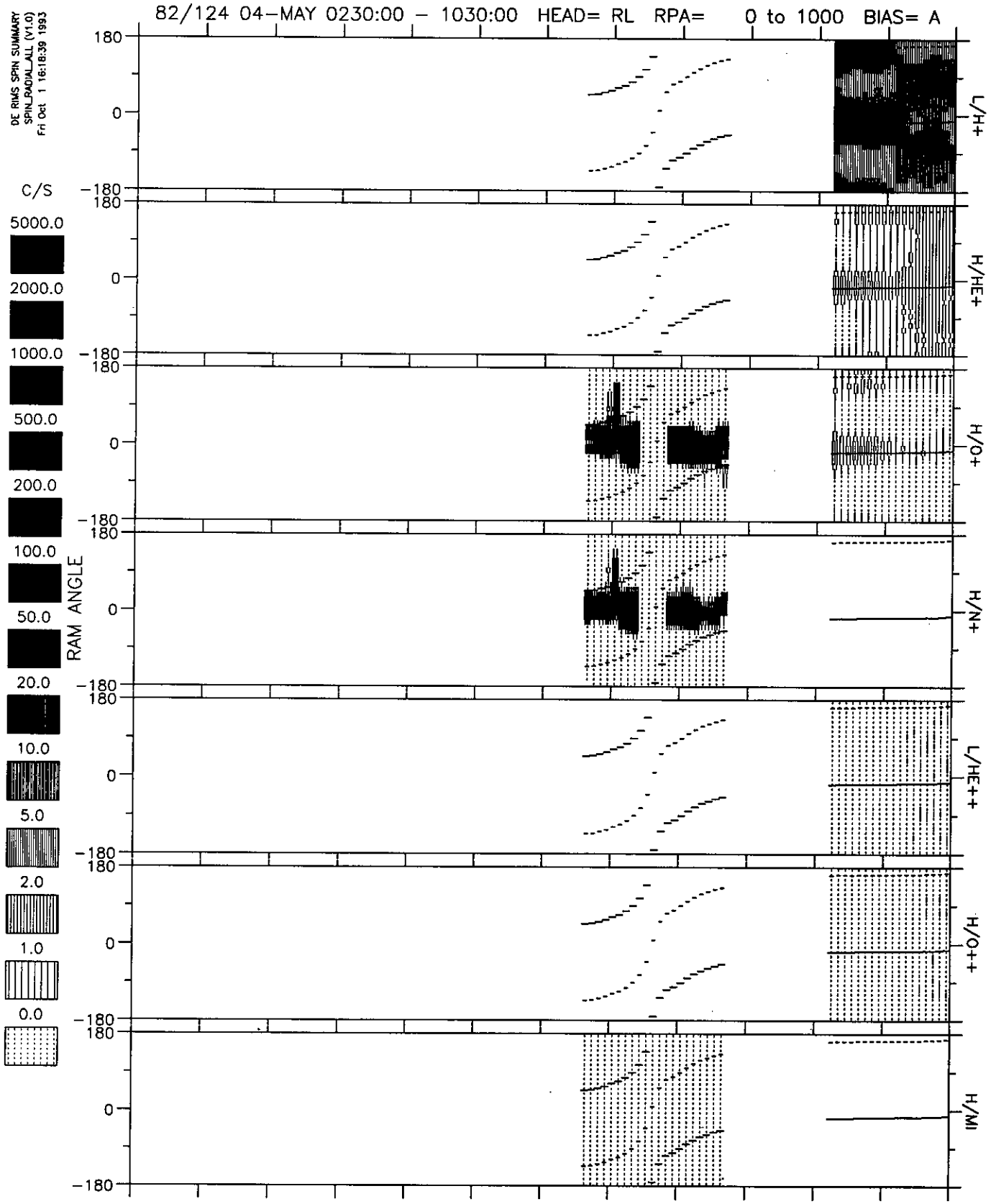
TIME	2355	0035	0000	0155	0235	0315	0000	0000	0000	0000	0000	DEGS
RE	4.5	4.7	0.0	4.3	3.7	2.7	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.7	5.3	0.0	7.6	10.8	38.3	0.0	0.0	0.0	0.0	0.0	RE
MLT	20.3	20.2	0.0	20.0	19.6	18.3	0.0	0.0	0.0	0.0	0.0	
MLAT	9.43	20.08	0.00	40.88	54.50	74.50	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.4	64.4	0.0	68.7	72.3	80.7	0.0	0.0	0.0	0.0	0.0	DEGS



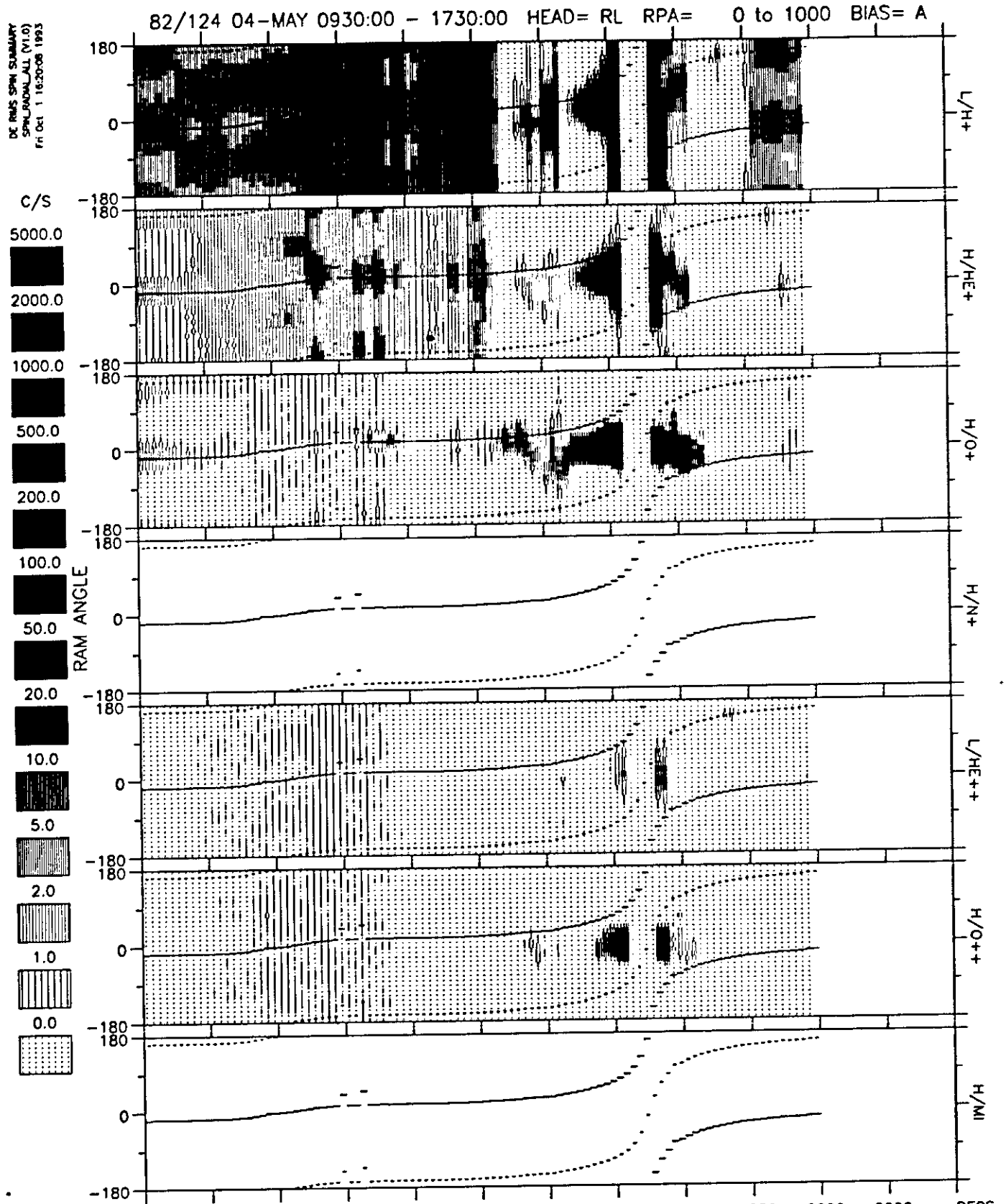
TIME	0000	0000	0000	0840	0920	1000	1040	1120	1200	1240	1320	DEGS
RE	0.0	0.0	0.0	4.3	3.8	2.9	1.5	1.5	2.8	3.7	4.3	HHMM
L	0.0	0.0	0.0	5.0	5.5	8.5	18.5	14.6	7.9	5.1	4.7	RE
MLT	0.0	0.0	0.0	19.6	19.4	19.2	9.3	7.0	19.9	19.8	19.8	
MLAT	0.00	0.00	0.00	22.52	34.45	53.54	76.00	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	63.5	64.8	70.0	76.5	74.8	69.1	63.7	62.4	DEGS



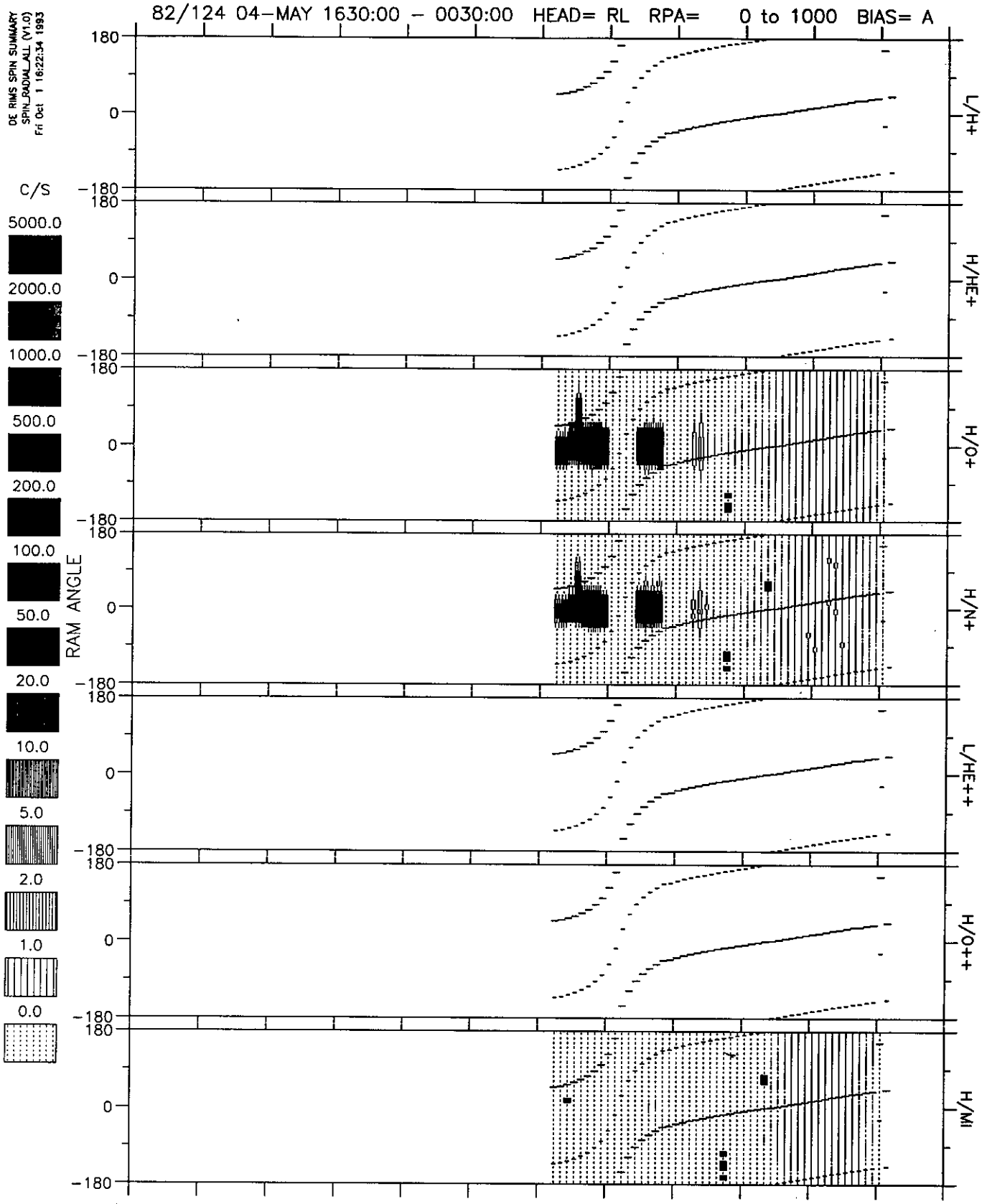
TIME	1340	1420	1500	0000	0000	0000	0000	1820	0000	0000	0000	DEGS
RE	4.5	4.7	4.6	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	HHMM
L	4.6	4.6	4.7	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	RE
MLT	19.8	19.9	20.1	0.0	0.0	0.0	0.0	17.6	0.0	0.0	0.0	
MLAT	•••••	-0.64	10.74	0.00	0.00	0.00	0.00	•••••	0.00	0.00	0.00	HRS
INVLAT	62.3	62.3	62.6	0.0	0.0	0.0	0.0	75.5	0.0	0.0	0.0	DEGS



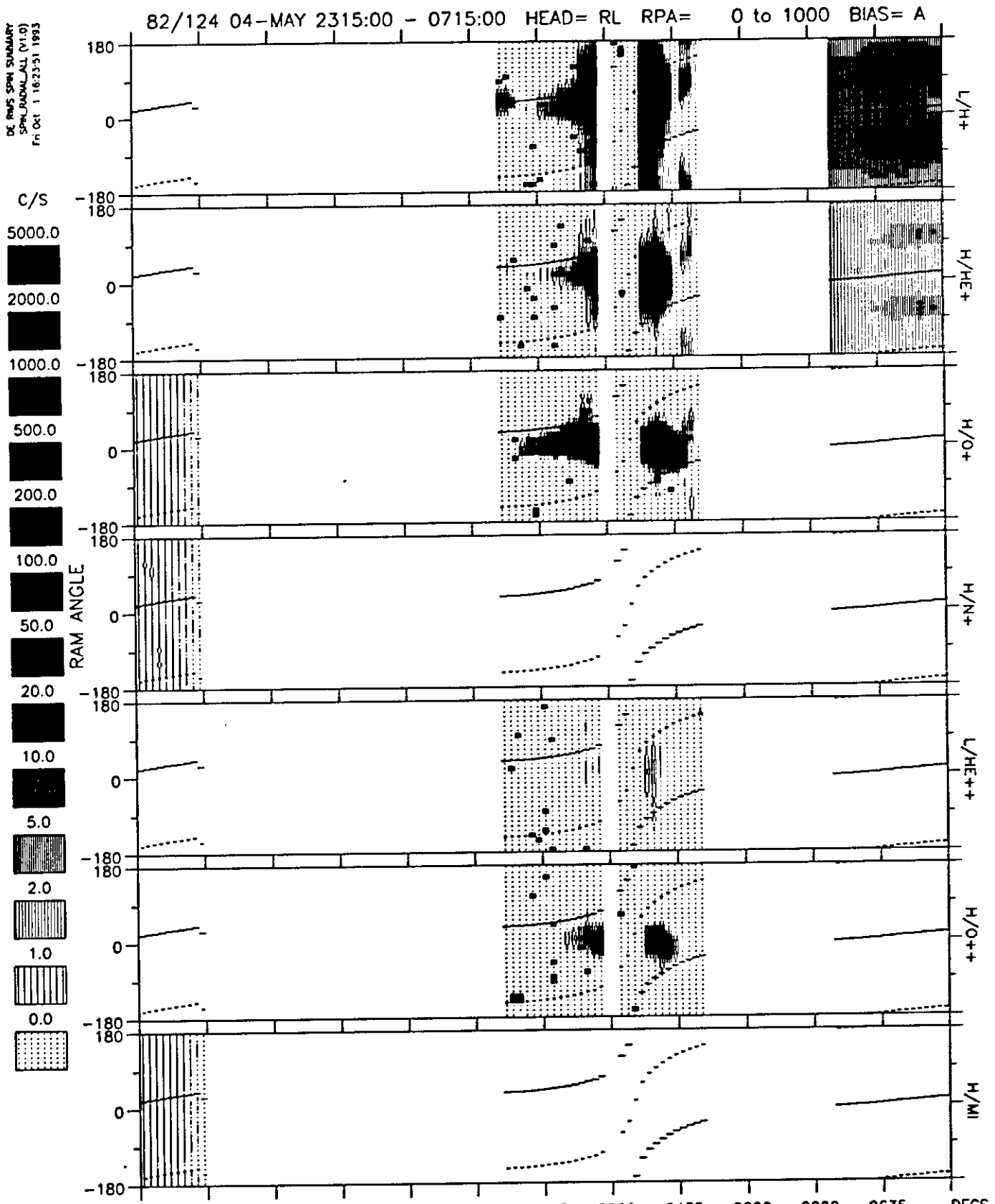
TIME	0000	0000	0000	0000	0000	0000	0710	0750	0000	0000	0950	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.4	0.0	0.0	4.3	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	13.5	11.0	0.0	0.0	4.6	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	10.2	5.5	0.0	0.0	19.9	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	70.46	*****	0.00	0.00	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	74.2	72.4	0.0	0.0	62.2	DEGS



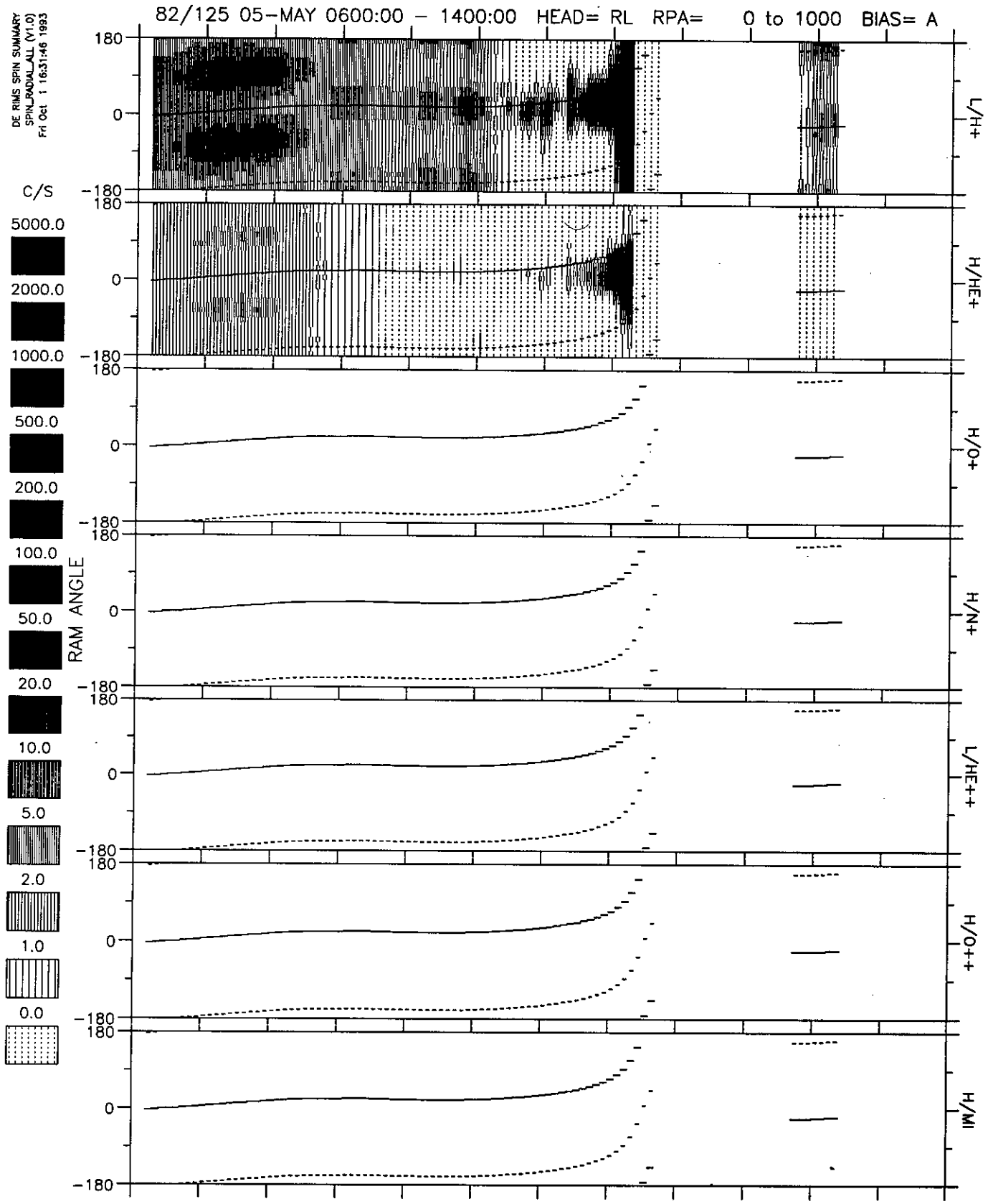
TIME	1010	1050	1130	1210	1250	1330	1410	1450	1530	0000	0000	DEGS
												HHMM
RE	4.5	4.7	4.6	4.3	3.6	2.6	1.3	1.7	3.0	0.0	0.0	RE
L	4.6	4.6	4.6	4.8	5.4	9.8	4.7	68.6	6.0	0.0	0.0	
MLT	19.8	19.8	19.7	19.7	19.8	20.1	7.3	14.5	19.4	0.0	0.0	
MLAT	*****	-1.55	8.17	19.24	33.65	56.88	57.53	*****	*****	0.00	0.00	HRS
INVLAT	62.2	62.2	62.3	62.8	64.4	71.3	62.6	83.1	66.0	0.0	0.0	DEGS



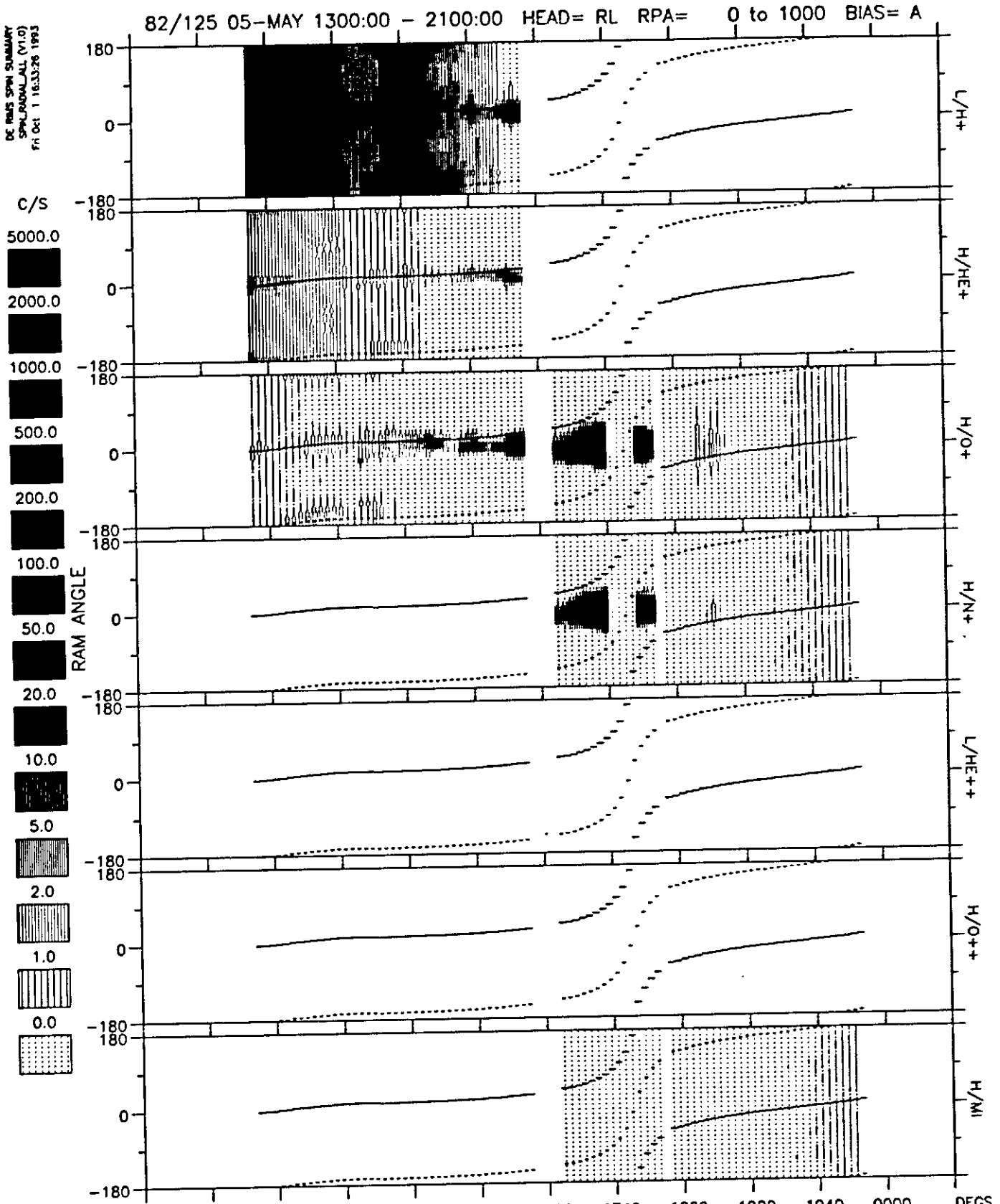
TIME	0000	0000	0000	0000	0000	0000	2110	2150	2230	2310	2350	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	3.2	4.0	4.5	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.2	3.9	4.1	4.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	8.1	19.4	20.0	20.1	20.1	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	3.10	*****	*****	-4.09	8.81	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	14.0	66.3	59.4	60.4	62.4	DEGS



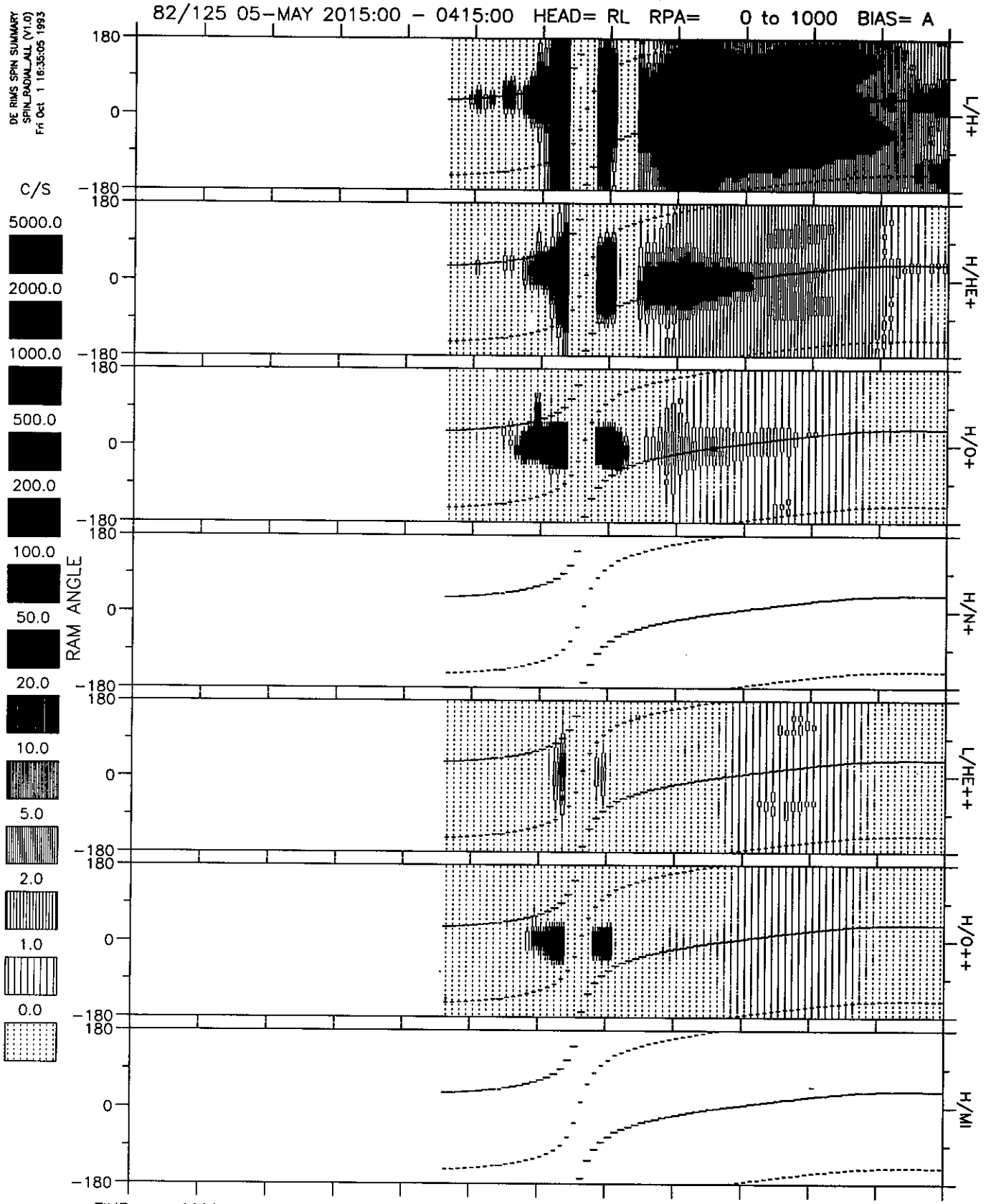
TIME	0000	0000	0000	0000	0000	0315	0000	0435	0000	0000	0635	DEGS
RE	0.0	0.0	0.0	0.0	0.0	2.5	0.0	1.9	0.0	0.0	4.4	HHMM
L	0.0	0.0	0.0	0.0	0.0	53.2	0.0	10.9	0.0	0.0	4.4	RE
MLT	0.0	0.0	0.0	0.0	0.0	17.6	0.0	21.6	0.0	0.0	19.9	
MLAT	0.00	0.00	0.00	0.00	0.00	77.06	0.00	•••••	0.00	0.00	-4.46	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	82.1	0.0	72.4	0.0	0.0	61.6	DEGS



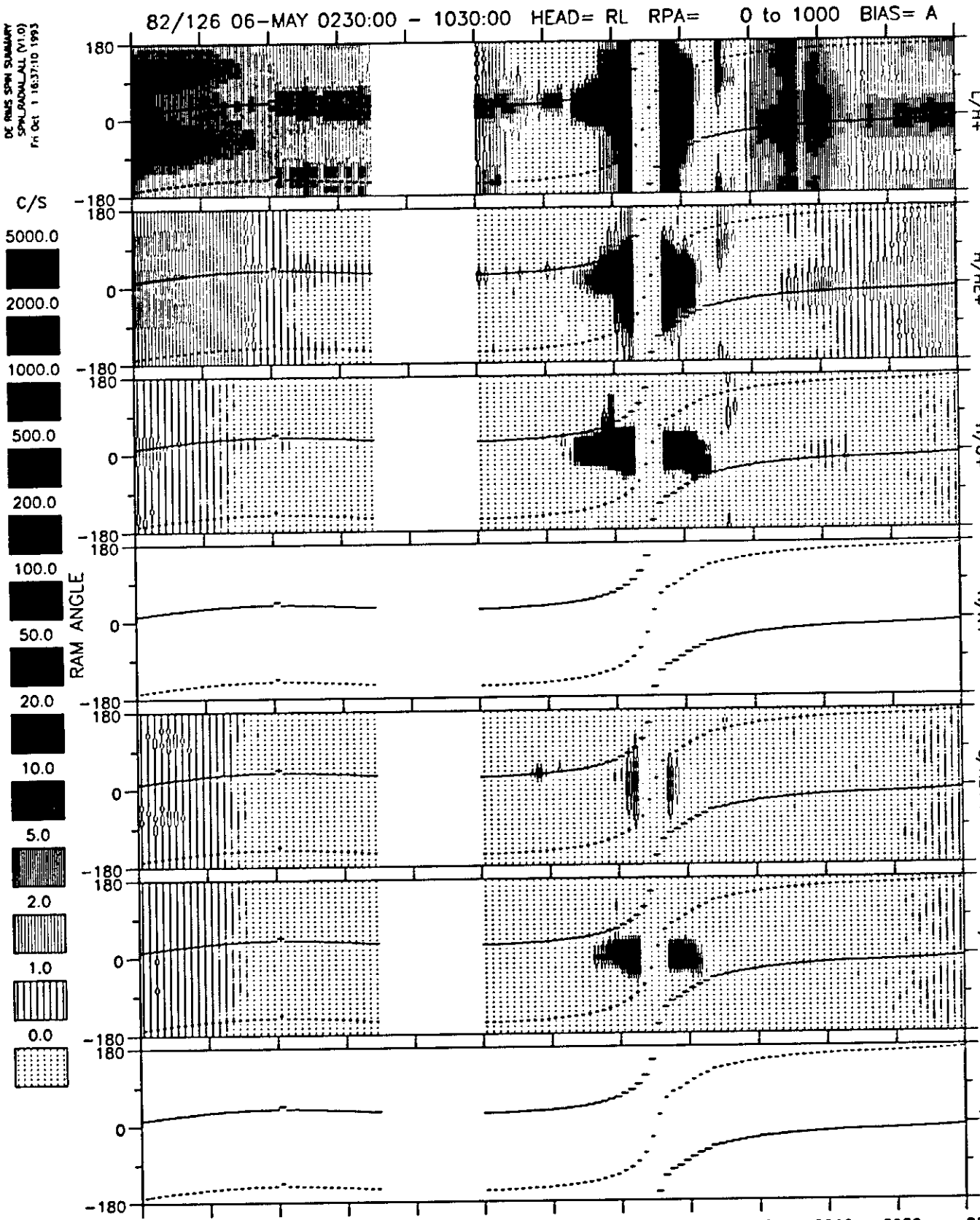
TIME	0640	0720	0800	0840	0920	1000	1040	0000	0000	1240	0000	DEGS
RE	4.5	4.7	4.6	4.3	3.7	2.7	1.4	0.0	0.0	3.8	0.0	HHMM
L	4.4	4.7	4.8	5.0	5.5	9.4	5.9	0.0	0.0	5.1	0.0	RE
MLT	19.9	19.7	19.6	19.5	19.3	19.0	8.4	0.0	0.0	19.7	0.0	
MLAT	-3.29	5.24	13.60	23.04	35.55	56.29	64.20	0.00	0.00	*****	0.00	HRS
INVLAT	61.7	62.4	62.8	63.4	64.9	71.0	65.8	0.0	0.0	63.6	0.0	DEGS



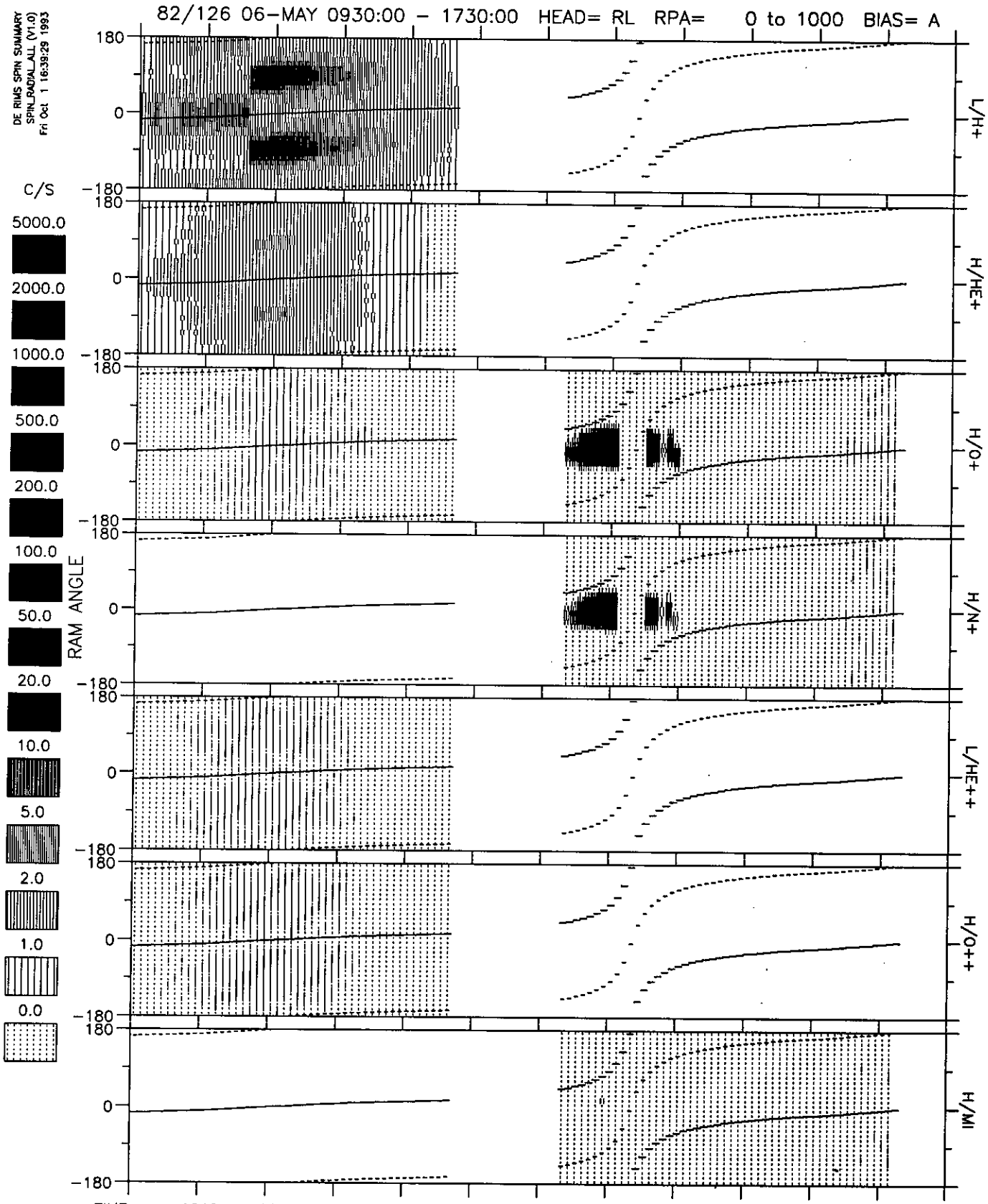
TIME	0000	1420	1500	1540	1620	0000	1740	1820	1900	1940	0000	DEGS
RE	0.0	4.7	4.6	4.2	3.5	0.0	1.1	2.0	3.2	4.0	0.0	HHMM
L	0.0	4.6	4.7	5.1	6.2	0.0	1.3	11.3	4.6	4.3	0.0	RE
MLT	0.0	19.8	19.9	20.2	20.5	0.0	7.7	18.2	19.6	19.9	0.0	
MLAT	0.00	0.16	11.65	24.57	41.06	0.00	22.63	*****	*****	*****	0.00	HRS
INVLAT	0.0	62.3	62.7	63.6	66.2	0.0	28.8	72.7	62.2	61.2	0.0	DEGS



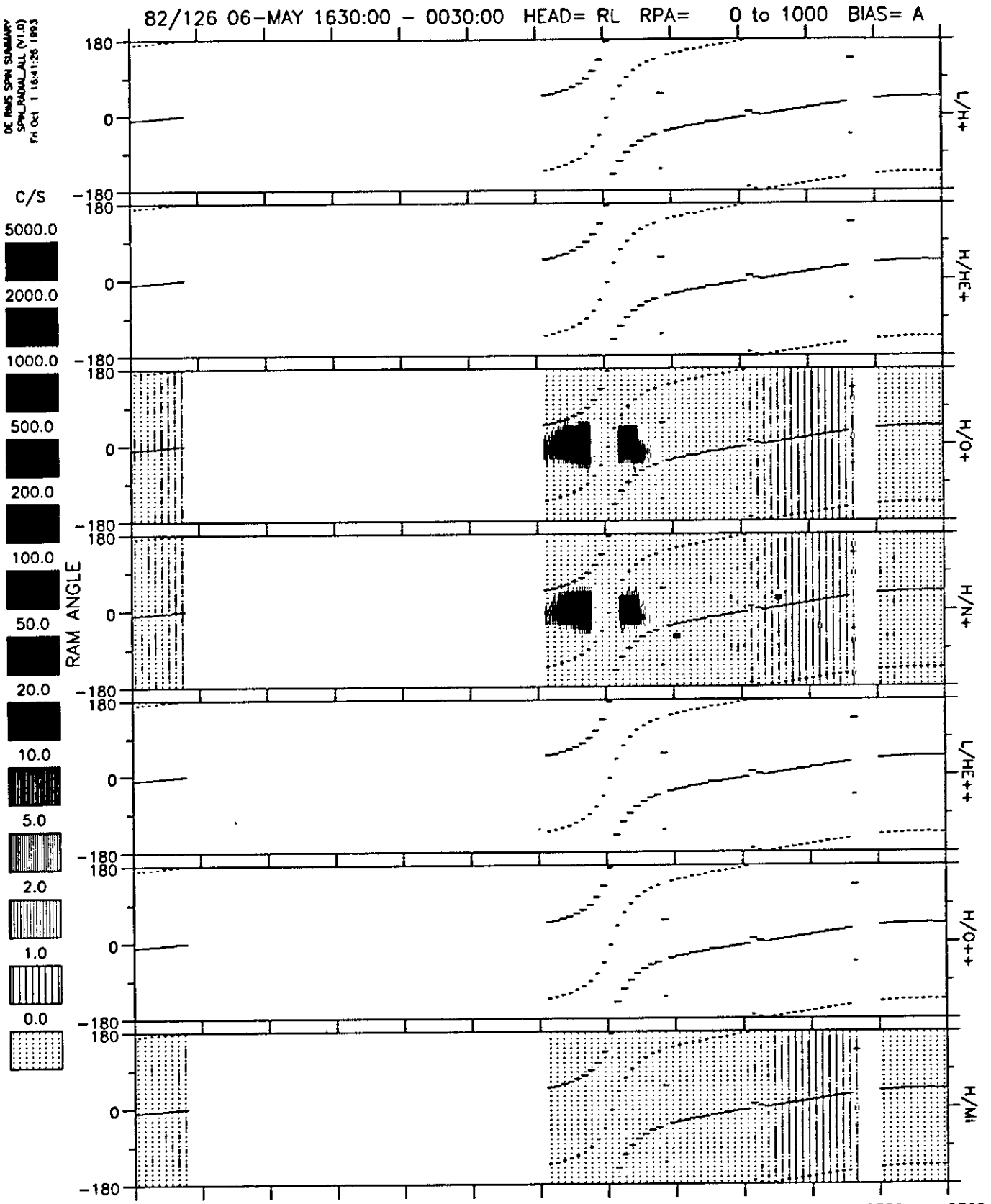
TIME	0000	0000	0000	0000	2335	0015	0055	0135	0215	0255	0335	DEGS
RE	0.0	0.0	0.0	0.0	2.9	1.6	1.4	2.8	3.7	4.3	4.6	HHMM
L	0.0	0.0	0.0	0.0	26.7	7.7	100.0	3.9	3.9	4.3	4.8	RE
MLT	0.0	0.0	0.0	0.0	20.6	8.0	6.7	20.2	20.1	20.0	19.9	
MLAT	0.00	0.00	0.00	0.00	72.23	59.76	*****	*****	*****	1.02	10.82	HRS
INVLAT	0.0	0.0	0.0	0.0	78.8	68.8	85.8	59.4	59.4	61.2	62.8	DEGS



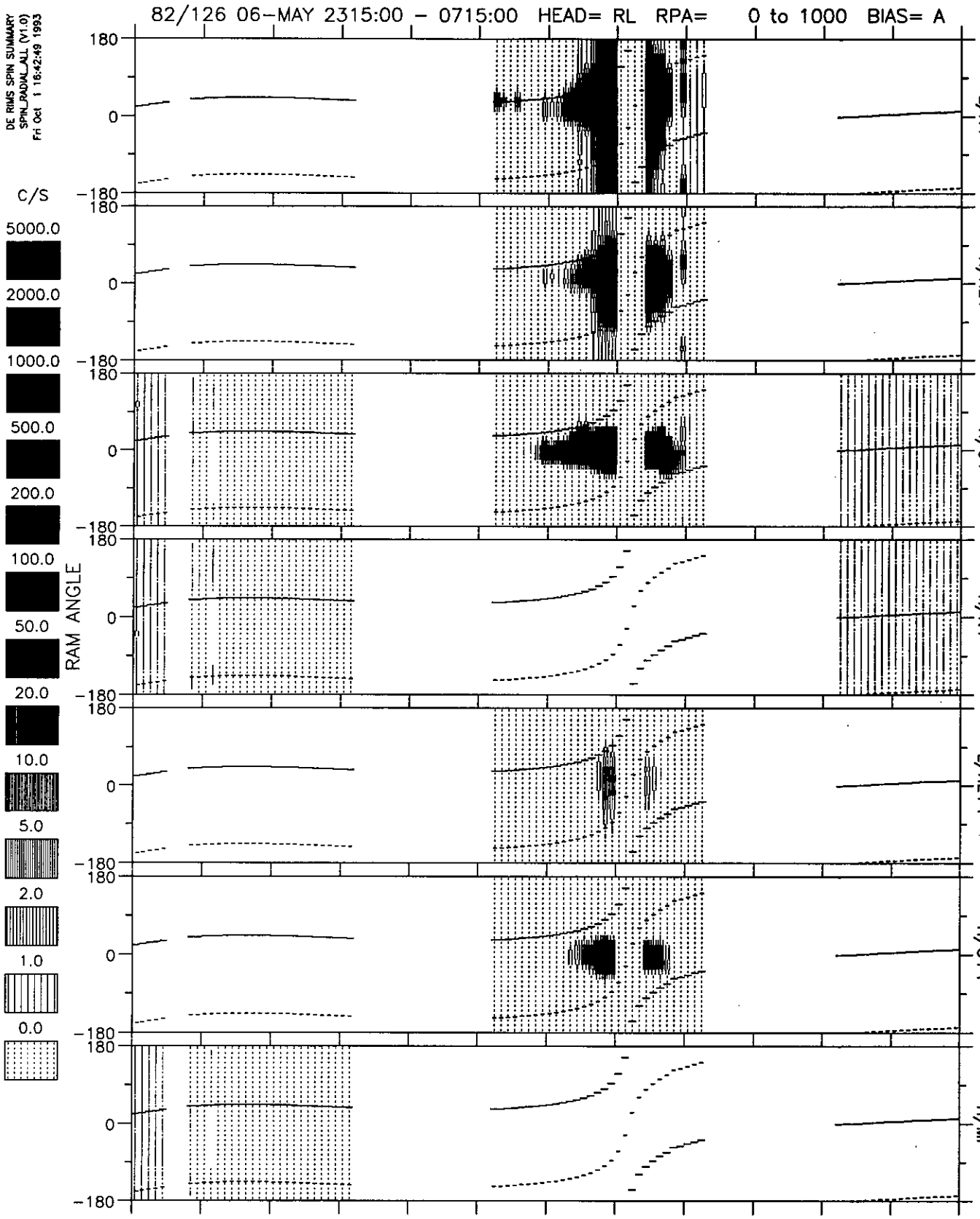
TIME	0310	0350	0430	0000	0550	0630	0710	0750	0830	0910	0950	DEGS
RE	4.4	4.7	4.6	0.0	3.7	2.8	1.4	1.6	2.9	3.8	4.3	HHMM
L	4.5	4.9	5.4	0.0	6.9	12.1	5.4	29.9	6.2	4.8	4.6	RE
MLT	19.9	19.8	19.6	0.0	19.1	18.4	9.2	2.9	20.4	19.9	19.8	
MLAT	4.94	14.14	22.67	0.00	43.34	60.80	60.95	*****	*****	*****	*****	HRS
INVLAT	61.9	63.3	64.5	0.0	67.7	73.3	64.5	79.5	66.3	62.9	62.3	DEGS



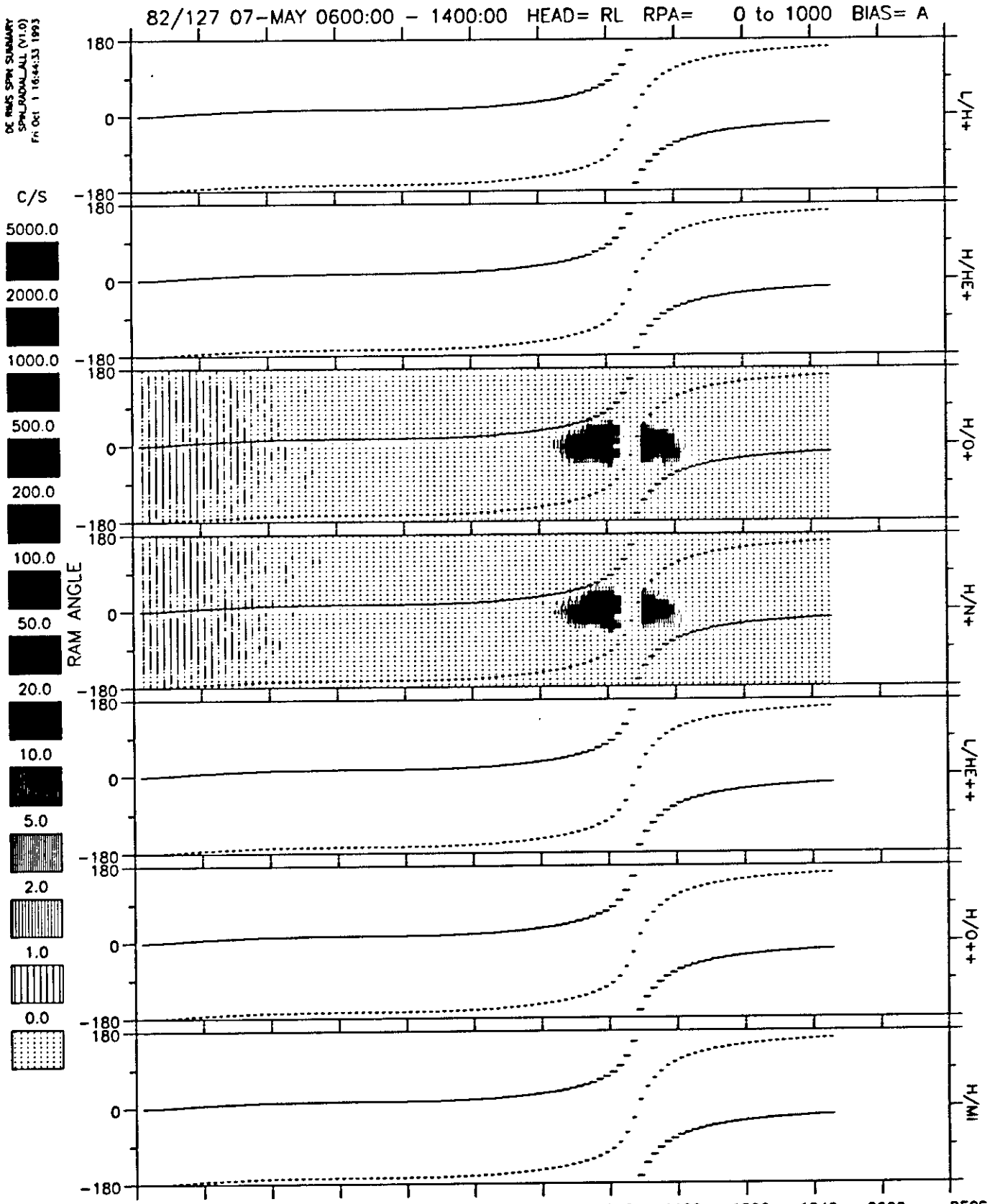
TIME	1010	1050	1130	1210	0000	0000	1410	1450	1530	1610	1650	DEGS
RE	4.5	4.7	4.6	4.2	0.0	0.0	1.2	1.9	3.1	3.9	4.4	HHMM
L	4.6	4.6	4.6	4.8	0.0	0.0	2.0	42.6	5.8	4.7	4.6	RE
MLT	19.7	19.6	19.6	19.6	0.0	0.0	7.4	17.2	19.3	19.6	19.8	
MLAT	*****	-1.08	8.75	20.13	0.00	0.00	39.66	*****	*****	*****	-8.63	HRS
INVLAT	62.2	62.2	62.3	62.7	0.0	0.0	45.2	81.2	65.4	62.5	62.1	DEGS



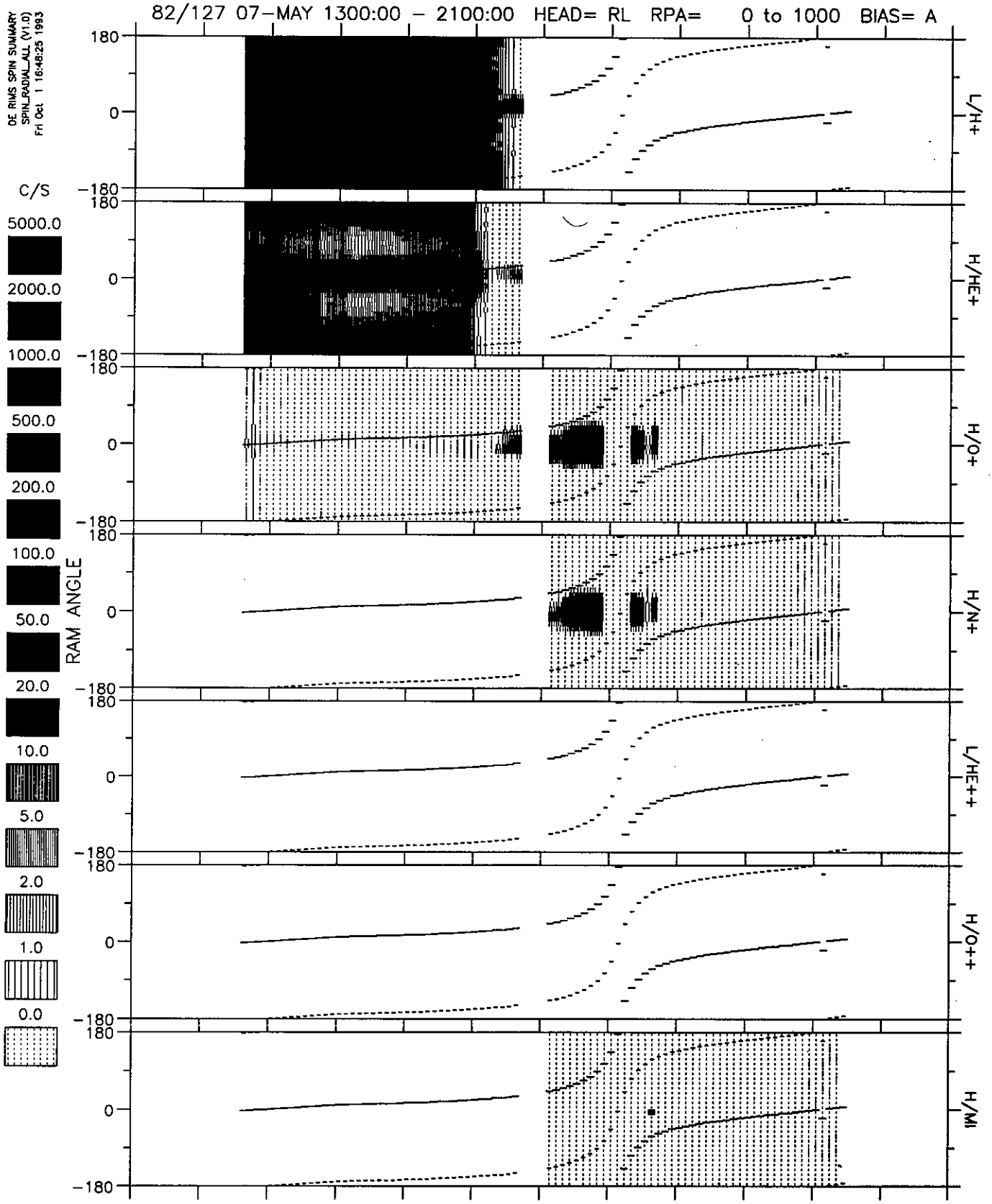
TIME	0000	0000	0000	0000	0000	0000	2110	2150	2230	2310	2350	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	3.3	4.1	4.5	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	1.2	5.3	3.9	4.2	4.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	8.3	19.5	19.9	20.0	20.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	•••••	•••••	•••••	-2.95	9.60	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	23.7	64.4	59.5	60.7	62.6	DEGS



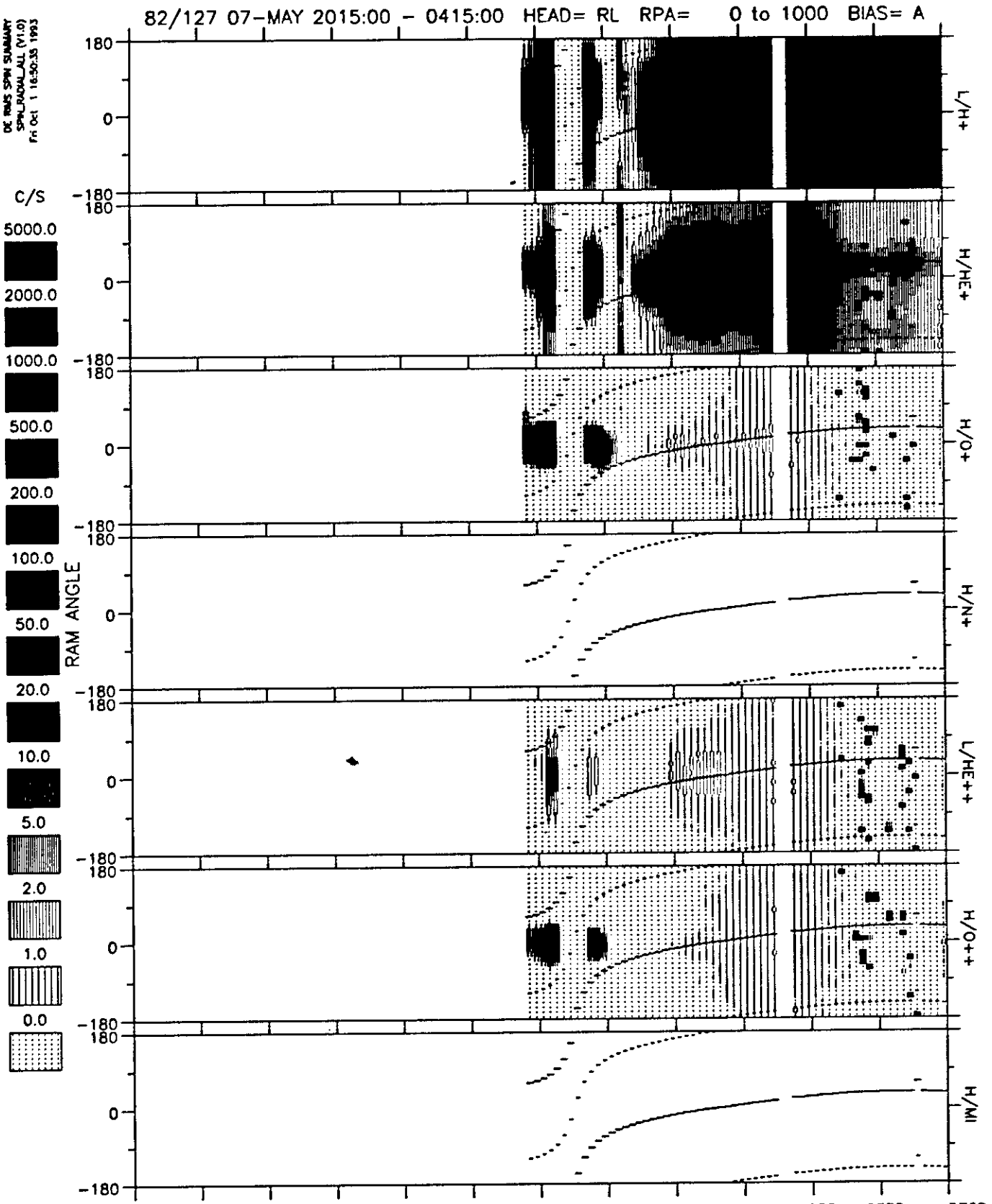
TIME	2355	0035	0115	0000	0000	0315	0355	0435	0000	0000	0635	DEGS
RE	4.5	4.7	4.5	0.0	0.0	2.4	1.1	2.0	0.0	0.0	4.5	HHMM
L	4.8	5.5	6.3	0.0	0.0	85.2	1.1	8.1	0.0	0.0	4.5	RE
MLT	20.0	20.0	19.9	0.0	0.0	16.6	8.0	21.1	0.0	0.0	19.8	
MLAT	10.99	21.56	31.76	0.00	0.00	79.70	7.55	*****	0.00	0.00	-4.09	HRS
INVLAT	62.8	64.7	66.6	0.0	0.0	83.8	15.6	69.5	0.0	0.0	61.7	DEGS



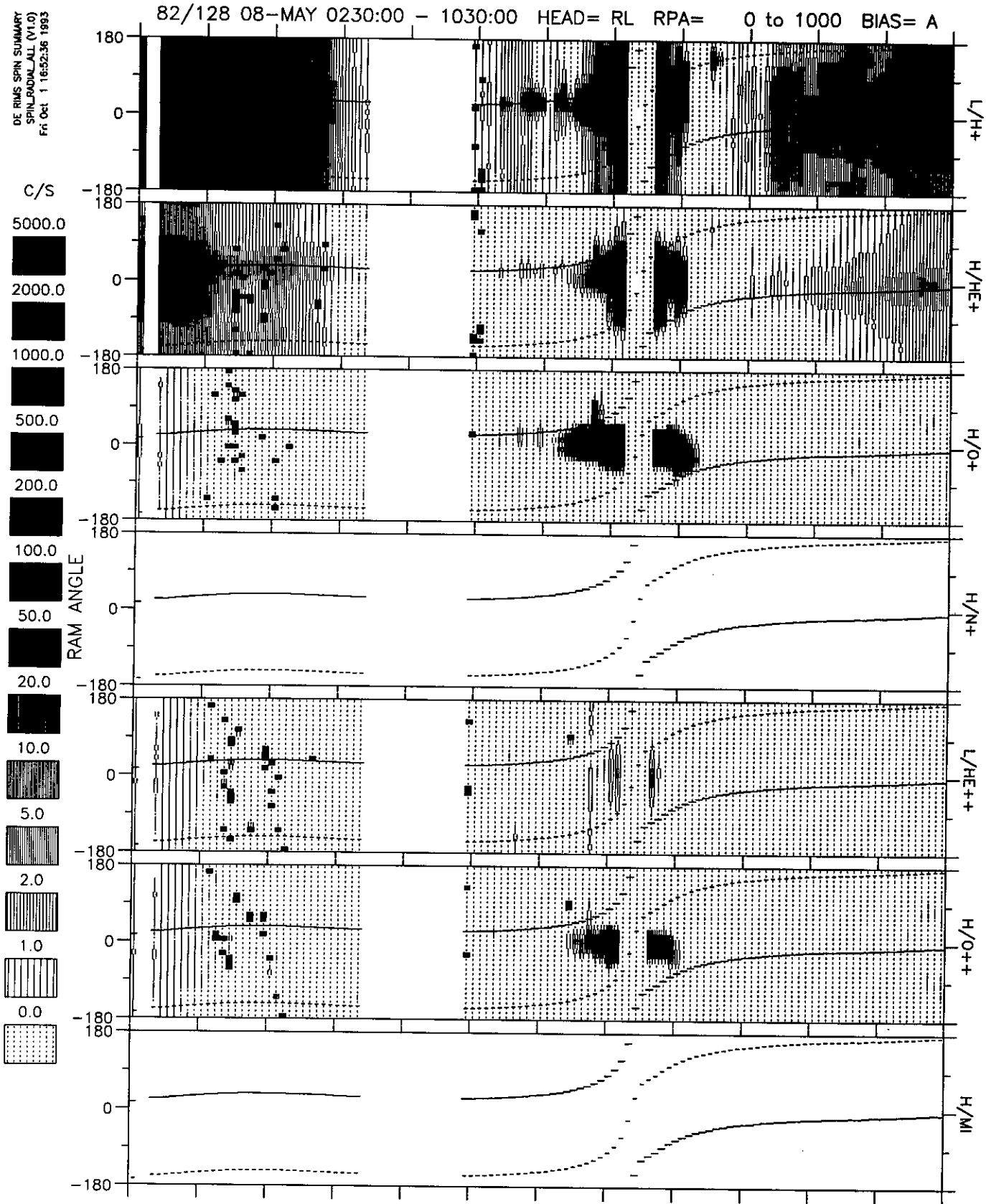
TIME	0640	0720	0800	0840	0920	1000	1040	1120	1200	1240	0000	DEGS
RE	4.5	4.7	4.6	4.2	3.6	2.6	1.2	1.8	3.1	3.9	0.0	HHMM
L	4.5	4.7	4.8	5.0	5.6	10.8	2.5	100.0	6.8	5.0	0.0	RE
MLT	19.8	19.6	19.5	19.3	19.2	18.8	7.9	22.1	19.6	19.5	0.0	
MLAT	-2.98	5.47	13.89	23.60	36.74	59.40	48.44	*****	*****	*****	0.00	HRS
INVLAT	61.8	62.4	62.8	63.3	65.0	72.3	50.9	88.5	67.5	63.5	0.0	DEGS



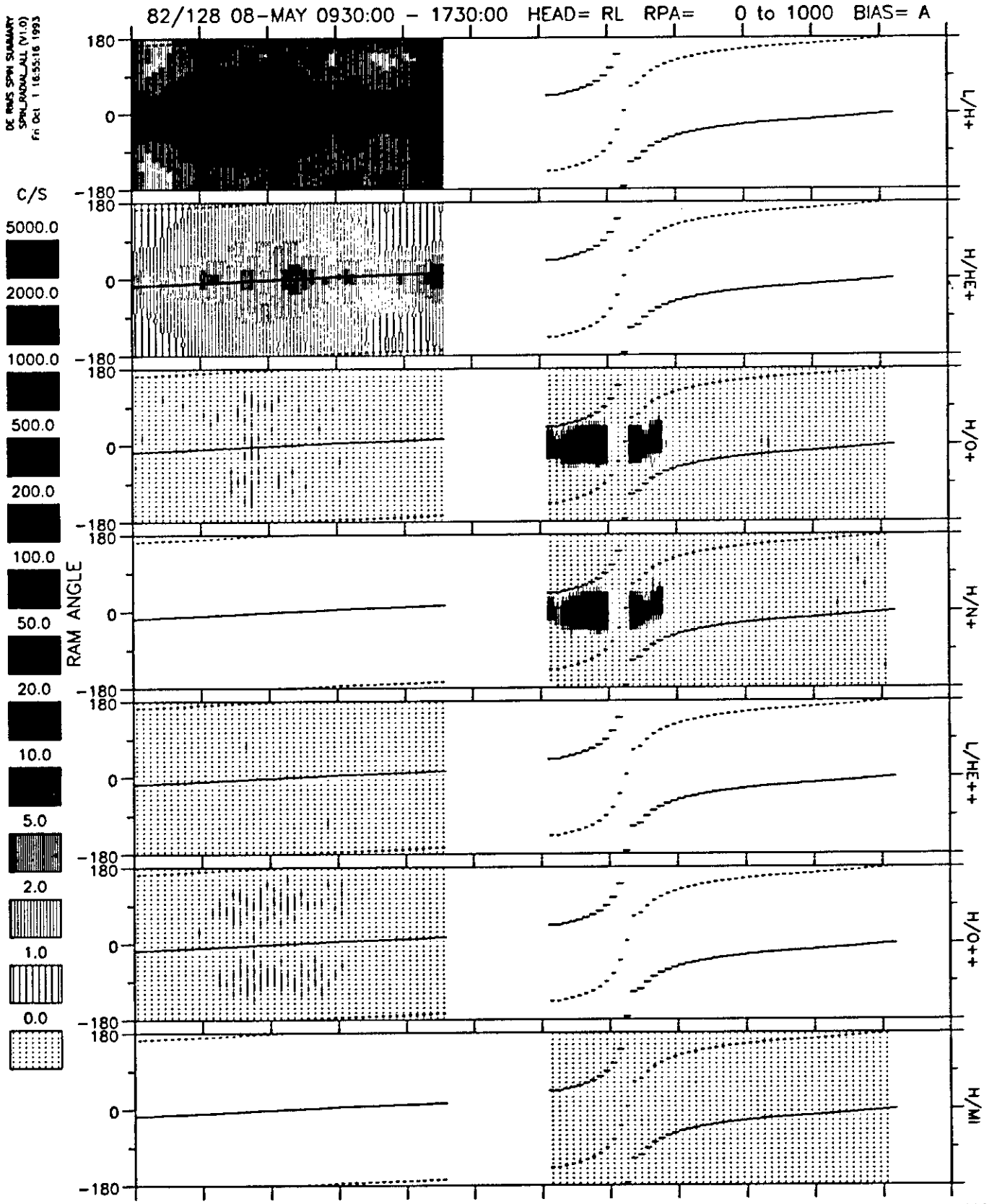
TIME	0000	1420	1500	1540	1620	0000	1740	1820	1900	1940	0000	DEGS
RE	0.0	4.7	4.5	4.1	3.4	0.0	1.1	2.2	3.3	4.1	0.0	HHMM
L	0.0	4.6	4.7	5.1	6.3	0.0	1.0	8.8	4.5	4.3	0.0	RE
MLT	0.0	19.7	19.8	20.0	20.4	0.0	7.9	18.5	19.5	19.8	0.0	
MLAT	0.00	0.97	12.59	25.83	43.05	0.00	0.03	*****	*****	*****	0.00	HRS
INVLAT	0.0	62.3	62.7	63.6	66.6	0.0	13.0	70.3	62.0	61.3	0.0	DEGS



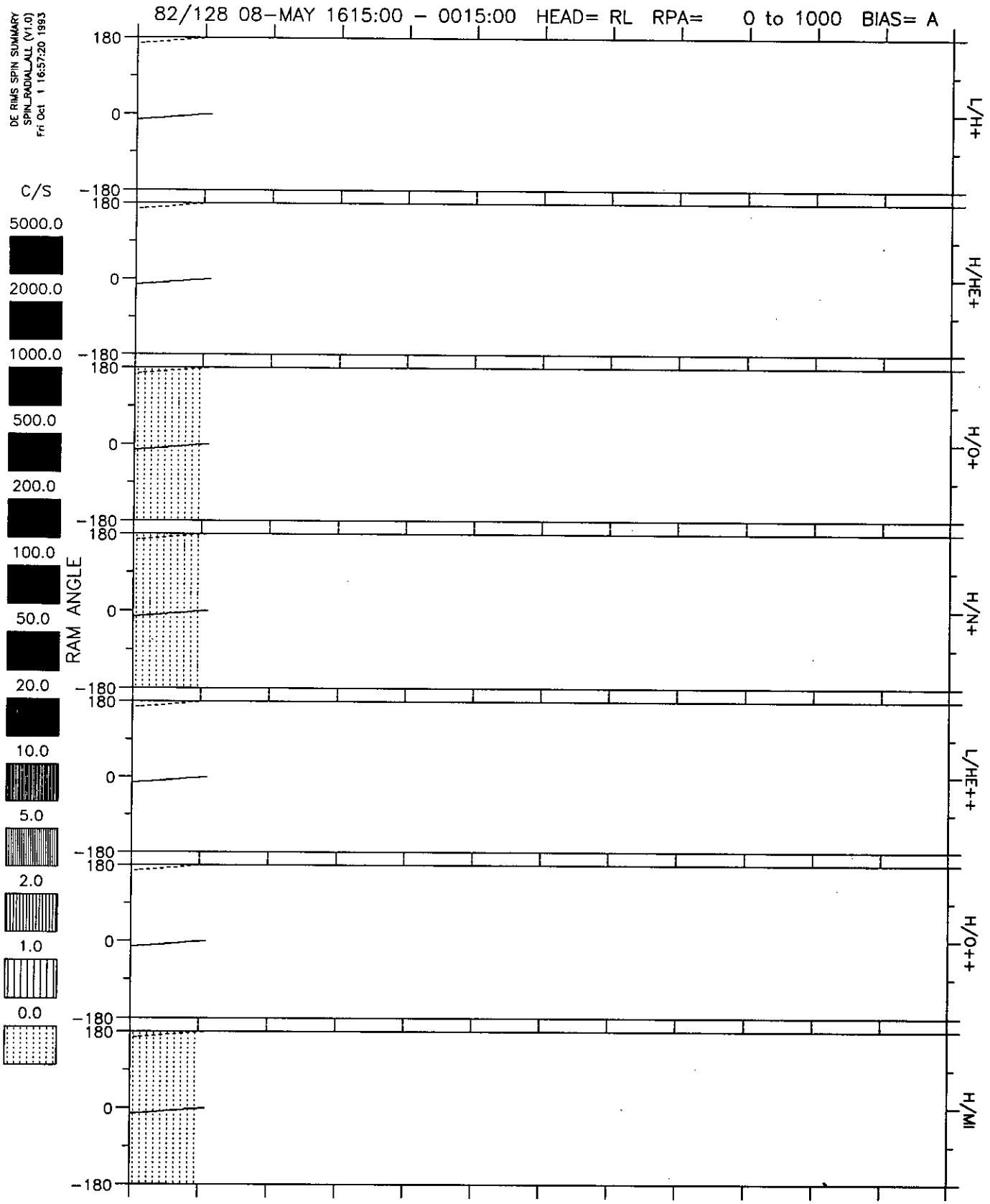
TIME	0000	0000	0000	0000	0000	0015	0055	0135	0215	0255	0335	DEGS
RE	0.0	0.0	0.0	0.0	0.0	1.4	1.6	2.9	3.8	4.4	4.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	3.6	21.2	3.8	3.9	4.4	4.8	RE
MLT	0.0	0.0	0.0	0.0	0.0	7.9	20.5	20.0	19.9	19.8	19.7	
MLAT	0.00	0.00	0.00	0.00	0.00	47.75	*****	*****	*****	1.63	11.19	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	58.3	77.5	59.3	59.8	61.4	62.9	DEGS



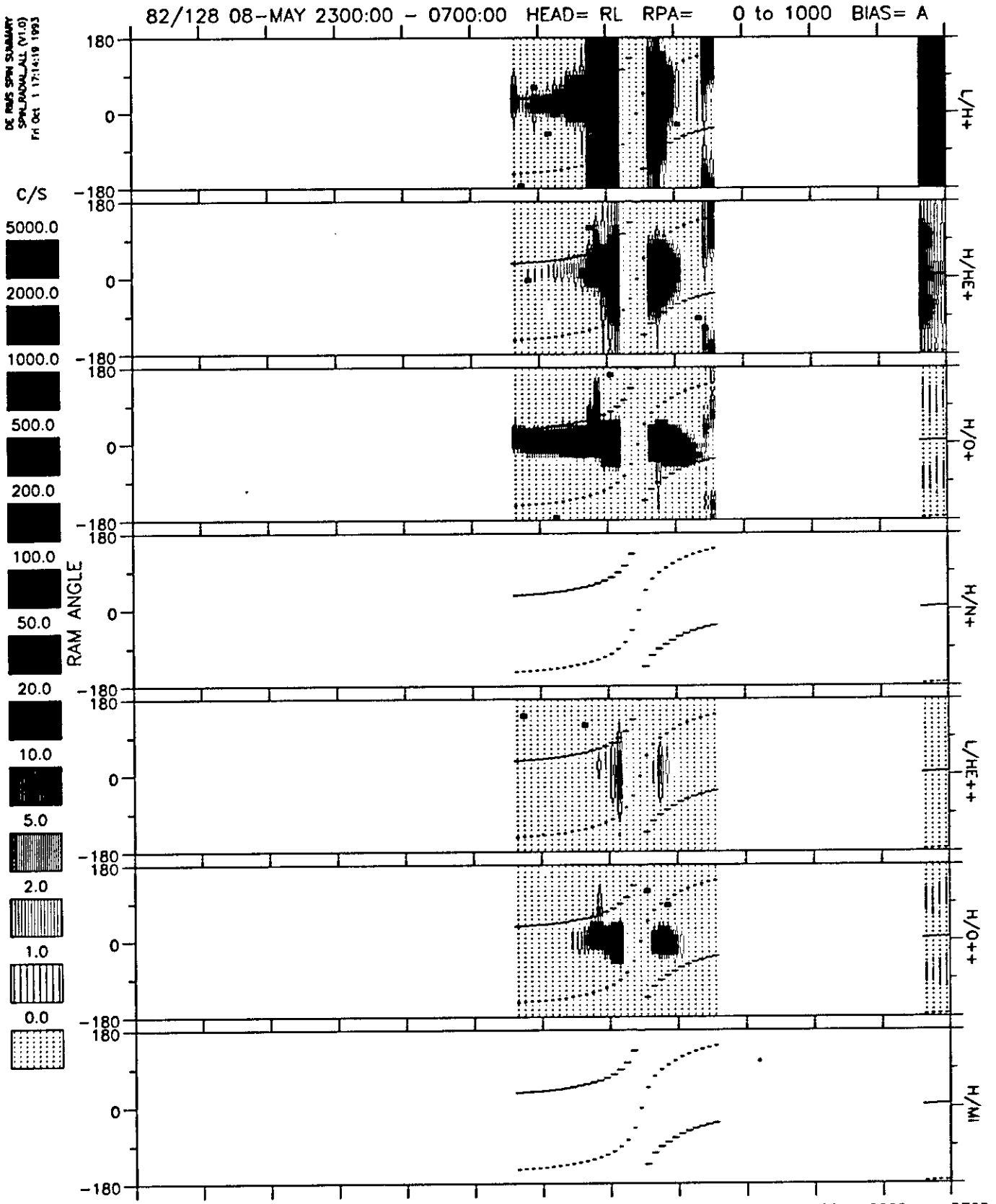
TIME	0310	0350	0430	0000	0550	0630	0710	0750	0830	0910	0950	DEGS
RE	4.5	4.7	4.6	0.0	3.6	2.6	1.3	1.8	3.0	3.9	4.4	HHMM
L	4.5	5.0	5.4	0.0	7.0	14.5	2.5	41.7	6.0	4.8	4.7	RE
MLT	19.8	19.6	19.5	0.0	18.9	18.0	8.5	21.2	20.2	19.8	19.6	
MLAT	5.40	14.43	22.96	0.00	44.31	64.22	47.86	*****	*****	*****	*****	HRS
INVLAT	62.0	63.3	64.4	0.0	67.7	74.8	50.5	81.1	65.9	63.0	62.4	DEGS



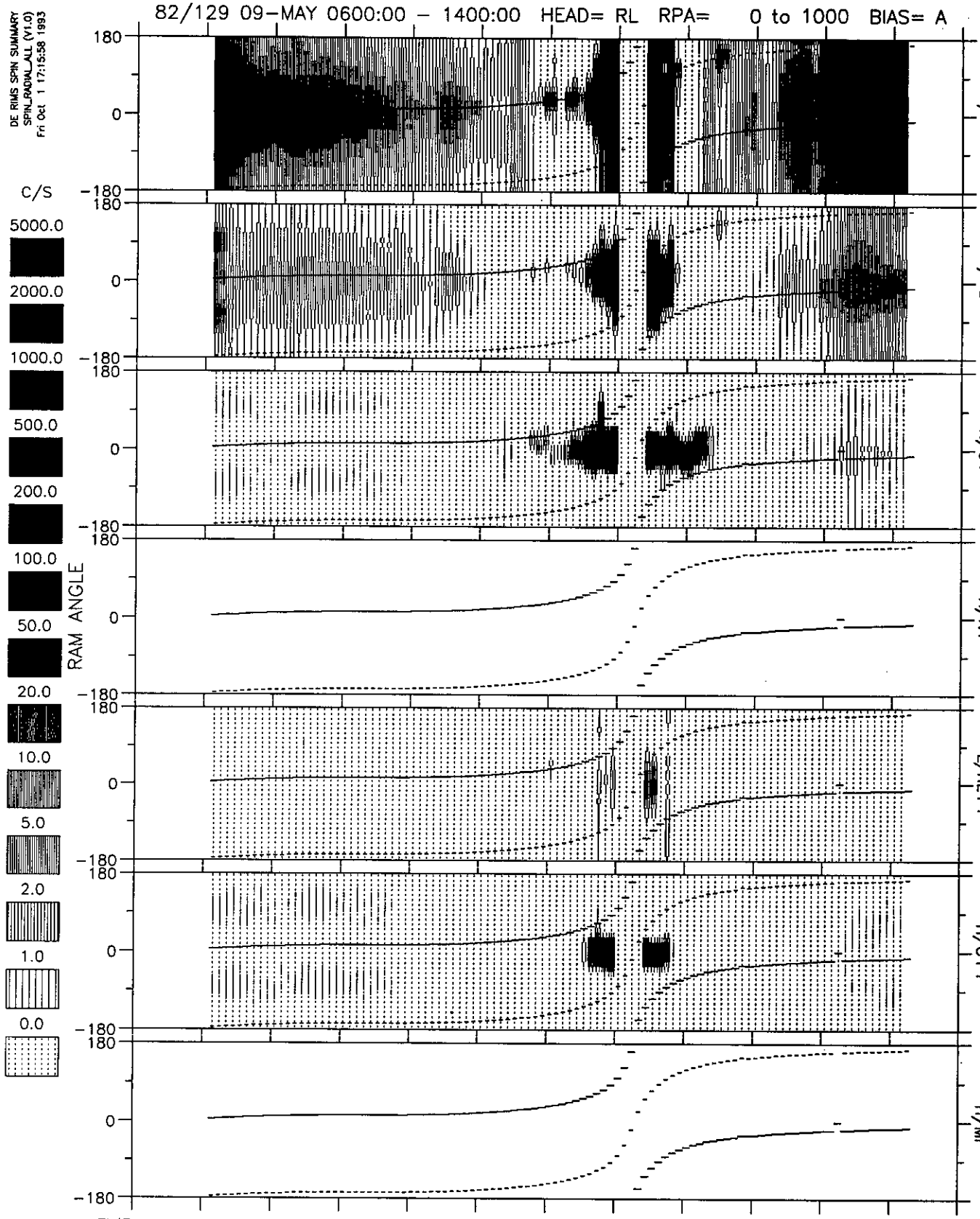
TIME	1010	1050	1130	1210	0000	0000	1410	1450	1530	1610	1650	DEGS
RE	4.6	4.7	4.5	4.1	0.0	0.0	1.1	2.1	3.2	4.0	4.5	HHMM
L	4.6	4.6	4.6	4.8	0.0	0.0	1.2	23.4	5.6	4.7	4.6	RE
MLT	19.5	19.5	19.4	19.5	0.0	0.0	7.4	18.0	19.2	19.5	19.7	
MLAT	•••••	-0.62	9.35	21.06	0.00	0.00	18.31	•••••	•••••	•••••	-7.54	HRS
INVLAT	62.3	62.2	62.3	62.7	0.0	0.0	24.5	78.1	65.0	62.5	62.2	DEGS



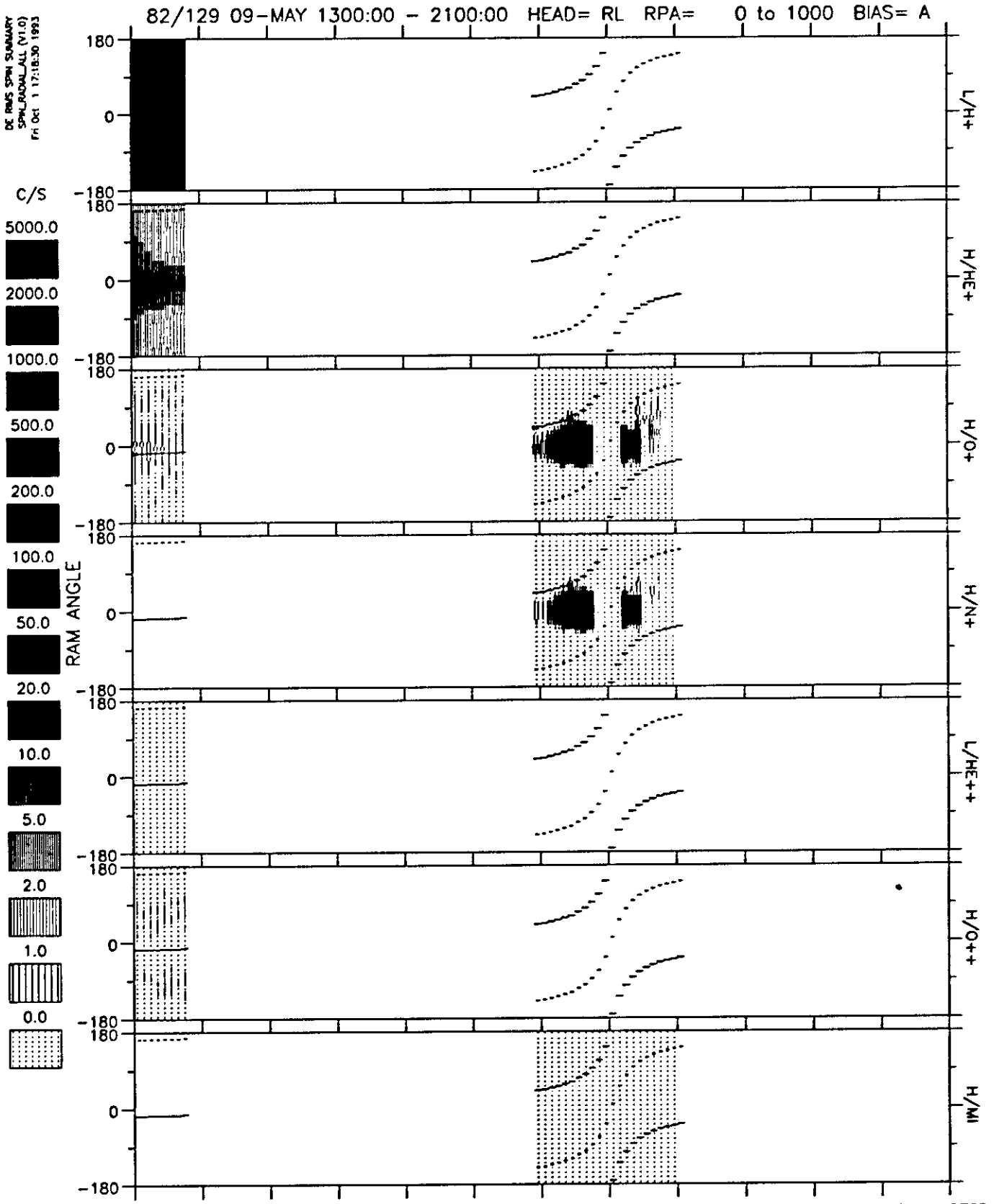
TIME	1655	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	-7.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



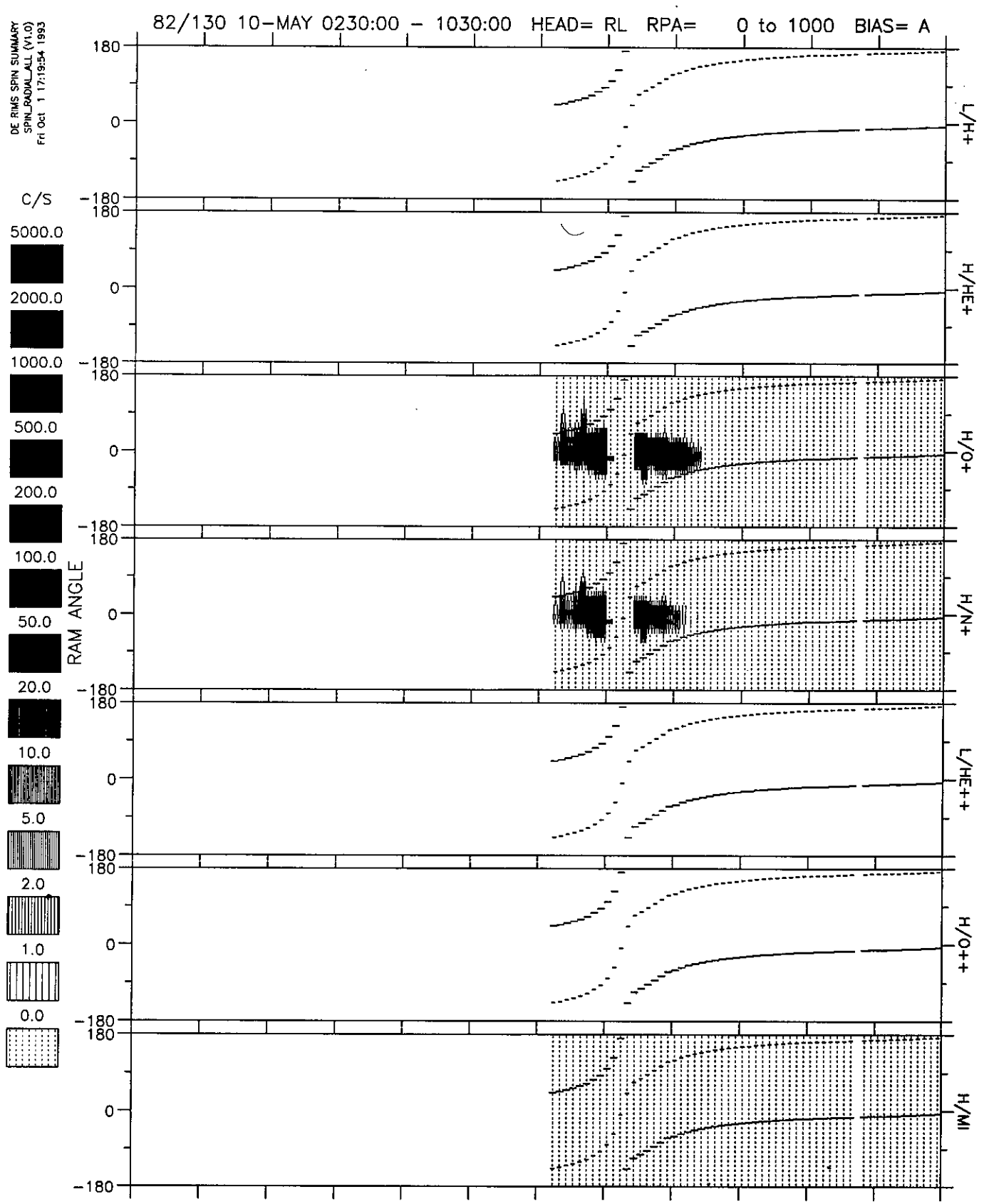
TIME	0000	0000	0000	0000	0000	0300	0340	0420	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	2.7	1.4	1.7	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	29.5	3.0	20.1	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	18.1	8.4	22.4	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	72.29	45.46	*****	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	79.4	54.4	77.1	0.0	0.0	0.0	DEGS



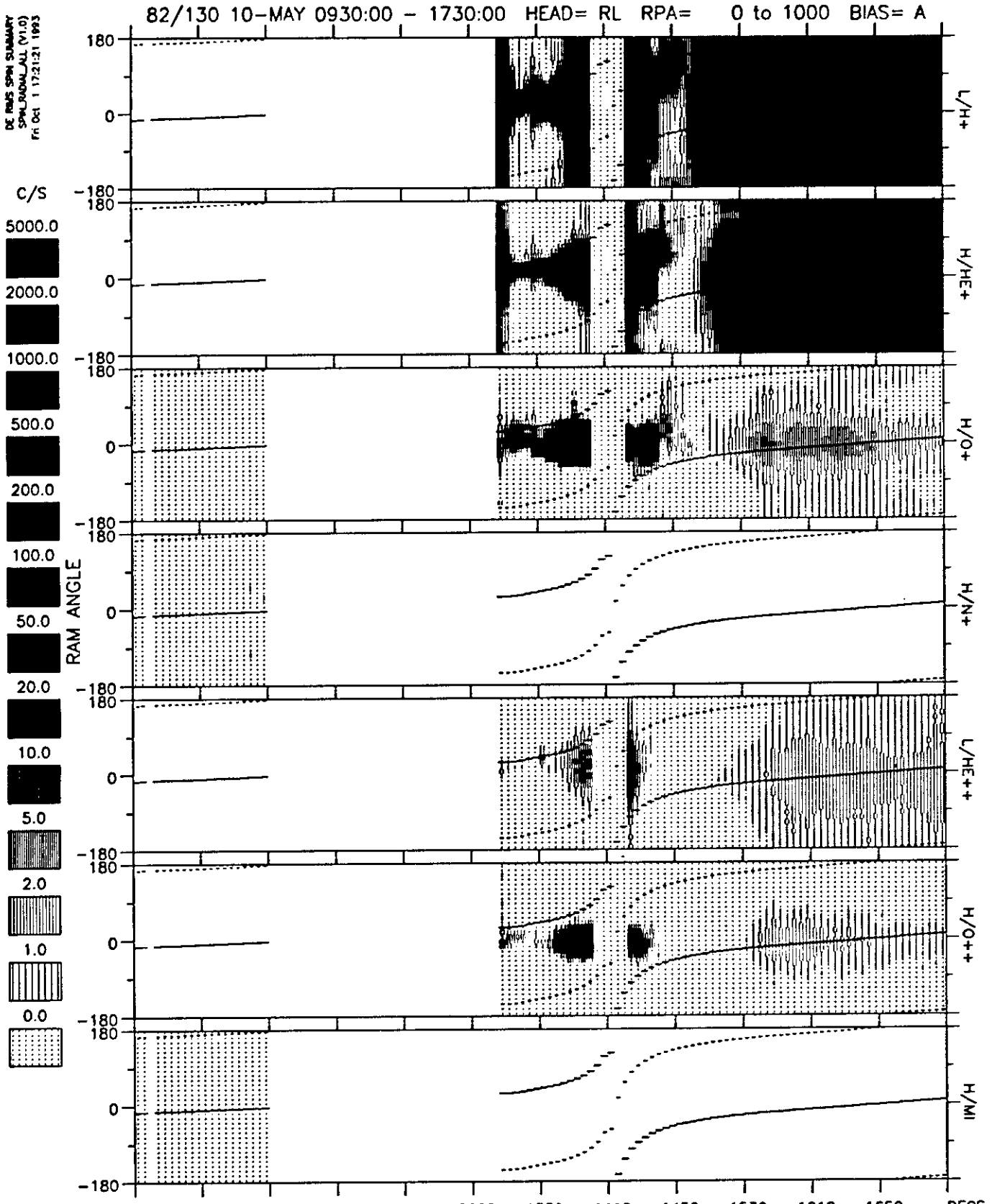
TIME	0000	0720	0800	0840	0920	1000	1040	1120	1200	1240	1320	DEGS
RE	0.0	4.7	4.5	4.2	3.5	2.4	1.1	2.0	3.2	4.0	4.5	HHMM
L	0.0	4.7	4.8	4.9	5.7	13.4	1.4	89.8	6.5	5.0	4.7	RE
MLT	0.0	19.5	19.3	19.2	19.0	18.6	7.6	20.2	19.4	19.4	19.4	
MLAT	0.00	5.73	14.25	24.26	38.14	63.19	28.64	*****	*****	*****	*****	HRS
INVLAT	0.0	62.4	62.8	63.3	65.1	74.1	32.8	83.9	66.9	63.5	62.6	DEGS



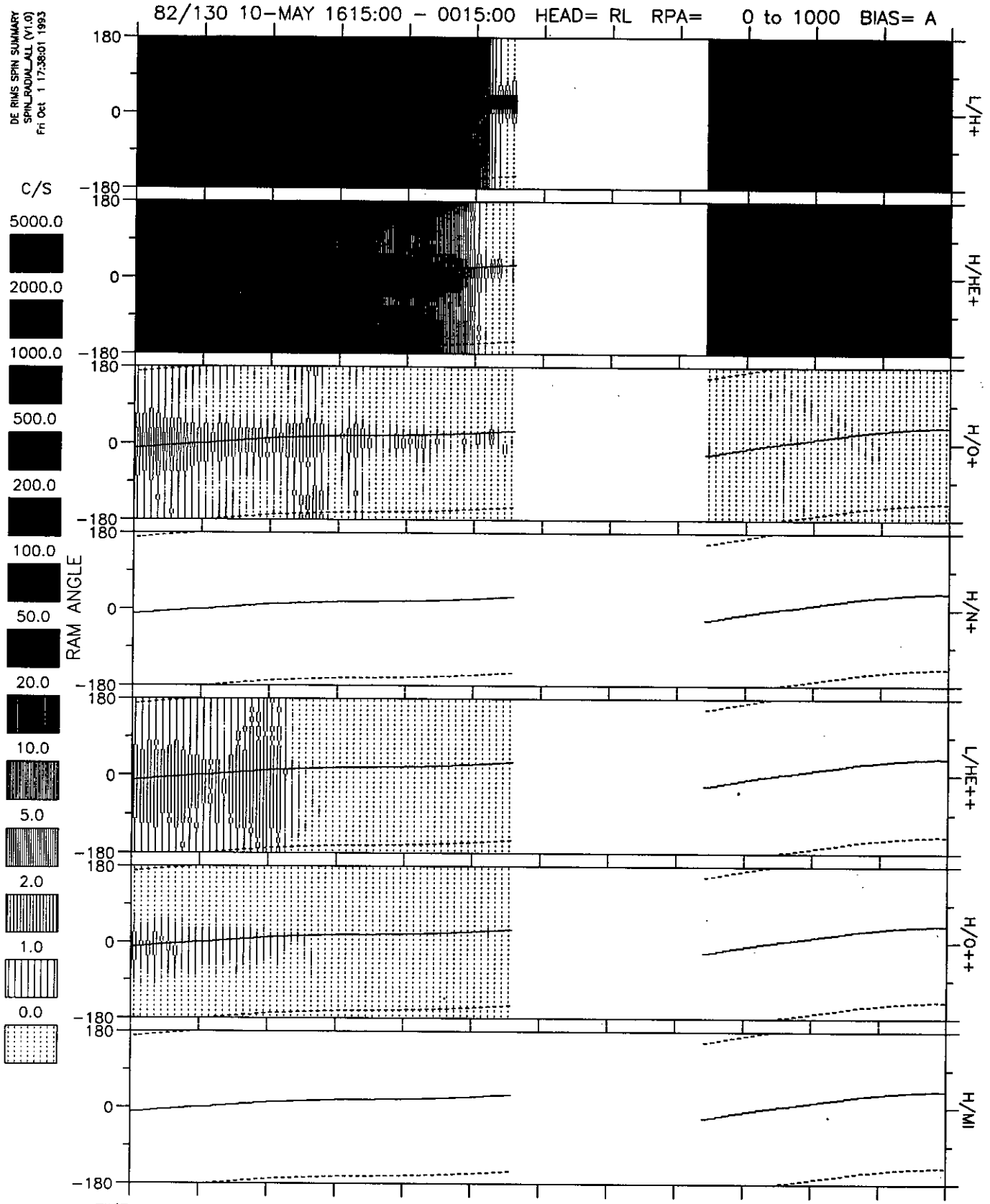
TIME	0000	0000	0000	0000	0000	1700	1740	1820	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	2.1	1.1	2.3	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	39.9	1.3	7.5	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	23.0	8.1	18.6	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	75.34	•••••	•••••	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	80.9	29.3	68.7	0.0	0.0	0.0	DEGS



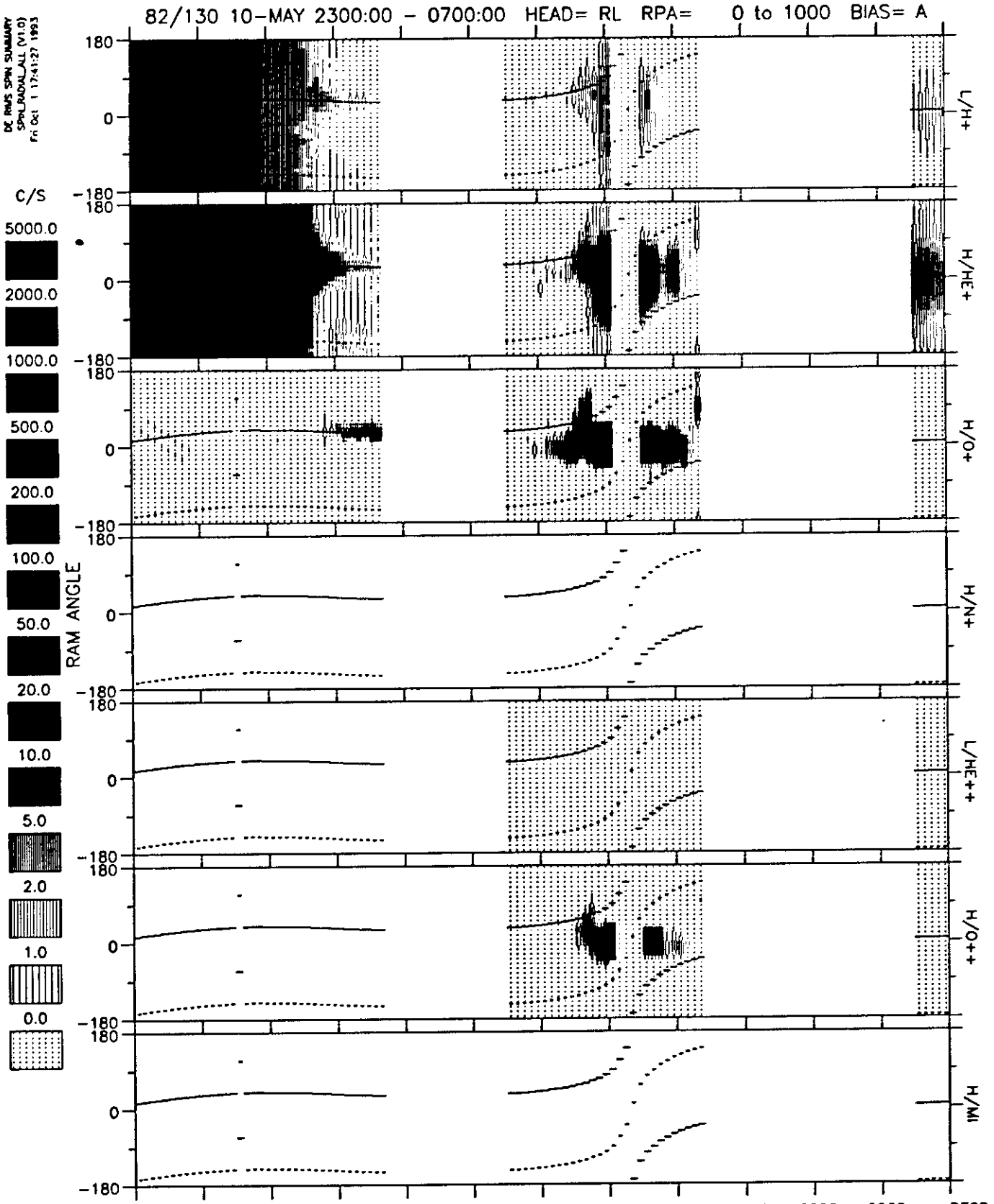
TIME	0000	0000	0000	0000	0000	0000	0710	0750	0830	0910	0950	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.9	3.1	4.0	4.4	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	1.3	28.0	5.8	4.9	4.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	7.9	22.0	20.0	19.6	19.5	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	30.18	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	30.1	79.1	65.5	63.0	62.5	DEGS



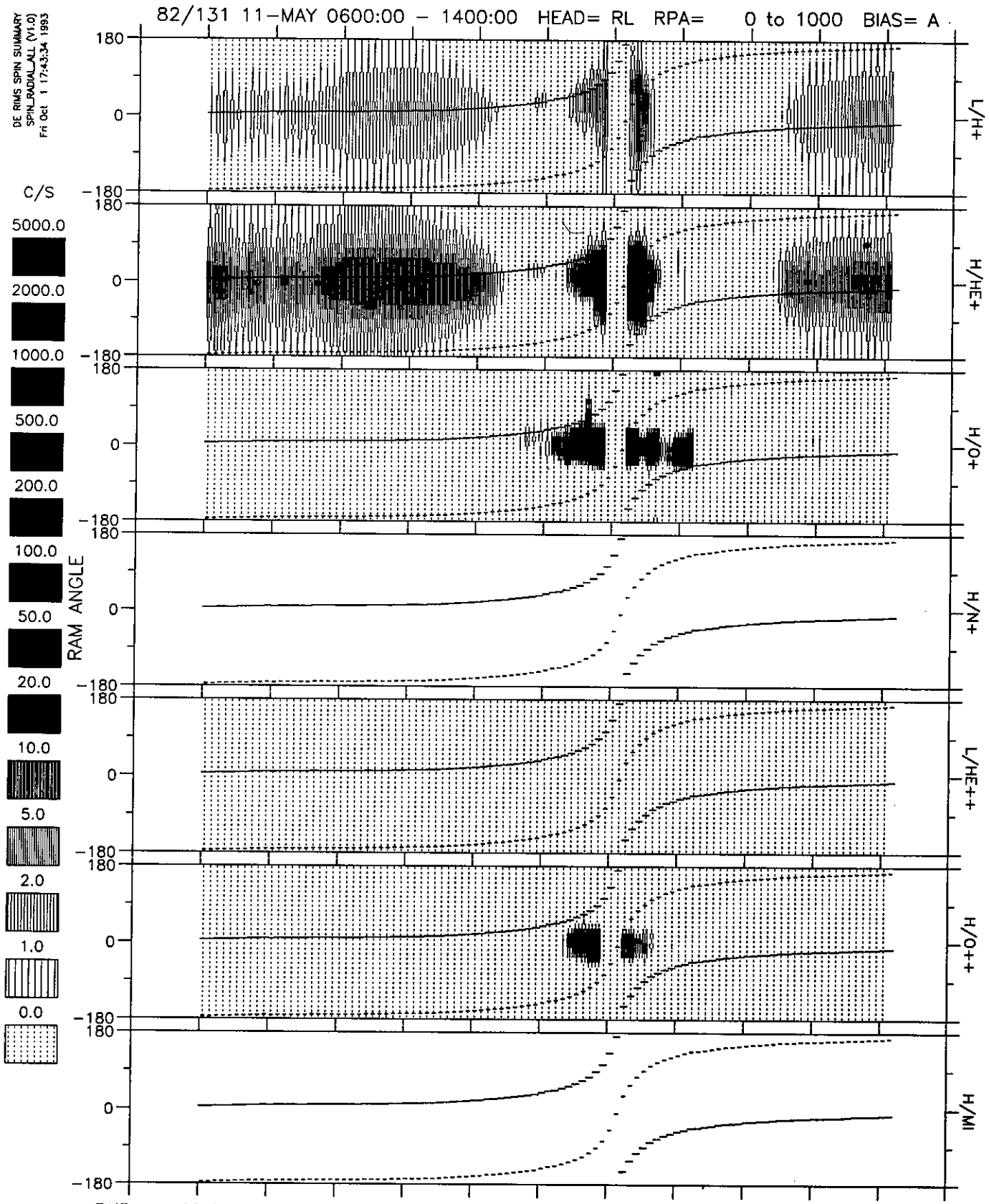
TIME	1010	0000	0000	0000	0000	1330	1410	1450	1530	1610	1650	DEGS
RE	4.6	0.0	0.0	0.0	0.0	2.2	1.1	2.3	3.4	4.1	4.5	HHMM
L	4.6	0.0	0.0	0.0	0.0	22.0	1.1	15.5	5.4	4.7	4.6	RE
MLT	19.4	0.0	0.0	0.0	0.0	20.2	7.5	18.2	19.1	19.3	19.6	
MLAT	-9.72	0.00	0.00	0.00	0.00	69.73	-5.77	*****	*****	*****	-6.44	HRS
INVLAT	62.3	0.0	0.0	0.0	0.0	77.7	17.6	75.3	64.6	62.5	62.3	DEGS



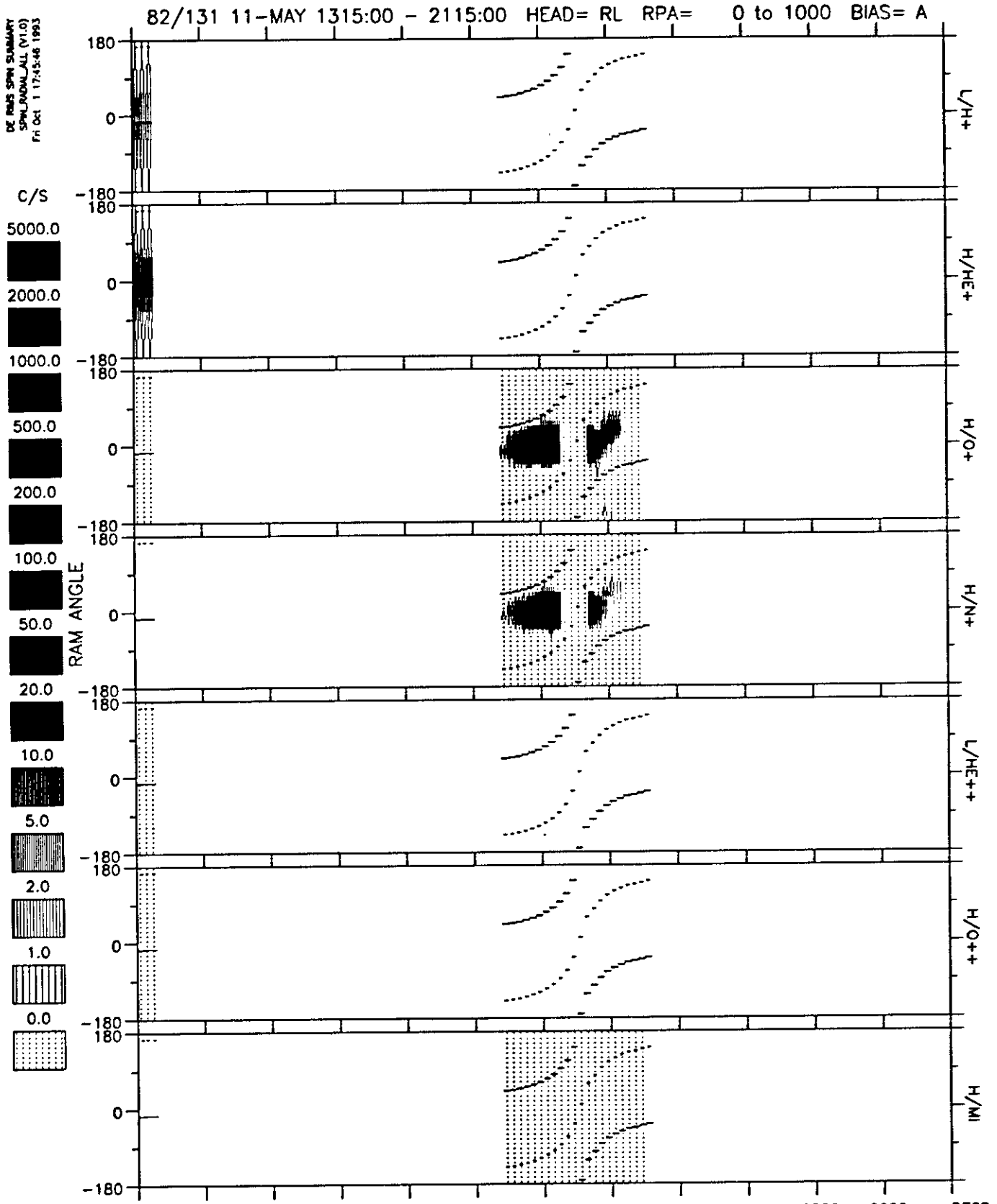
TIME	1655	1735	1815	1855	1935	0000	0000	0000	2215	2255	2335	DEGS
RE	4.6	4.7	4.5	4.1	3.4	0.0	0.0	0.0	3.3	4.0	4.5	HHMM
L	4.6	4.8	5.1	5.7	7.8	0.0	0.0	0.0	-0.0	-0.0	-0.0	RE
MLT	19.6	19.8	20.0	20.3	20.7	0.0	0.0	0.0	19.6	19.8	19.8	
MLAT	-4.88	7.34	19.63	33.20	50.29	0.00	0.00	0.00	*****	-5.35	7.36	HRS
INVLAT	62.3	62.7	63.6	65.3	69.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	DEGS



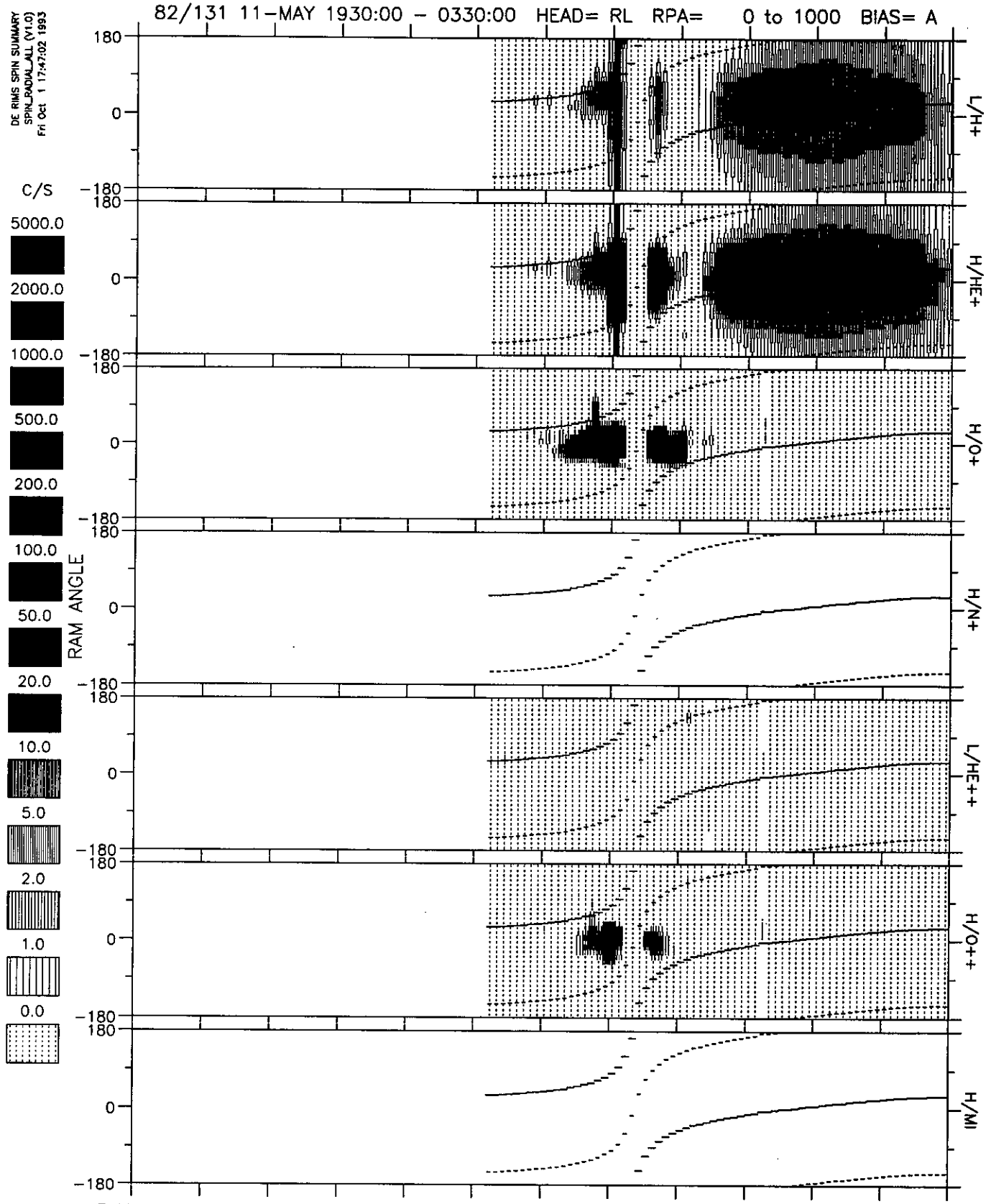
TIME	2340	0020	0100	0000	0000	0300	0340	0420	0000	0000	0000	DEGS
RE	4.5	4.7	4.6	0.0	0.0	2.5	1.3	1.9	0.0	0.0	0.0	HHMM
L	-0.0	-0.0	-0.0	0.0	0.0	39.5	2.6	12.7	0.0	0.0	0.0	RE
MLT	19.8	19.7	19.6	0.0	0.0	17.6	8.2	21.4	0.0	0.0	0.0	
MLAT	8.80	19.41	29.56	0.00	0.00	75.05	42.39	•••••	0.00	0.00	0.00	HRS
INVLAT	-0.0	-0.0	-0.0	0.0	0.0	80.8	51.2	73.7	0.0	0.0	0.0	DEGS



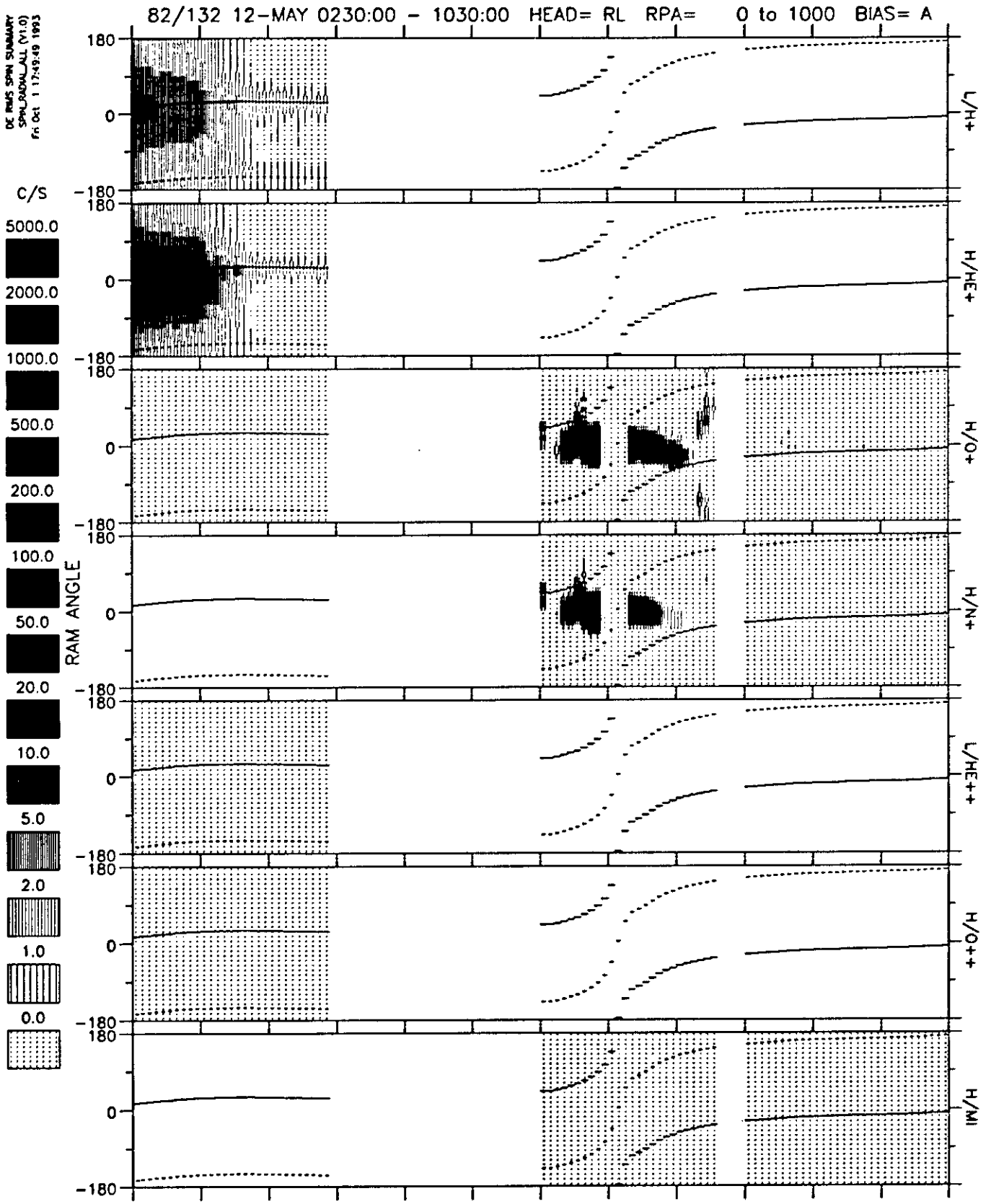
TIME	0640	0720	0800	0840	0920	1000	1040	1120	1200	1240	1320	DEGS
RE	4.6	4.7	4.5	4.1	3.4	2.3	1.1	2.2	3.3	4.1	4.5	HHMM
L	4.5	4.7	4.8	4.9	5.7	15.4	1.1	34.3	6.3	5.0	4.7	RE
MLT	19.5	19.3	19.2	19.0	18.9	18.4	7.3	19.7	19.3	19.2	19.3	
MLAT	-2.37	5.96	14.60	24.94	39.64	65.39	5.92	*****	*****	*****	*****	HRS
INVLAT	62.0	62.4	62.7	63.2	65.3	75.2	20.6	80.2	66.5	63.5	62.6	DEGS



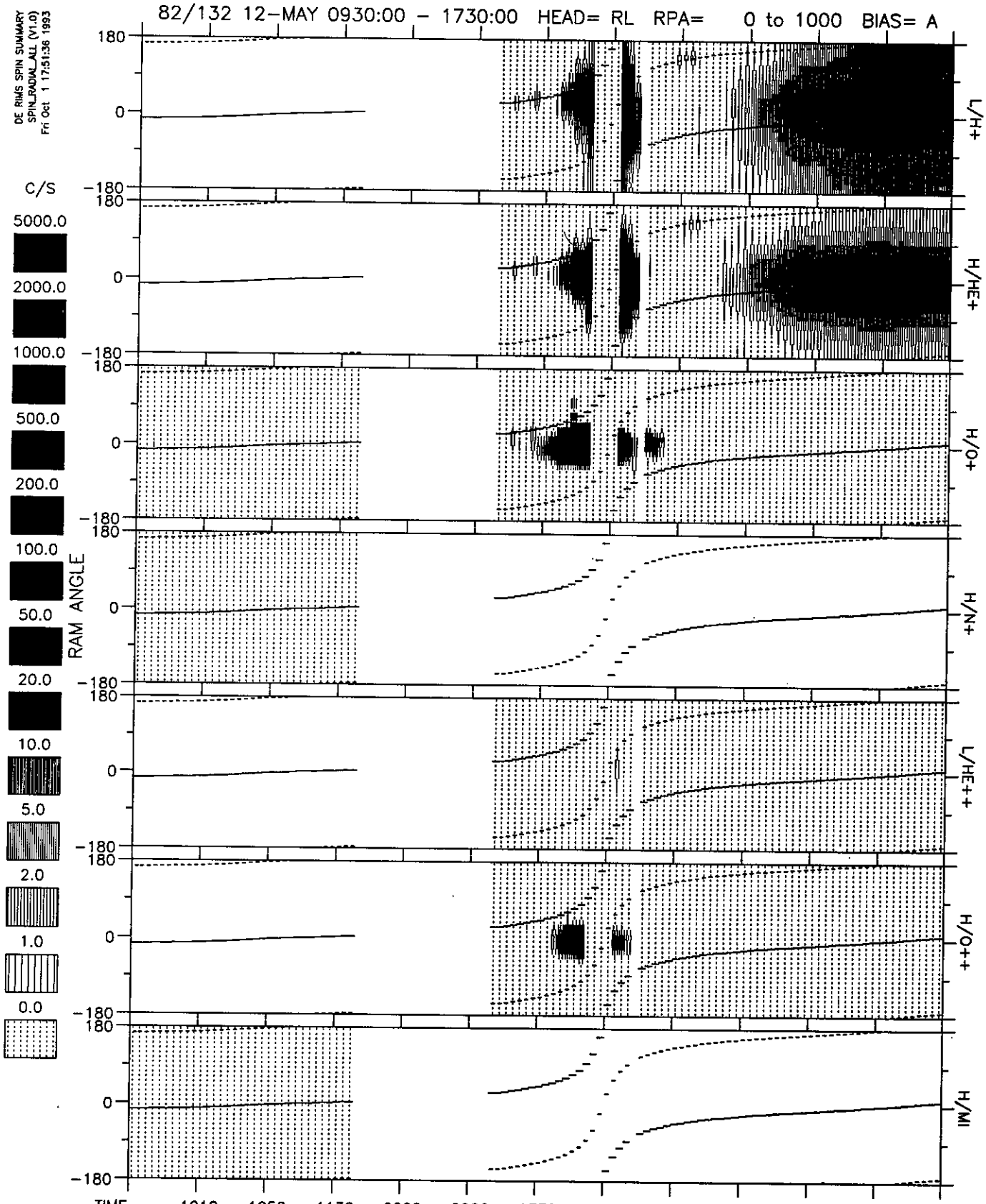
TIME	0000	0000	0000	0000	0000	1715	1755	0000	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	1.4	1.6	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	5.2	26.6	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	6.3	14.5	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	58.87	•••••	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	63.9	78.8	0.0	0.0	0.0	0.0	DEGS



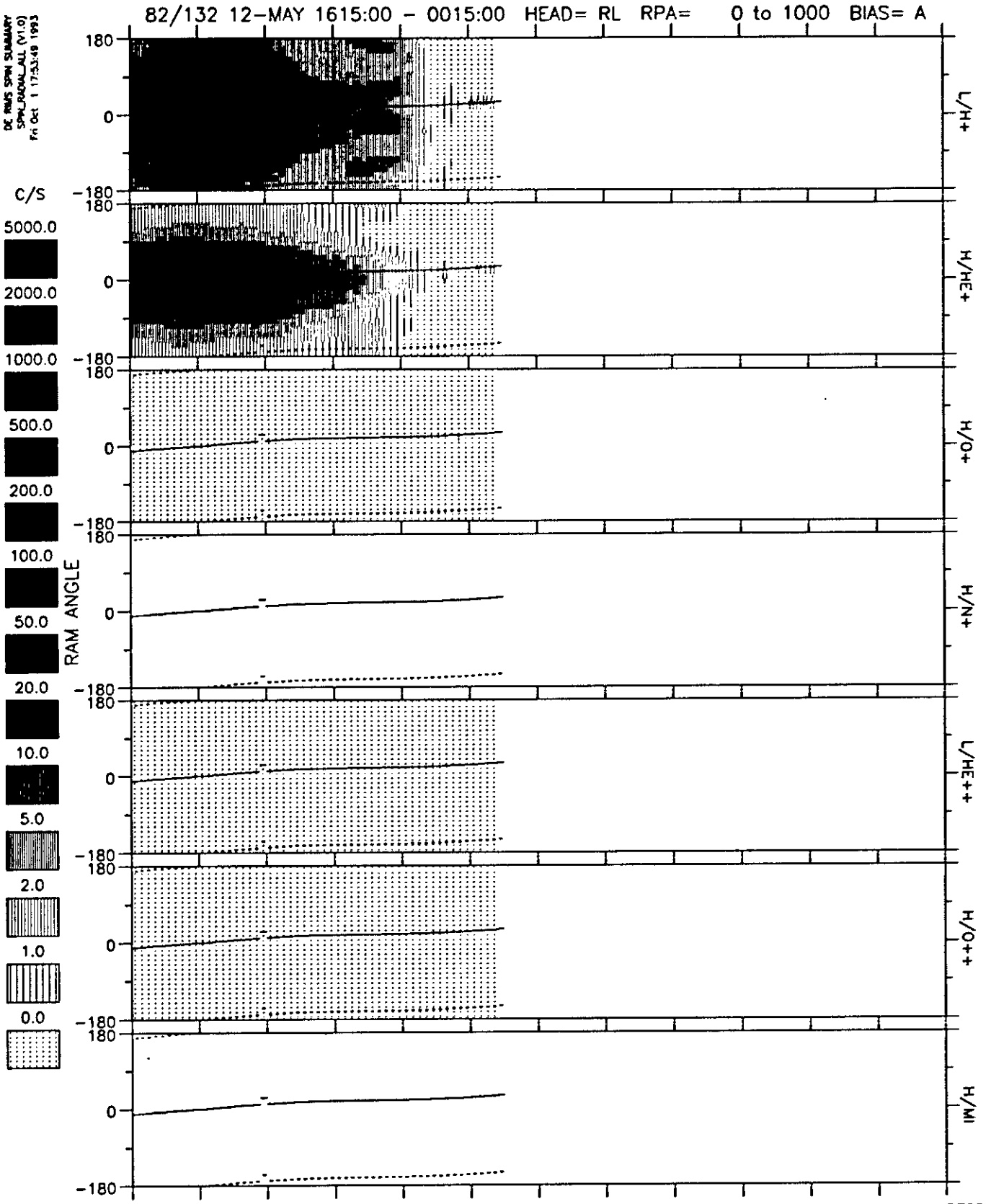
TIME	0000	0000	0000	0000	0000	2330	0010	0050	0130	0210	0250	DEGS
RE	0.0	0.0	0.0	0.0	0.0	2.6	1.3	1.8	3.0	3.9	4.4	HHMM
L	0.0	0.0	0.0	0.0	0.0	48.0	1.9	10.9	3.9	4.0	4.4	RE
MLT	0.0	0.0	0.0	0.0	0.0	20.2	7.7	20.1	19.8	19.7	19.6	
MLAT	0.00	0.00	0.00	0.00	0.00	78.07	33.17	*****	*****	*****	1.42	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	81.7	44.0	72.4	59.6	60.1	61.6	DEGS



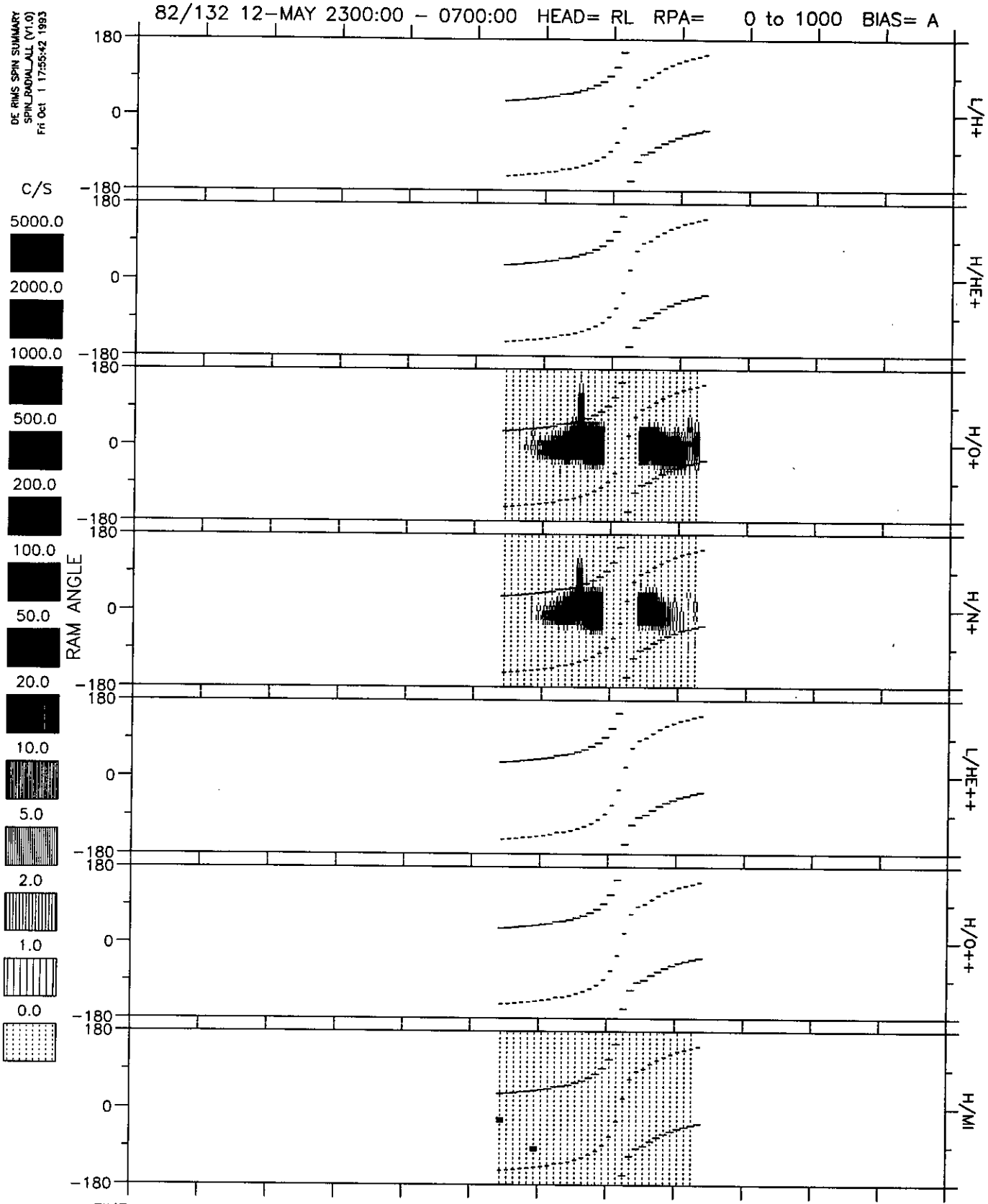
TIME	0310	0350	0000	0000	0000	0630	0710	0750	0830	0910	0950	DEGS
RE	4.6	4.7	0.0	0.0	0.0	2.3	1.1	2.1	3.3	4.0	4.5	HHMM
L	4.6	5.0	0.0	0.0	0.0	23.5	1.1	18.4	5.7	4.9	4.7	RE
MLT	19.5	19.4	0.0	0.0	0.0	17.1	7.5	21.1	19.8	19.5	19.3	
MLAT	6.27	15.02	0.00	0.00	0.00	70.49	9.02	*****	*****	*****	*****	HRS
INVLAT	62.3	63.4	0.0	0.0	0.0	78.1	16.5	76.5	65.3	63.1	62.5	DEGS



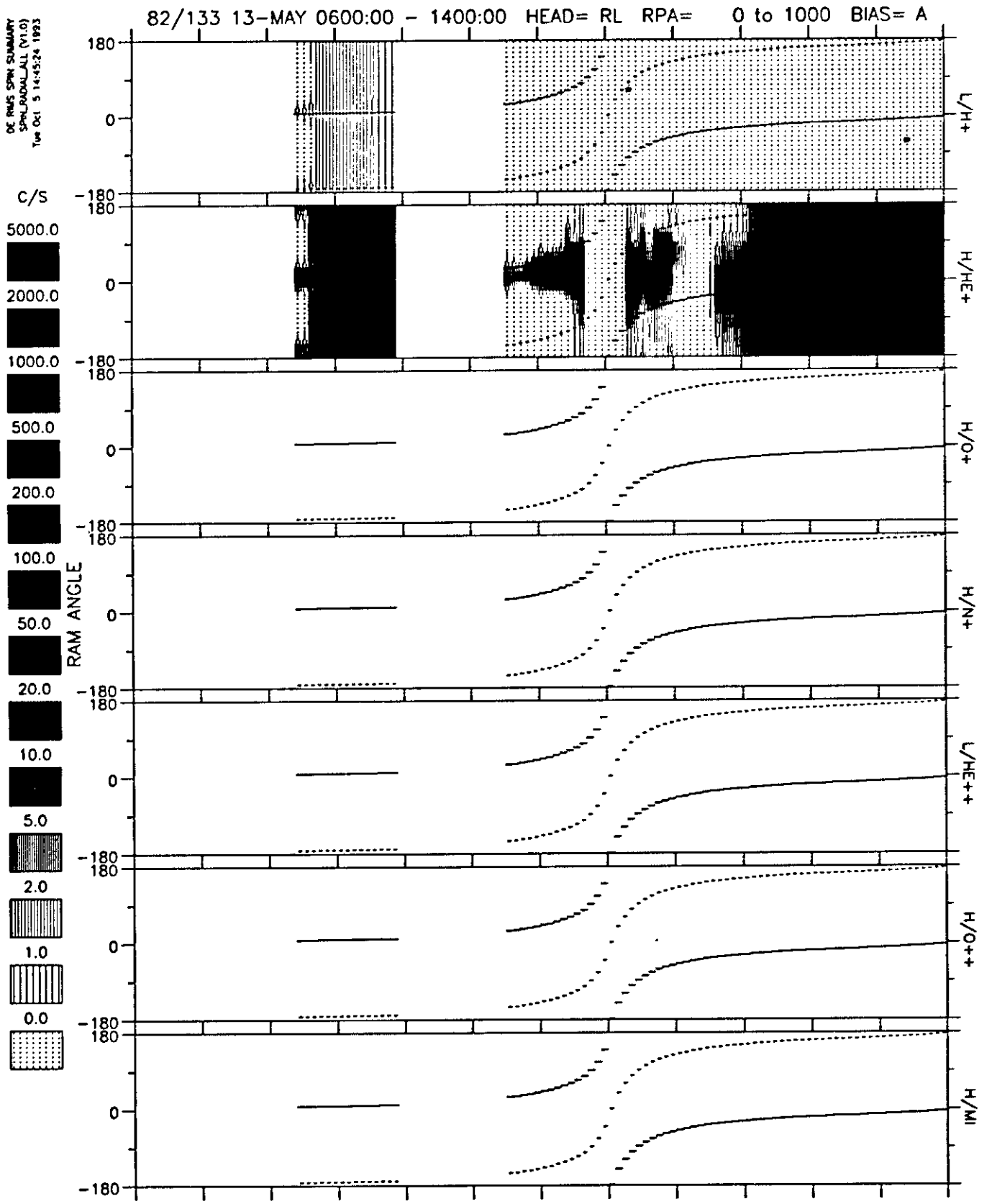
TIME	1010	1050	1130	0000	0000	1330	1410	1450	1530	1610	1650	DEGS
RE	4.6	4.7	4.5	0.0	0.0	2.0	1.1	2.4	3.5	4.2	4.6	HHMM
L	4.7	4.6	4.6	0.0	0.0	42.5	1.5	11.8	5.3	4.7	4.6	RE
MLT	19.3	19.2	19.2	0.0	0.0	20.5	7.5	18.3	19.0	19.2	19.4	
MLAT	-9.23	0.37	10.70	0.00	0.00	75.44	*****	*****	*****	*****	-5.39	HRS
INVLAT	62.4	62.2	62.1	0.0	0.0	81.2	34.6	73.1	64.3	62.5	62.3	DEGS



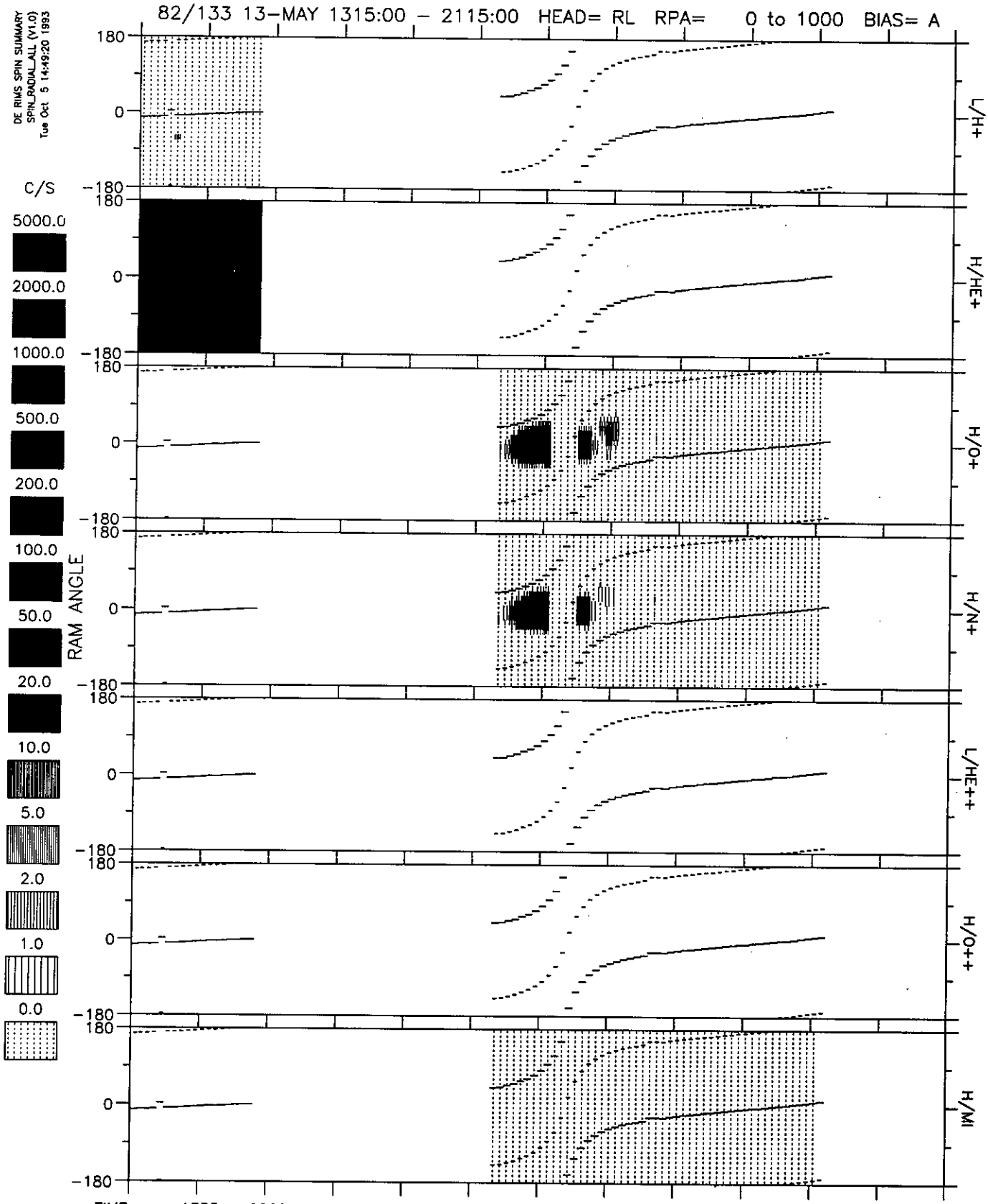
TIME	1655	1735	1815	1855	1935	0000	0000	0000	0000	0000	0000	DEGS
RE	4.6	4.7	4.5	4.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.6	4.8	5.1	5.8	8.2	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	19.5	19.7	19.9	20.2	20.6	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	-3.80	8.37	20.75	34.61	52.46	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.3	62.8	63.7	65.4	69.6	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



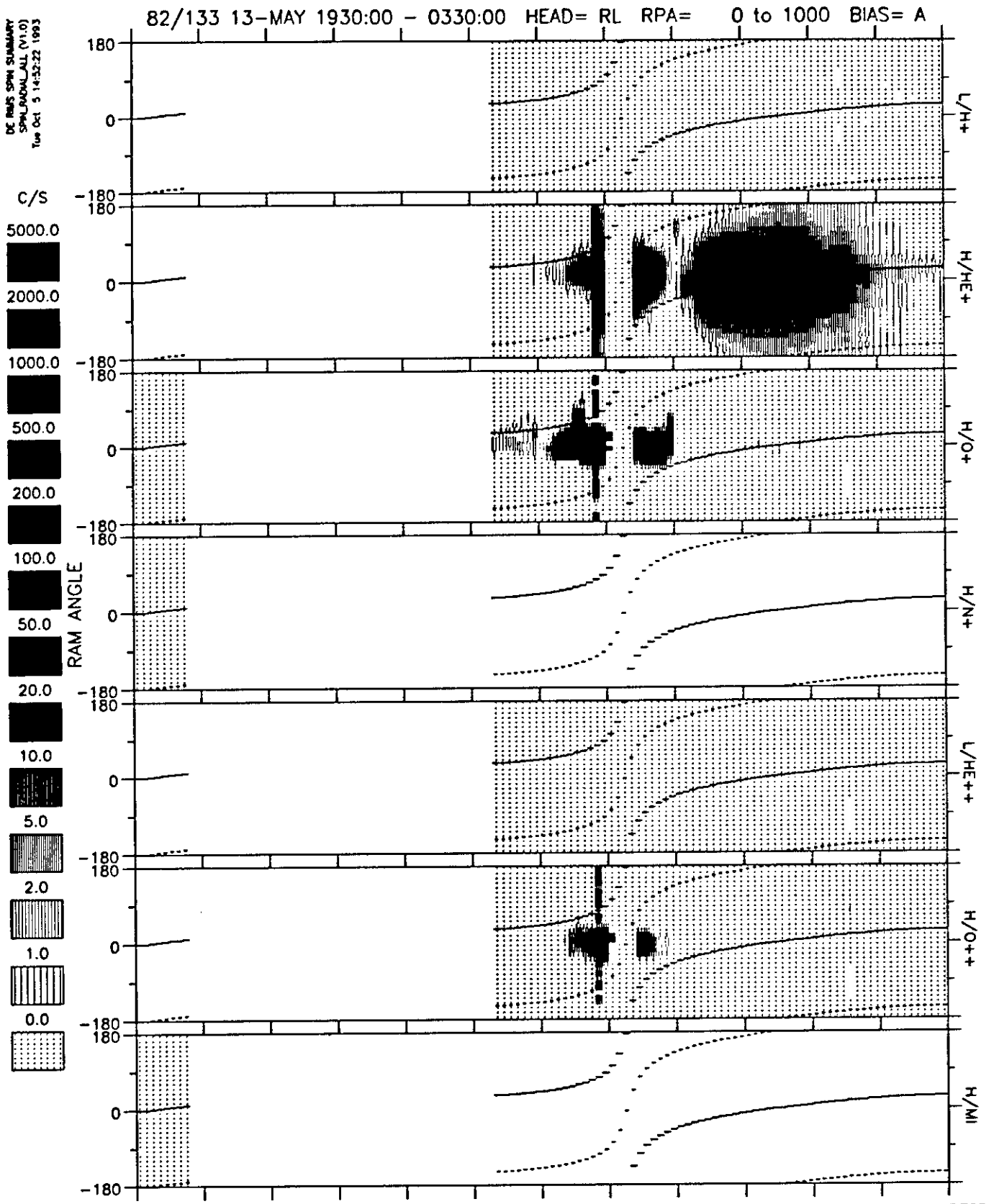
TIME	0000	0000	0000	0000	0000	0300	0340	0420	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	2.4	1.1	2.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	59.1	1.1	9.3	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	16.7	7.6	20.8	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	77.89	9.43	*****	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	82.5	16.7	70.8	0.0	0.0	0.0	DEGS



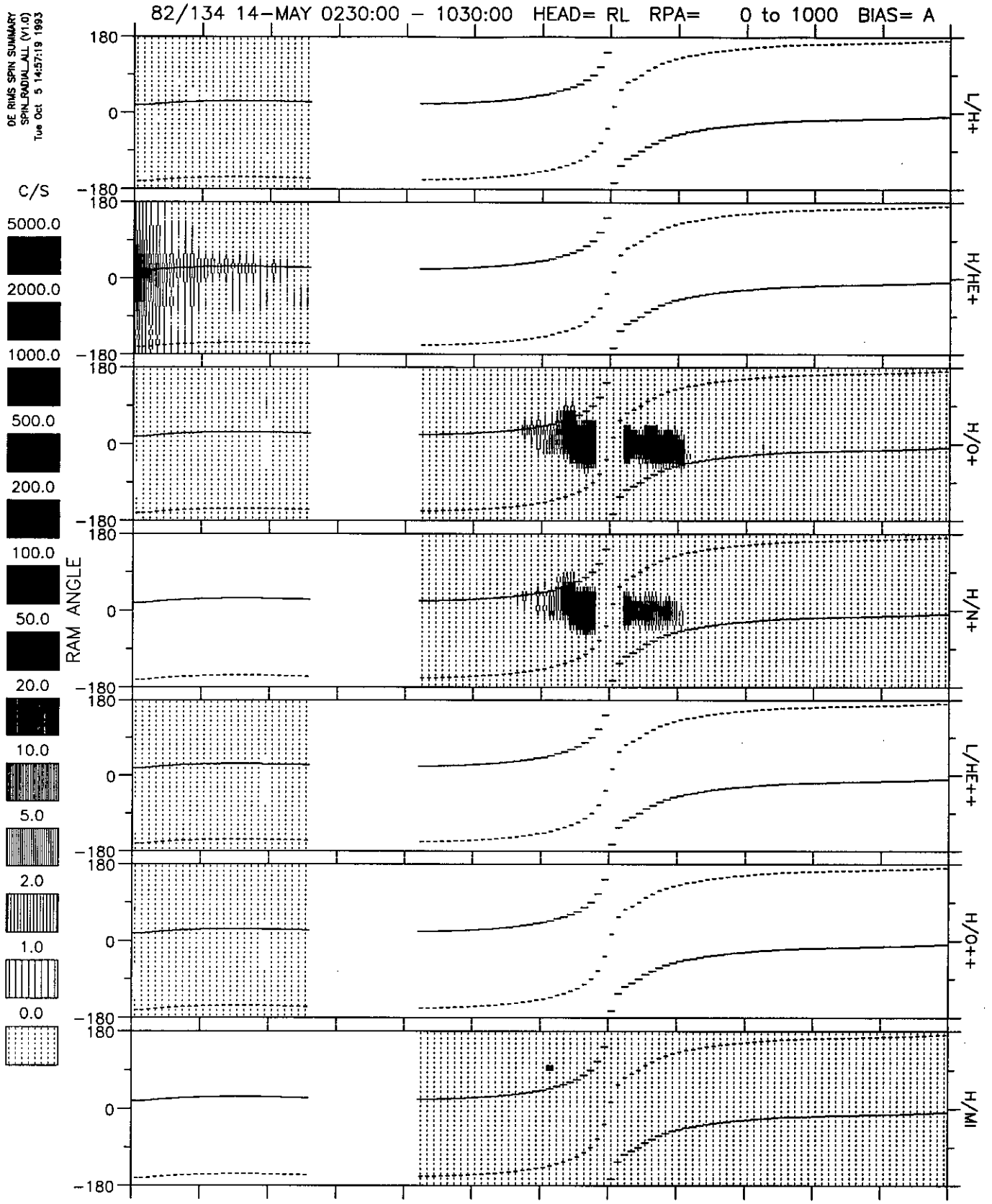
TIME	0000	0000	0800	0000	0000	1000	1040	1120	1200	1240	1320	DEGS
RE	0.0	0.0	4.5	0.0	0.0	2.1	1.1	2.4	3.4	4.1	4.5	HHMM
L	0.0	0.0	4.7	0.0	0.0	30.1	1.3	20.8	6.1	5.0	4.7	RE
MLT	0.0	0.0	19.0	0.0	0.0	18.0	7.0	19.4	19.1	19.1	19.1	
MLAT	0.00	0.00	14.94	0.00	0.00	72.67	*****	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	62.6	0.0	0.0	79.5	28.1	77.3	66.1	63.5	62.6	DEGS



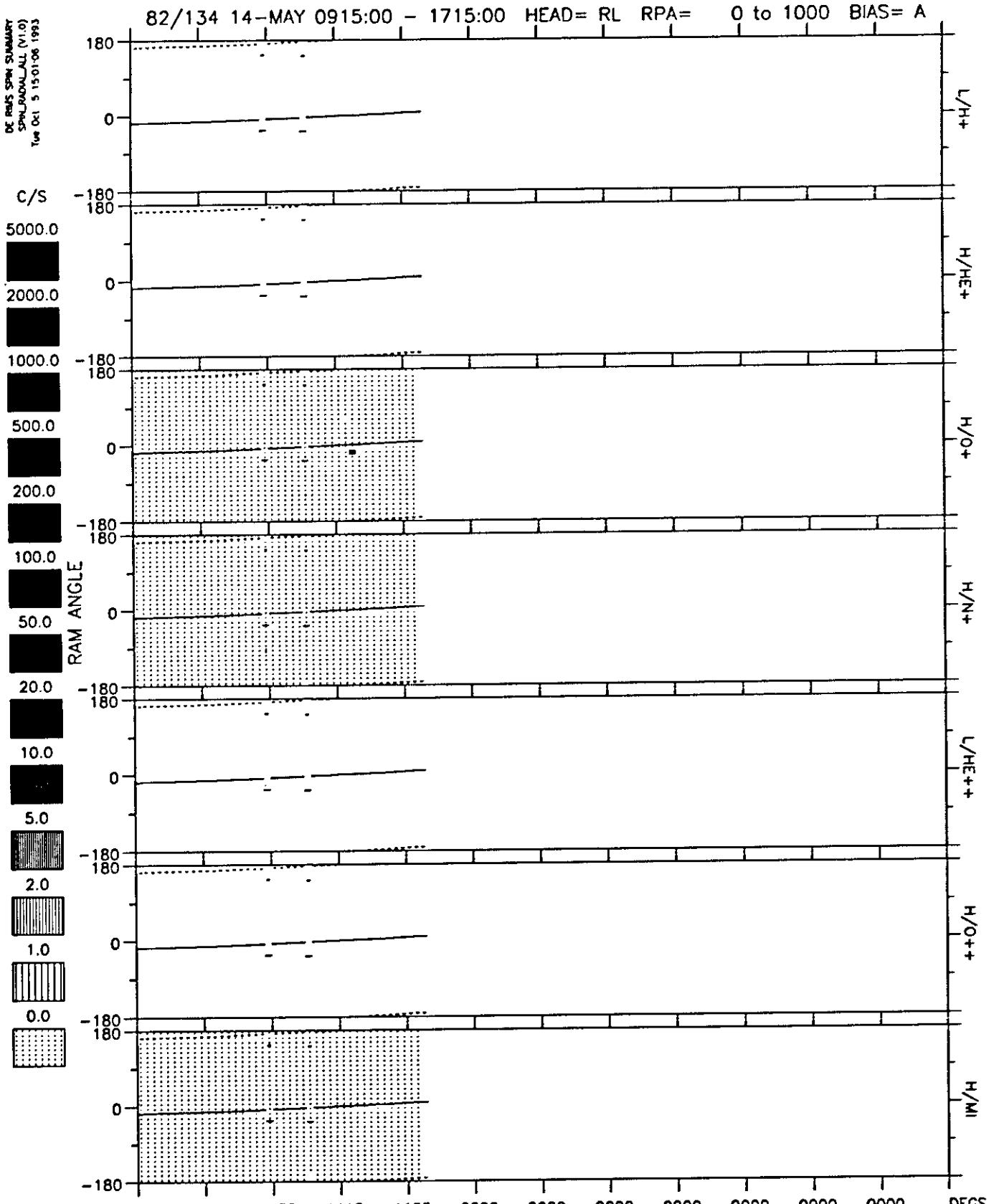
TIME	1355	0000	0000	0000	0000	1715	1755	1835	1915	1955	0000	DEGS
RE	4.7	0.0	0.0	0.0	0.0	1.2	1.8	3.1	3.9	4.4	0.0	HHMM
L	4.6	0.0	0.0	0.0	0.0	2.3	18.6	5.0	4.4	4.5	0.0	RE
MLT	19.2	0.0	0.0	0.0	0.0	6.7	16.6	19.0	19.4	19.6	0.0	
MLAT	-3.63	0.00	0.00	0.00	0.00	43.51	*****	*****	*****	-1.61	0.00	HRS
INVLAT	62.3	0.0	0.0	0.0	0.0	48.7	76.6	63.3	61.5	61.9	0.0	DEGS



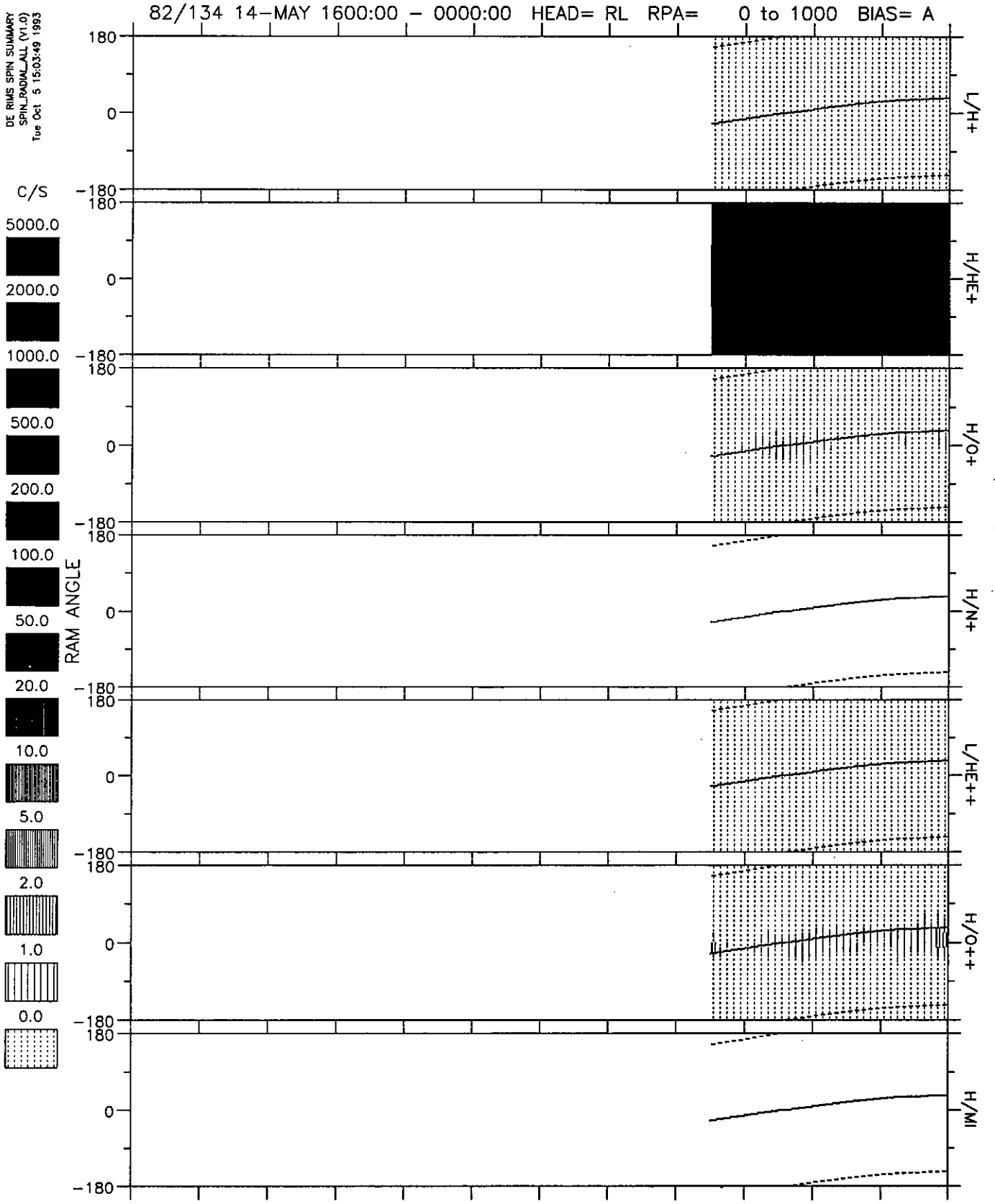
TIME	0000	0000	0000	0000	0000	2330	0010	0050	0130	0210	0250	DEGS
RE	0.0	0.0	0.0	0.0	0.0	2.4	1.1	2.0	3.2	4.0	4.5	HHMM
L	0.0	0.0	0.0	0.0	0.0	85.3	1.2	7.6	3.9	4.1	4.5	RE
MLT	0.0	0.0	0.0	0.0	0.0	20.1	7.6	19.9	19.7	19.6	19.5	
MLAT	0.00	0.00	0.00	0.00	0.00	81.88	14.41	*****	*****	-9.38	1.91	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	83.8	23.1	68.7	59.6	60.4	61.8	DEGS



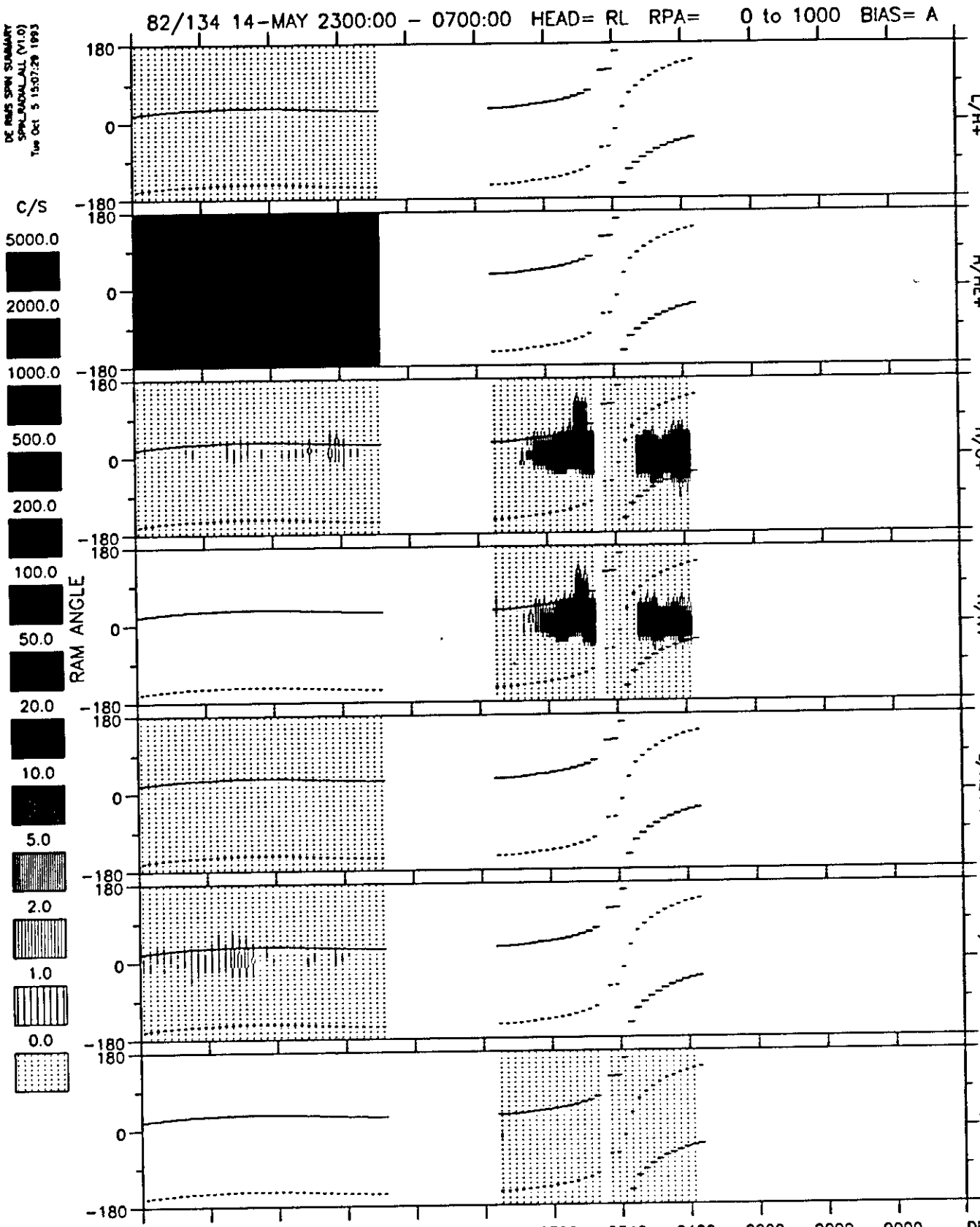
TIME	0310	0350	0000	0000	0550	0630	0710	0750	0830	0910	0950	DEGS
RE	4.6	4.7	0.0	0.0	3.3	2.1	1.1	2.3	3.4	4.1	4.5	HHMM
L	4.7	5.0	0.0	0.0	7.3	35.4	1.4	13.7	5.6	4.9	4.7	RE
MLT	19.4	19.2	0.0	0.0	18.4	16.3	7.0	20.6	19.6	19.3	19.2	
MLAT	6.63	15.29	0.00	0.00	48.08	74.05	*****	*****	*****	*****	*****	HRS
INVLAT	62.4	63.4	0.0	0.0	68.3	80.3	31.4	74.3	65.1	63.2	62.6	DEGS



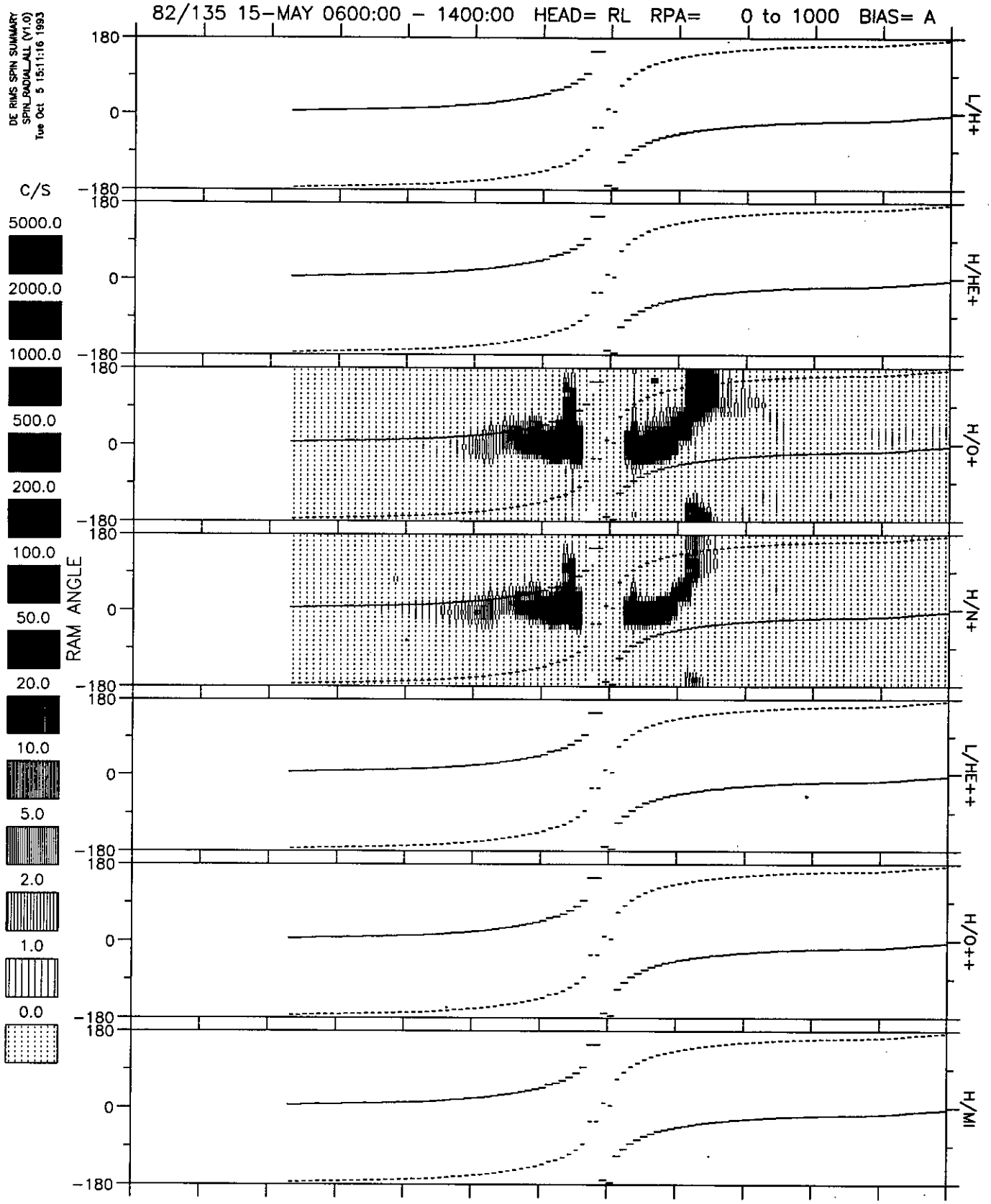
TIME	0955	1035	1115	1155	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.6	4.7	4.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.7	4.6	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	19.1	19.1	19.0	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	*****	-2.75	7.29	19.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.5	62.2	62.1	62.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



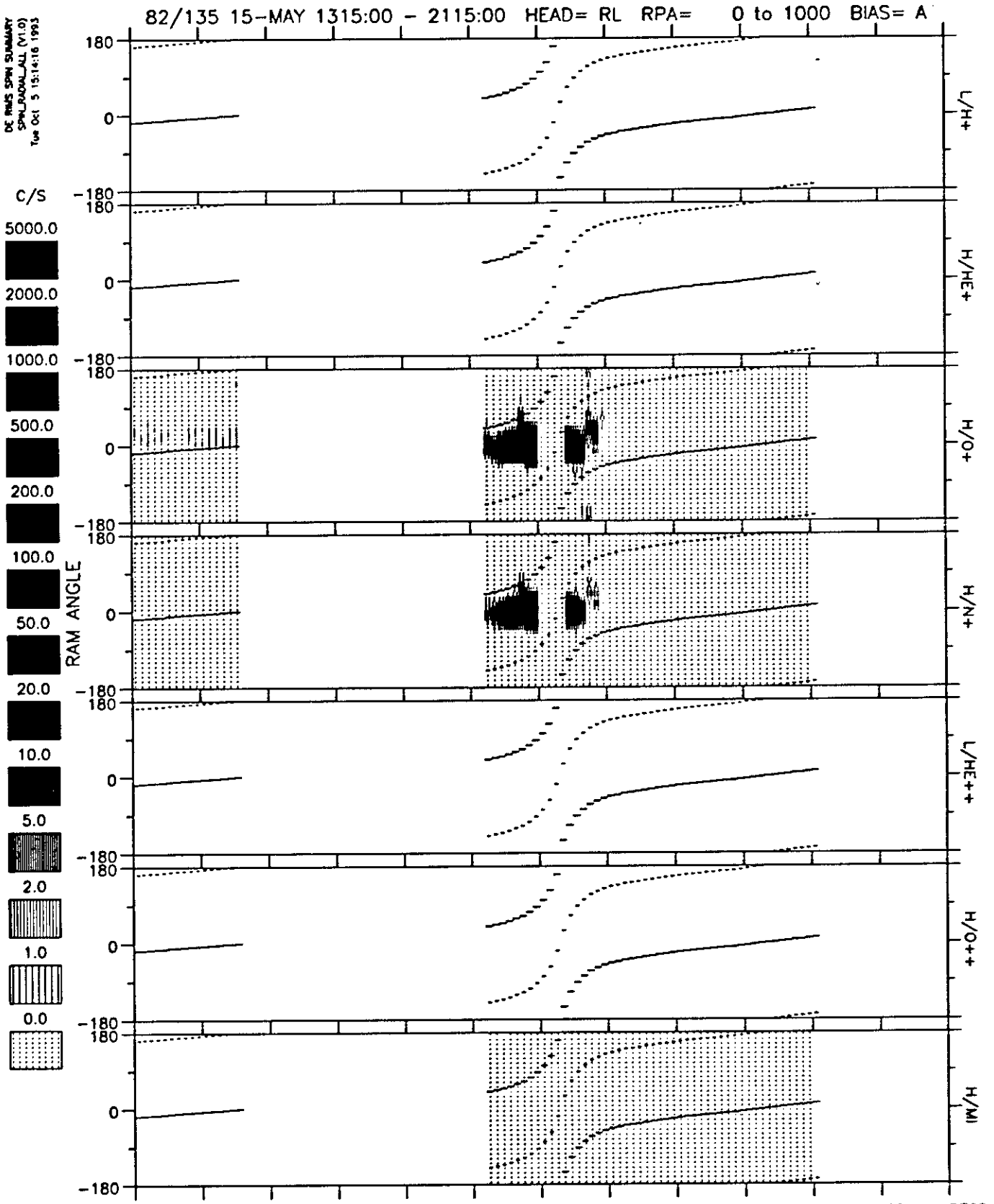
TIME	0000	0000	0000	0000	0000	0000	0000	0000	2200	2240	2320	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.9	4.4	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1	4.5	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.4	19.5	19.5	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	-9.05	4.12	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.3	60.4	61.9	DEGS



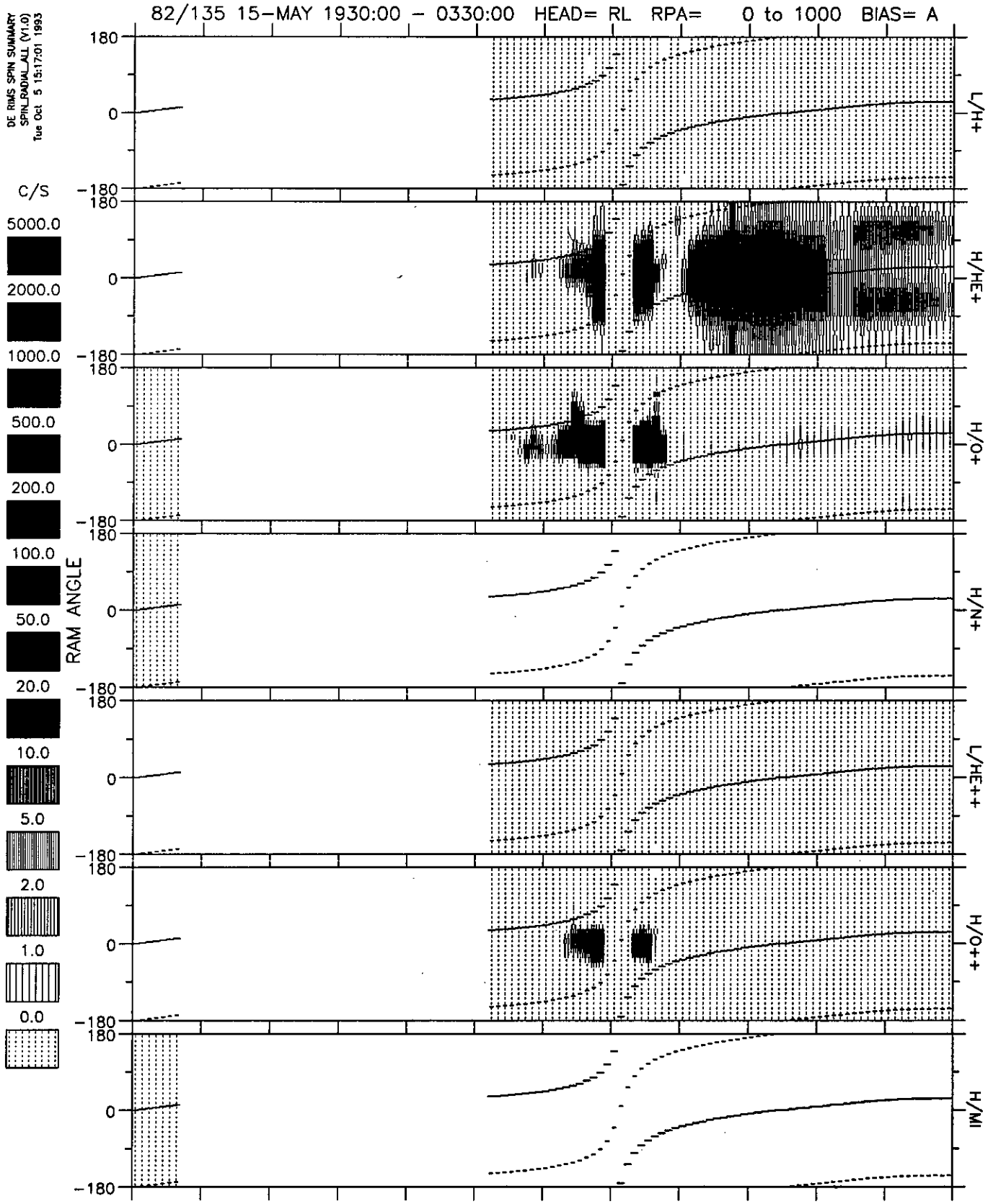
TIME	2340	0020	0100	0000	0000	0300	0340	0420	0000	0000	0000	DEGS
RE	4.6	4.7	4.5	0.0	0.0	2.2	1.1	2.2	0.0	0.0	0.0	HHMM
L	4.8	5.4	6.1	0.0	0.0	99.6	1.1	7.6	0.0	0.0	0.0	RE
MLT	19.5	19.5	19.4	0.0	0.0	15.3	7.2	20.5	0.0	0.0	0.0	
MLAT	9.75	20.11	30.24	0.00	0.00	80.50	*****	*****	0.00	0.00	0.00	HRS
INVLAT	62.8	64.4	66.1	0.0	0.0	84.4	19.8	68.7	0.0	0.0	0.0	DEGS



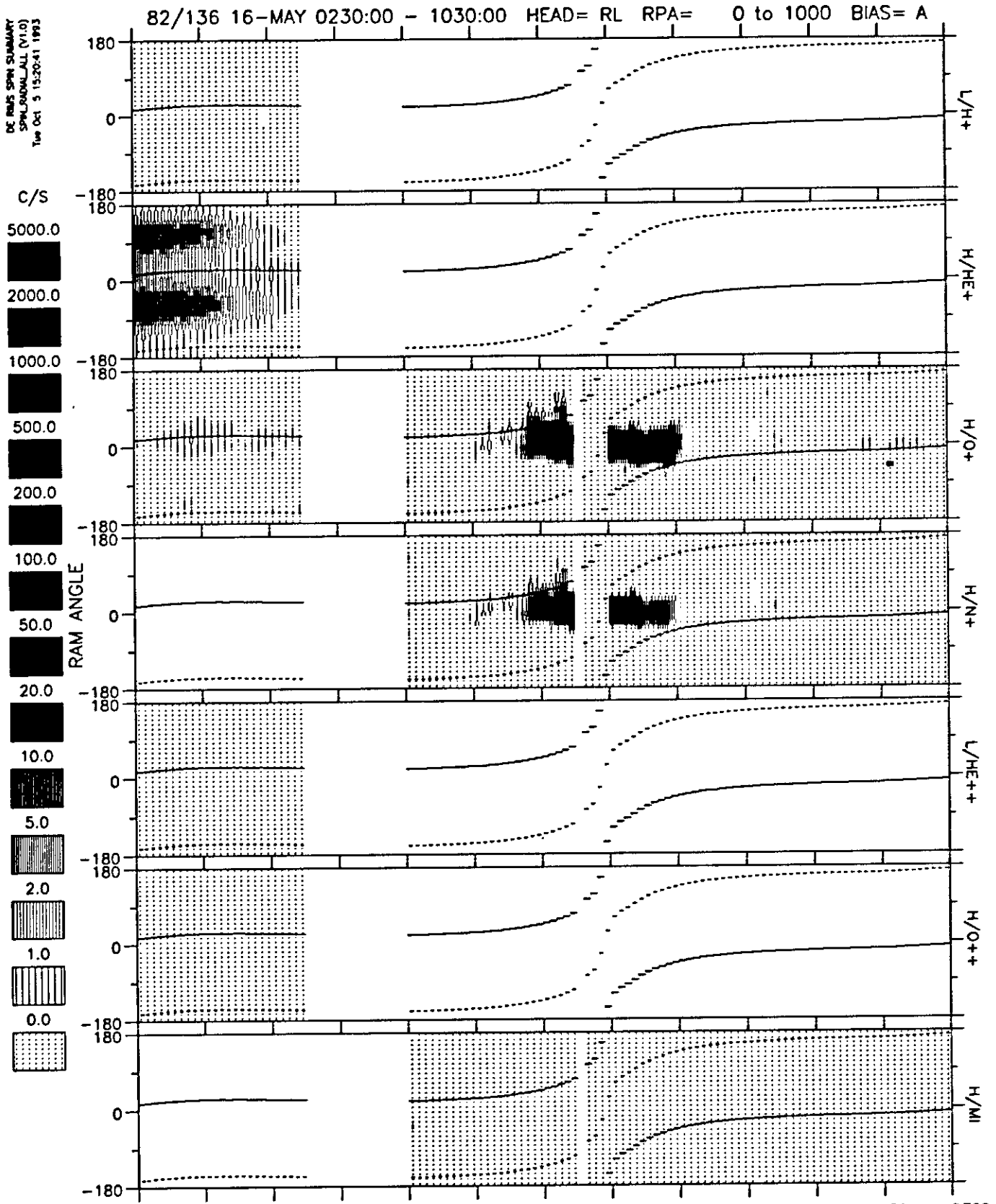
TIME	0000	0000	0800	0840	0920	1000	1040	1120	1200	1240	1320	DEGS
RE	0.0	0.0	4.4	3.9	3.1	2.0	1.2	2.5	3.5	4.2	4.6	HHMM
L	0.0	0.0	4.7	4.9	6.0	45.7	1.9	15.1	6.0	5.0	4.7	RE
MLT	0.0	0.0	18.9	18.8	18.6	17.6	6.8	19.2	18.9	18.9	19.0	
MLAT	0.00	0.00	15.41	26.57	43.25	75.86	*****	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	62.5	63.1	65.9	81.5	44.0	75.1	65.8	63.5	62.6	DEGS



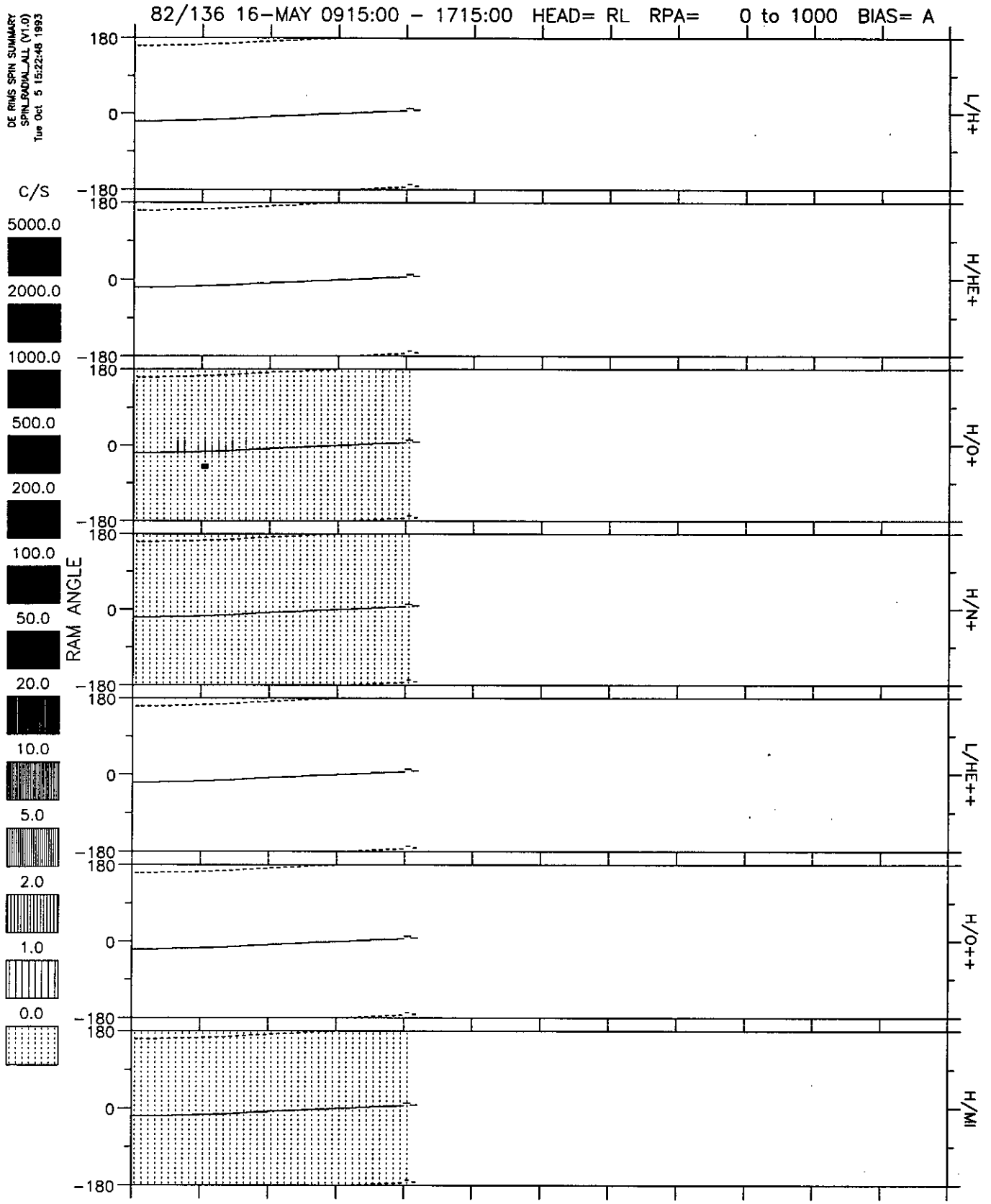
TIME	1355	0000	0000	0000	0000	1715	1755	1835	1915	1955	0000	DEGS
RE	4.7	0.0	0.0	0.0	0.0	1.1	2.0	3.2	4.0	4.4	0.0	HHMM
L	4.6	0.0	0.0	0.0	0.0	1.3	12.9	4.9	4.4	4.5	0.0	RE
MLT	19.1	0.0	0.0	0.0	0.0	7.0	17.4	18.9	19.3	19.4	0.0	
MLAT	-2.78	0.00	0.00	0.00	0.00	24.44	*****	*****	*****	-1.82	0.00	HRS
INVLAT	62.3	0.0	0.0	0.0	0.0	30.1	73.8	63.0	61.6	61.9	0.0	DEGS



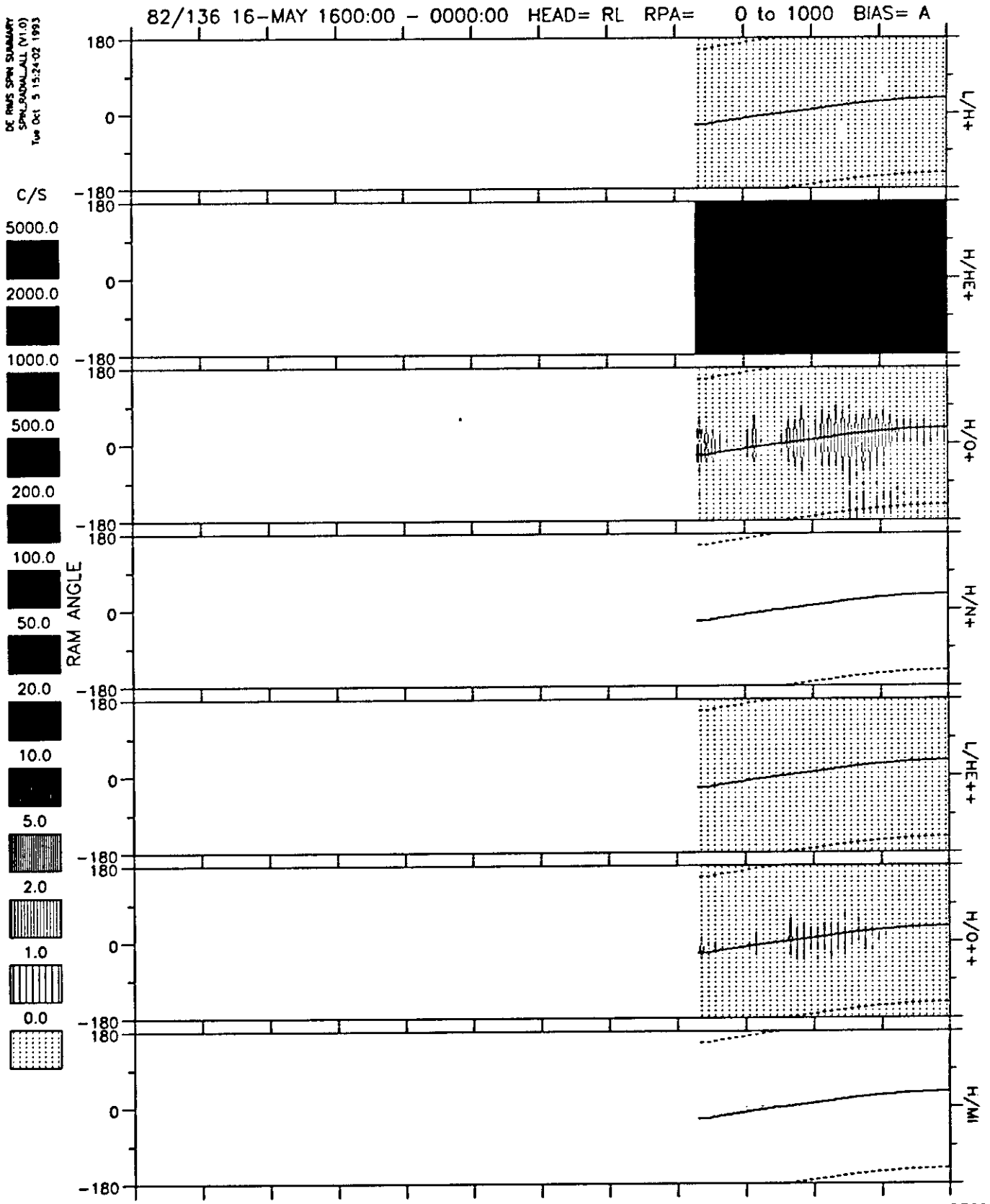
TIME	0000	0000	0000	0000	0000	2330	0010	0050	0130	0210	0250	DEGS
RE	0.0	0.0	0.0	0.0	0.0	2.3	1.1	2.1	3.3	4.0	4.5	HHMM
L	0.0	0.0	0.0	0.0	0.0	100.0	1.0	6.1	3.9	4.2	4.5	RE
MLT	0.0	0.0	0.0	0.0	0.0	20.2	7.4	19.7	19.6	19.4	19.3	
MLAT	0.00	0.00	0.00	0.00	0.00	86.41	-8.41	*****	*****	-8.48	2.39	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	86.4	3.9	66.0	59.8	60.6	61.9	DEGS



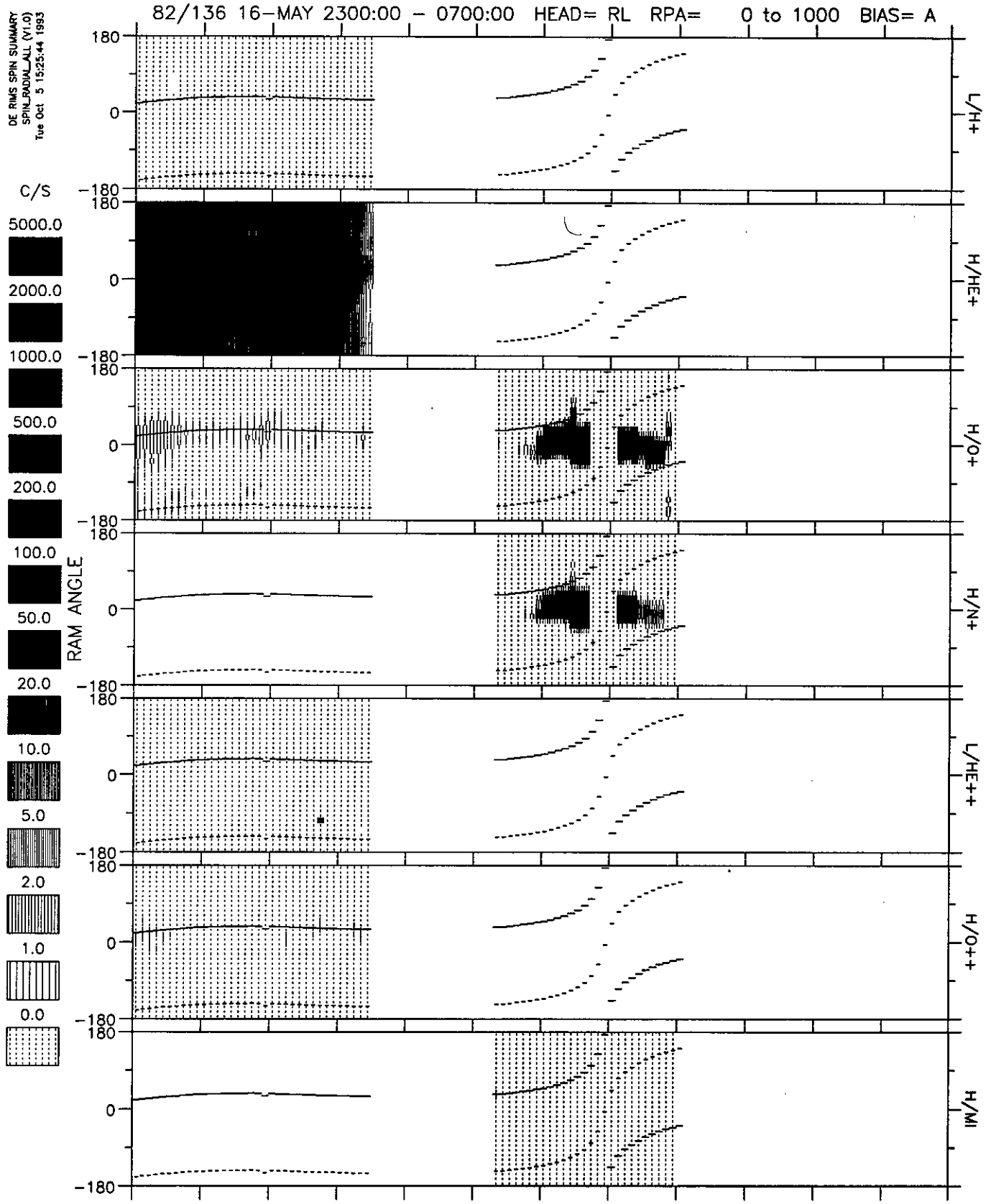
TIME	0310	0350	0000	0510	0550	0630	0710	0750	0830	0910	0950	DEGS
RE	4.6	4.7	0.0	4.0	3.2	2.0	1.1	2.4	3.5	4.2	4.6	HHMM
L	4.7	5.0	0.0	5.8	7.5	61.2	2.1	11.1	5.6	4.9	4.7	RE
MLT	19.3	19.1	0.0	18.7	18.2	14.9	6.5	20.2	19.4	19.2	19.0	
MLAT	7.01	14.96	0.00	34.63	49.70	77.54	*****	*****	*****	*****	*****	HRS
INVLAT	62.5	63.4	0.0	65.4	68.6	82.7	46.9	72.5	65.0	63.2	62.6	DEGS

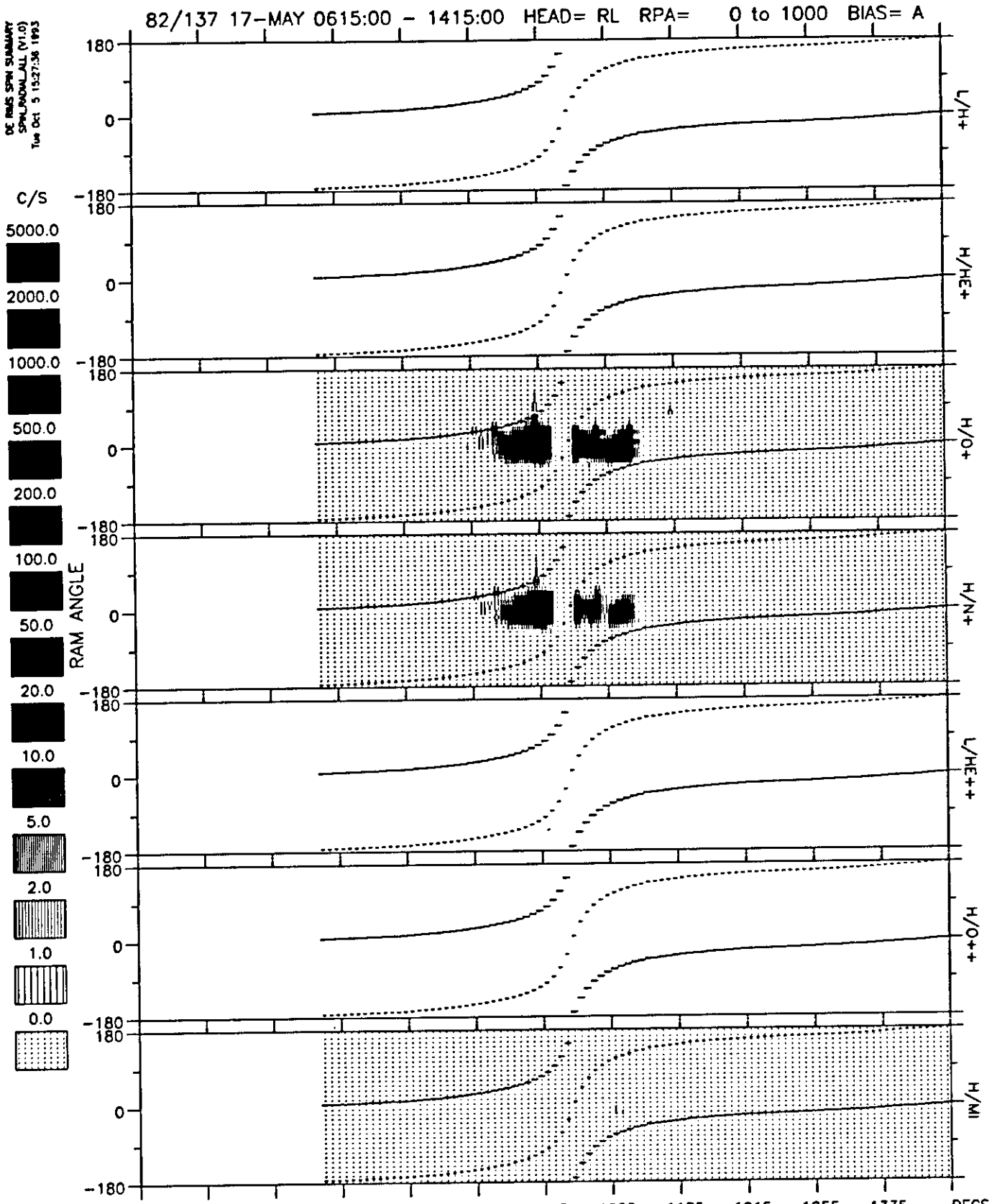


TIME	0955	1035	1115	1155	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.6	4.7	4.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.7	4.6	4.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	19.0	18.9	18.9	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	*****	-2.25	7.98	20.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.6	62.2	62.0	62.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

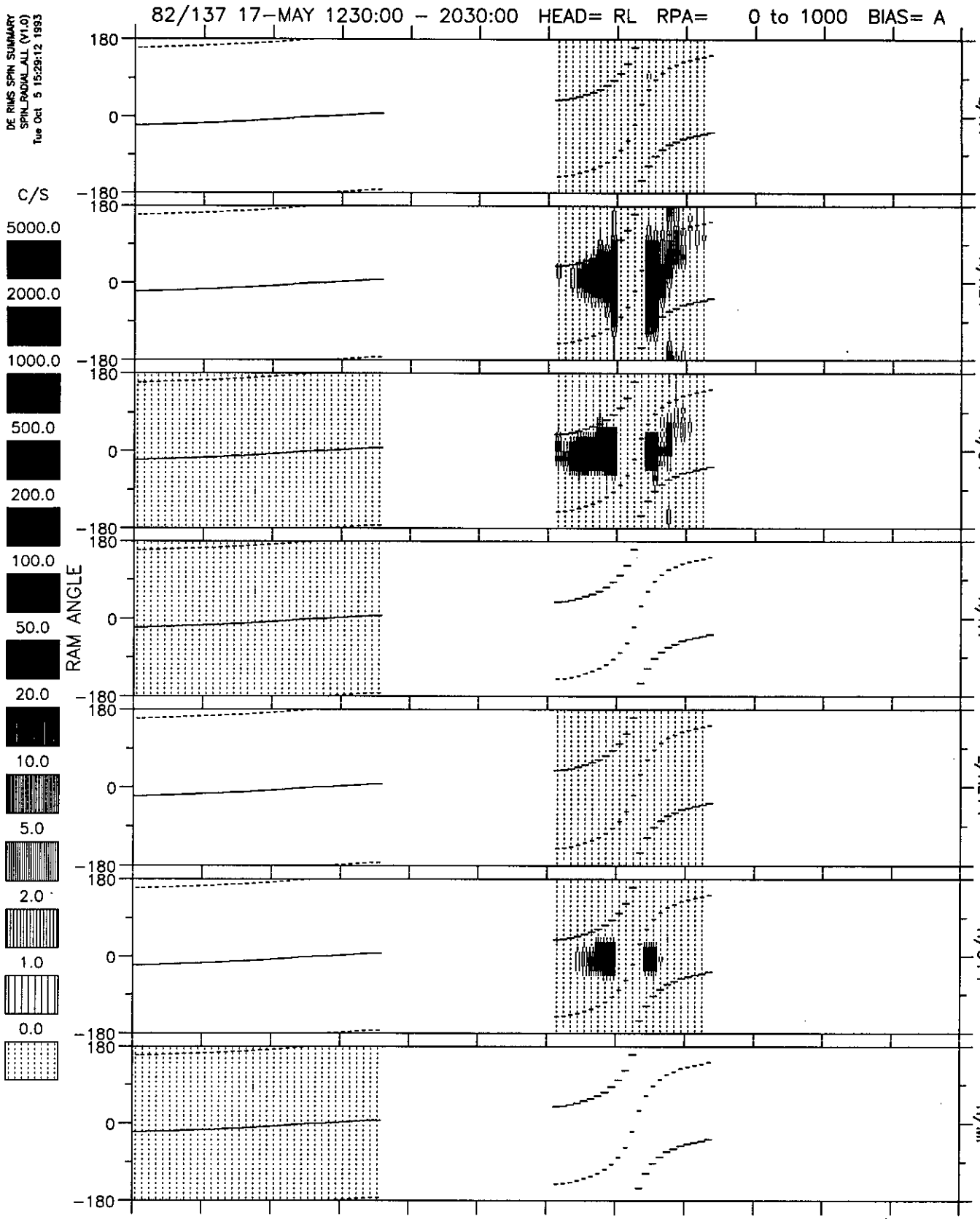


TIME	0000	0000	0000	0000	0000	0000	0000	0000	2200	2240	2320	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	4.0	4.5	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.2	4.6	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.3	19.4	19.4	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	-7.79	4.95	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.2	60.6	62.1	DEGS

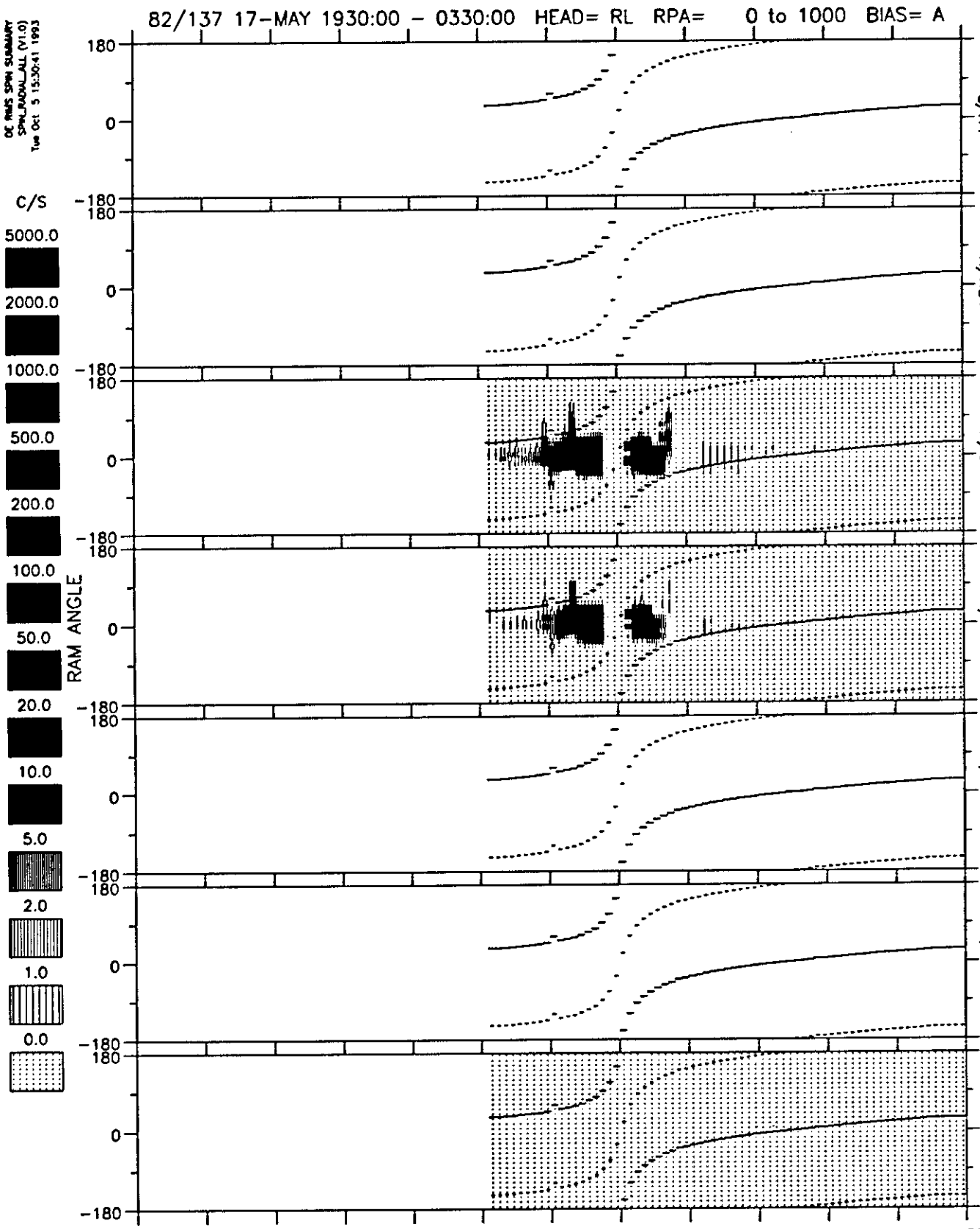

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Tue Oct 5 15:25:44 1993
82/136 16-MAY 2300:00 - 0700:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 2340 0020 0100 0000 0000 0300 0340 0420 0000 0000 0000 DEGS
RE 4.6 4.7 4.5 0.0 0.0 2.0 1.1 2.2 0.0 0.0 0.0 HHMM
L 4.8 5.4 6.1 0.0 0.0 100.0 1.9 7.6 0.0 0.0 0.0 RE
MLT 19.4 19.3 19.2 0.0 0.0 12.9 6.7 20.3 0.0 0.0 0.0
MLAT 10.46 20.70 30.86 0.00 0.00 81.34 ***** ***** 0.00 0.00 0.00 HRS
INVLAT 62.9 64.5 66.2 0.0 0.0 85.3 43.4 68.7 0.0 0.0 0.0 DEGS



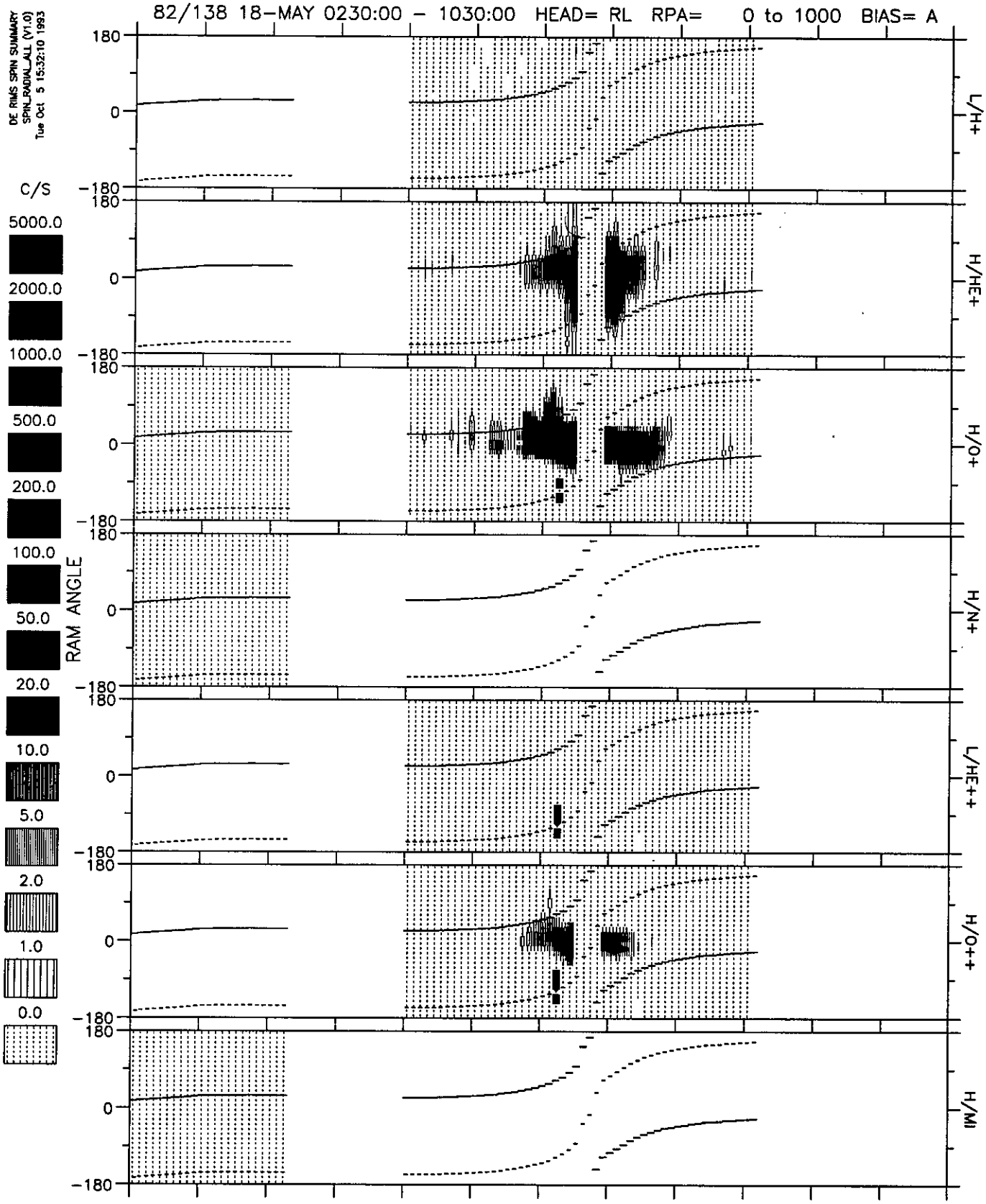
TIME	0000	0000	0815	0855	0935	1015	1055	1135	1215	1255	1335	DEGS
RE	0.0	0.0	4.2	3.6	2.6	1.2	1.8	3.1	3.9	4.4	4.6	HHMM
L	0.0	0.0	4.7	5.1	8.9	2.9	100.0	7.9	5.4	4.9	4.7	RE
MLT	0.0	0.0	18.7	18.6	18.3	7.2	0.6	18.9	18.8	18.8	18.9	
MLAT	0.00	0.00	19.84	33.10	56.04	51.53	*****	*****	*****	*****	-7.90	HRS
INVLAT	0.0	0.0	62.5	63.7	70.4	53.8	88.4	69.1	64.5	63.0	62.5	DEGS



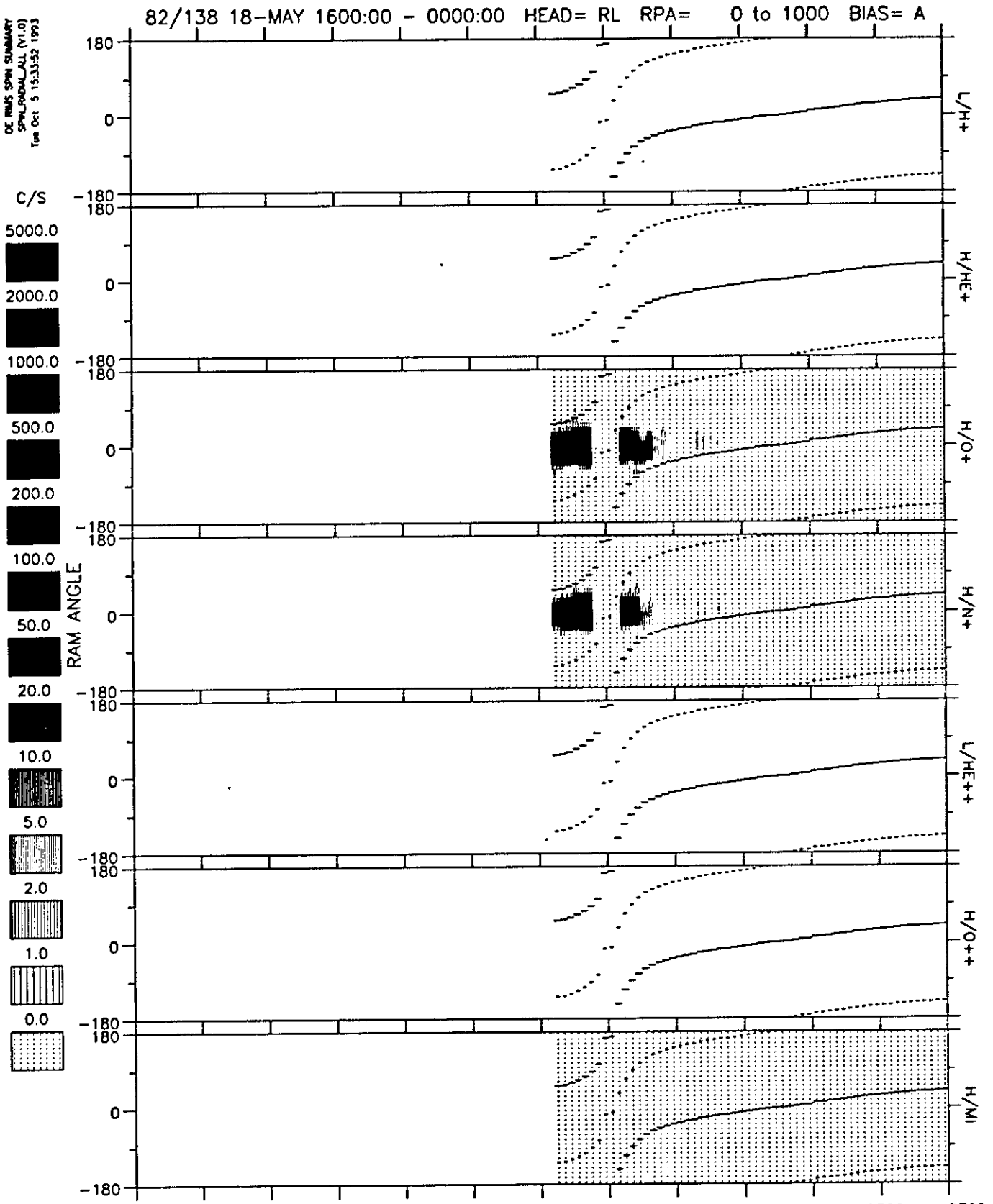
TIME	1310	1350	1430	0000	0000	0000	1710	1750	0000	0000	0000	DEGS
RE	4.5	4.7	4.6	0.0	0.0	0.0	1.1	2.0	0.0	0.0	0.0	HHMM
L	4.8	4.7	4.6	0.0	0.0	0.0	1.3	13.2	0.0	0.0	0.0	RE
MLT	18.8	18.9	19.1	0.0	0.0	0.0	6.8	17.2	0.0	0.0	0.0	
MLAT	*****	-3.37	8.25	0.00	0.00	0.00	24.48	*****	0.00	0.00	0.00	HRS
INVLAT	62.8	62.4	62.3	0.0	0.0	0.0	30.0	74.0	0.0	0.0	0.0	DEGS



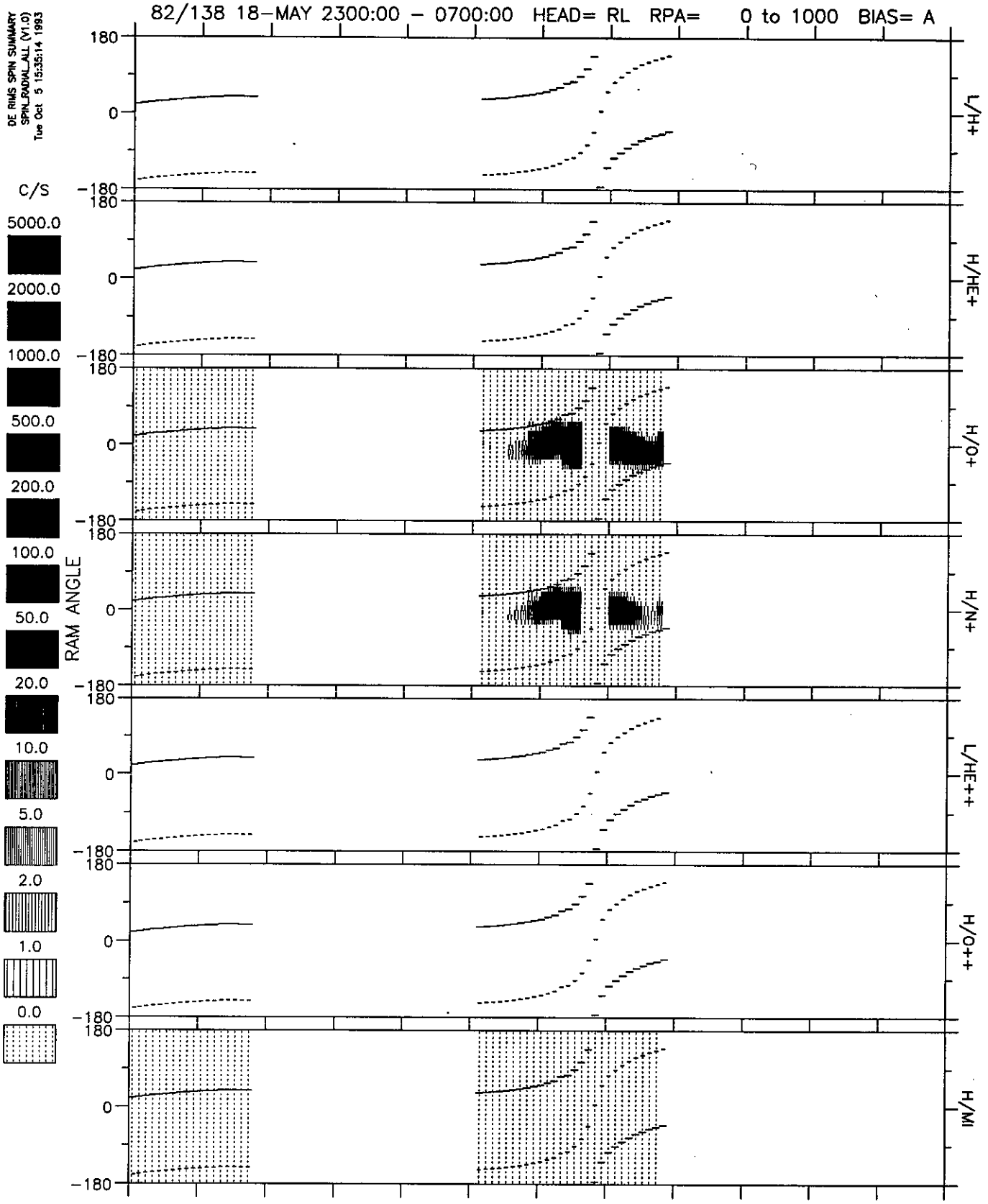
TIME	0000	0000	0000	0000	0000	2330	0010	0050	0130	0210	0250	DEGS
RE	0.0	0.0	0.0	0.0	0.0	2.1	1.1	2.3	3.4	4.1	4.5	HHMM
L	0.0	0.0	0.0	0.0	0.0	100.0	1.4	5.3	4.0	4.2	4.5	RE
MLT	0.0	0.0	0.0	0.0	0.0	6.6	7.3	19.6	19.4	19.3	19.2	
MLAT	0.00	0.00	0.00	0.00	0.00	88.32	•••••	•••••	•••••	-7.71	2.81	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	88.9	33.3	64.3	59.9	60.8	62.0	DEGS



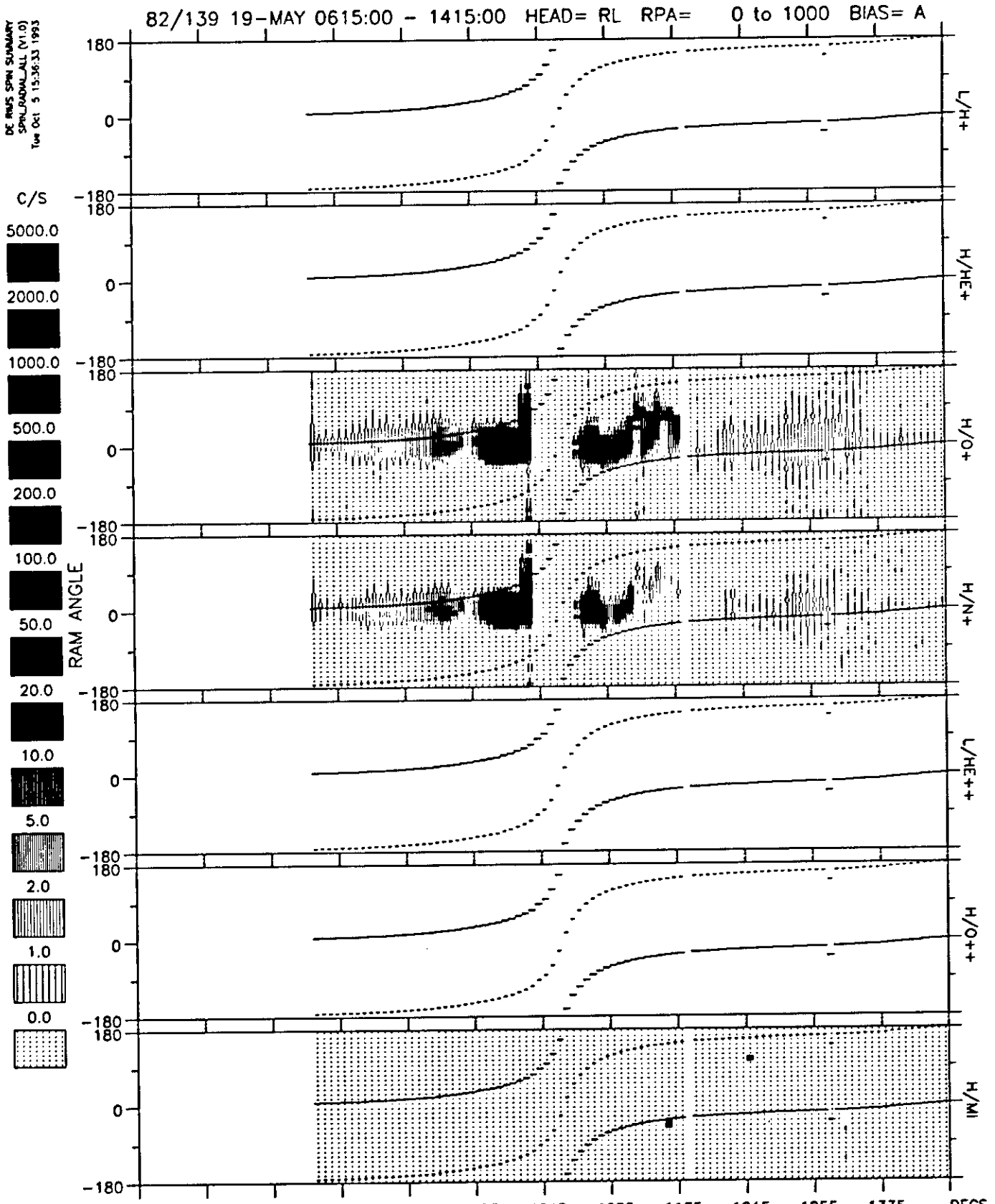
TIME	0310	0350	0000	0510	0550	0630	0710	0750	0830	0000	0000	DEGS
RE	4.6	4.6	0.0	3.9	3.0	1.8	1.3	2.6	3.6	0.0	0.0	HHMM
L	4.7	5.0	0.0	5.8	7.8	65.3	3.7	9.6	5.5	0.0	0.0	RE
MLT	19.1	19.0	0.0	18.5	18.0	12.6	6.0	19.9	19.2	0.0	0.0	
MLAT	7.33	15.84	0.00	35.36	51.46	78.88	*****	*****	*****	0.00	0.00	HRS
INVLAT	62.5	63.4	0.0	65.4	69.0	82.9	58.5	71.2	64.9	0.0	0.0	DEGS



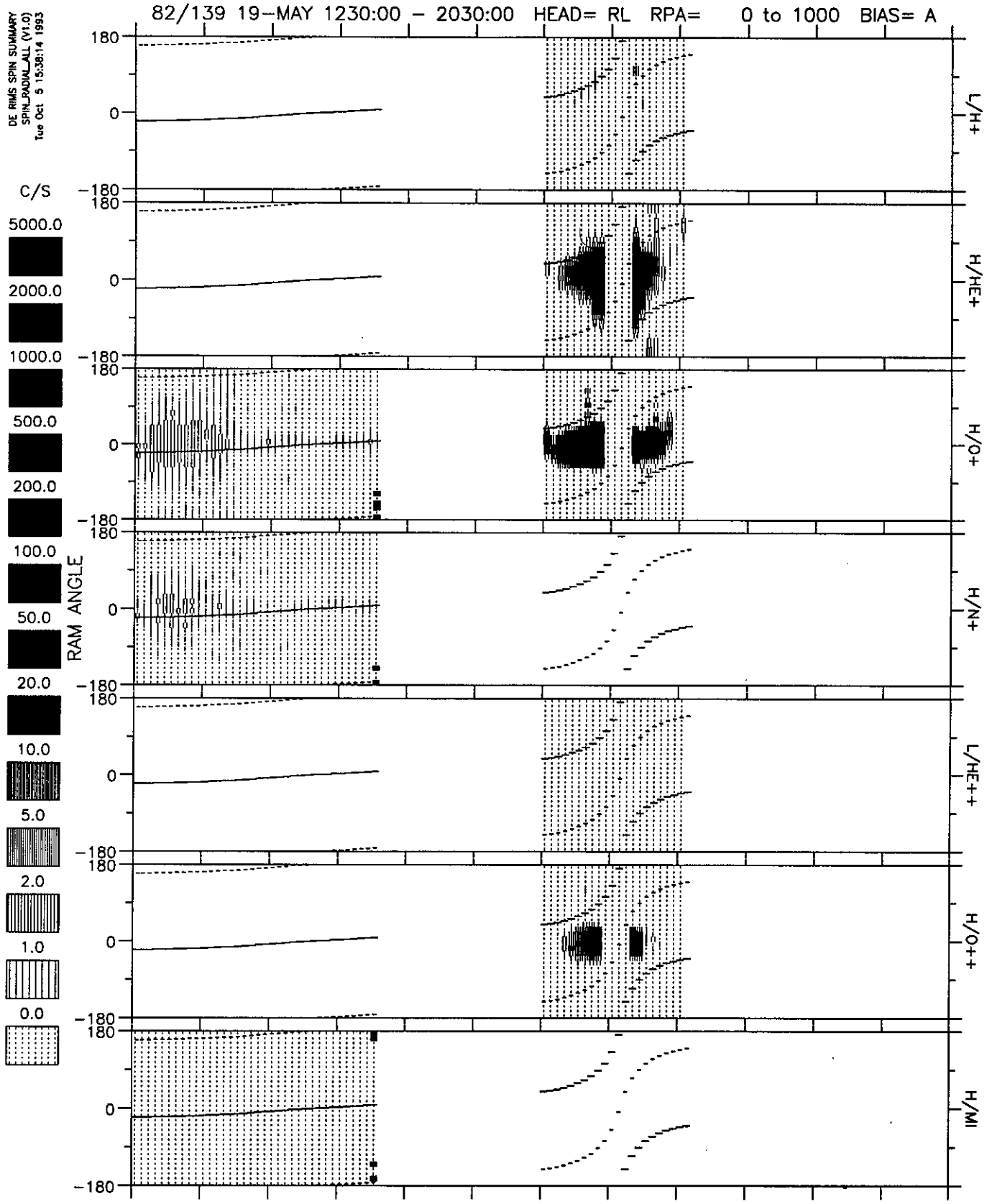
TIME	0000	0000	0000	0000	0000	0000	2040	2120	2200	2240	2320	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	3.3	4.1	4.5	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.1	4.1	4.2	4.6	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	7.5	18.7	19.2	19.3	19.3	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-6.64	5.71	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	20.7	66.1	60.3	60.8	62.3	DEGS



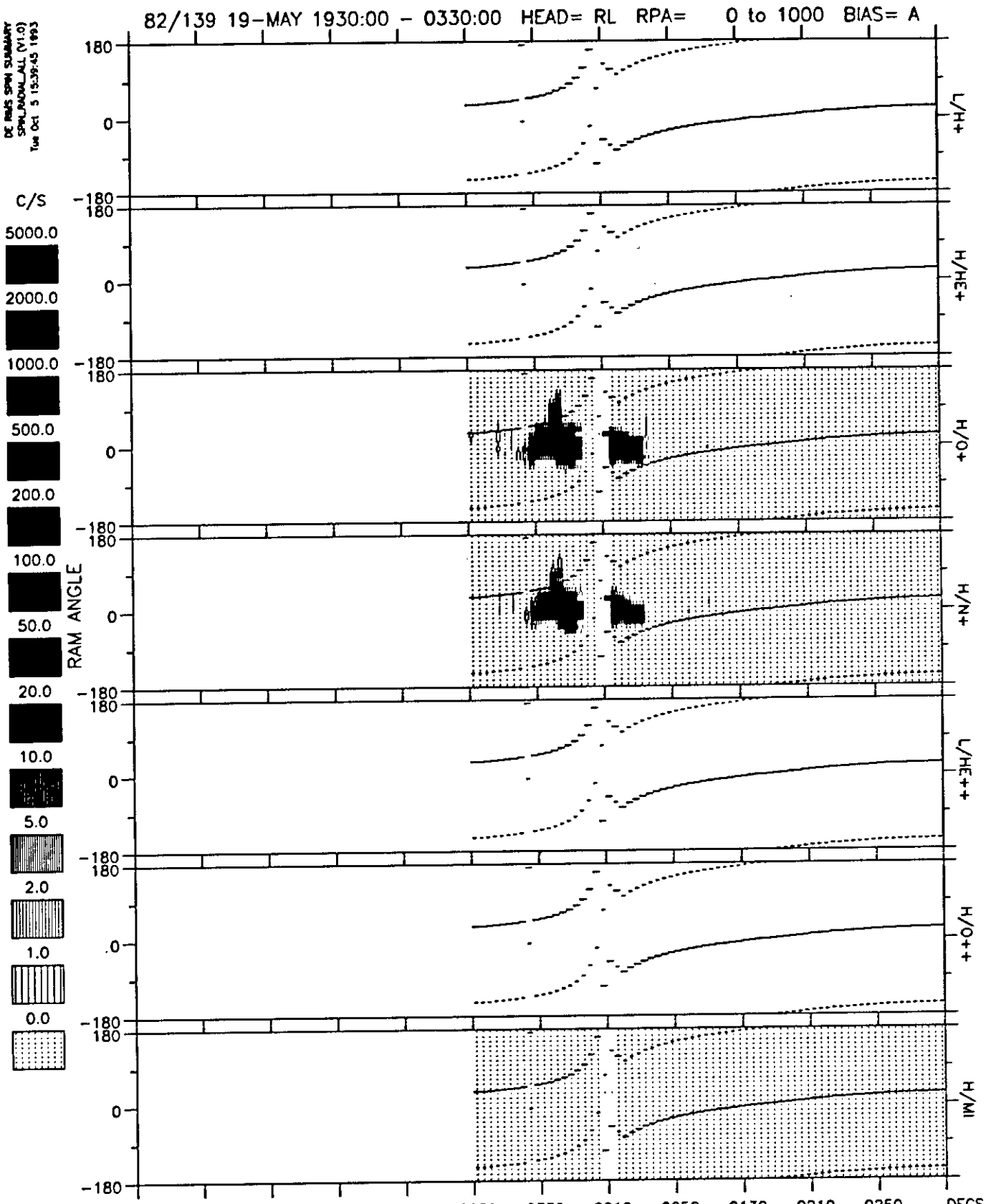
TIME	2340	0000	0000	0000	0000	0300	0340	0000	0000	0000	0000	DEGS
RE	4.6	0.0	0.0	0.0	0.0	1.9	1.2	0.0	0.0	0.0	0.0	HHMM
L	4.9	0.0	0.0	0.0	0.0	71.0	4.0	0.0	0.0	0.0	0.0	RE
MLT	19.3	0.0	0.0	0.0	0.0	10.6	6.1	0.0	0.0	0.0	0.0	
MLAT	11.12	0.00	0.00	0.00	0.00	78.56	*****	0.00	0.00	0.00	0.00	HRS
INVLAT	63.1	0.0	0.0	0.0	0.0	83.2	60.0	0.0	0.0	0.0	0.0	DEGS



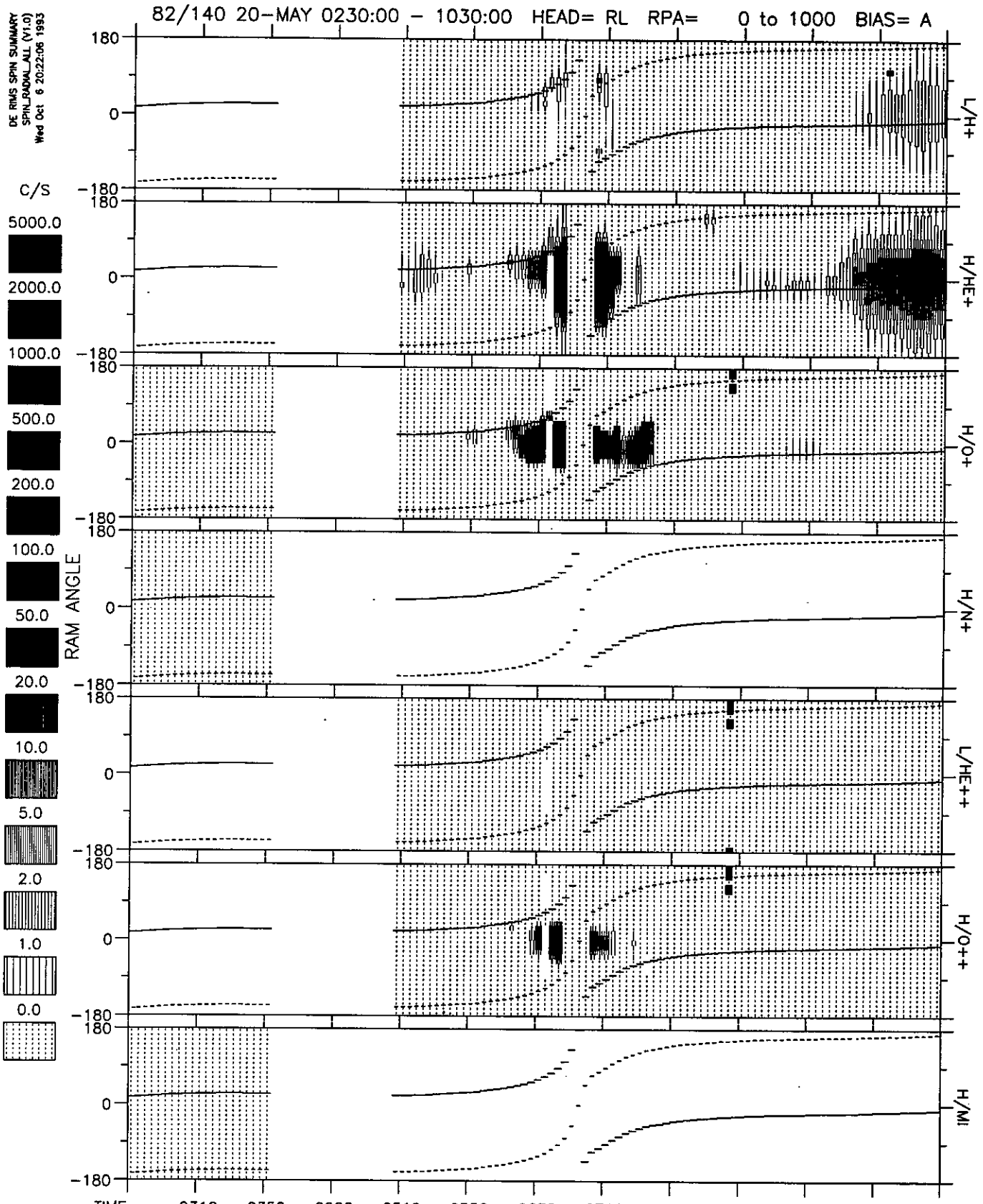
TIME	0000	0000	0815	0855	0935	1015	1055	1135	1215	1255	1335	DEGS
RE	0.0	0.0	4.2	3.5	2.4	1.1	2.0	3.2	4.0	4.5	4.7	HHMM
L	0.0	0.0	4.7	5.1	10.5	1.5	100.0	7.5	5.4	4.9	4.7	RE
MLT	0.0	0.0	18.6	18.4	18.1	6.9	19.6	18.7	18.6	18.7	18.8	
MLAT	0.00	0.00	20.48	34.49	59.81	31.63	*****	*****	*****	*****	-6.78	HRS
INVLAT	0.0	0.0	62.5	63.8	72.0	35.8	86.3	68.5	64.4	63.0	62.5	DEGS



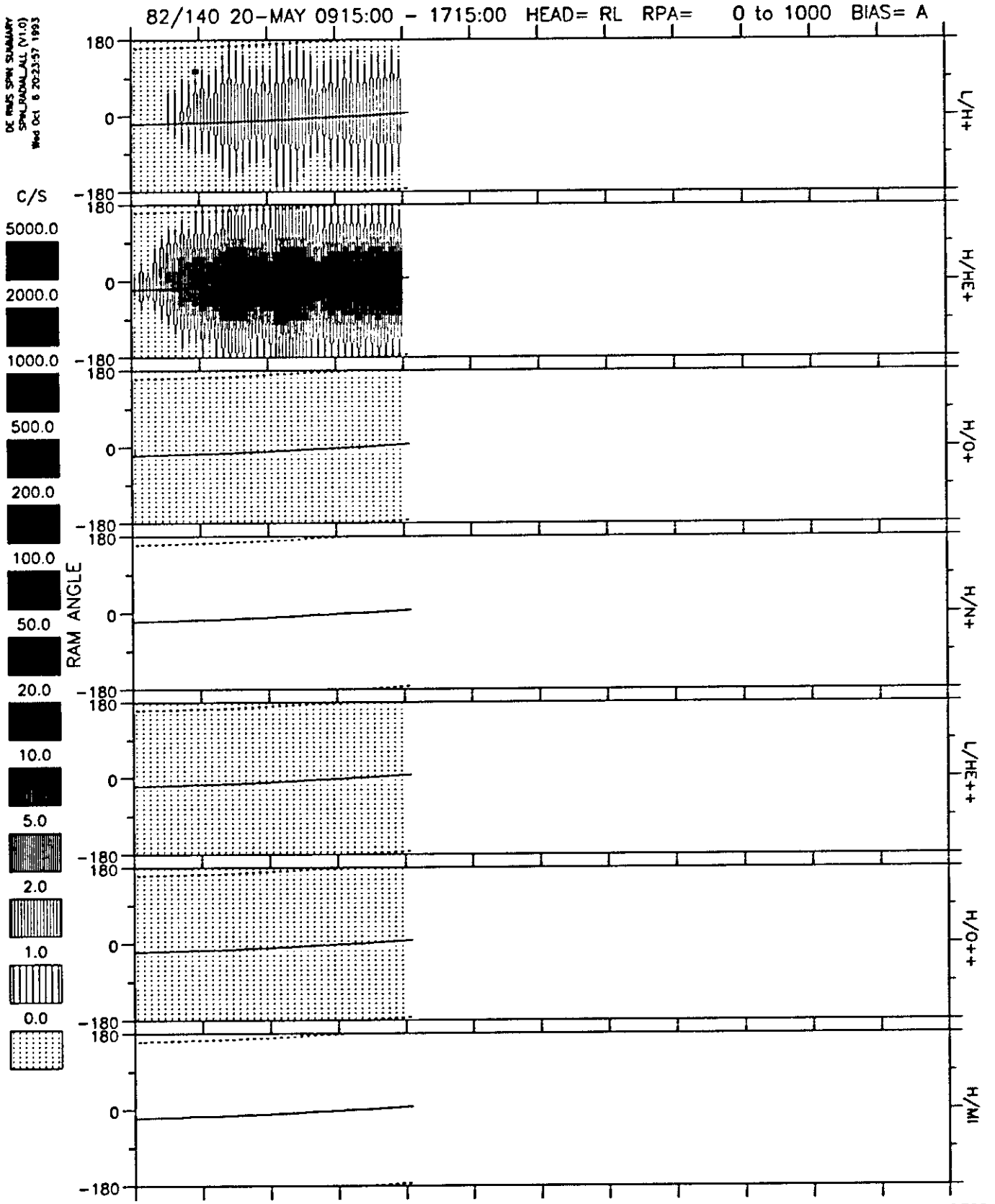
TIME	1310	1350	1430	0000	0000	1630	1710	1750	0000	0000	0000	DEGS
RE	4.6	4.7	4.5	0.0	0.0	2.3	1.1	2.2	0.0	0.0	0.0	HHMM
L	4.8	4.6	4.6	0.0	0.0	17.8	1.0	10.1	0.0	0.0	0.0	RE
MLT	18.7	18.8	18.9	0.0	0.0	21.1	7.0	17.6	0.0	0.0	0.0	
MLAT	*****	-2.51	9.22	0.00	0.00	68.56	1.91	*****	0.00	0.00	0.00	HRS
INVLAT	62.8	62.3	62.3	0.0	0.0	76.3	13.1	71.7	0.0	0.0	0.0	DEGS



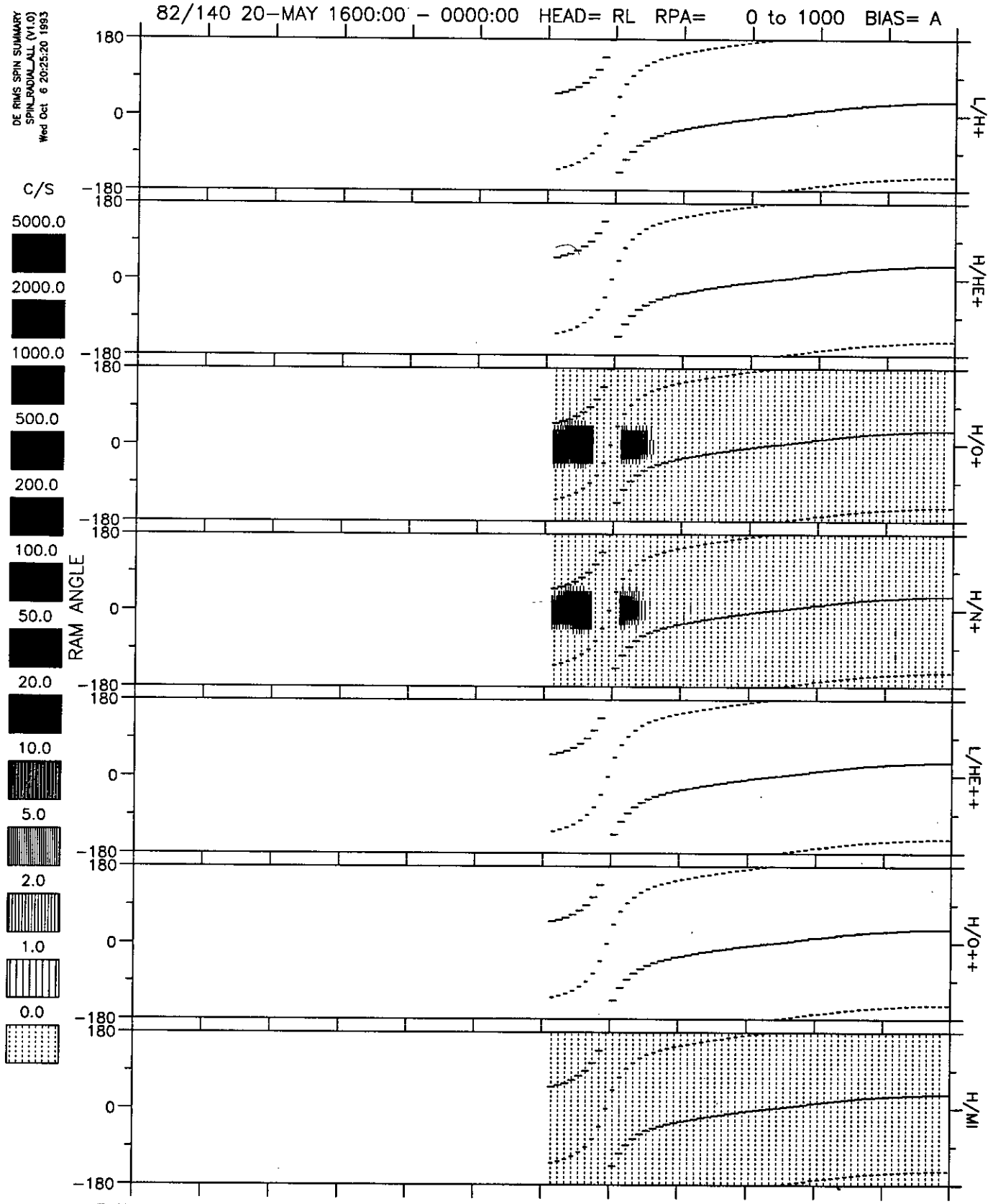
TIME	0000	0000	0000	0000	2250	2330	0010	0050	0130	0210	0250	DEGS
RE	0.0	0.0	0.0	0.0	3.1	1.9	1.2	2.5	3.5	4.2	4.6	HHMM
L	0.0	0.0	0.0	0.0	13.2	100.0	3.6	4.9	4.0	4.3	4.6	RE
MLT	0.0	0.0	0.0	0.0	19.5	7.3	7.1	19.4	19.3	19.2	19.0	
MLAT	0.00	0.00	0.00	0.00	61.75	81.99	*****	*****	*****	-6.97	3.21	HRS
INVLAT	0.0	0.0	0.0	0.0	74.0	85.6	58.1	63.2	60.1	61.0	62.1	DEGS



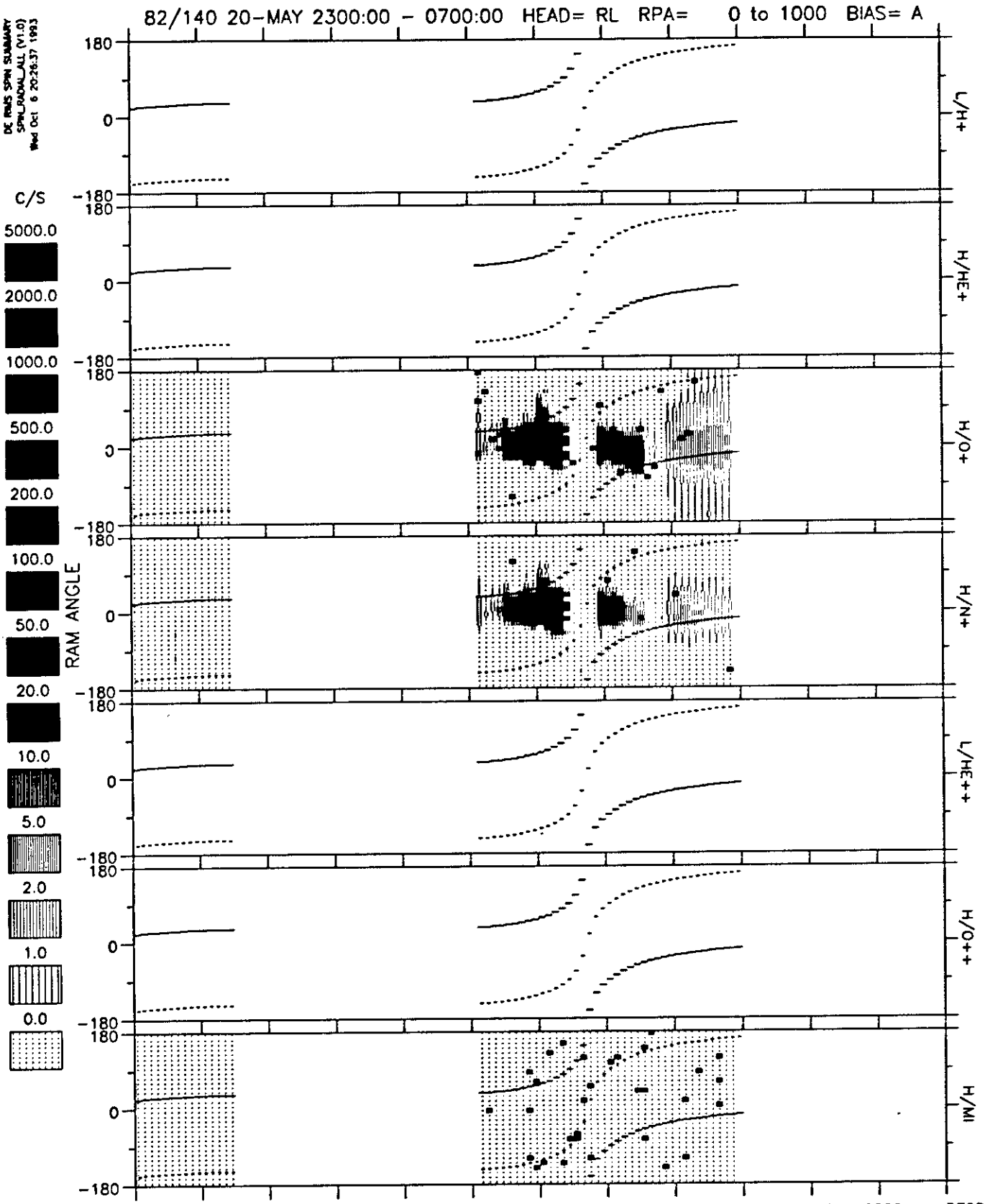
TIME	0310	0350	0000	0510	0550	0630	0710	0750	0830	0910	0950	DEGS
RE	4.6	4.6	0.0	3.8	2.9	1.6	1.4	2.7	3.7	4.3	4.6	HHMM
L	4.7	5.0	0.0	5.7	8.2	23.5	8.0	8.7	5.5	5.0	4.7	RE
MLT	19.0	18.8	0.0	18.4	17.8	10.0	5.1	19.6	19.1	18.9	18.7	
MLAT	7.65	16.12	0.00	36.21	53.55	75.13	*****	*****	*****	*****	*****	HRS
INVLAT	62.6	63.4	0.0	65.3	69.6	78.1	69.2	70.2	64.8	63.3	62.7	DEGS



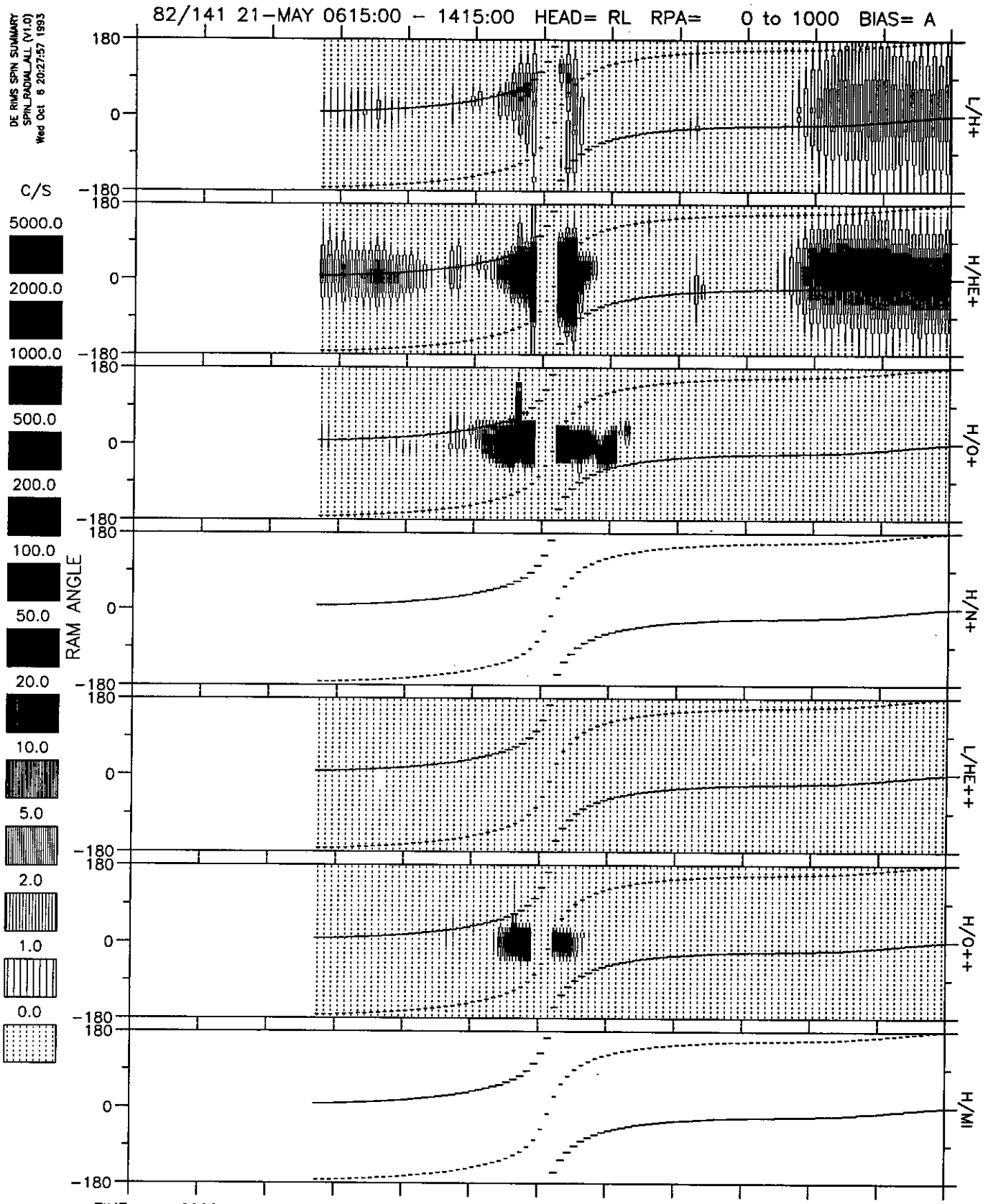
TIME	0955	1035	1115	1155	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.6	4.7	4.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.7	4.6	4.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	18.7	18.6	18.6	18.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	•••••	-1.18	9.41	20.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.6	62.1	61.9	62.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



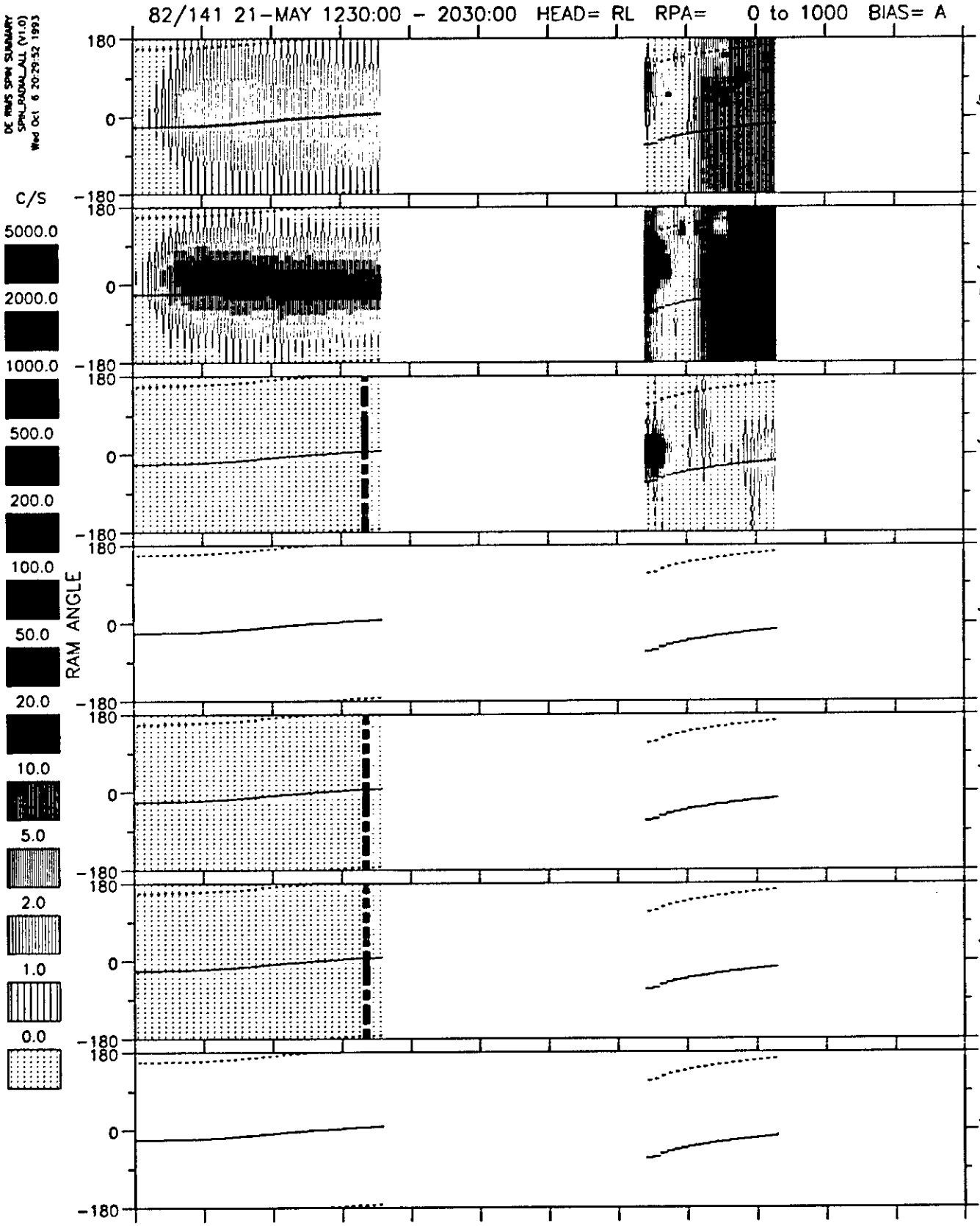
TIME	0000	0000	0000	0000	0000	0000	2040	2120	2200	2240	2320	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.4	3.5	4.2	4.5	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.4	4.1	4.3	4.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	7.6	18.7	19.1	19.2	19.2	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-5.56	6.45	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	45.8	64.6	60.3	61.0	62.4	DEGS



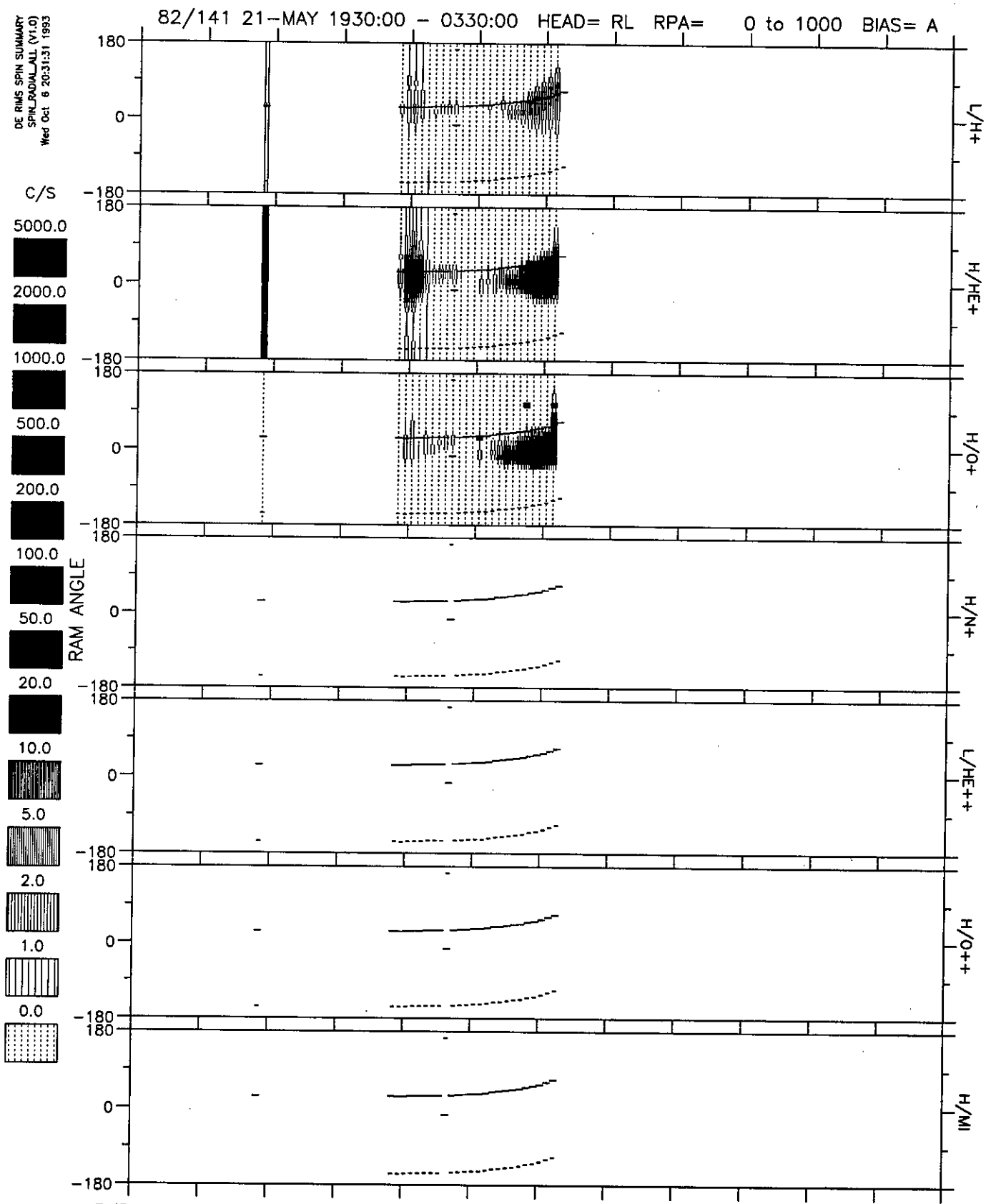
TIME	2340	0000	0000	0000	0000	0300	0340	0420	0000	0000	0000	DEGS
RE	4.6	0.0	0.0	0.0	0.0	1.7	1.4	2.7	0.0	0.0	0.0	HHMM
L	4.9	0.0	0.0	0.0	0.0	23.1	10.4	5.8	0.0	0.0	0.0	RE
MLT	19.1	0.0	0.0	0.0	0.0	9.1	4.9	19.7	0.0	0.0	0.0	
MLAT	11.74	0.00	0.00	0.00	0.00	72.33	*****	*****	0.00	0.00	0.00	HRS
INVLAT	63.2	0.0	0.0	0.0	0.0	78.0	71.9	65.4	0.0	0.0	0.0	DEGS



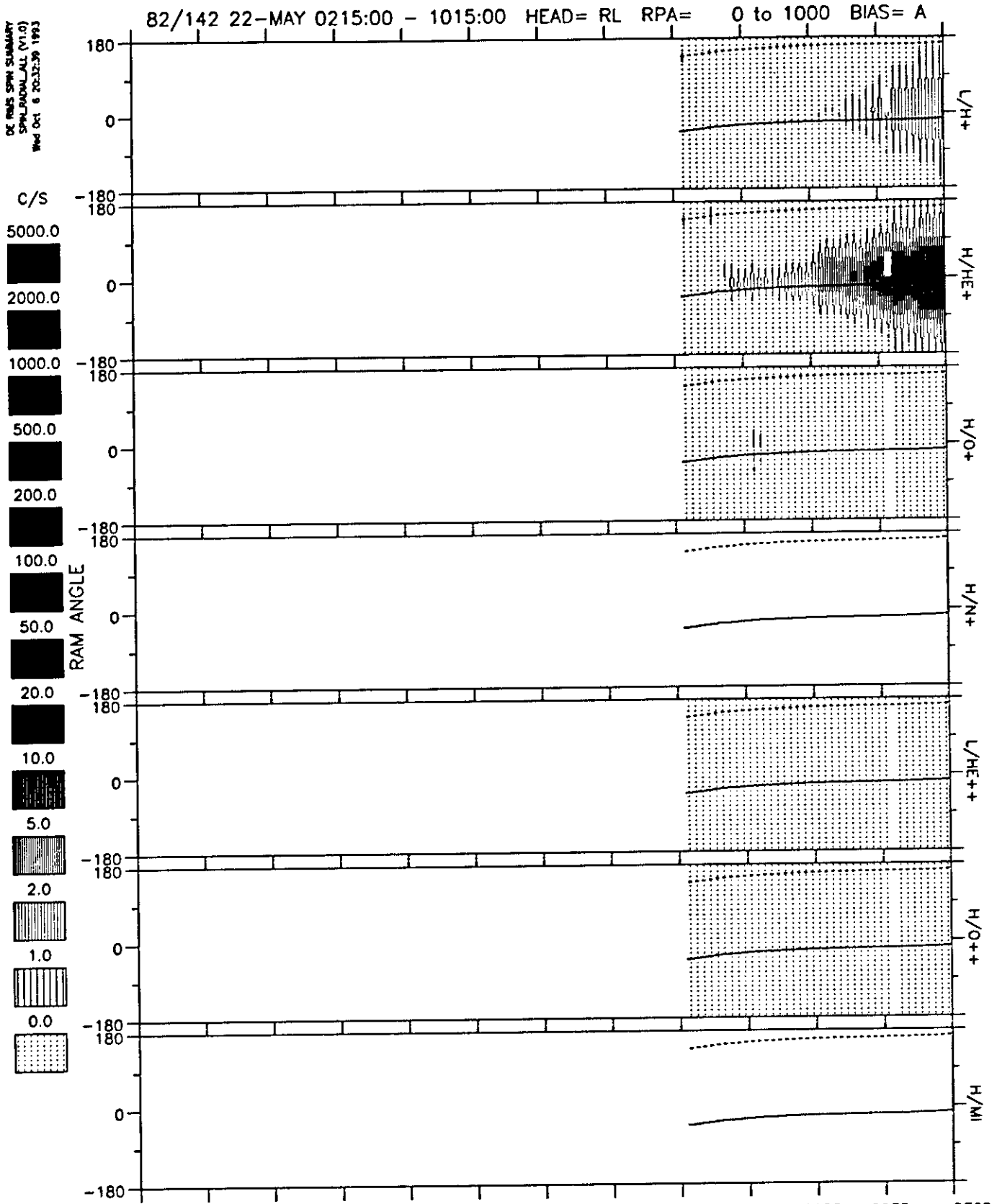
TIME	0000	0000	0815	0855	0935	1015	1055	1135	1215	1255	1335	DEGS
RE	0.0	0.0	4.1	3.3	2.2	1.1	2.2	3.3	4.1	4.5	4.7	HHMM
L	0.0	0.0	4.7	5.2	13.7	1.2	57.6	7.1	5.3	4.9	4.7	RE
MLT	0.0	0.0	18.4	18.3	17.9	6.6	18.9	18.5	18.5	18.5	18.6	
MLAT	0.00	0.00	21.19	36.04	64.23	8.58	*****	*****	*****	*****	-5.95	HRS
INVLAT	0.0	0.0	62.4	63.9	74.3	21.7	82.4	67.9	64.3	63.0	62.4	DEGS



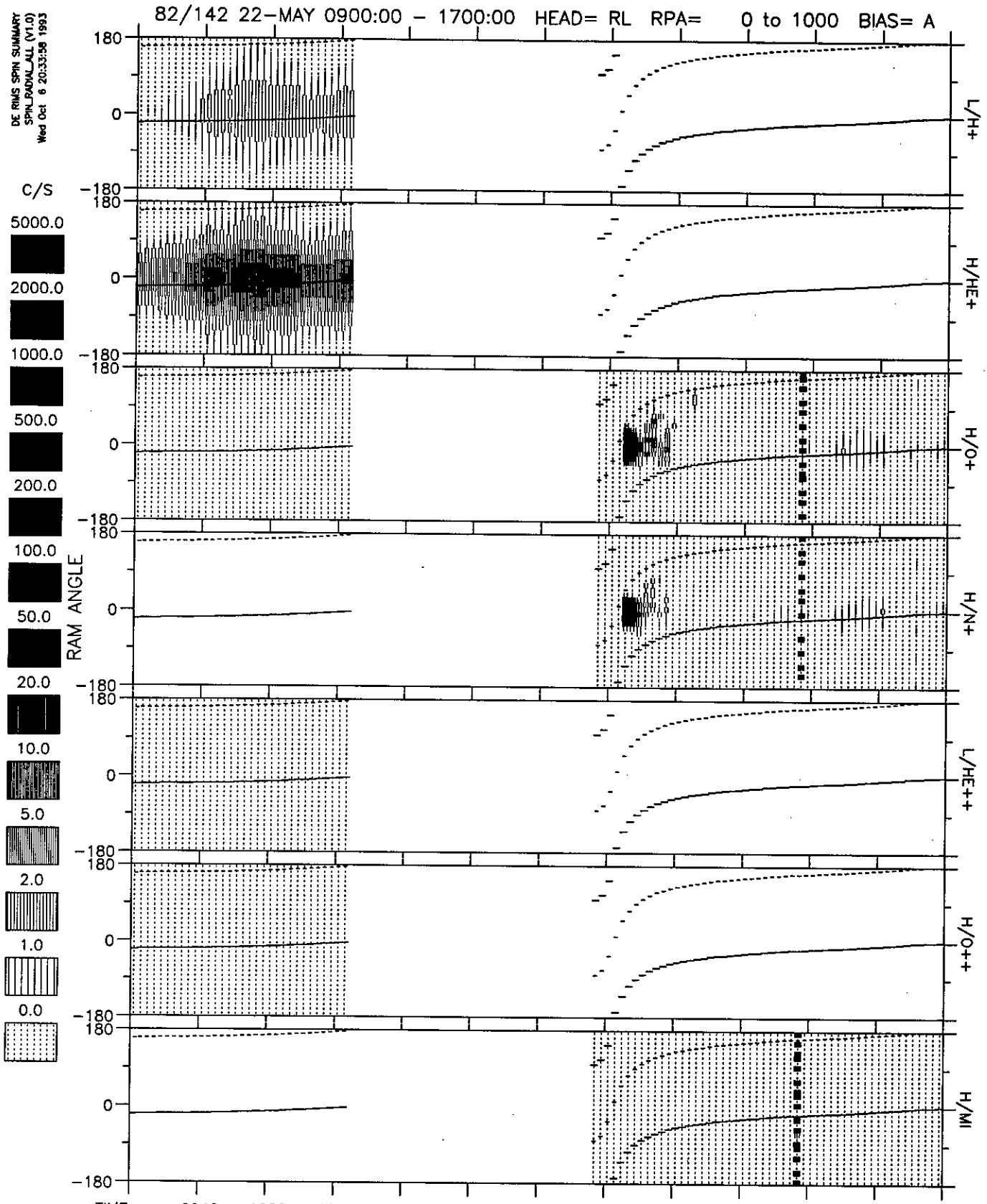
TIME	1310	1350	1430	0000	0000	0000	0000	1750	1830	0000	0000	DEGS
RE	4.6	4.7	4.5	0.0	0.0	0.0	0.0	2.3	3.4	0.0	0.0	HHMM
L	4.8	4.6	4.6	0.0	0.0	0.0	0.0	8.4	4.8	0.0	0.0	RE
MLT	18.5	18.7	18.8	0.0	0.0	0.0	0.0	17.7	18.6	0.0	0.0	
MLAT	•••••	-1.66	10.21	0.00	0.00	0.00	0.00	•••••	•••••	0.00	0.00	HRS
INVLAT	62.8	62.3	62.3	0.0	0.0	0.0	0.0	69.8	62.7	0.0	0.0	DEGS



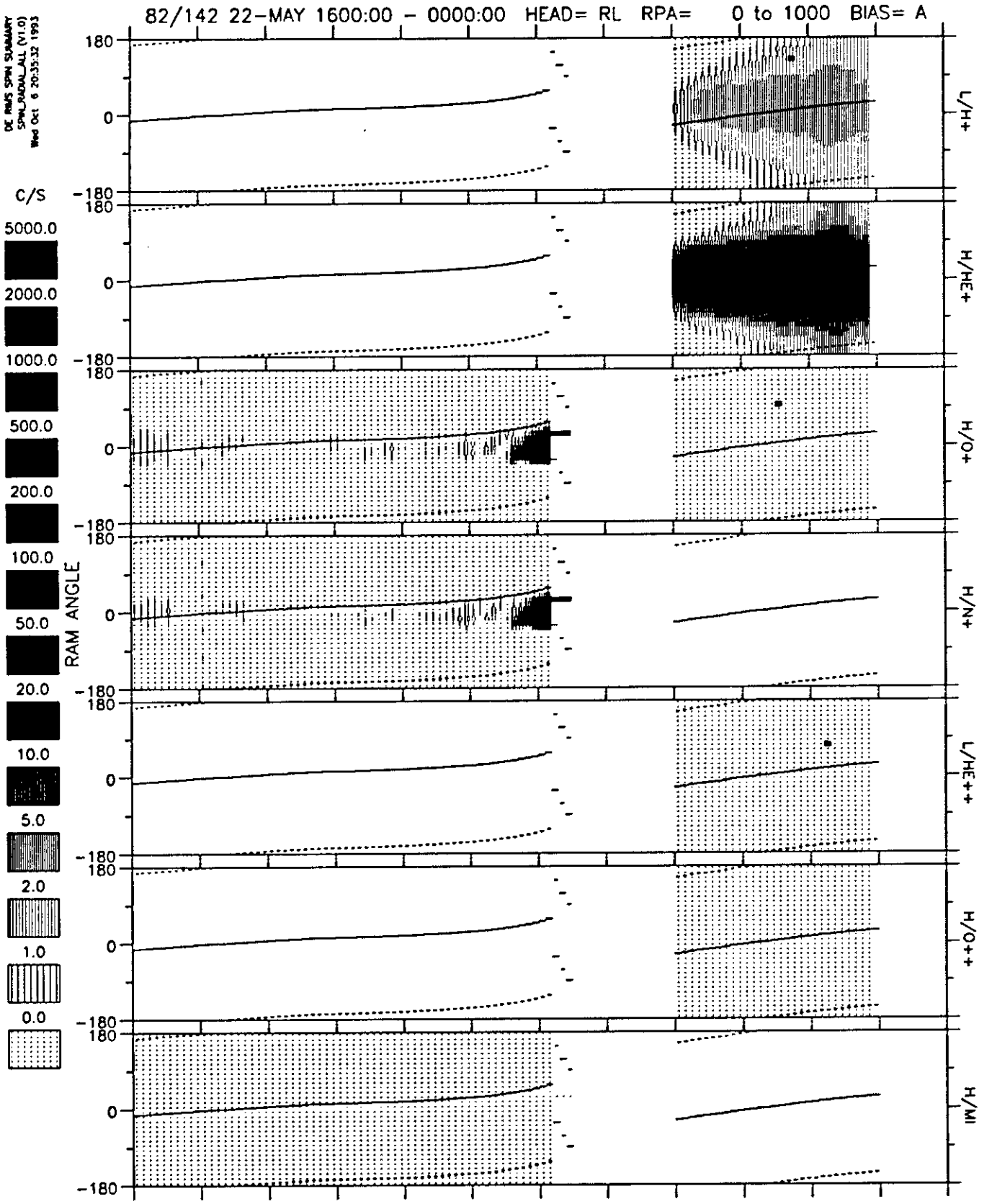
TIME	0000	0000	0000	2210	2250	2330	0000	0000	0000	0000	0000	DEGS.
RE	0.0	0.0	0.0	3.9	3.0	1.8	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	7.5	14.7	34.1	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	19.4	19.3	7.2	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	44.63	64.11	74.47	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	68.5	74.9	80.1	0.0	0.0	0.0	0.0	0.0	DEGS



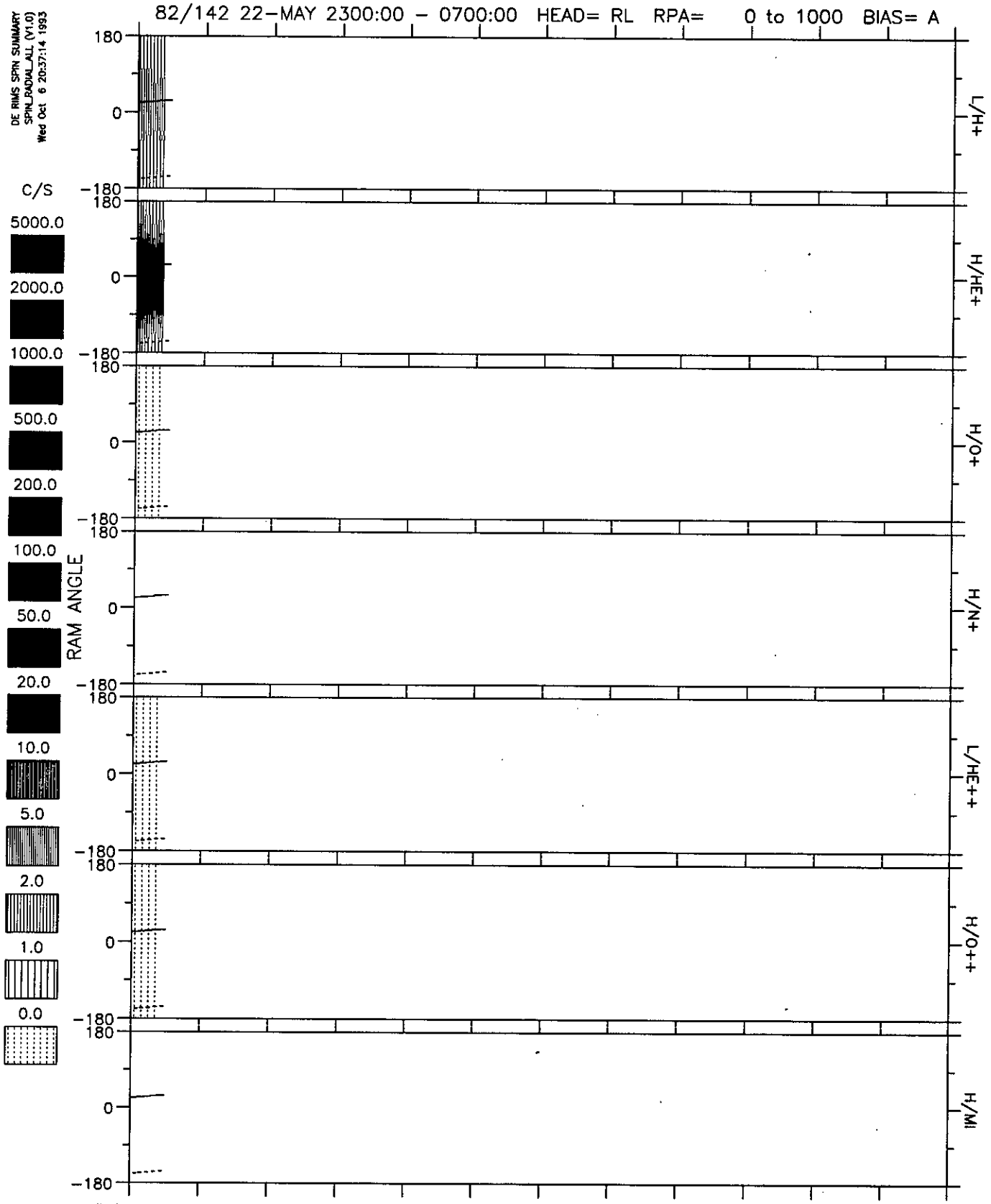
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0815	0855	0935	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.2	4.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.1	4.8	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	18.8	18.6	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.8	63.8	62.9	DEGS



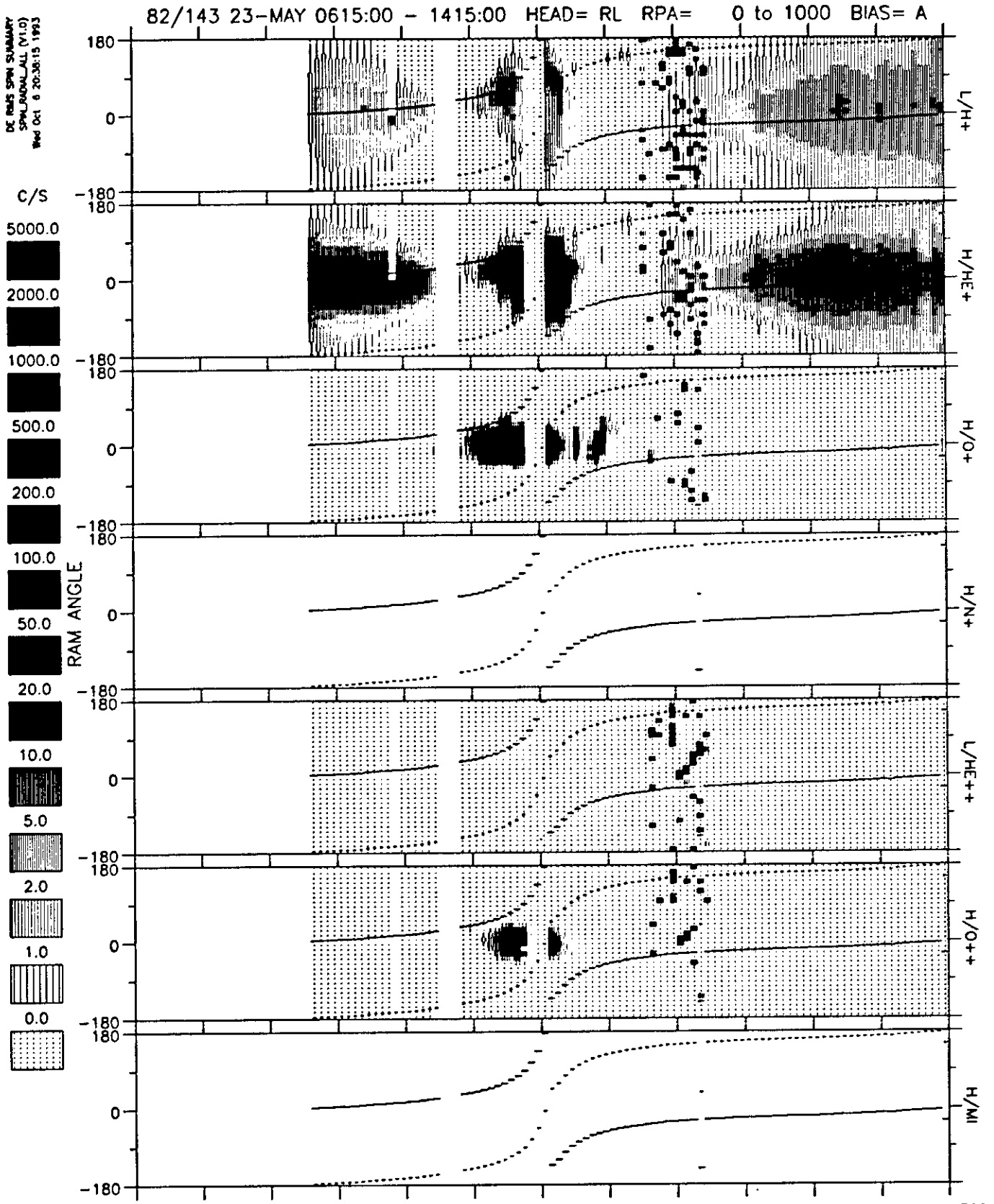
TIME	0940	1020	1100	0000	0000	0000	1340	1420	1500	1540	1620	DEGS
RE	4.6	4.7	4.5	0.0	0.0	0.0	1.1	2.3	3.4	4.1	4.5	HHMM
L	4.8	4.6	4.5	0.0	0.0	0.0	1.1	19.6	6.0	4.9	4.7	RE
MLT	18.6	18.5	18.5	0.0	0.0	0.0	6.6	17.0	18.1	18.4	18.7	
MLAT	*****	-4.34	5.94	0.00	0.00	0.00	-3.09	*****	*****	*****	-9.52	HRS
INVLAT	62.8	62.3	61.9	0.0	0.0	0.0	16.6	76.9	65.9	63.2	62.6	DEGS



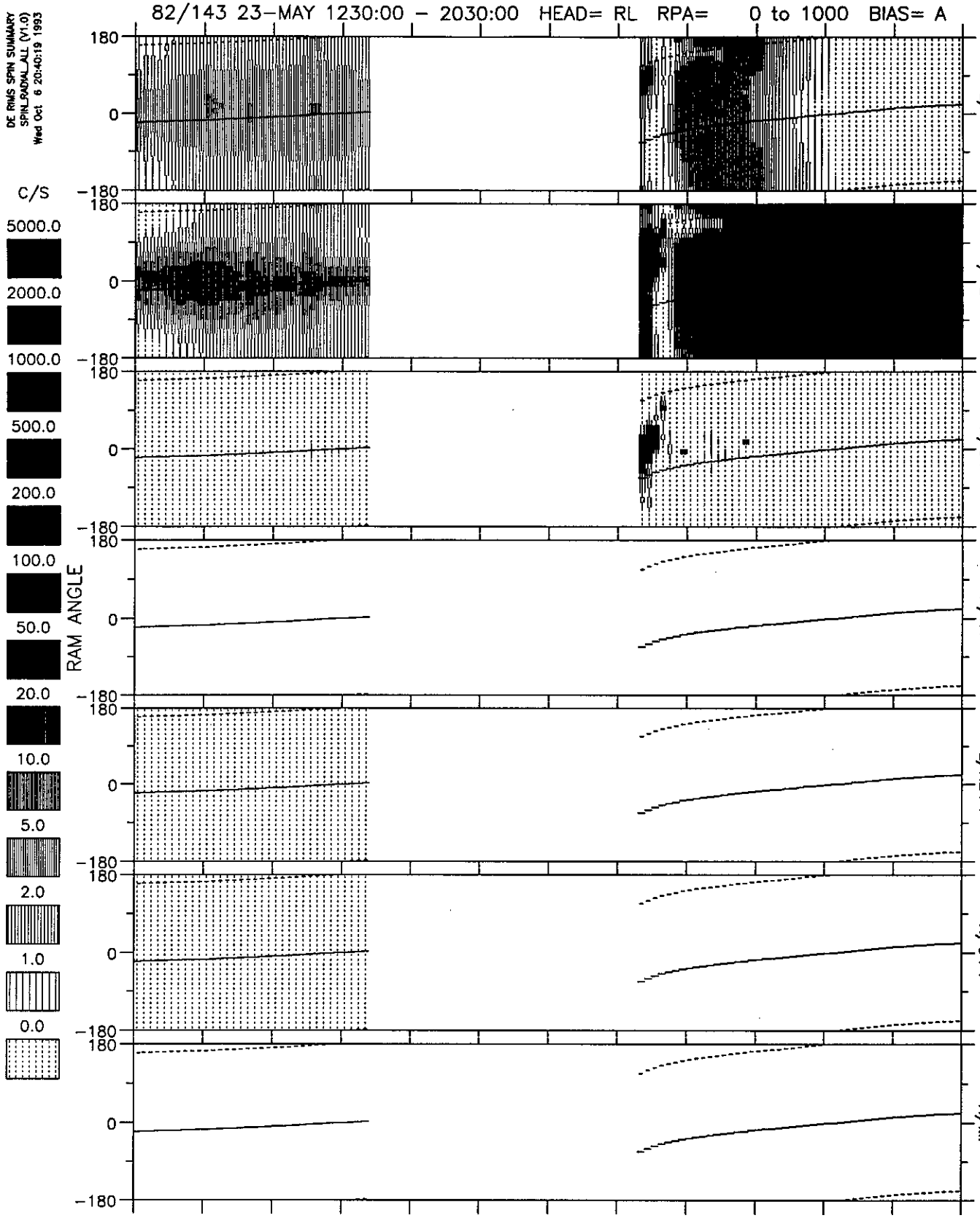
TIME	1640	1720	1800	1840	1920	2000	0000	2120	2200	2240	0000	DEGS
RE	4.6	4.7	4.4	3.9	3.1	1.8	0.0	2.6	3.6	4.2	0.0	HHMM
L	4.7	4.8	5.0	5.7	8.8	66.6	0.0	5.0	4.1	4.3	0.0	RE
MLT	18.8	19.0	19.2	19.5	20.0	3.9	0.0	18.7	19.0	19.0	0.0	
MLAT	-4.43	8.86	21.47	35.70	55.80	78.29	0.00	*****	*****	-4.53	0.00	HRS
INVLAT	62.5	62.8	63.5	65.2	70.3	83.0	0.0	63.5	60.4	61.2	0.0	DEGS



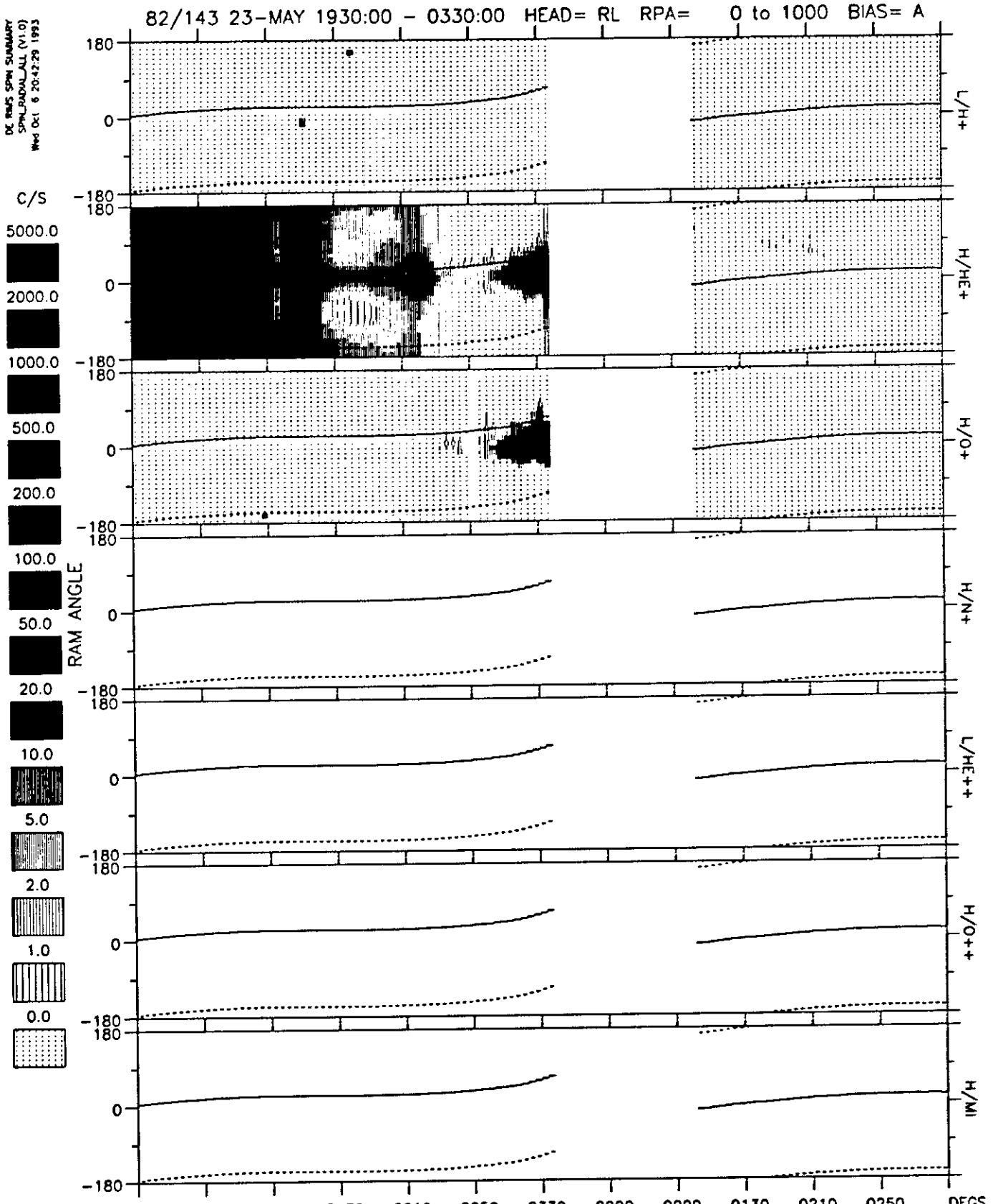
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



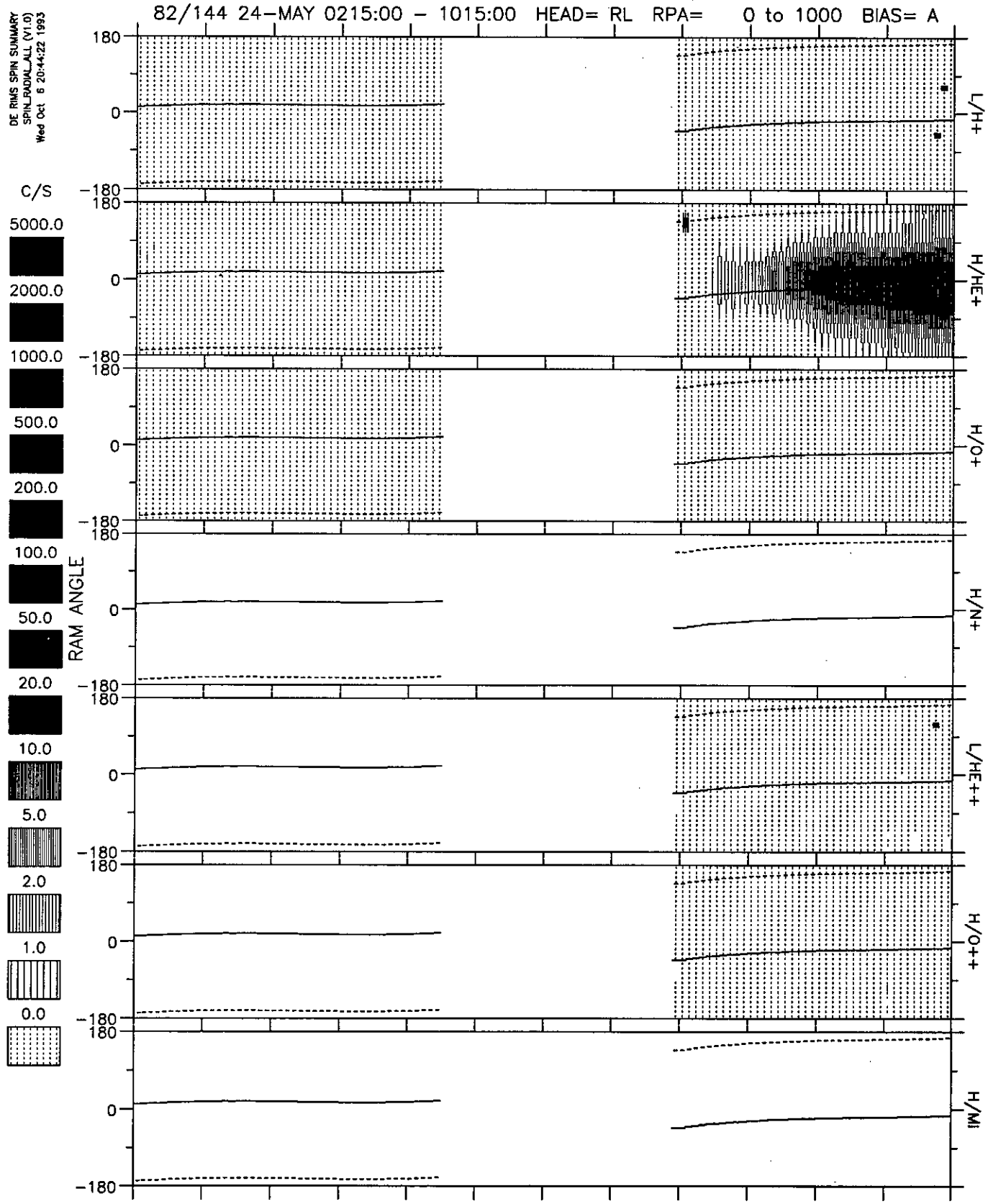
TIME	0000	0000	0815	0855	0935	1015	1055	1135	1215	1255	1335	DEGS
RE	0.0	0.0	4.0	3.2	2.1	1.1	2.4	3.4	4.1	4.5	4.7	HHMM
L	0.0	0.0	4.6	5.2	21.1	1.1	29.3	6.8	5.3	4.9	4.7	RE
MLT	0.0	0.0	18.3	18.1	17.6	6.4	18.6	18.4	18.3	18.4	18.5	
MLAT	0.00	0.00	22.01	37.82	69.62	-1.47	*****	*****	*****	*****	-5.08	HRS
INVLAT	0.0	0.0	62.3	64.1	77.4	21.0	79.4	67.5	64.3	63.0	62.4	DEGS



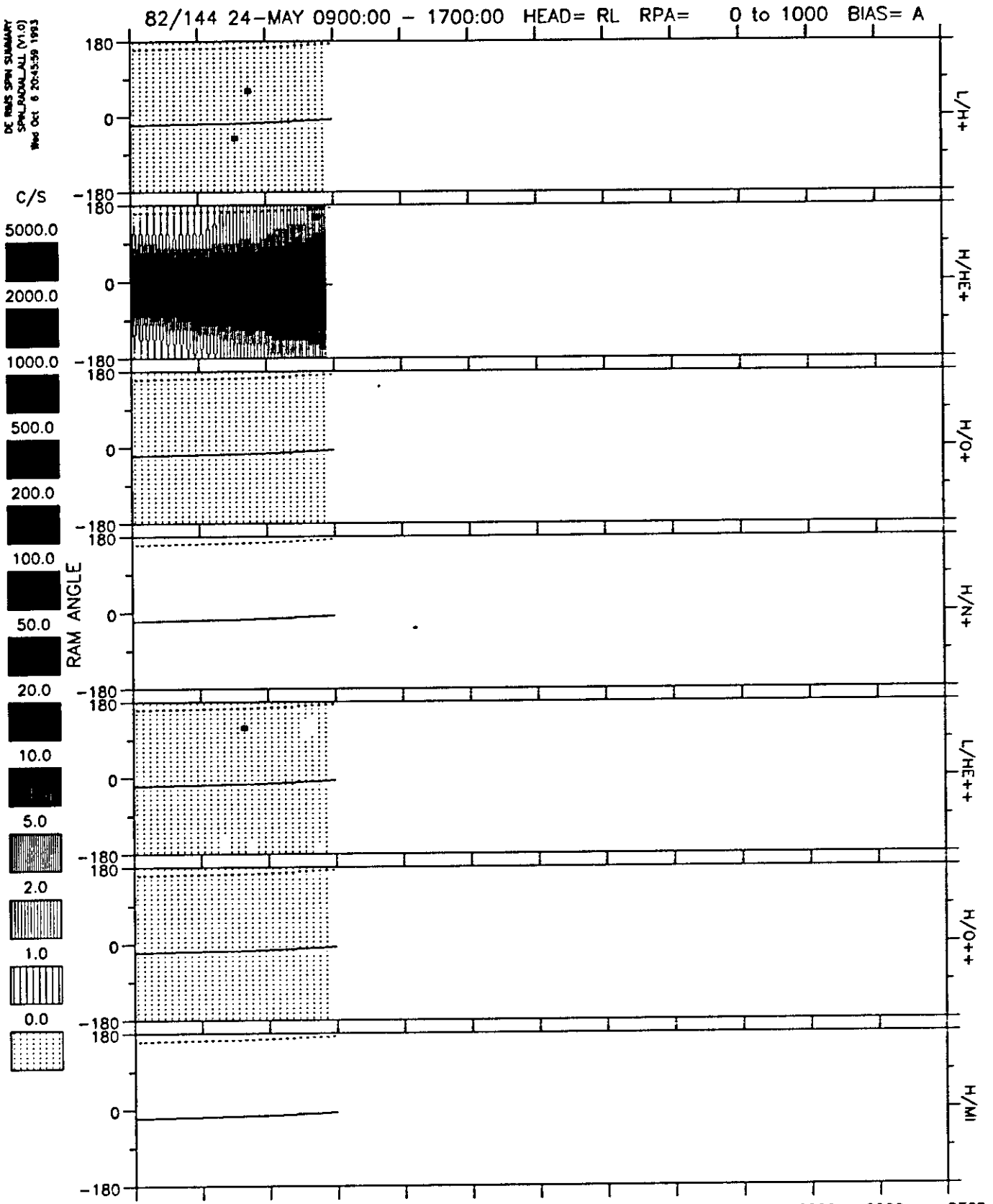
TIME	1310	1350	1430	0000	0000	0000	0000	1750	1830	1910	1950	DEGS
RE	4.6	4.7	4.4	0.0	0.0	0.0	0.0	2.5	3.5	4.2	4.6	HHMM
L	4.8	4.6	4.6	0.0	0.0	0.0	0.0	7.3	4.8	4.5	4.7	RE
MLT	18.4	18.5	18.7	0.0	0.0	0.0	0.0	17.8	18.5	18.8	19.0	
MLAT	*****	-0.80	11.22	0.00	0.00	0.00	0.00	*****	*****	*****	2.05	HRS
INVLAT	62.8	62.3	62.2	0.0	0.0	0.0	0.0	68.3	62.7	61.9	62.4	DEGS



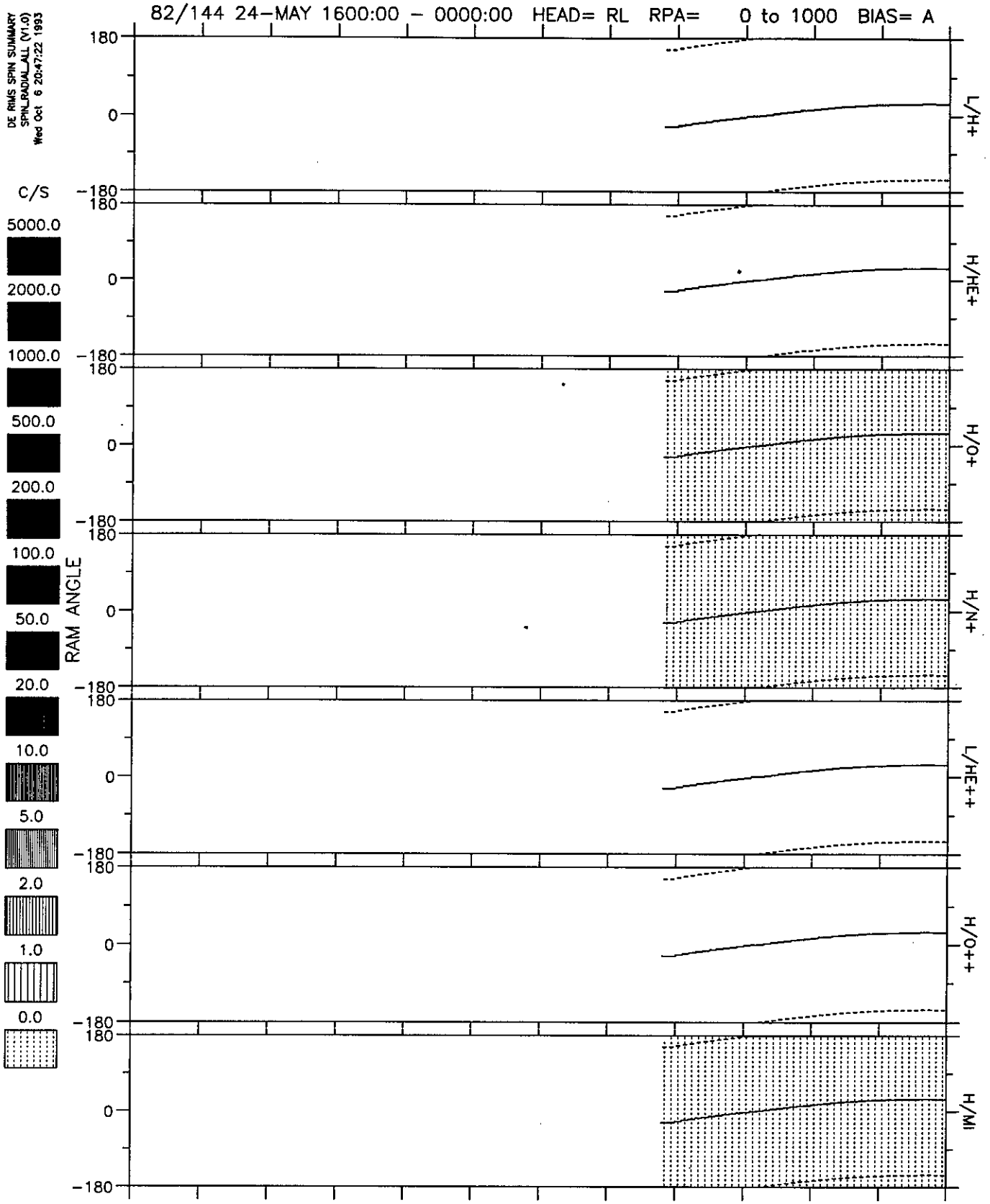
TIME	2010	2050	2130	2210	2250	2330	0000	0000	0130	0210	0250	DEGS
RE	4.7	4.6	4.3	3.8	2.9	1.6	0.0	0.0	3.7	4.3	4.6	HHMM
L	4.8	5.2	6.0	7.7	15.4	11.0	0.0	0.0	4.1	4.4	4.6	RE
MLT	19.0	19.1	19.2	19.2	19.2	7.1	0.0	0.0	19.0	18.9	18.8	
MLAT	8.04	19.65	31.77	46.07	65.06	64.71	0.00	0.00	*****	-5.66	3.96	HRS
INVLAT	62.8	64.0	65.8	68.8	75.2	72.4	0.0	0.0	60.5	61.4	62.3	DEGS



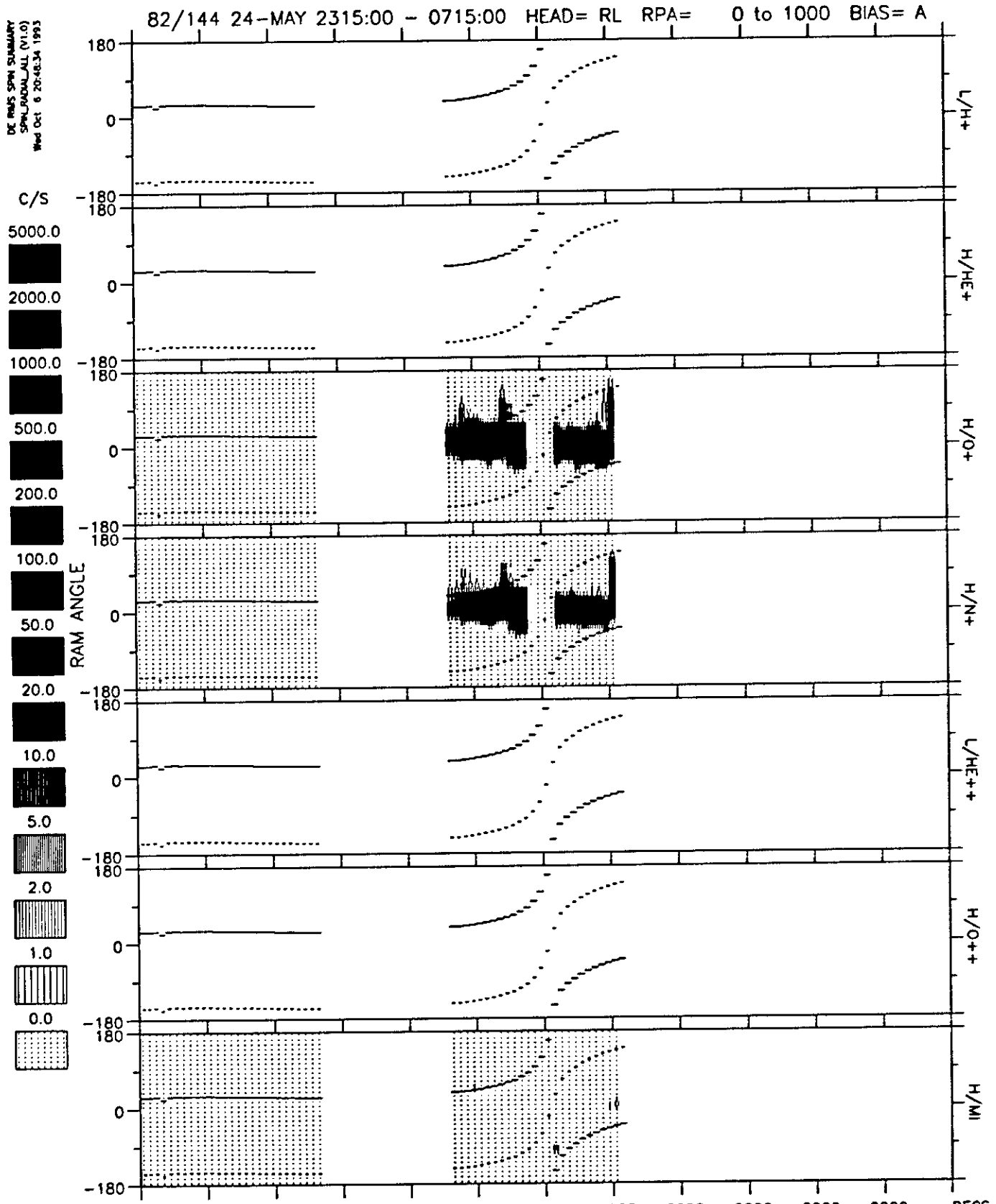
TIME	0255	0335	0415	0455	0000	0000	0000	0735	0815	0855	0935	DEGS
RE	4.6	4.6	4.4	3.9	0.0	0.0	0.0	2.6	3.6	4.2	4.6	HHMM
L	4.7	4.9	5.1	5.4	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	RE
MLT	18.8	18.6	18.4	18.2	0.0	0.0	0.0	19.5	18.9	18.6	18.5	
MLAT	5.07	13.54	22.32	33.06	0.00	0.00	0.00	*****	*****	*****	*****	HRS
INVLAT	62.4	63.1	63.7	64.6	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	DEGS



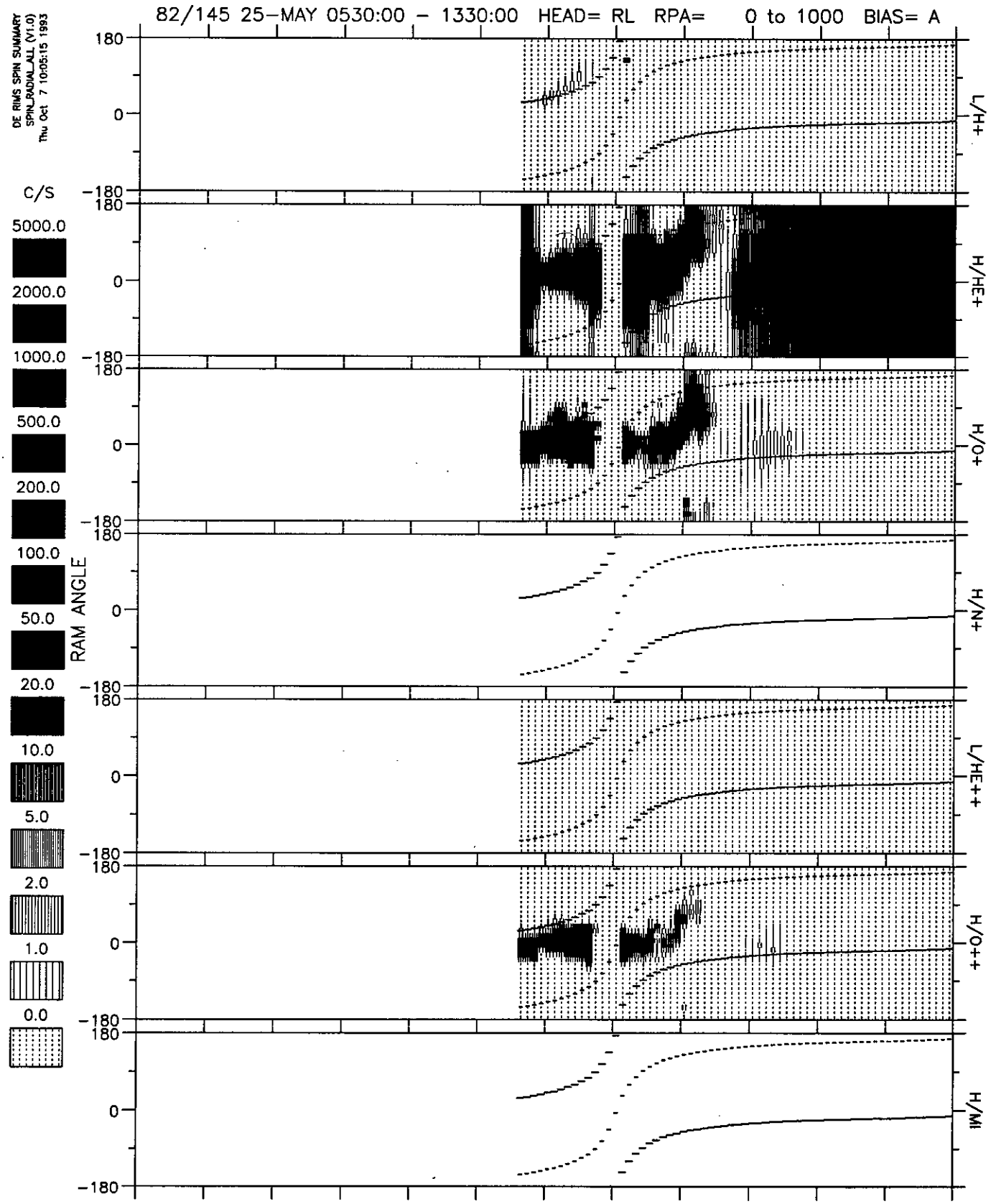
TIME	0940	1020	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	18.5	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	*****	-3.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



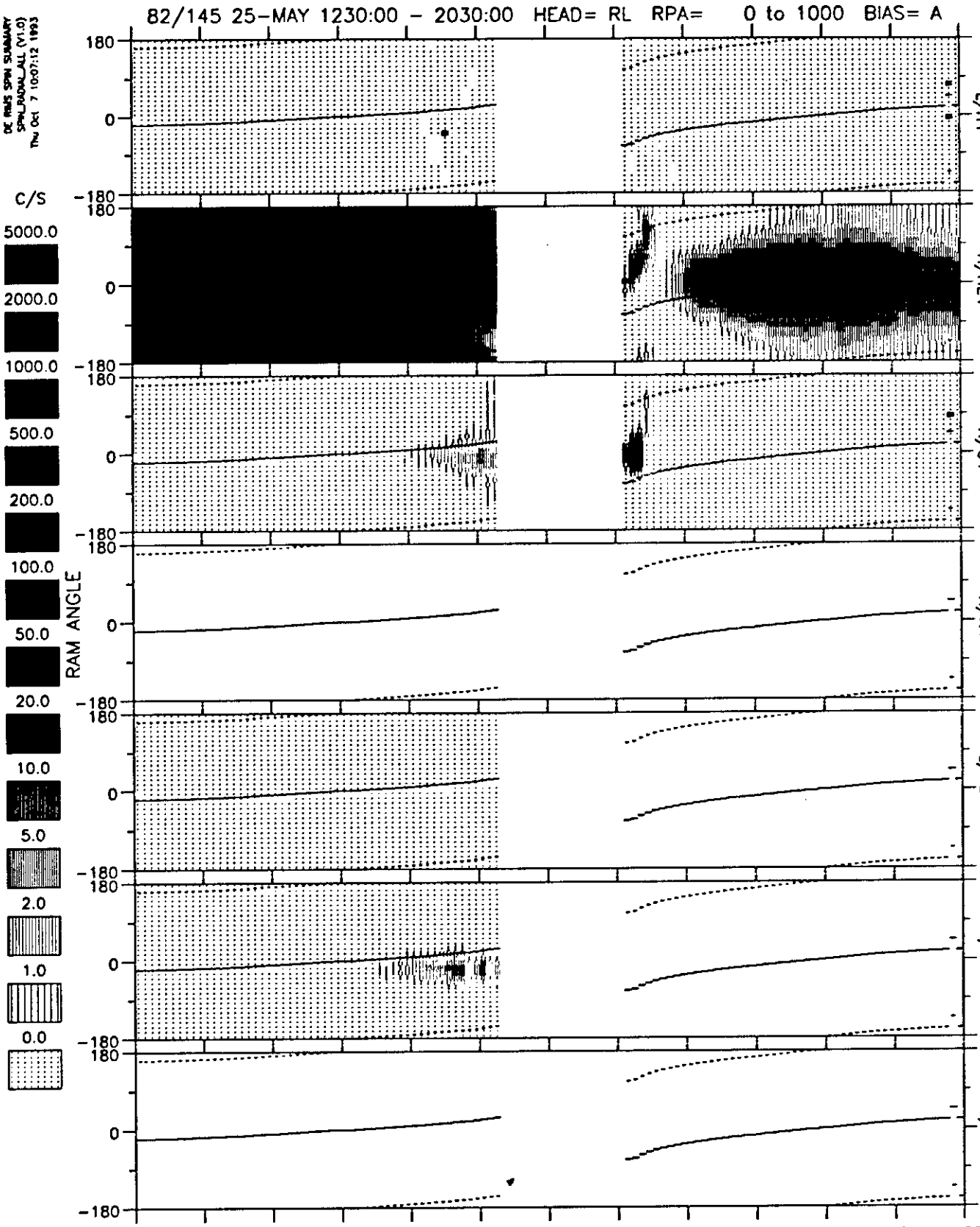
TIME	0000	0000	0000	0000	0000	0000	0000	2120	2200	2240	2320	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.7	4.3	4.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.1	4.4	4.8	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.6	18.9	18.9	18.9	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-3.56	7.83	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.8	60.6	61.4	62.7	DEGS



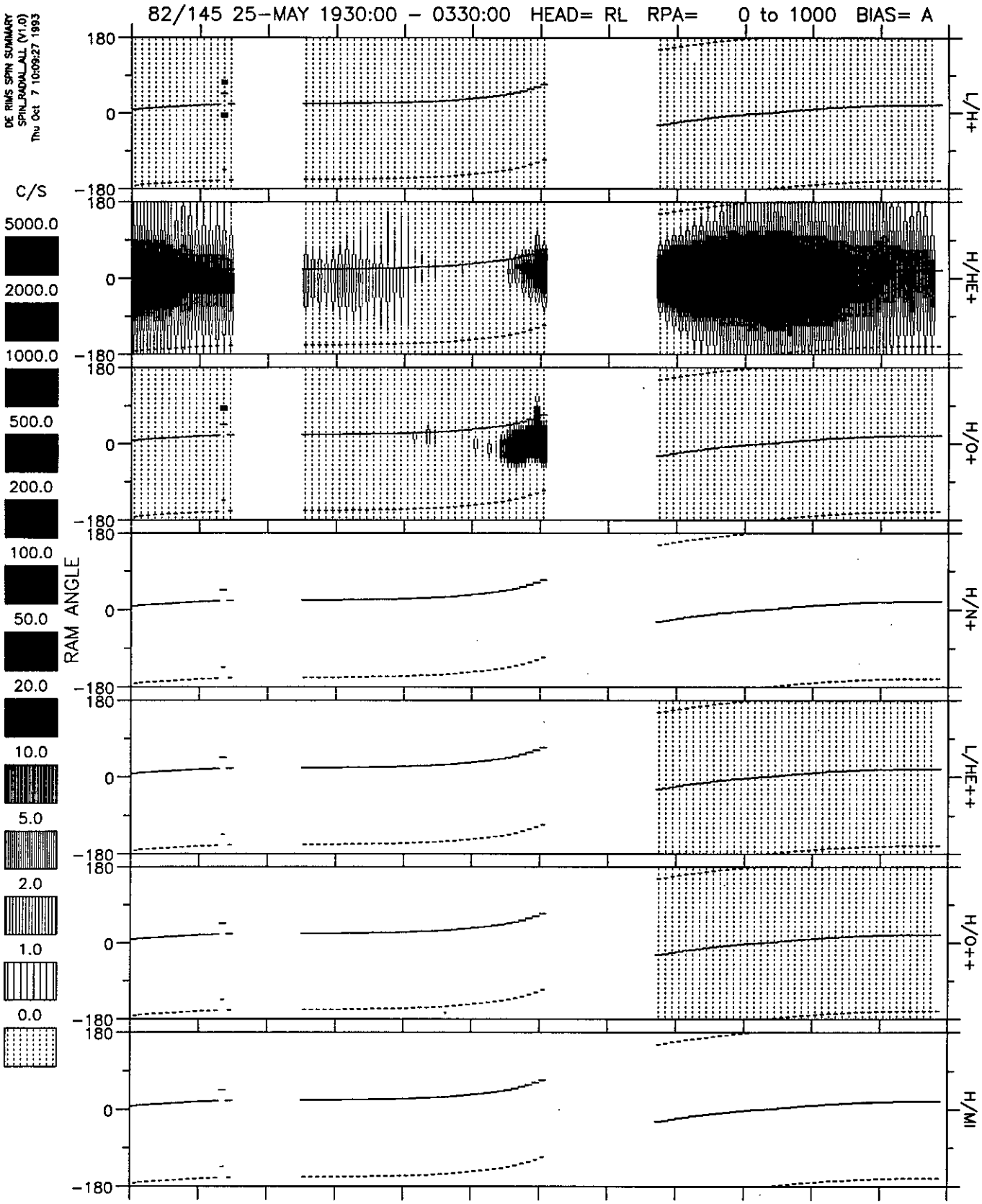
TIME	2355	0035	0000	0000	0235	0315	0355	0000	0000	0000	0000	DEGS
RE	4.7	4.5	0.0	0.0	2.2	1.1	2.2	0.0	0.0	0.0	0.0	HHMM
L	5.2	5.7	0.0	0.0	58.7	1.1	9.3	0.0	0.0	0.0	0.0	RE
MLT	18.9	18.7	0.0	0.0	15.6	6.6	20.0	0.0	0.0	0.0	0.0	
MLAT	16.70	26.73	0.00	0.00	78.04	•••••	•••••	0.00	0.00	0.00	0.00	HRS
INVLAT	63.9	65.2	0.0	0.0	82.5	18.4	70.8	0.0	0.0	0.0	0.0	DEGS



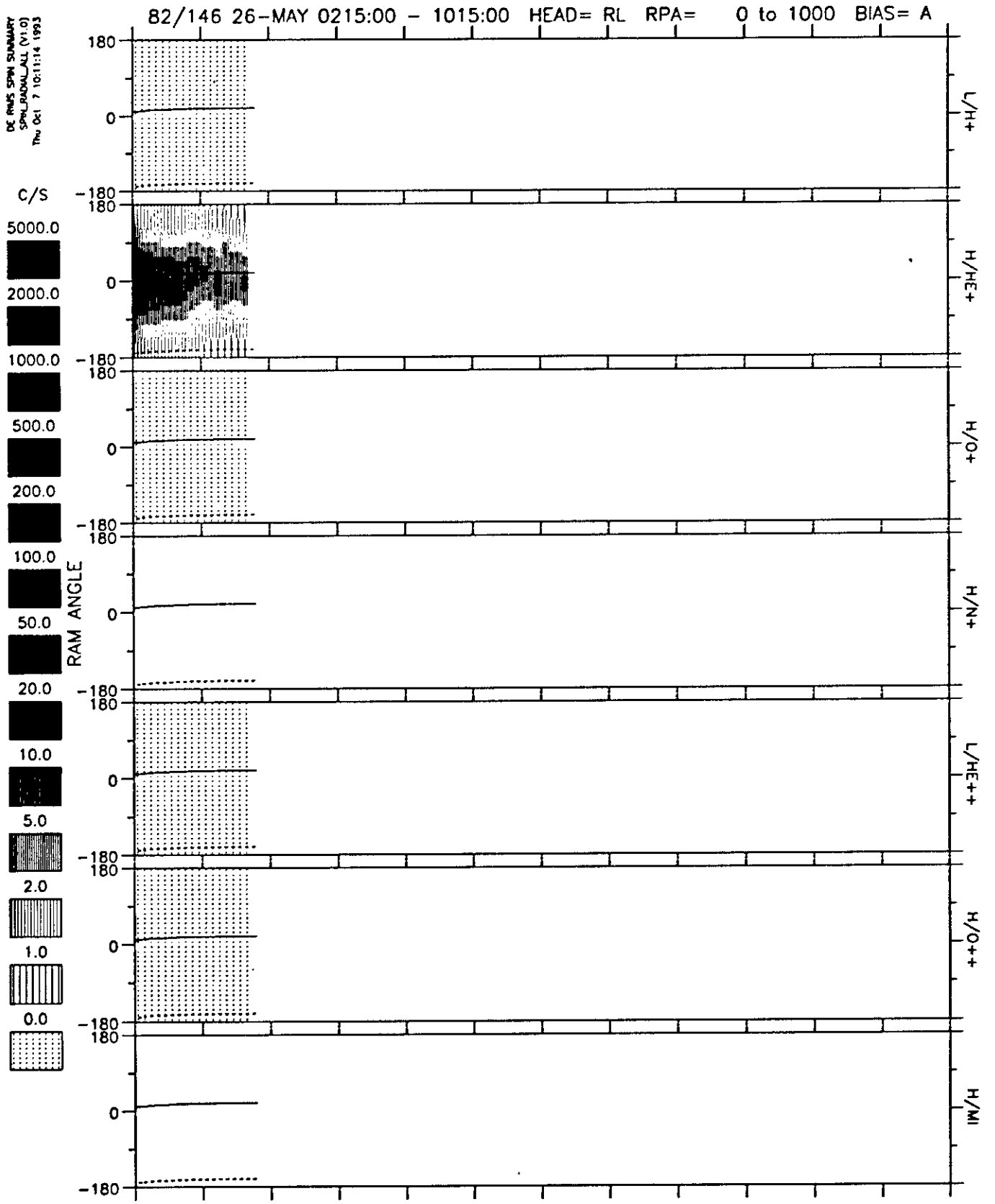
TIME	0000	0000	0000	0000	0000	0930	1010	1050	1130	1210	1250	DEGS
RE	0.0	0.0	0.0	0.0	0.0	2.1	1.1	2.4	3.4	4.1	4.5	HHMM
L	0.0	0.0	0.0	0.0	0.0	19.9	1.2	31.4	7.0	5.4	4.9	RE
MLT	0.0	0.0	0.0	0.0	0.0	17.5	6.3	18.4	18.2	18.2	18.2	
MLAT	0.00	0.00	0.00	0.00	0.00	69.10	*****	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	77.0	26.6	79.7	67.8	64.5	63.1	DEGS



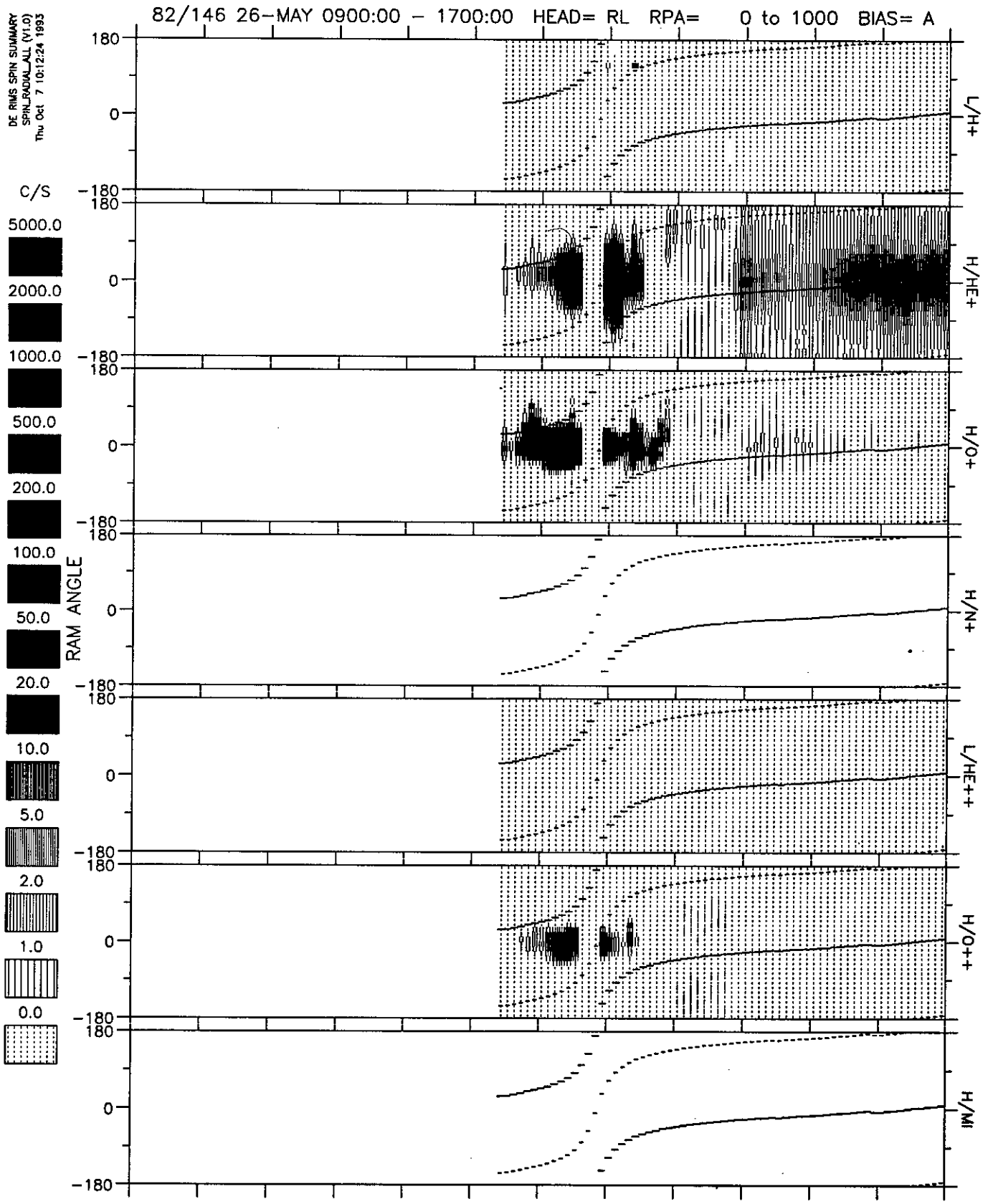
TIME	1310	1350	1430	1510	1550	0000	0000	1750	1830	1910	1950	DEGS
RE	4.6	4.6	4.4	3.9	3.0	0.0	0.0	2.6	3.6	4.3	4.6	HHMM
L	4.8	4.6	4.6	4.8	6.4	0.0	0.0	6.6	4.7	4.5	4.7	RE
MLT	18.3	18.4	18.6	18.9	19.4	0.0	0.0	17.8	18.4	18.7	18.9	
MLAT	•••••	0.10	12.32	26.84	47.20	0.00	0.00	•••••	•••••	-9.82	3.03	HRS
INVLAT	62.8	62.3	62.2	62.9	66.8	0.0	0.0	67.1	62.5	61.9	62.5	DEGS



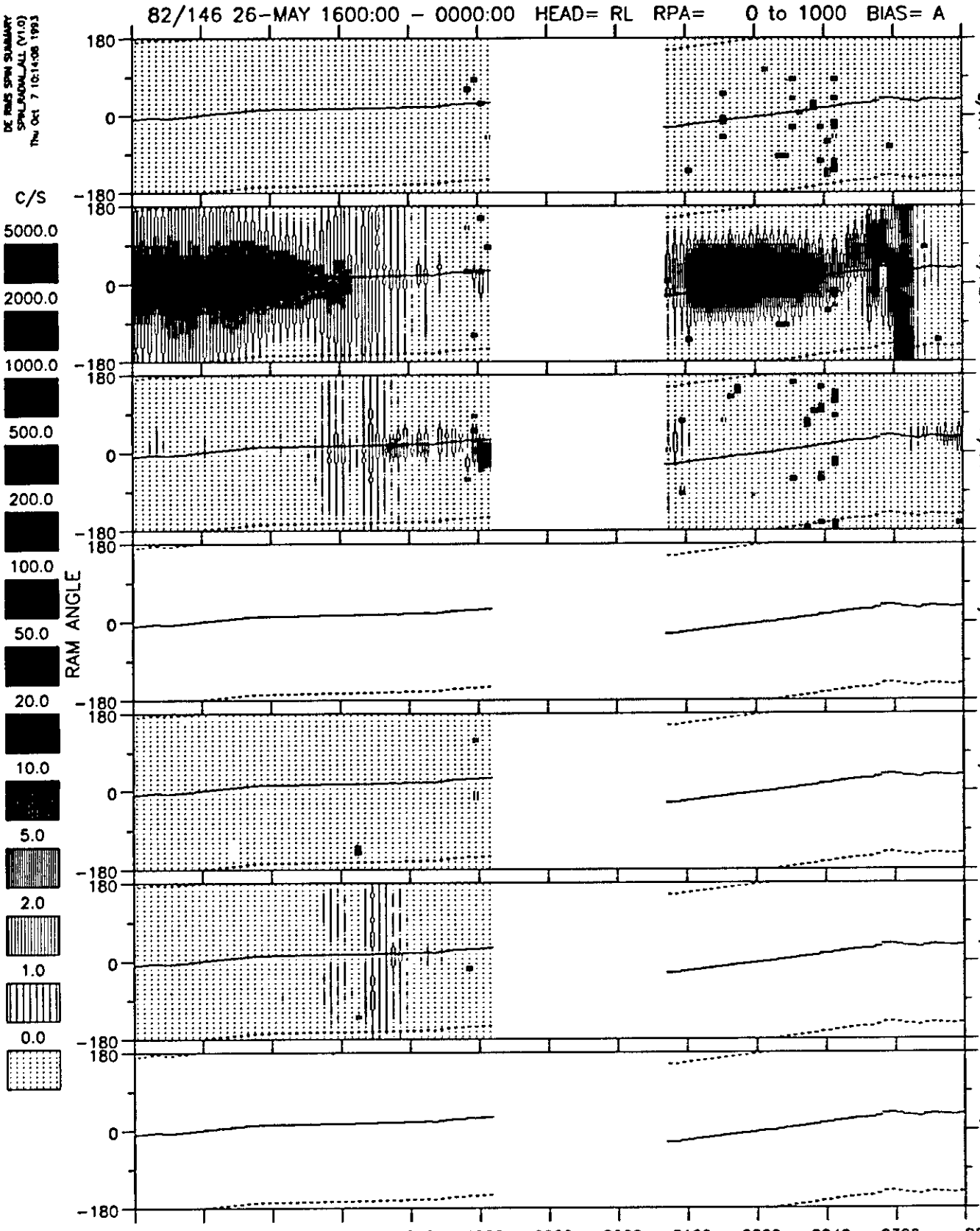
TIME	2010	0000	2130	2210	2250	2330	0000	0050	0130	0210	0250	DEGS
RE	4.7	0.0	4.3	3.7	2.7	1.5	0.0	2.9	3.8	4.4	4.6	HHMM
L	4.8	0.0	6.0	7.9	20.9	6.5	0.0	4.4	4.2	4.4	4.7	RE
MLT	18.9	0.0	19.1	19.1	19.0	7.0	0.0	19.0	18.9	18.8	18.6	
MLAT	8.97	0.00	32.80	47.56	69.86	58.05	0.00	*****	*****	-5.08	4.30	HRS
INVLAT	62.9	0.0	65.9	69.2	77.3	66.8	0.0	61.6	60.7	61.5	62.4	DEGS



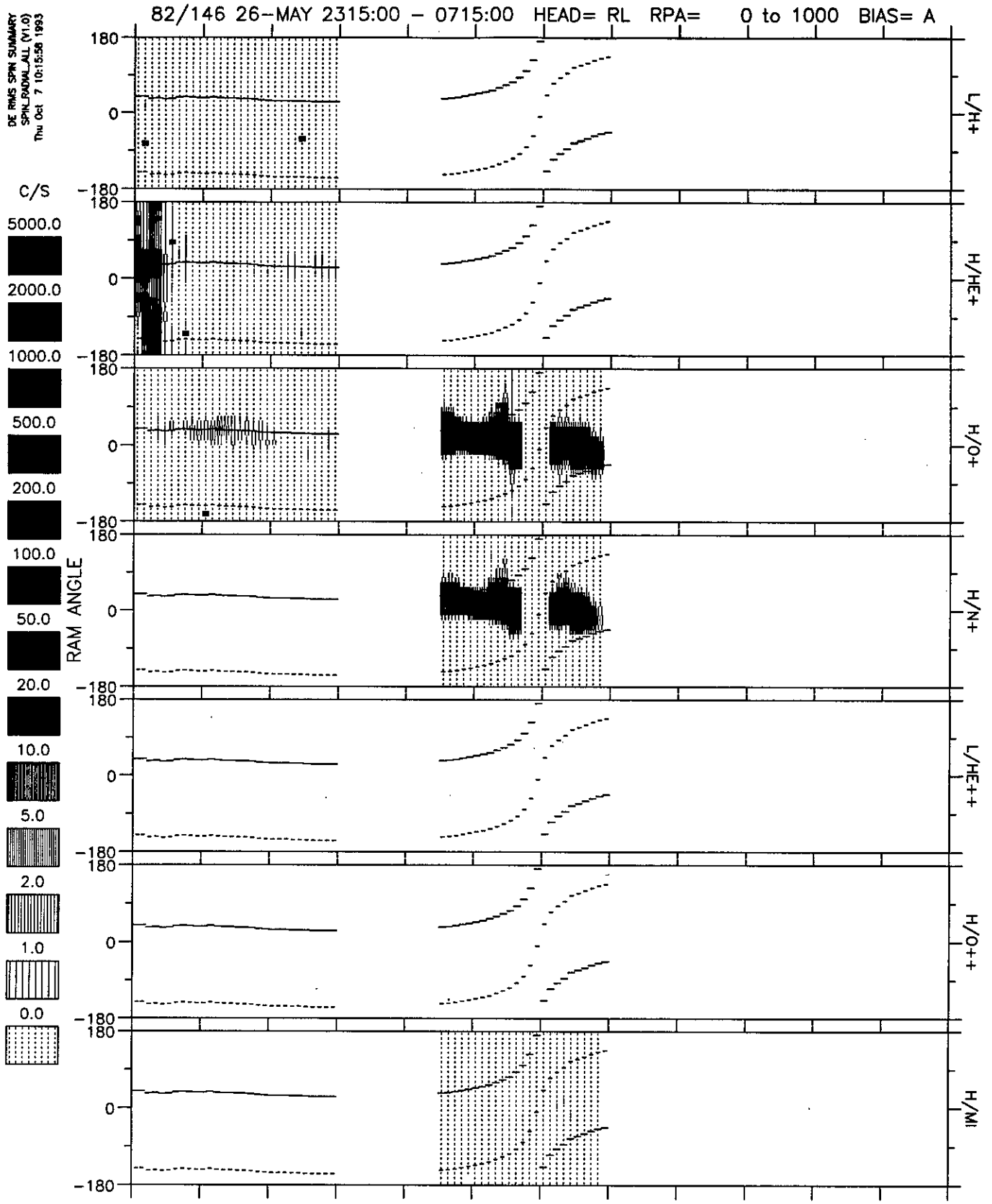
TIME	0255	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	18.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	5.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



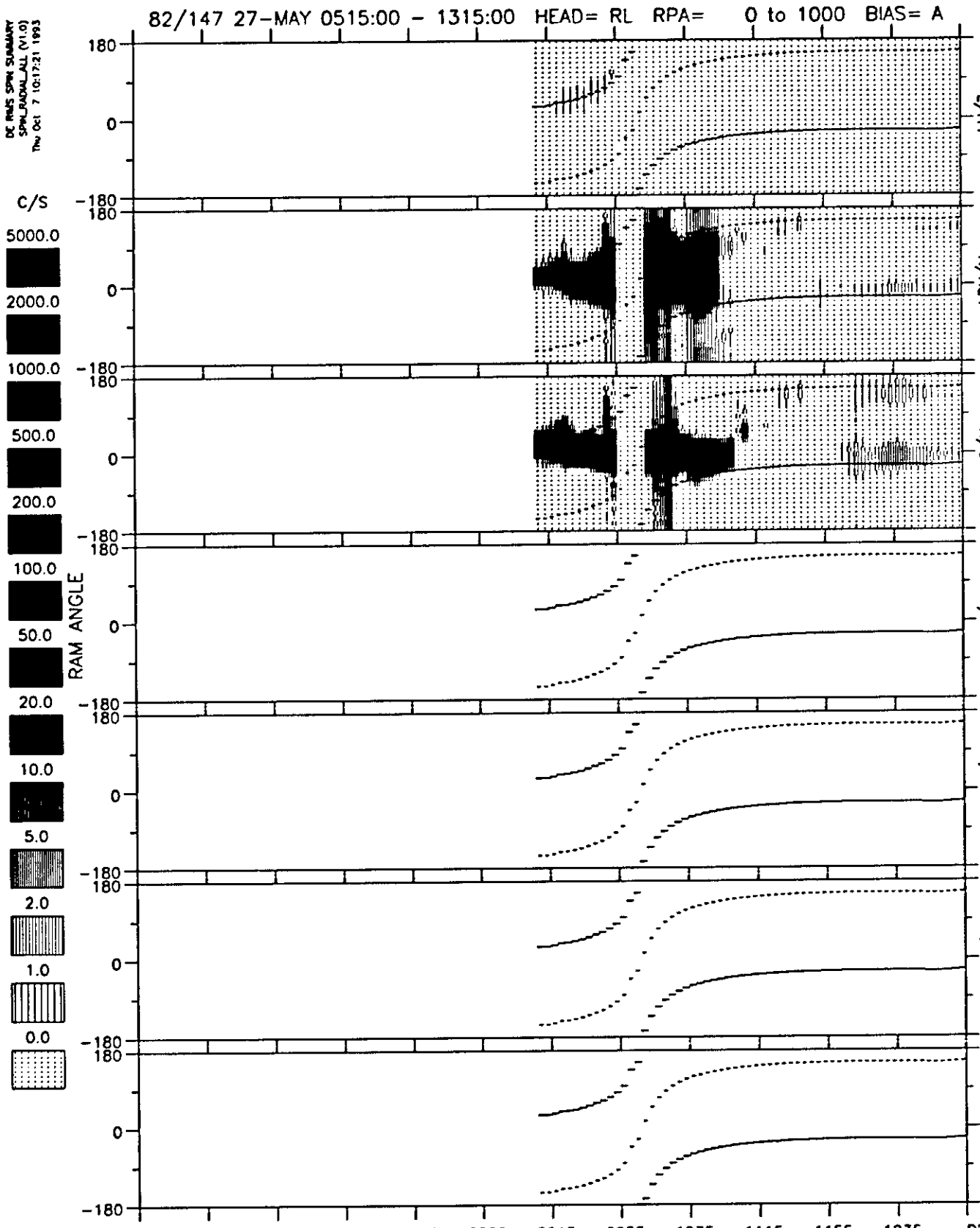
TIME	0000	0000	0000	0000	0000	1300	1340	1420	1500	1540	1620	DEGS
RE	0.0	0.0	0.0	0.0	0.0	1.8	1.3	2.6	3.6	4.2	4.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	77.0	2.6	11.6	5.7	4.9	4.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	20.4	6.8	17.2	17.9	18.2	18.4	
MLAT	0.00	0.00	0.00	0.00	0.00	79.04	*****	*****	*****	*****	-7.33	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	83.4	51.4	72.9	65.2	63.2	62.6	DEGS



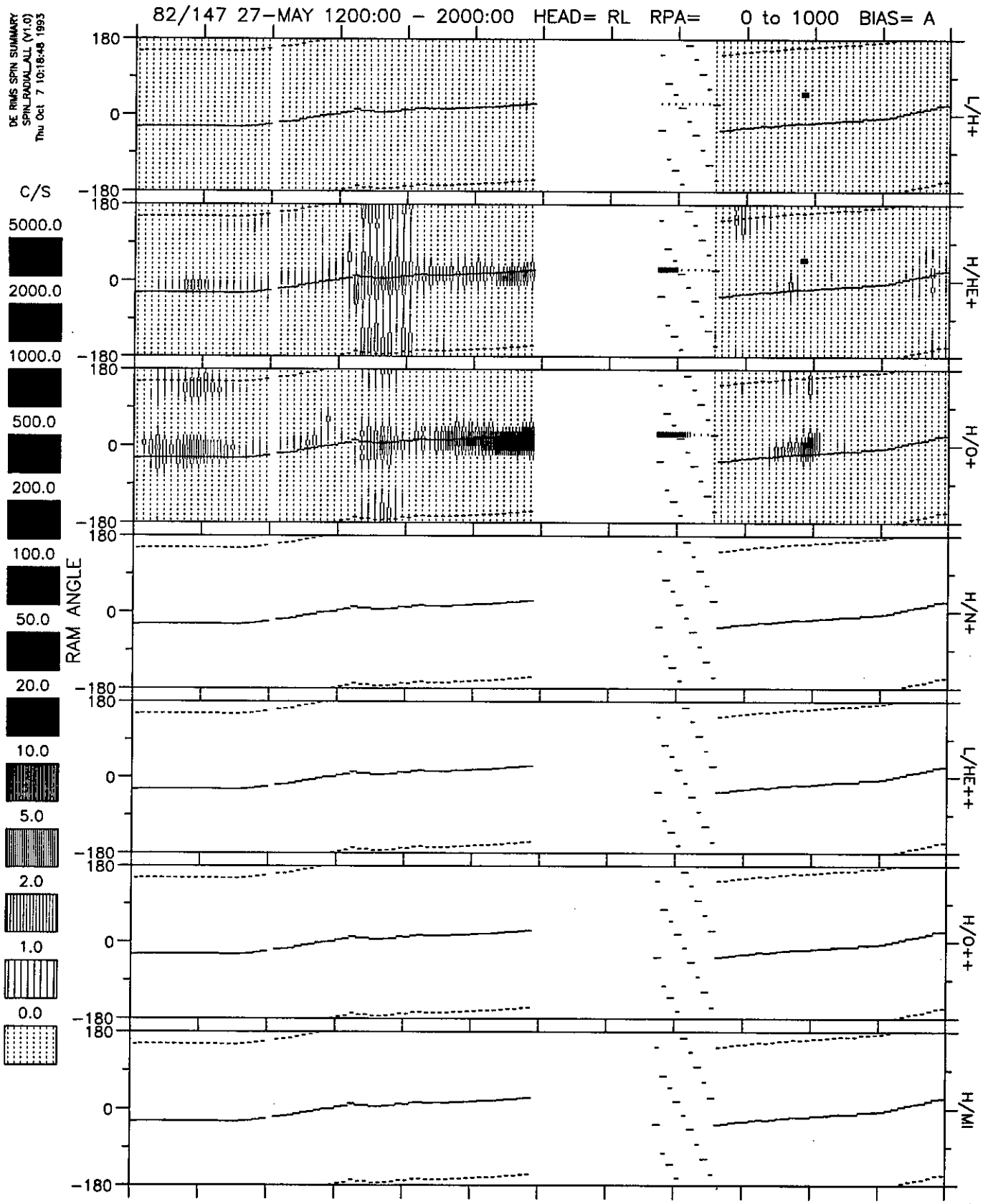
TIME	1640	1720	1800	1840	1920	0000	0000	2120	2200	2240	2320	DEGS
RE	4.7	4.6	4.3	3.7	2.8	0.0	0.0	2.9	3.8	4.3	4.6	HHMM
L	4.7	4.8	5.1	5.9	10.9	0.0	0.0	4.6	4.2	4.4	4.8	RE
MLT	18.5	18.8	19.0	19.3	20.0	0.0	0.0	18.5	18.7	18.8	18.8	
MLAT	-1.19	10.96	23.90	39.35	61.64	0.00	0.00	*****	*****	-2.66	8.46	HRS
INVLAT	62.5	62.8	63.6	65.7	72.3	0.0	0.0	62.2	60.7	61.6	62.8	DEGS



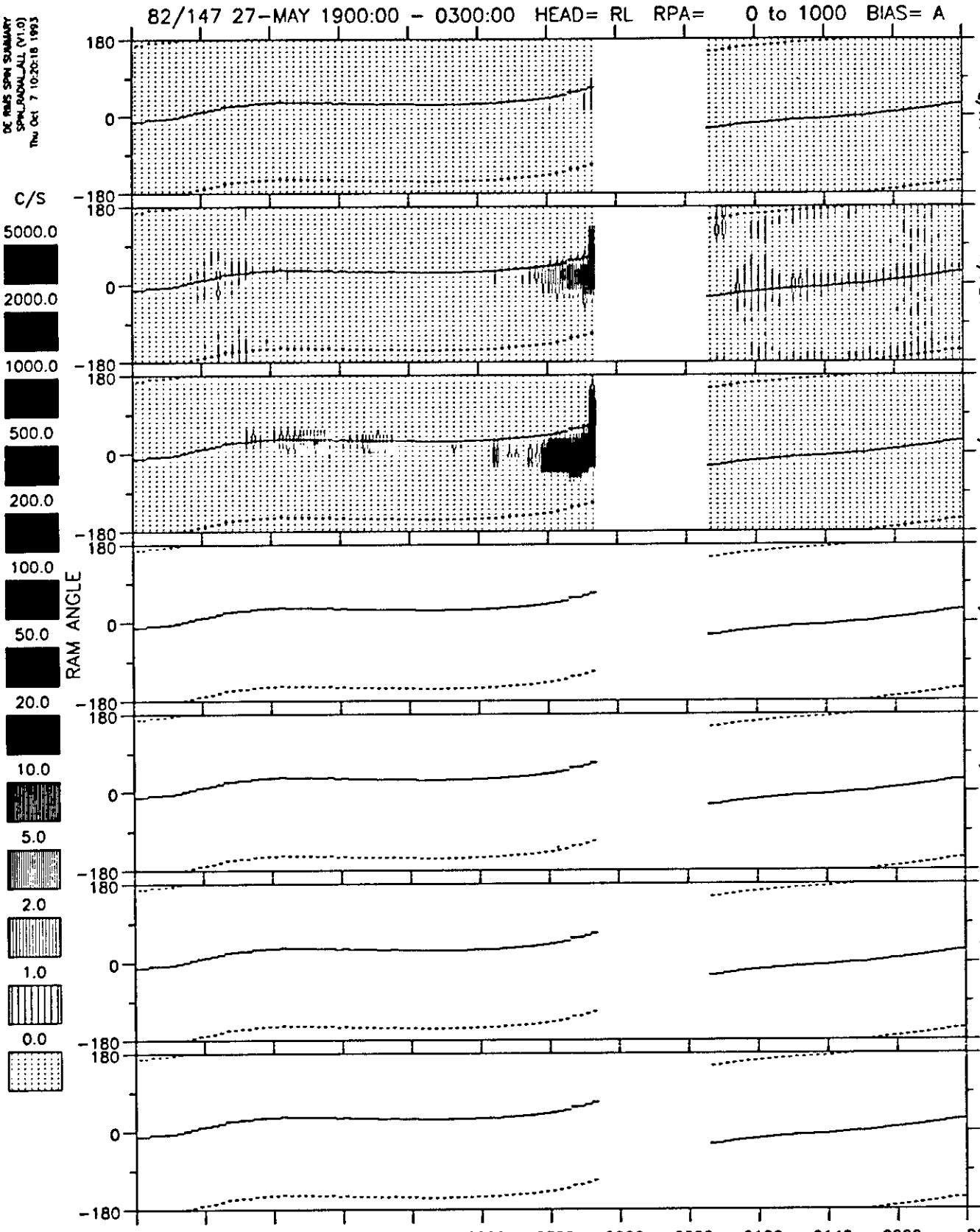
TIME	2355	0035	0000	0000	0235	0315	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.5	0.0	0.0	2.0	1.1	0.0	0.0	0.0	0.0	0.0	HHMM
L	5.2	5.7	0.0	0.0	99.6	1.8	0.0	0.0	0.0	0.0	0.0	RE
MLT	18.7	18.6	0.0	0.0	13.7	6.1	0.0	0.0	0.0	0.0	0.0	
MLAT	17.28	27.32	0.00	0.00	80.56	*****	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	63.9	65.3	0.0	0.0	84.5	41.7	0.0	0.0	0.0	0.0	0.0	DEGS

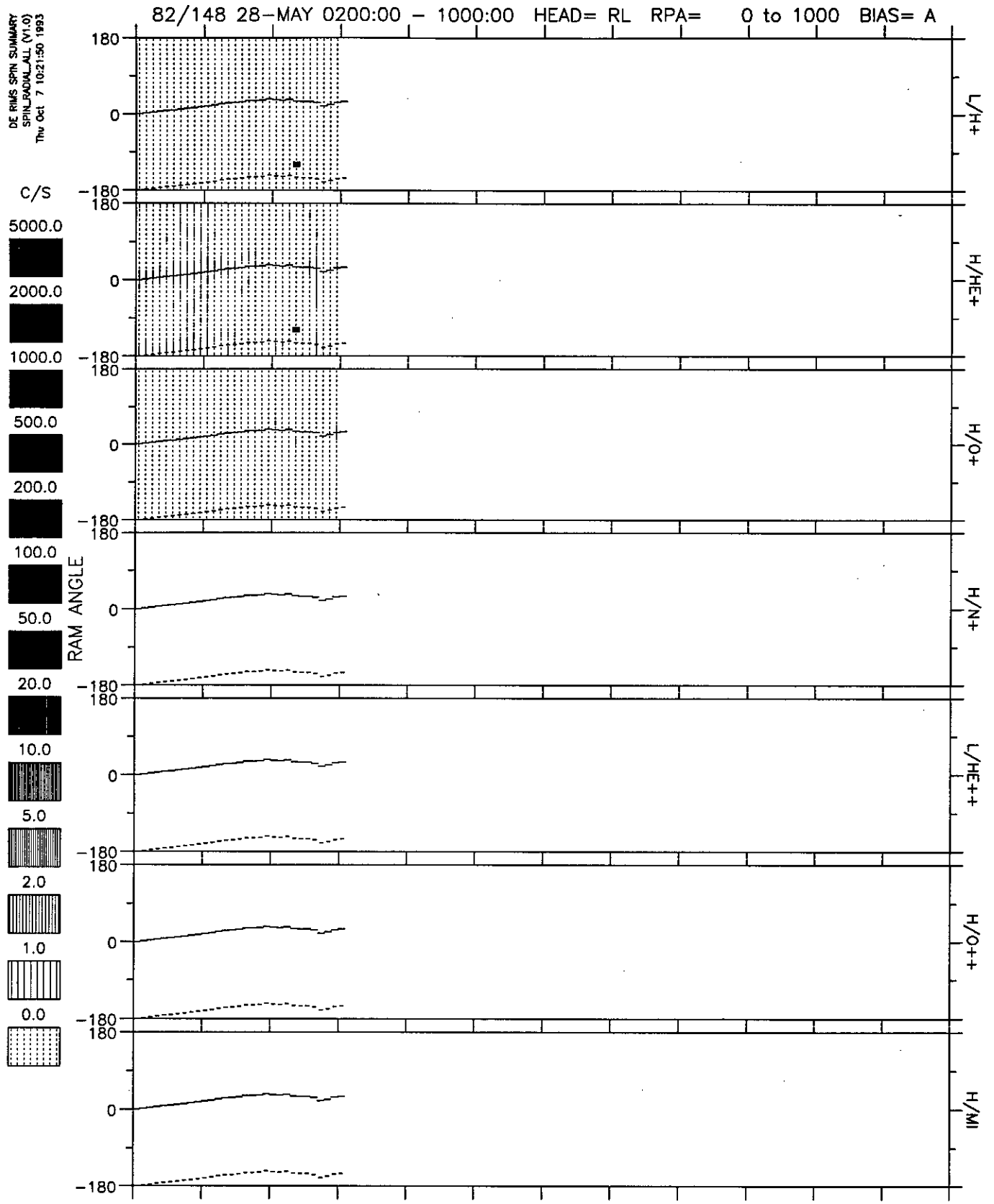


TIME	0000	0000	0000	0000	0000	0915	0955	1035	1115	1155	1235	DEGS
RE	0.0	0.0	0.0	0.0	0.0	2.4	1.1	2.0	3.2	4.0	4.5	HHMM
L	0.0	0.0	0.0	0.0	0.0	8.6	1.8	-0.0	8.3	5.7	5.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	17.7	6.3	19.0	18.1	18.0	18.1	
MLAT	0.00	0.00	0.00	0.00	0.00	56.36	37.18	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	70.1	40.8	-0.0	69.7	65.2	63.5	DEGS

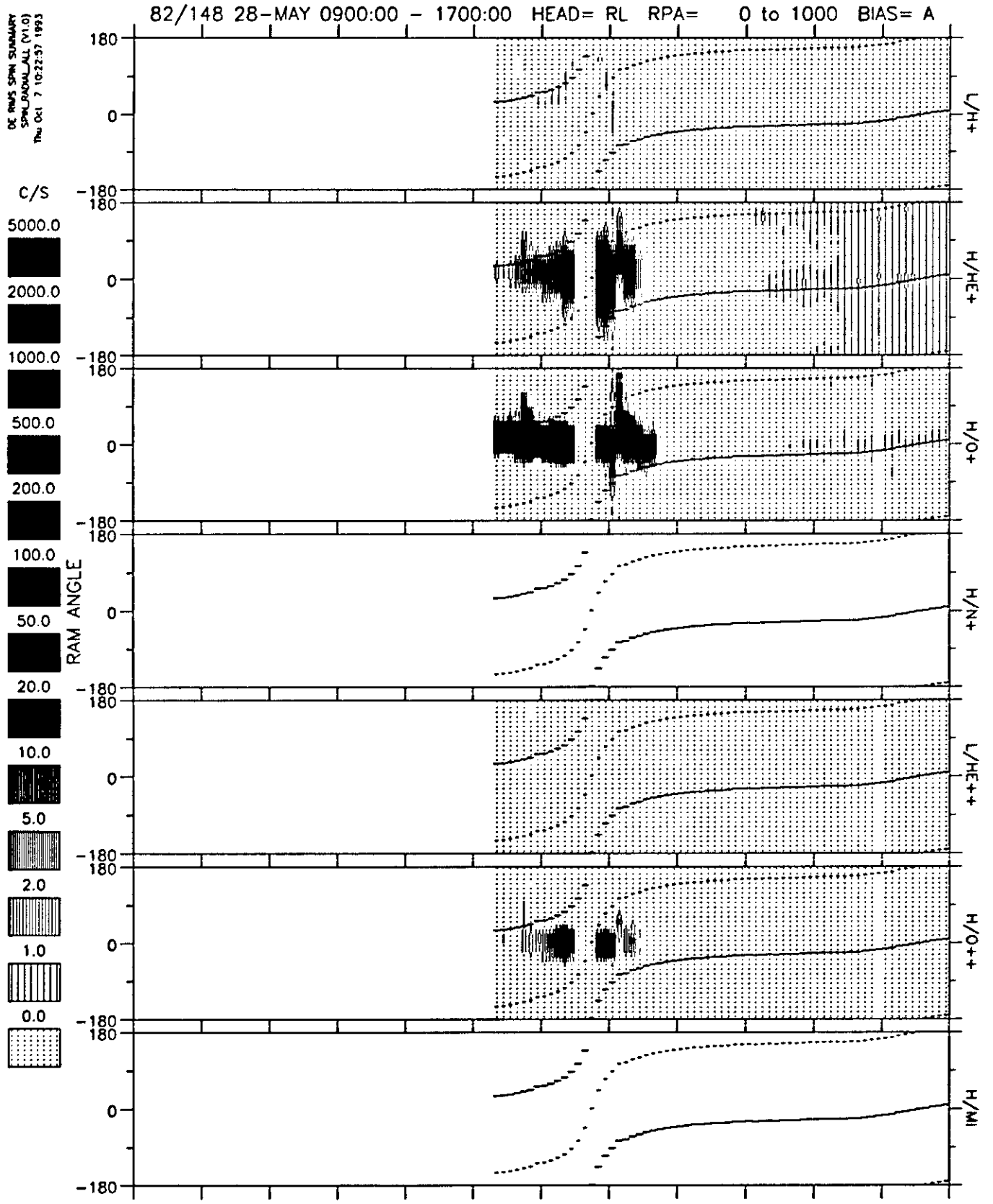


TIME	1240	0000	1400	1440	1520	0000	0000	1720	1800	1840	1920	DEGS
RE	4.5	0.0	4.6	4.2	3.6	0.0	0.0	0.0	3.1	3.9	4.4	HHMM
L	5.0	0.0	4.6	4.6	5.0	0.0	0.0	-0.0	5.4	4.6	4.6	RE
MLT	18.1	0.0	18.3	18.5	18.8	0.0	0.0	-0.0	18.0	18.4	18.6	
MLAT	*****	0.00	3.99	16.83	32.97	0.00	0.00	-0.01	*****	*****	-5.29	HRS
INVLAT	63.4	0.0	62.1	62.2	63.6	0.0	0.0	-0.0	64.6	62.2	62.1	DEGS

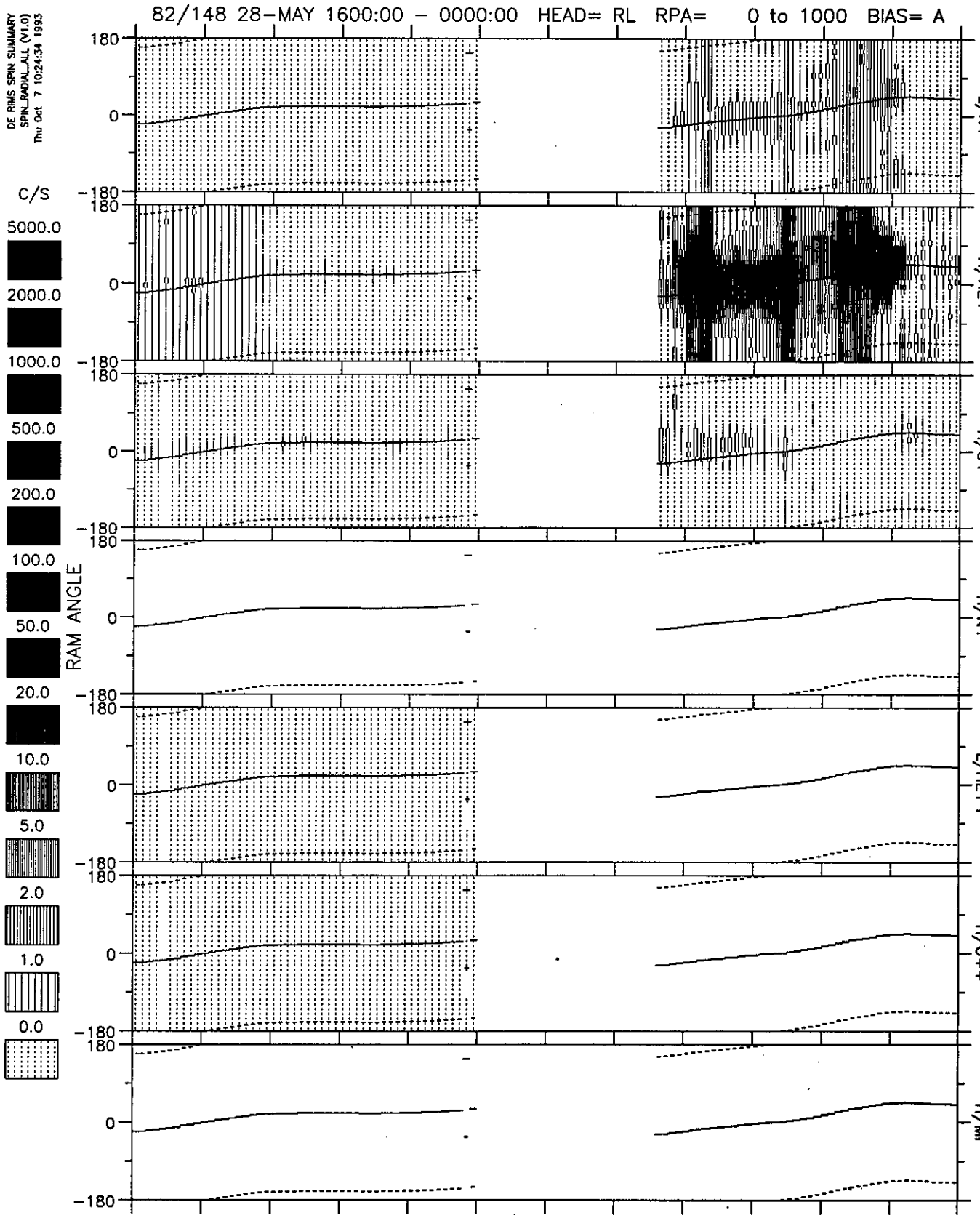

82/147 27-MAY 1900:00 - 0300:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Oct 7 10:20:18 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M
TIME 1940 2020 2100 2140 2220 2300 0000 0000 0100 0140 0220 DEGS
RE 4.6 4.7 4.5 4.1 3.4 2.3 0.0 0.0 3.3 4.0 4.5 HHMM
L 4.7 4.9 5.4 6.4 9.4 100.0 0.0 0.0 4.2 4.3 4.5 RE
MLT 18.7 18.8 18.9 18.9 18.9 18.6 0.0 0.0 18.9 18.7 18.6
MLAT 0.98 12.77 24.45 37.30 53.92 82.97 0.00 0.00 ***** ***** -2.12 HRS
INVLAT 62.4 63.3 64.6 66.7 71.0 84.4 0.0 0.0 61.0 61.1 61.9 DEGS



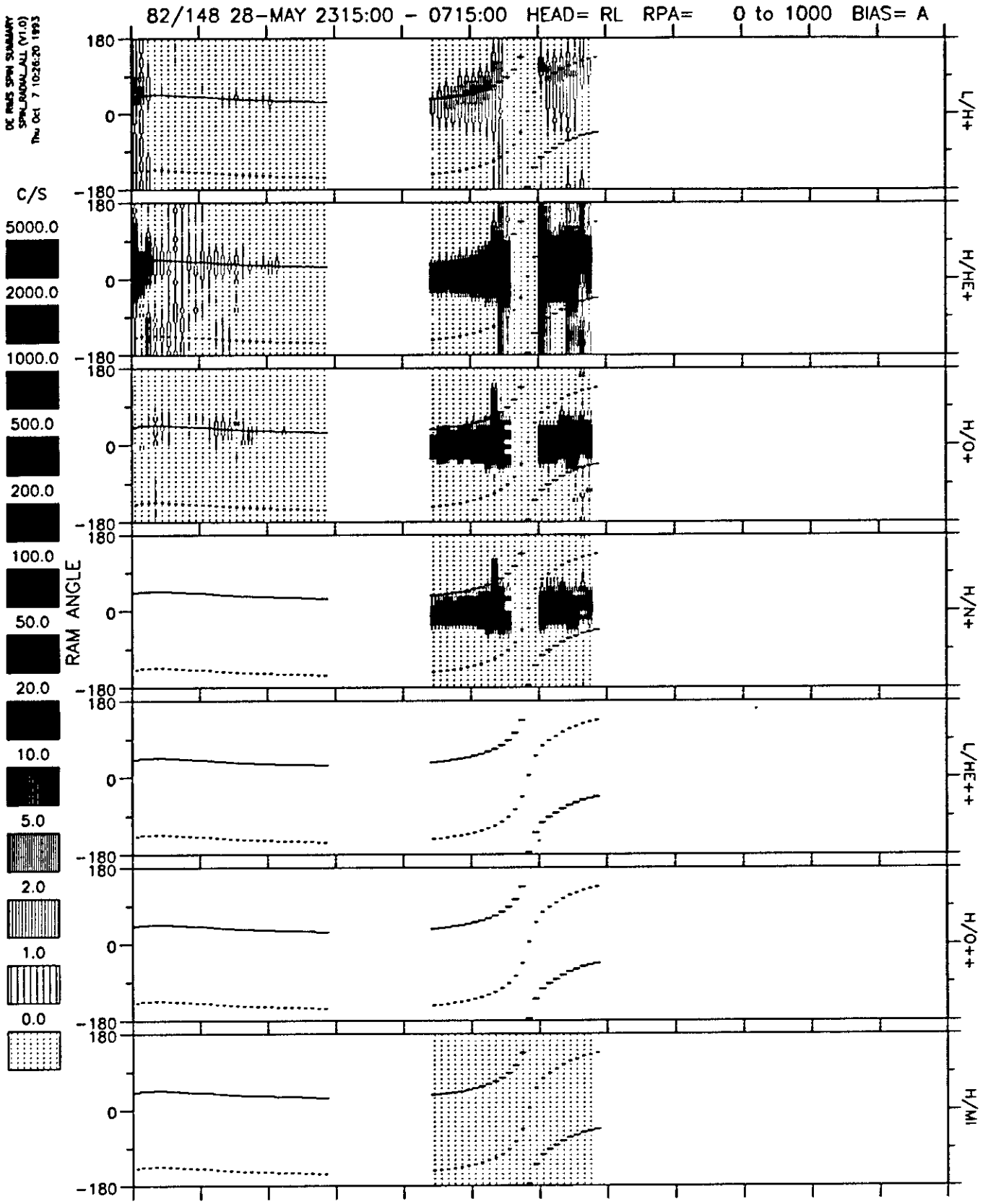
TIME	0240	0320	0400	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.6	4.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.6	4.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	18.5	18.4	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	2.43	10.93	19.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.3	62.9	63.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



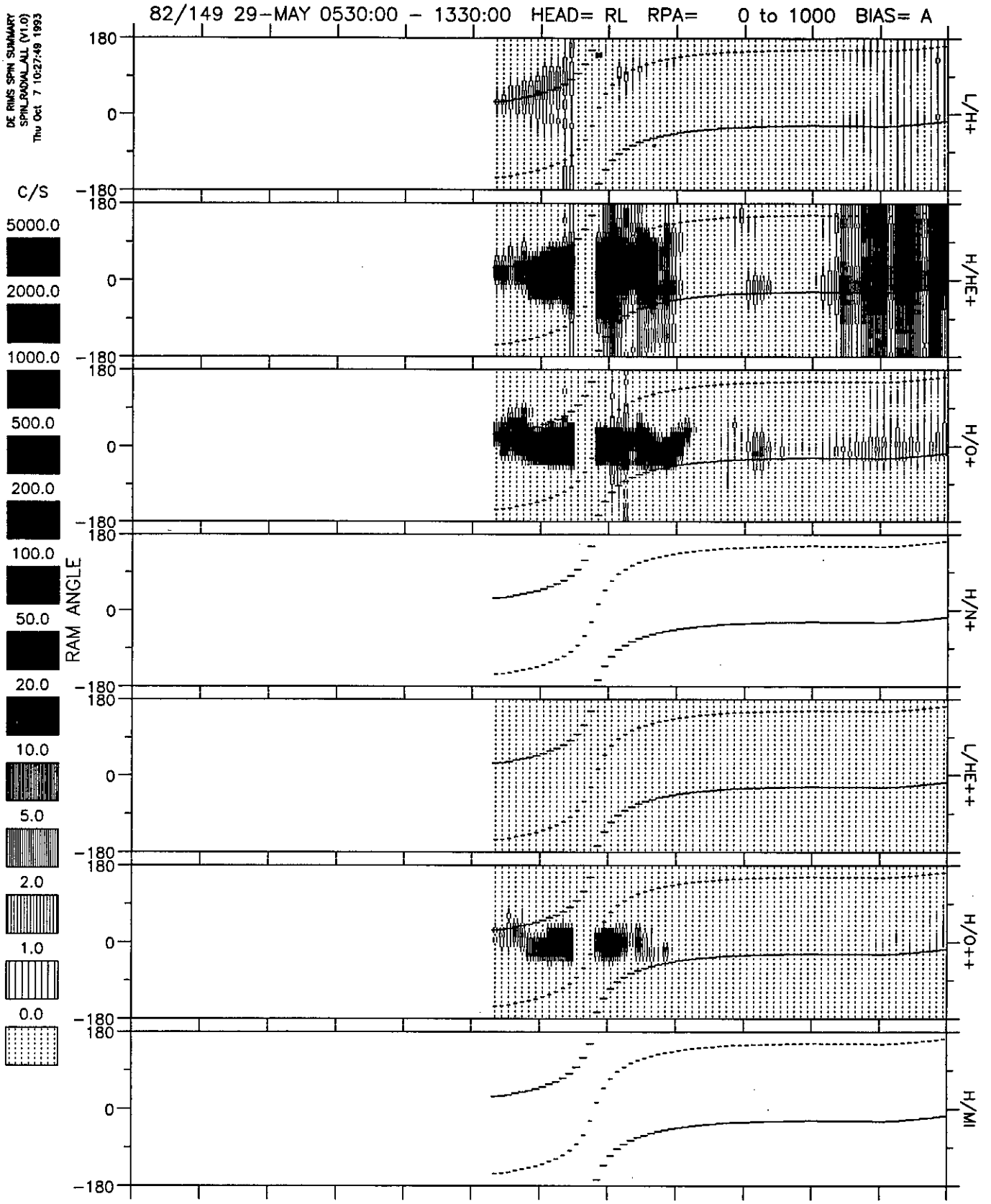
TIME	0000	0000	0000	0000	0000	1300	1340	1420	1500	1540	1620	DEGS
RE	0.0	0.0	0.0	0.0	0.0	1.6	1.3	2.7	3.7	4.3	4.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	100.0	4.0	10.0	5.6	4.9	4.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	1.9	6.9	17.2	17.8	18.1	18.3	
MLAT	0.00	0.00	0.00	0.00	0.00	84.07	*****	*****	*****	*****	-6.29	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	86.7	60.0	71.5	65.0	63.2	62.6	DEGS



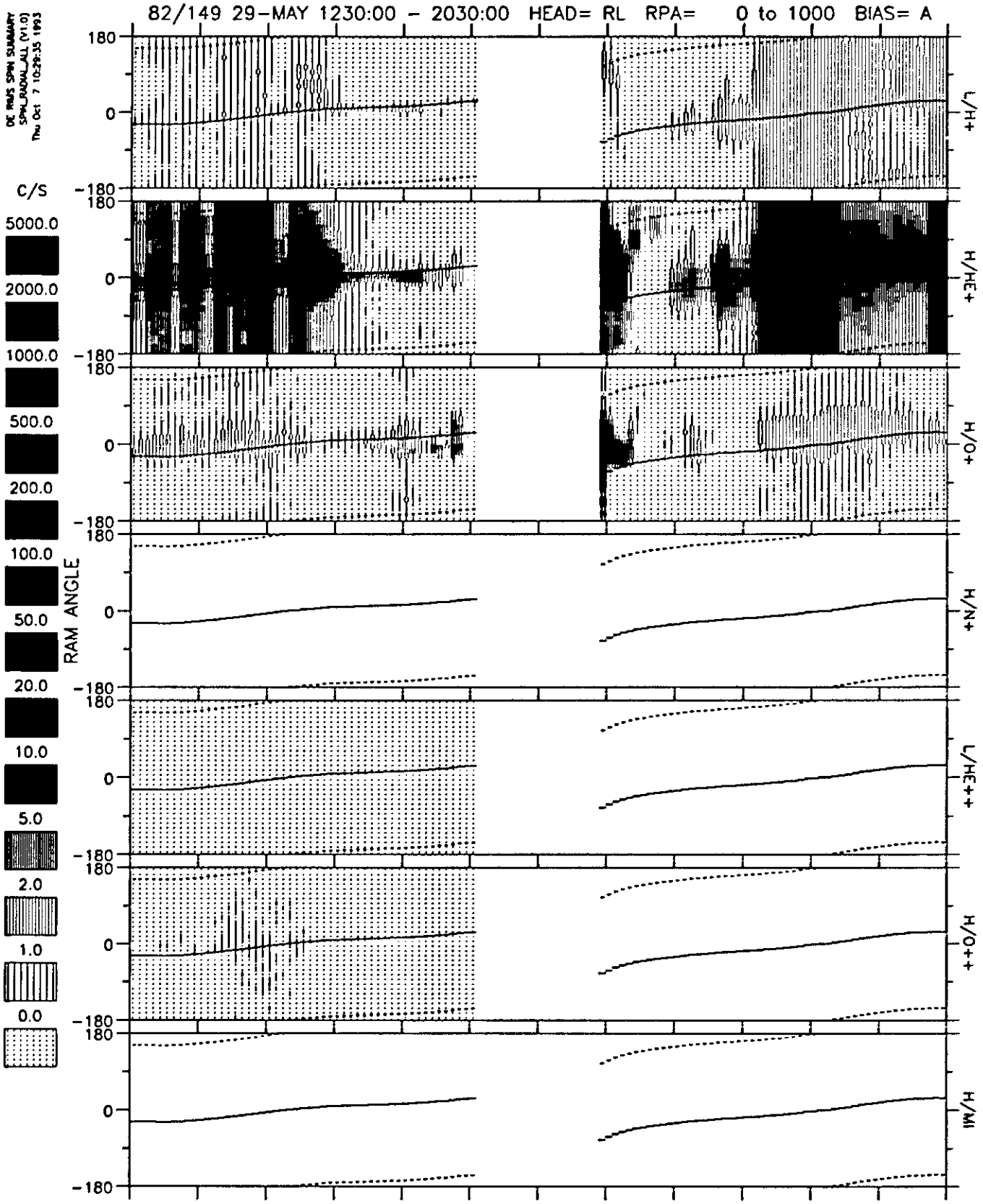
TIME	1640	1720	1800	1840	0000	0000	0000	2120	2200	2240	2320	DEGS
RE	4.7	4.6	4.3	3.6	0.0	0.0	0.0	3.0	3.9	4.4	4.6	HHMM
L	4.7	4.8	5.1	6.0	0.0	0.0	0.0	4.5	4.2	4.5	4.8	RE
MLT	18.4	18.6	18.9	19.2	0.0	0.0	0.0	18.5	18.6	18.7	18.6	
MLAT	-0.18	12.01	25.14	41.11	0.00	0.00	0.00	*****	*****	-1.79	9.11	HRS
INVLAT	62.6	62.8	63.7	66.0	0.0	0.0	0.0	61.9	60.8	61.7	62.9	DEGS



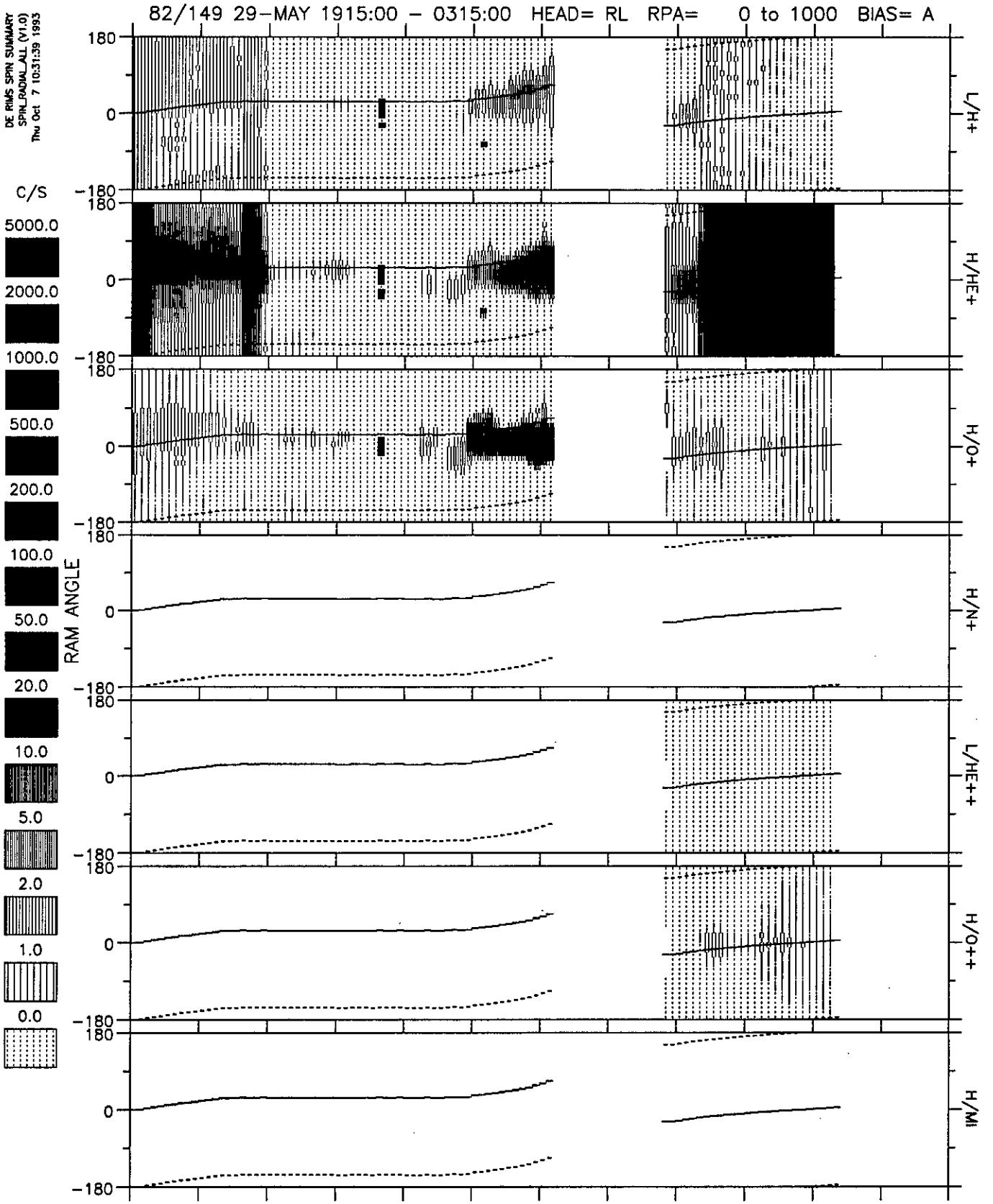
TIME	2355	0035	0000	0000	0235	0315	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.4	0.0	0.0	1.9	1.2	0.0	0.0	0.0	0.0	0.0	HHMM
L	5.2	5.7	0.0	0.0	96.7	3.7	0.0	0.0	0.0	0.0	0.0	RE
MLT	18.6	18.4	0.0	0.0	11.0	5.5	0.0	0.0	0.0	0.0	0.0	
MLAT	17.82	27.94	0.00	0.00	79.90	*****	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	64.0	65.3	0.0	0.0	84.2	58.7	0.0	0.0	0.0	0.0	0.0	DEGS



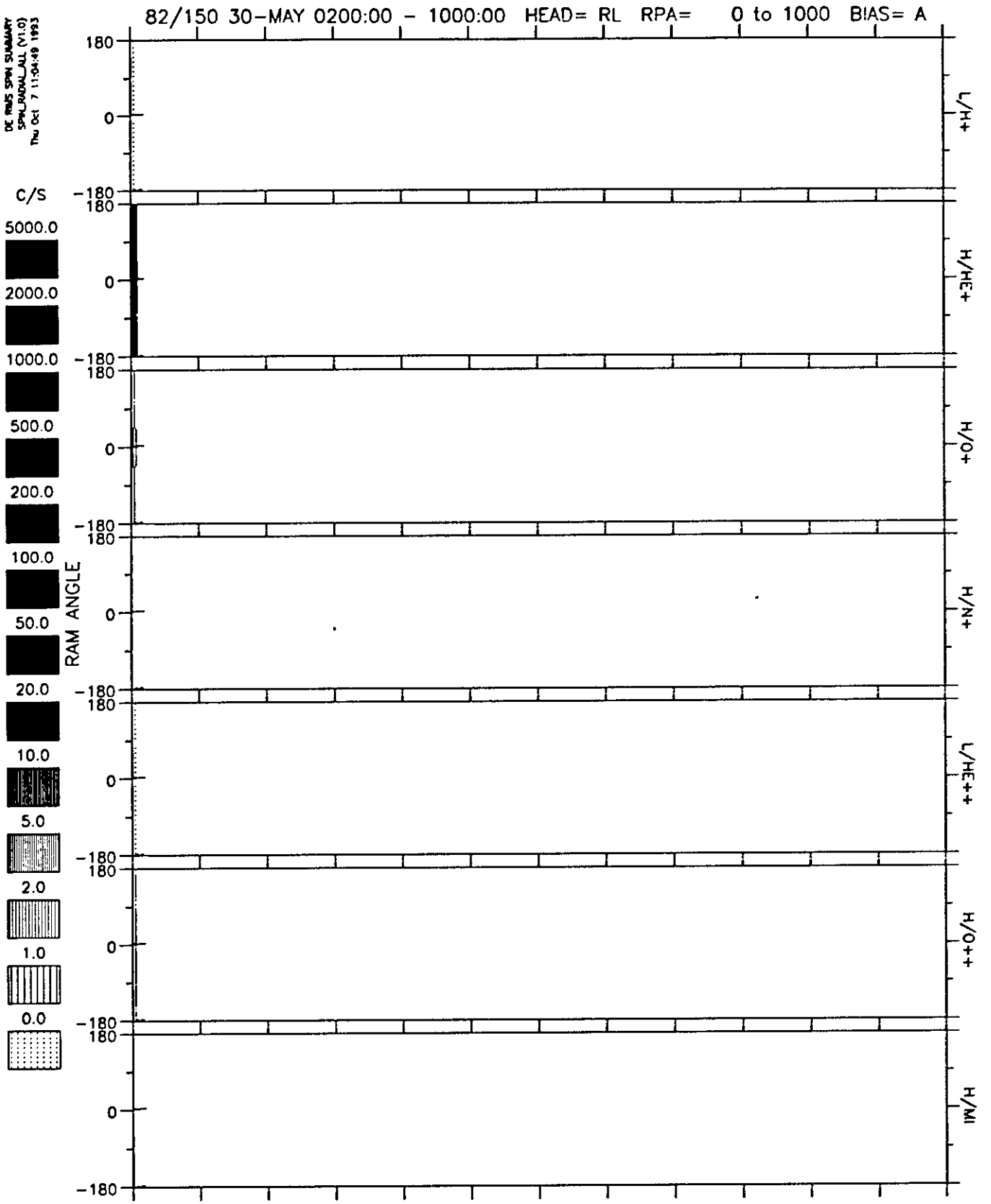
TIME	0000	0000	0000	0000	0000	0930	1010	1050	1130	1210	1250	DEGS
RE	0.0	0.0	0.0	0.0	0.0	1.7	1.3	2.7	3.6	4.3	4.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	100.0	3.4	16.1	6.6	5.3	4.9	RE
MLT	0.0	0.0	0.0	0.0	0.0	15.8	5.9	18.0	17.9	17.9	18.0	
MLAT	0.00	0.00	0.00	0.00	0.00	83.18	*****	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	85.9	57.2	75.5	67.1	64.3	63.1	DEGS



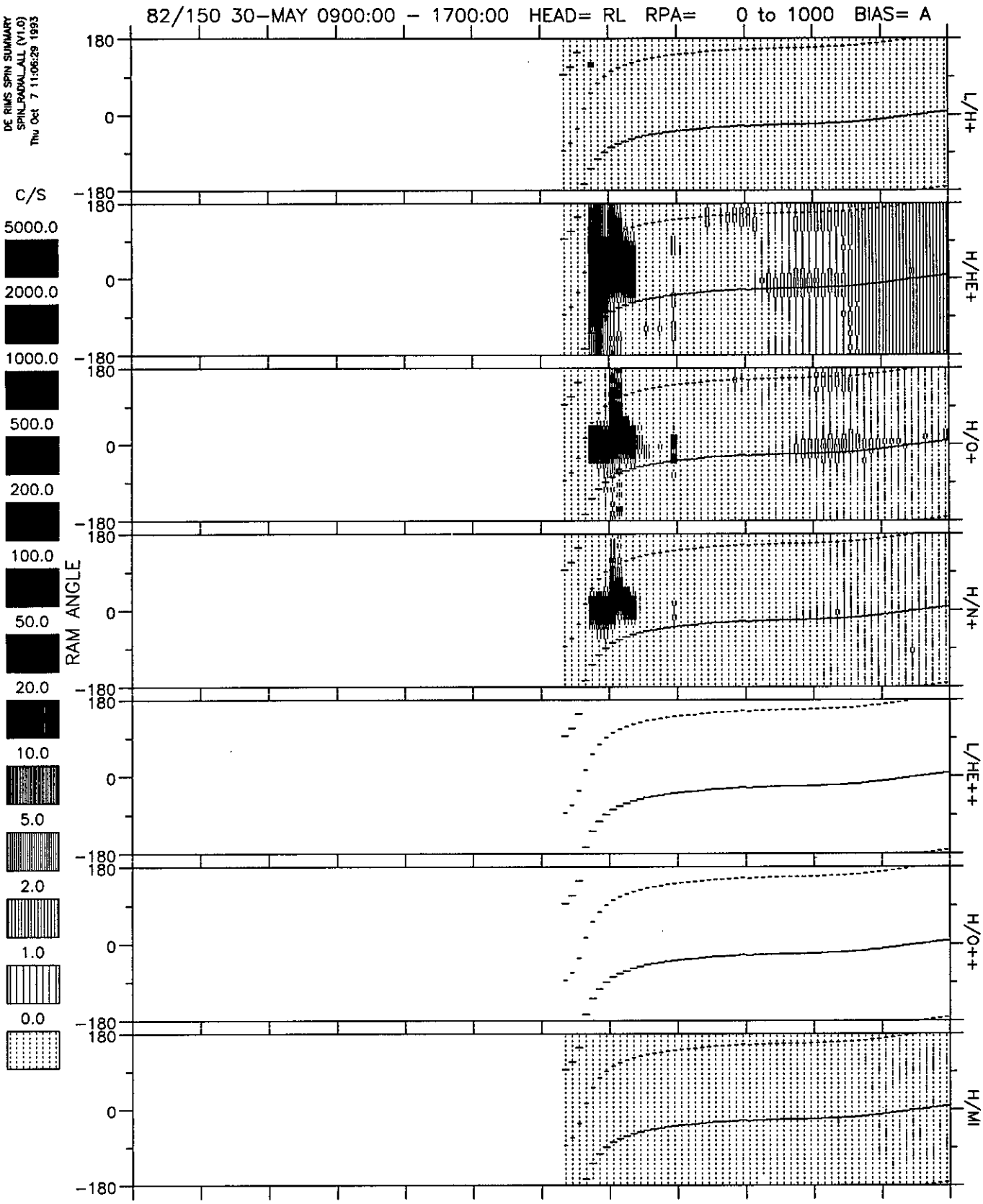
TIME	1310	1350	1430	1510	1550	0000	1710	1750	1830	1910	1950	DEGS
RE	4.7	4.6	4.3	3.7	2.8	0.0	1.7	2.9	3.8	4.4	4.6	HHMM
L	4.8	4.6	4.6	4.9	7.0	0.0	30.3	5.8	4.7	4.6	4.7	RE
MLT	18.0	18.1	18.3	18.6	19.2	0.0	12.1	17.7	18.2	18.4	18.6	
MLAT	-9.61	1.96	14.61	30.16	50.96	0.00	•••••	•••••	•••••	-7.45	4.93	HRS
INVLAT	62.7	62.2	62.1	63.1	67.8	0.0	79.5	65.5	62.4	62.1	62.6	DEGS



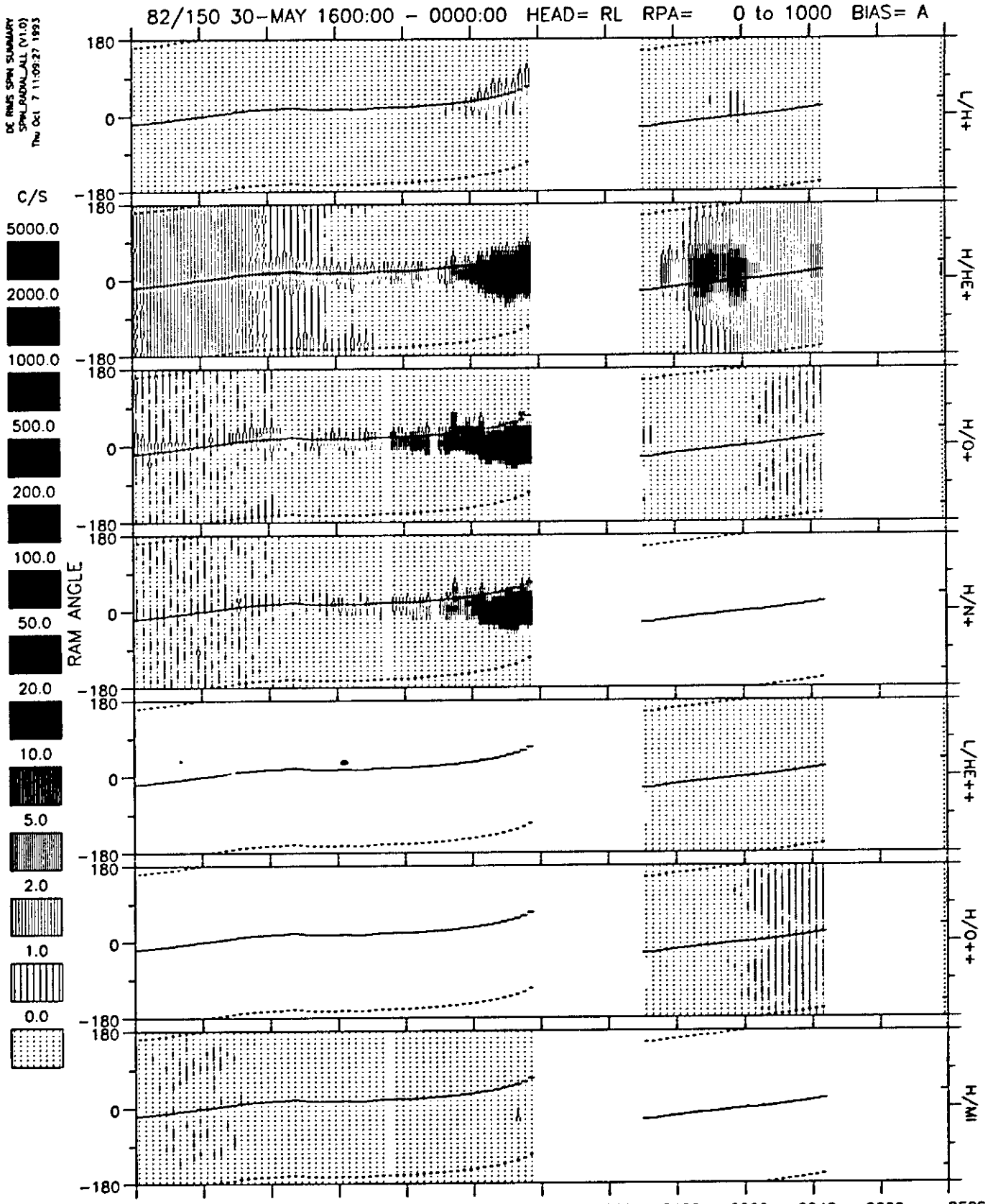
TIME	1955	2035	2115	2155	2235	2315	0000	0035	0115	0155	0000	DEGS
RE	4.7	4.6	4.3	3.8	2.9	1.6	0.0	2.8	3.7	4.3	0.0	HHMM
L	4.8	5.1	5.8	7.2	15.1	12.5	0.0	4.8	4.2	4.4	0.0	RE
MLT	18.6	18.7	18.8	18.8	18.7	6.8	0.0	18.9	18.7	18.6	0.0	
MLAT	6.42	17.97	30.03	44.28	65.05	66.23	0.00	*****	*****	-7.87	0.00	HRS
INVLAT	62.7	63.8	65.4	68.2	75.1	73.5	0.0	62.8	60.9	61.5	0.0	DEGS



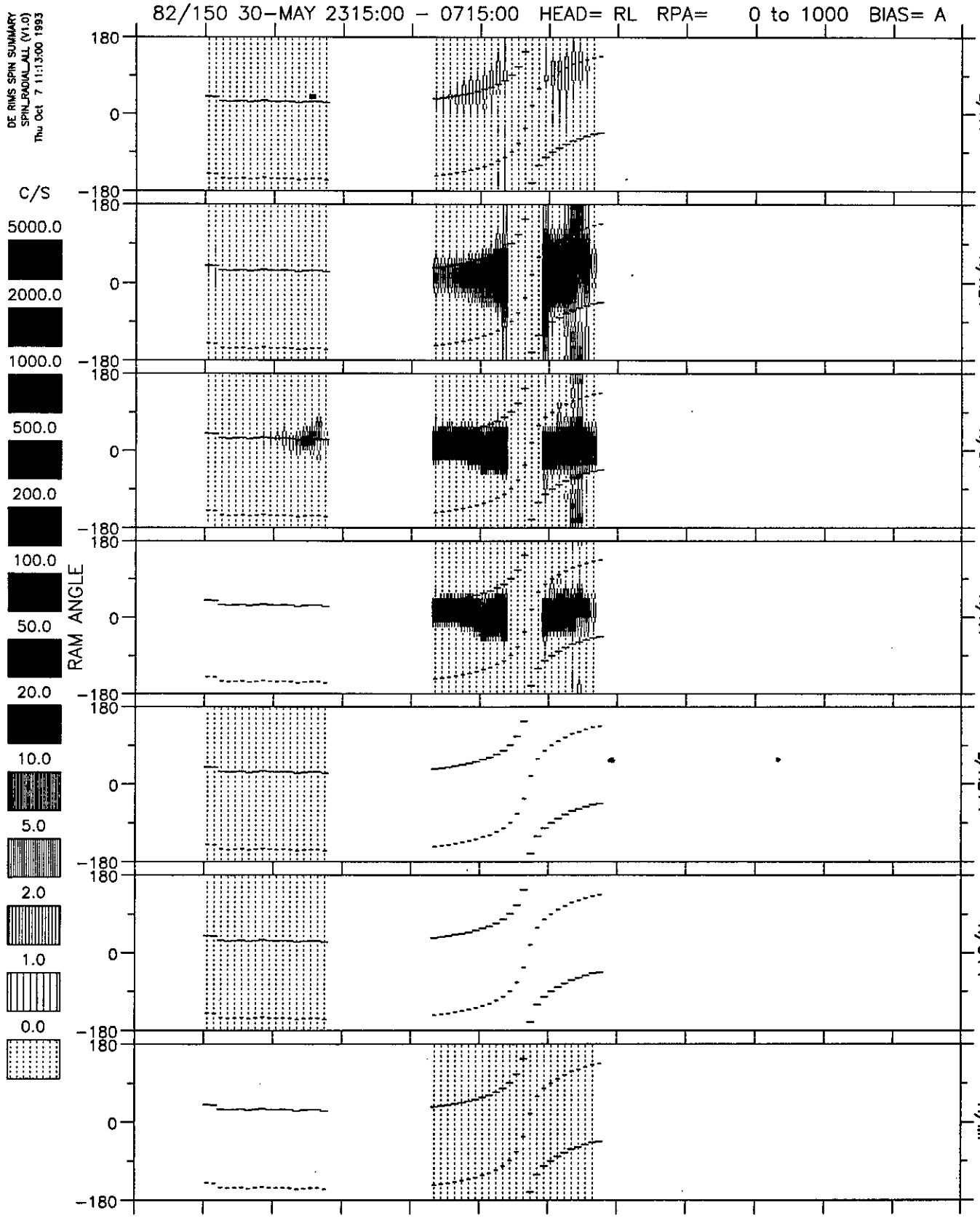
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



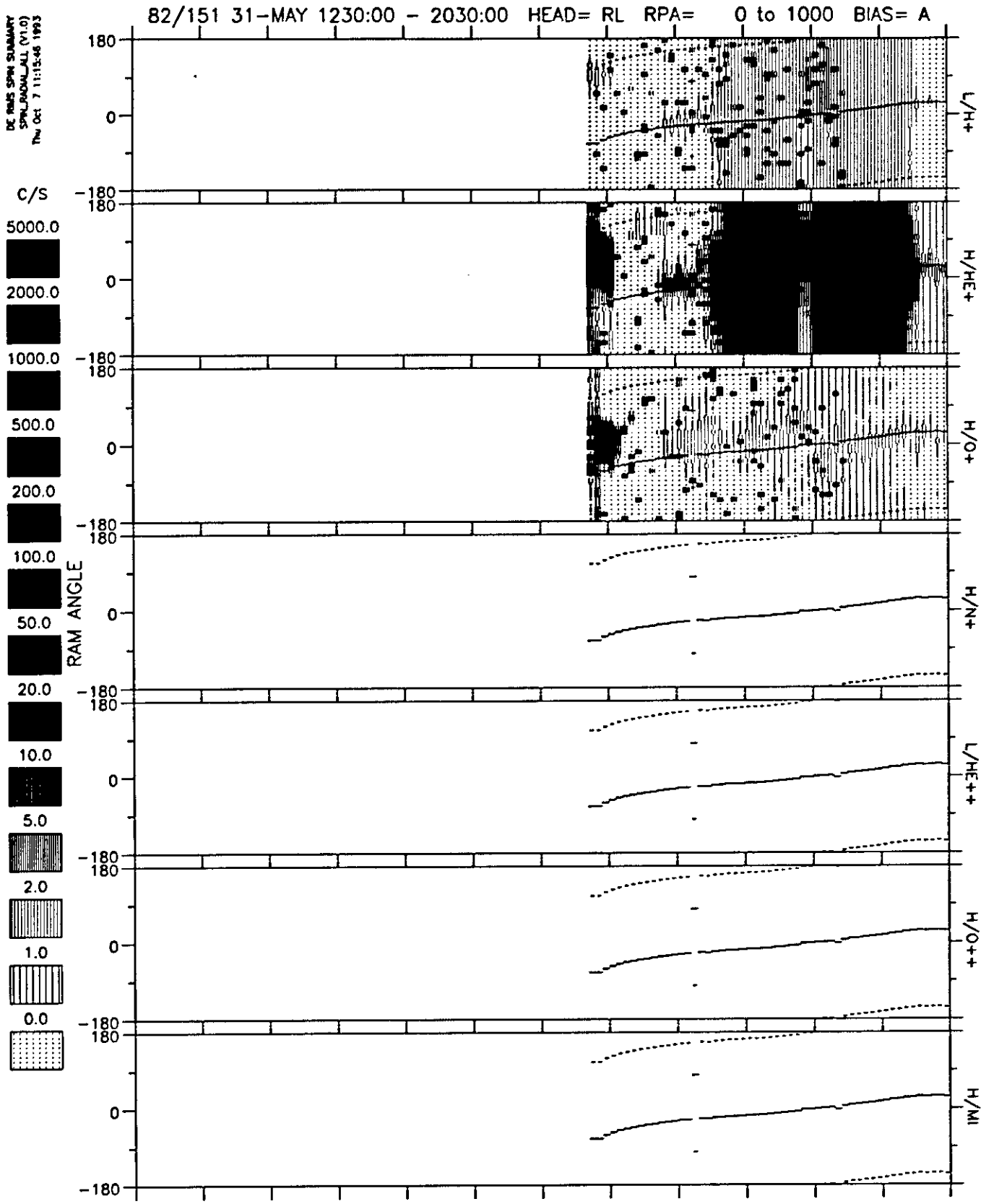
TIME	0000	0000	0000	0000	0000	0000	1340	1420	1500	1540	1620	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.9	3.8	4.3	4.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	15.2	8.9	5.5	4.9	4.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	7.9	17.2	17.7	17.9	18.2	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	-5.21	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	75.1	70.4	64.8	63.1	62.6	DEGS



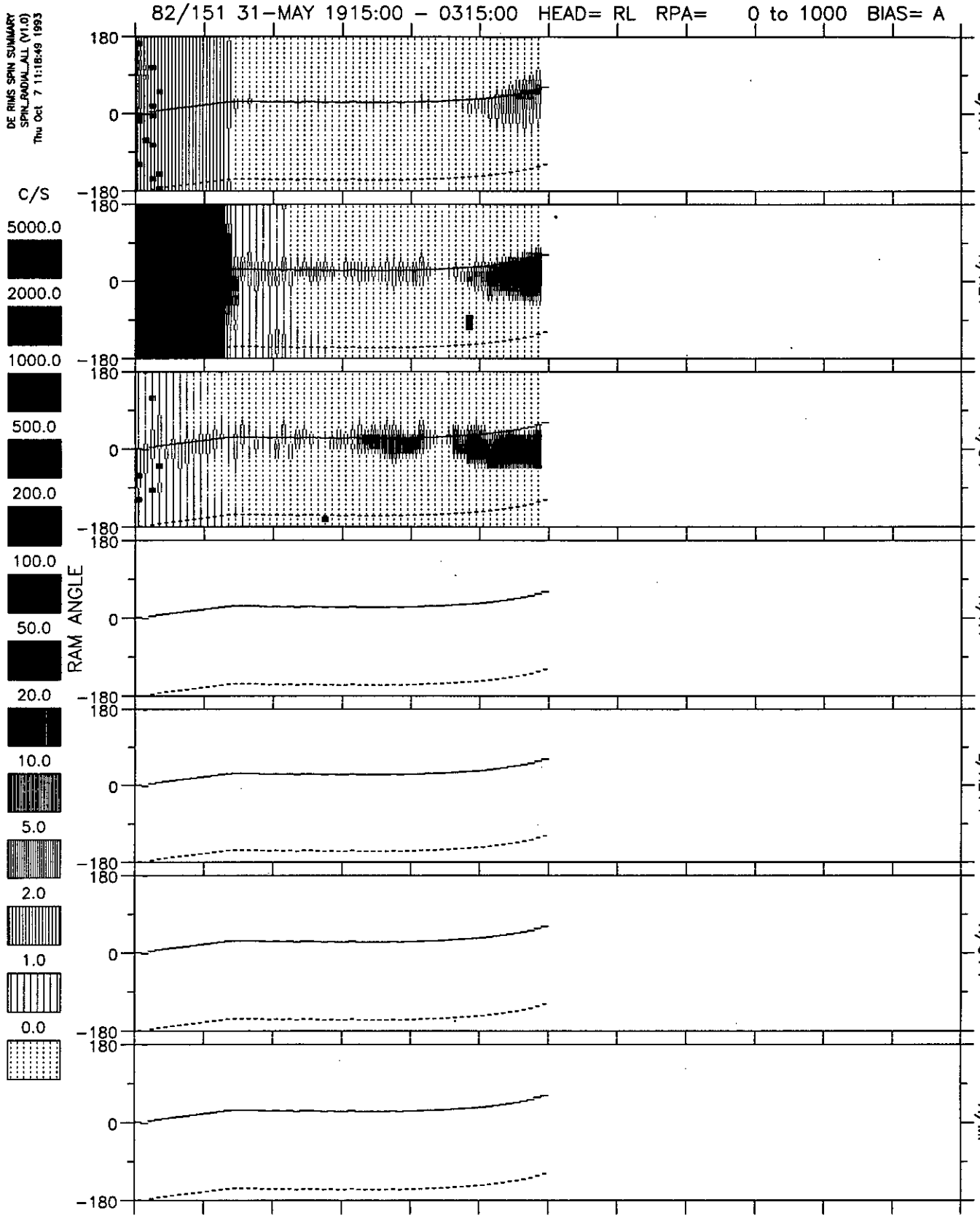
TIME	1640	1720	1800	1840	1920	0000	0000	2120	2200	2240	0000	DEGS
RE	4.7	4.6	4.2	3.5	2.5	0.0	0.0	3.1	3.9	4.4	0.0	HHMM
L	4.7	4.8	5.1	6.2	15.9	0.0	0.0	4.4	4.2	4.5	0.0	RE
MLT	18.3	18.5	18.8	19.1	20.1	0.0	0.0	18.4	18.5	18.5	0.0	
MLAT	0.86	13.11	26.48	43.05	68.78	0.00	0.00	*****	*****	-0.98	0.00	HRS
INVLAT	62.6	62.8	63.8	66.3	75.5	0.0	0.0	61.7	61.0	61.9	0.0	DEGS



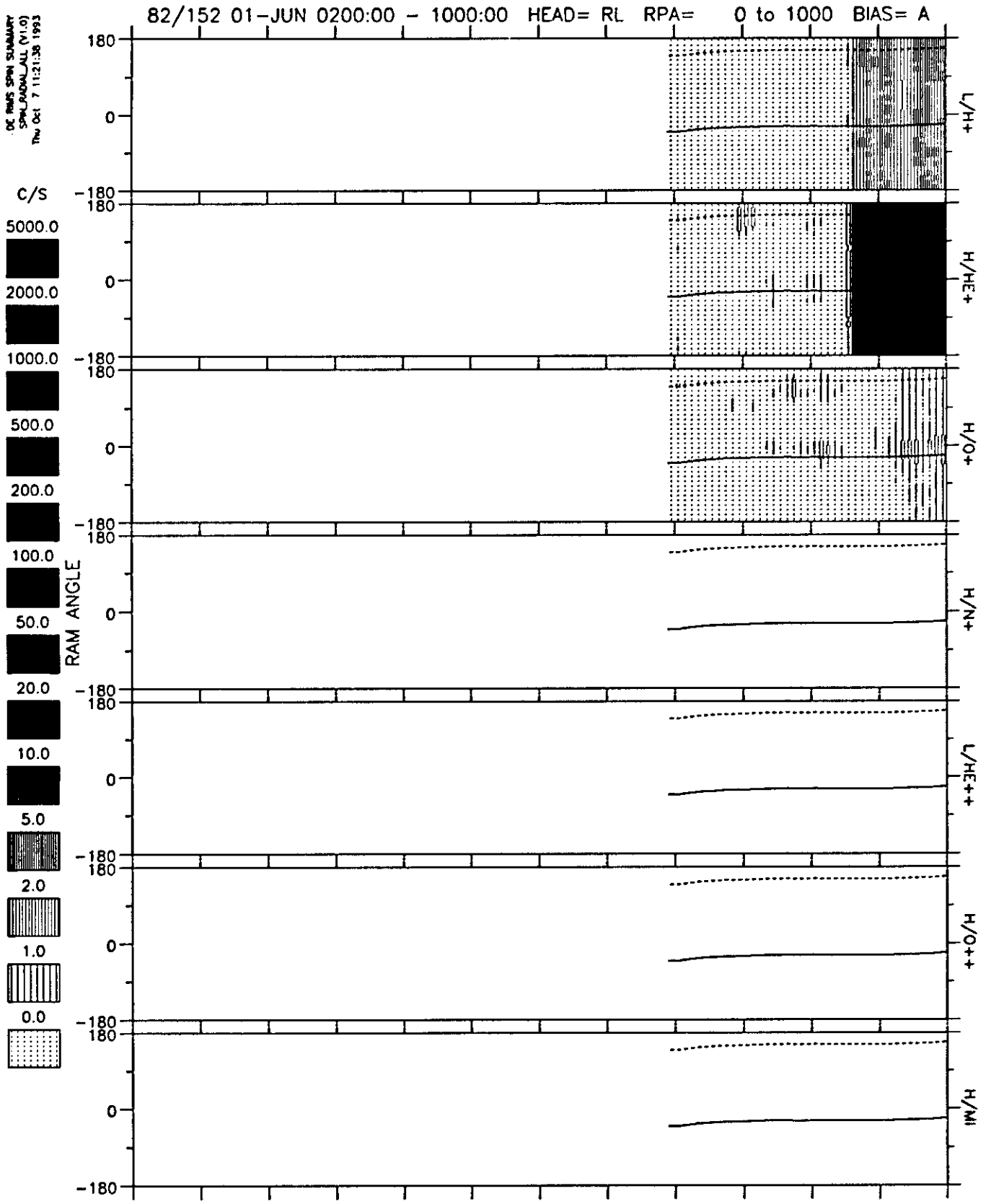
TIME	2355	0035	0000	0000	0235	0315	0000	0000	0000	0000	0000	DEGS
RE	4.6	4.4	0.0	0.0	1.7	1.4	0.0	0.0	0.0	0.0	0.0	HHMM
L	5.2	5.7	0.0	0.0	30.2	9.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	18.4	18.3	0.0	0.0	8.9	4.5	0.0	0.0	0.0	0.0	0.0	
MLAT	18.39	28.57	0.00	0.00	74.41	*****	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	64.0	65.3	0.0	0.0	79.5	70.6	0.0	0.0	0.0	0.0	0.0	DEGS



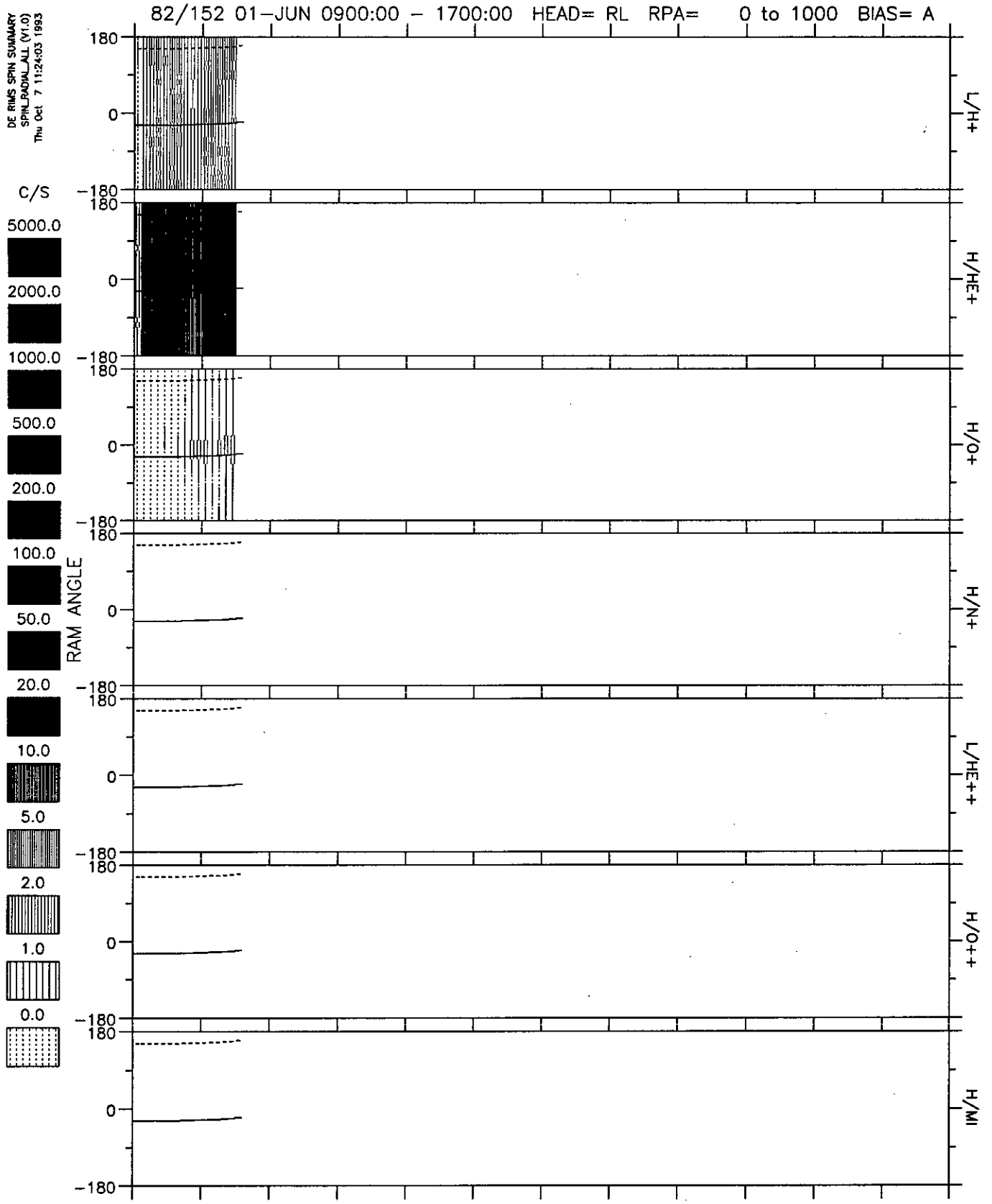
TIME	0000	0000	0000	0000	0000	0000	1710	1750	1830	1910	1950	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.1	3.9	4.4	4.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	23.9	5.6	4.7	4.6	4.8	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	14.6	17.7	18.1	18.3	18.5	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-6.30	5.87	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	78.2	65.0	62.4	62.2	62.7	DEGS



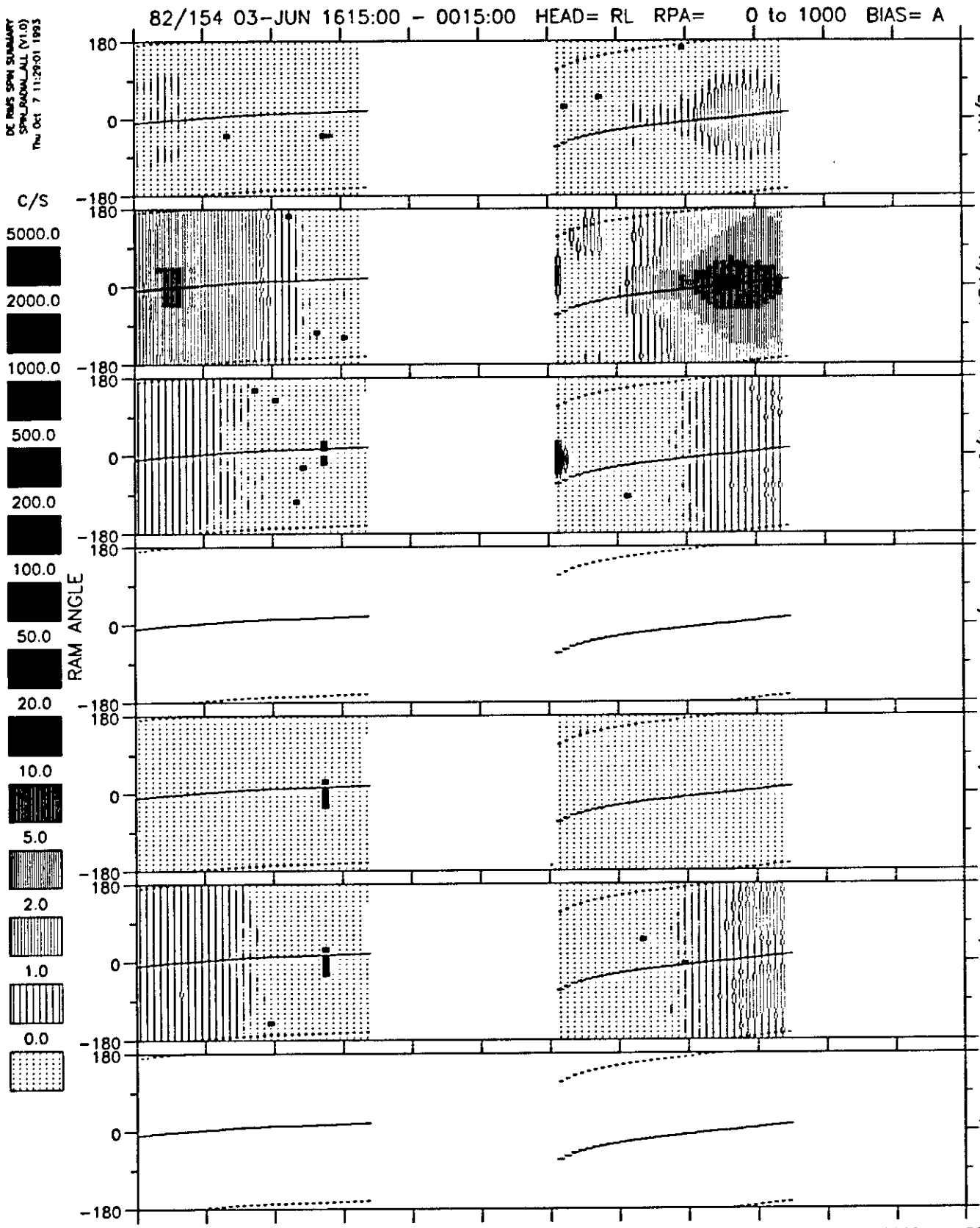
TIME	1955	2035	2115	2155	2235	0000	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.6	4.3	3.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.8	5.2	5.8	7.4	18.1	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	18.5	18.6	18.6	18.6	18.5	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	7.34	18.88	31.05	45.79	68.16	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.8	63.9	65.5	68.5	76.4	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



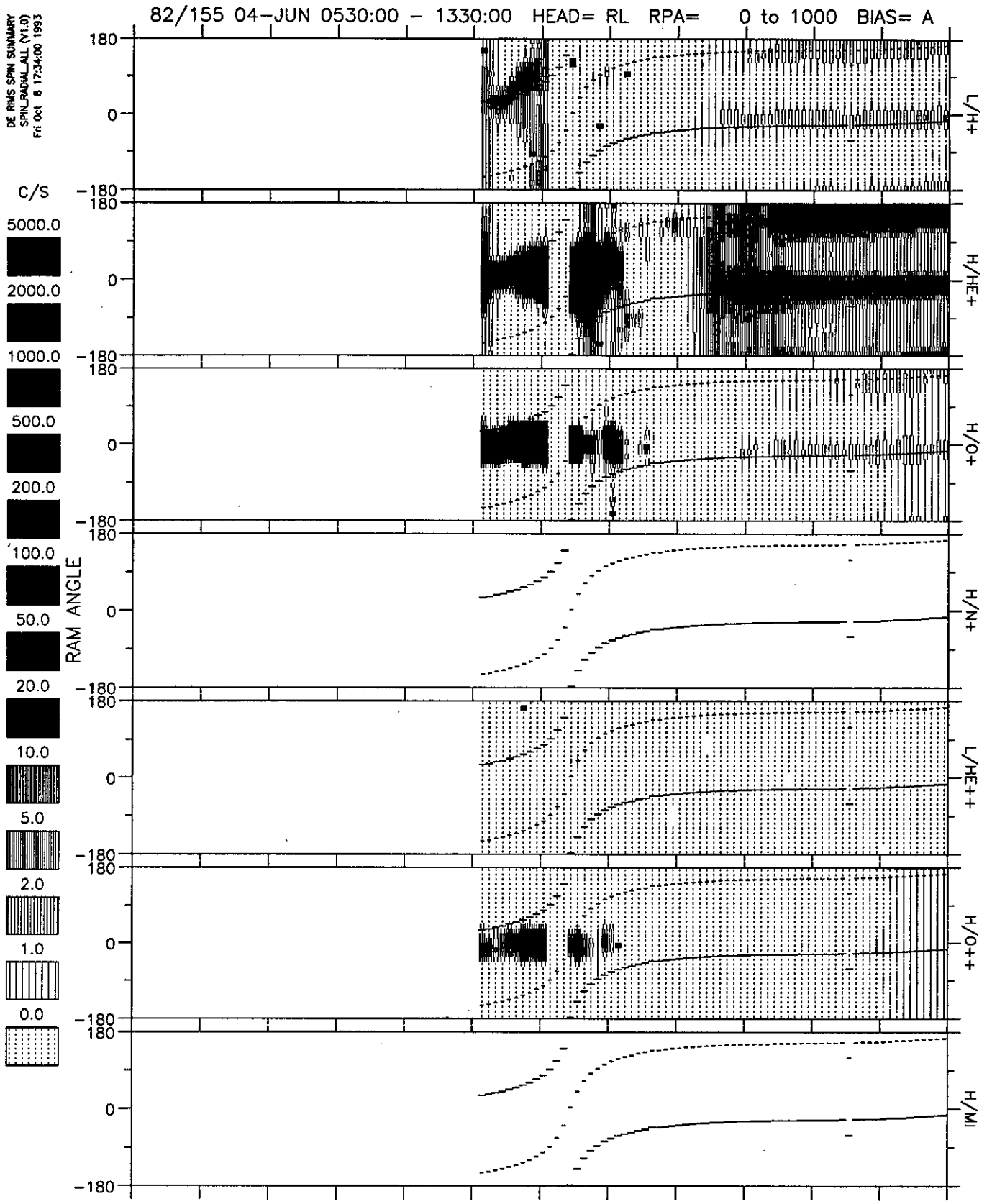
TIME	0000	0000	0000	0000	0000	0000	0000	0720	0800	0840	0920	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	3.7	4.3	4.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	6.2	5.3	4.9	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.9	18.3	18.1	17.9	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.5	66.4	64.3	63.2	DEGS



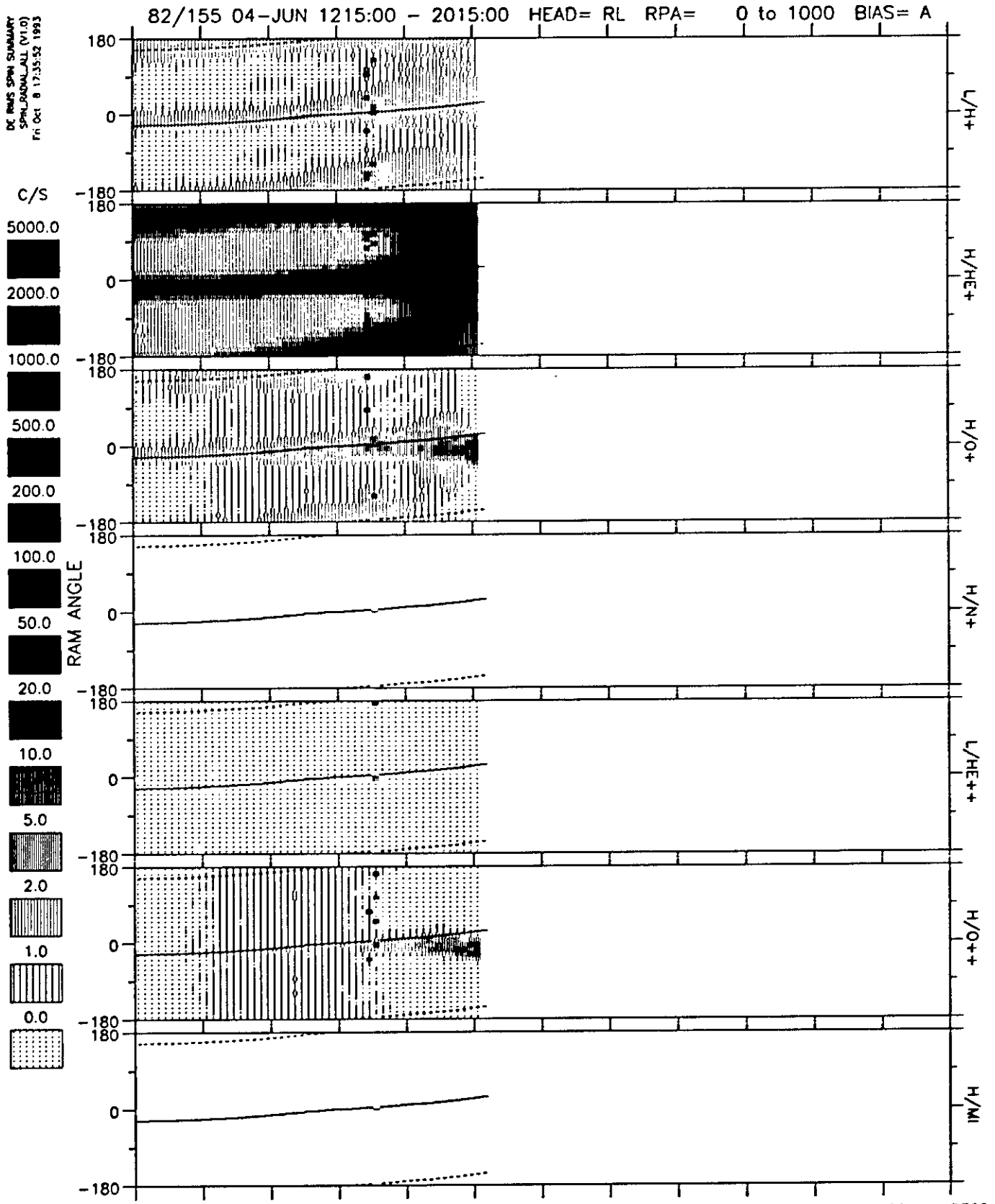
TIME	0940	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	*****	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



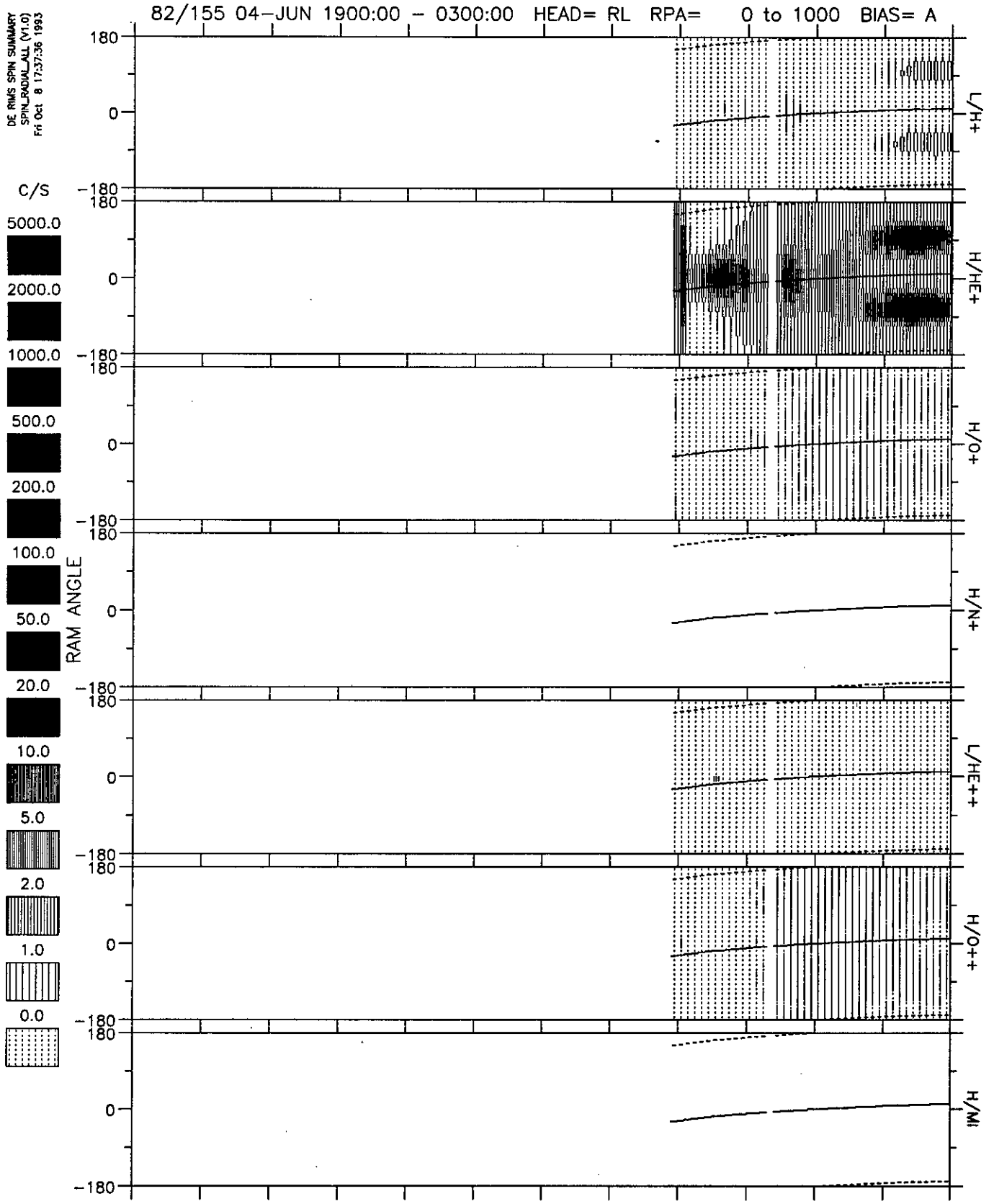
TIME	1655	1735	1815	0000	0000	0000	2055	2135	2215	0000	0000	DEGS
RE	4.6	4.4	3.8	0.0	0.0	0.0	2.7	3.7	4.3	0.0	0.0	HHMM
L	4.7	4.9	5.5	0.0	0.0	0.0	5.2	4.3	4.4	0.0	0.0	RE
MLT	18.1	18.4	18.6	0.0	0.0	0.0	18.0	18.2	18.3	0.0	0.0	
MLAT	7.47	20.25	35.26	0.00	0.00	0.00	•••••	•••••	-6.70	0.00	0.00	HRS
INVLAT	62.6	63.1	64.7	0.0	0.0	0.0	63.9	61.1	61.5	0.0	0.0	DEGS



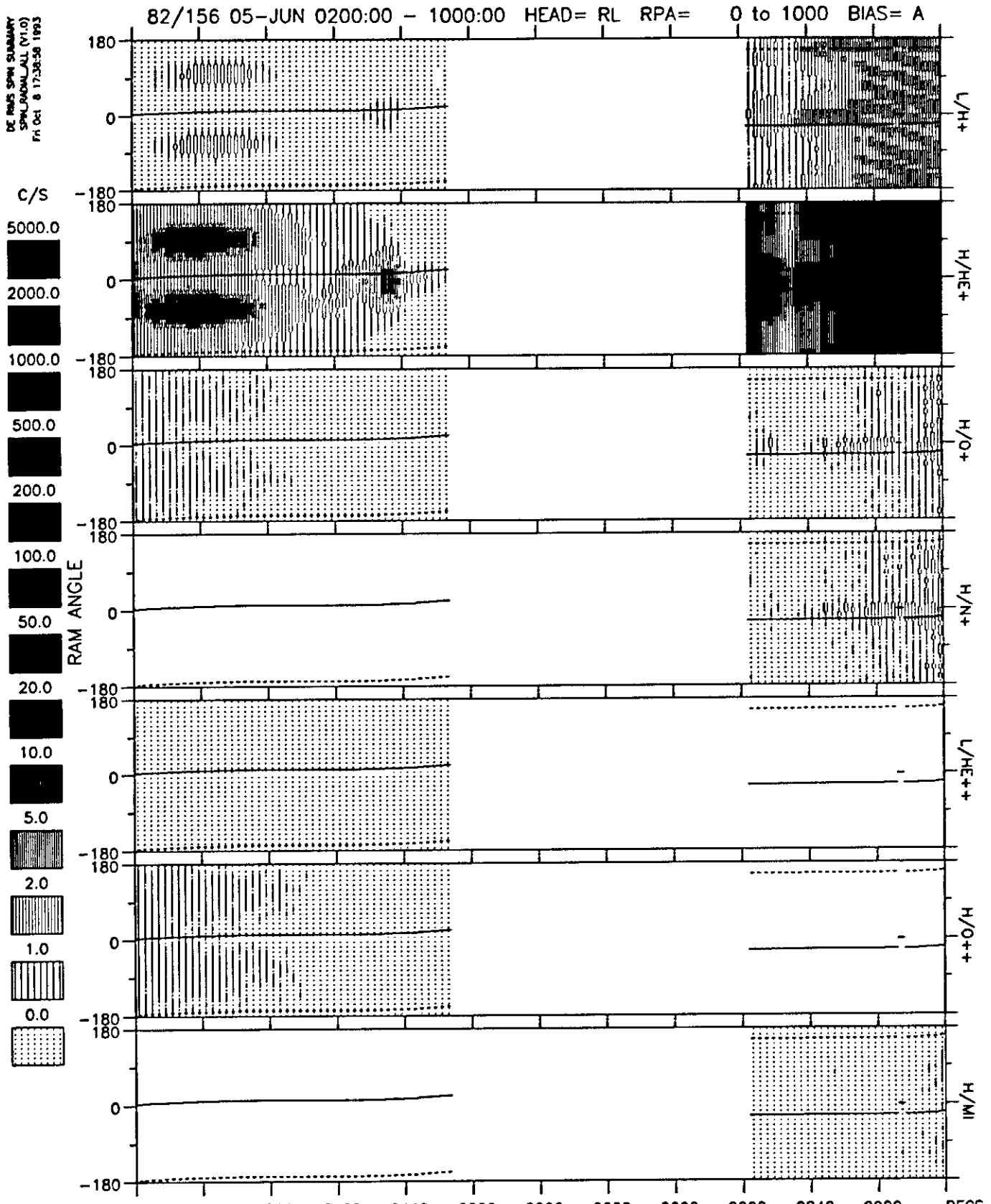
TIME	0000	0000	0000	0000	0000	0930	1010	1050	1130	1210	1250	DEGS
RE	0.0	0.0	0.0	0.0	0.0	1.2	1.9	3.1	3.9	4.4	4.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	3.4	100.0	10.4	6.2	5.3	4.8	RE
MLT	0.0	0.0	0.0	0.0	0.0	5.9	5.1	17.5	17.4	17.5	17.5	
MLAT	0.00	0.00	0.00	0.00	0.00	55.07	*****	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	57.1	85.1	71.9	66.4	64.2	63.0	DEGS



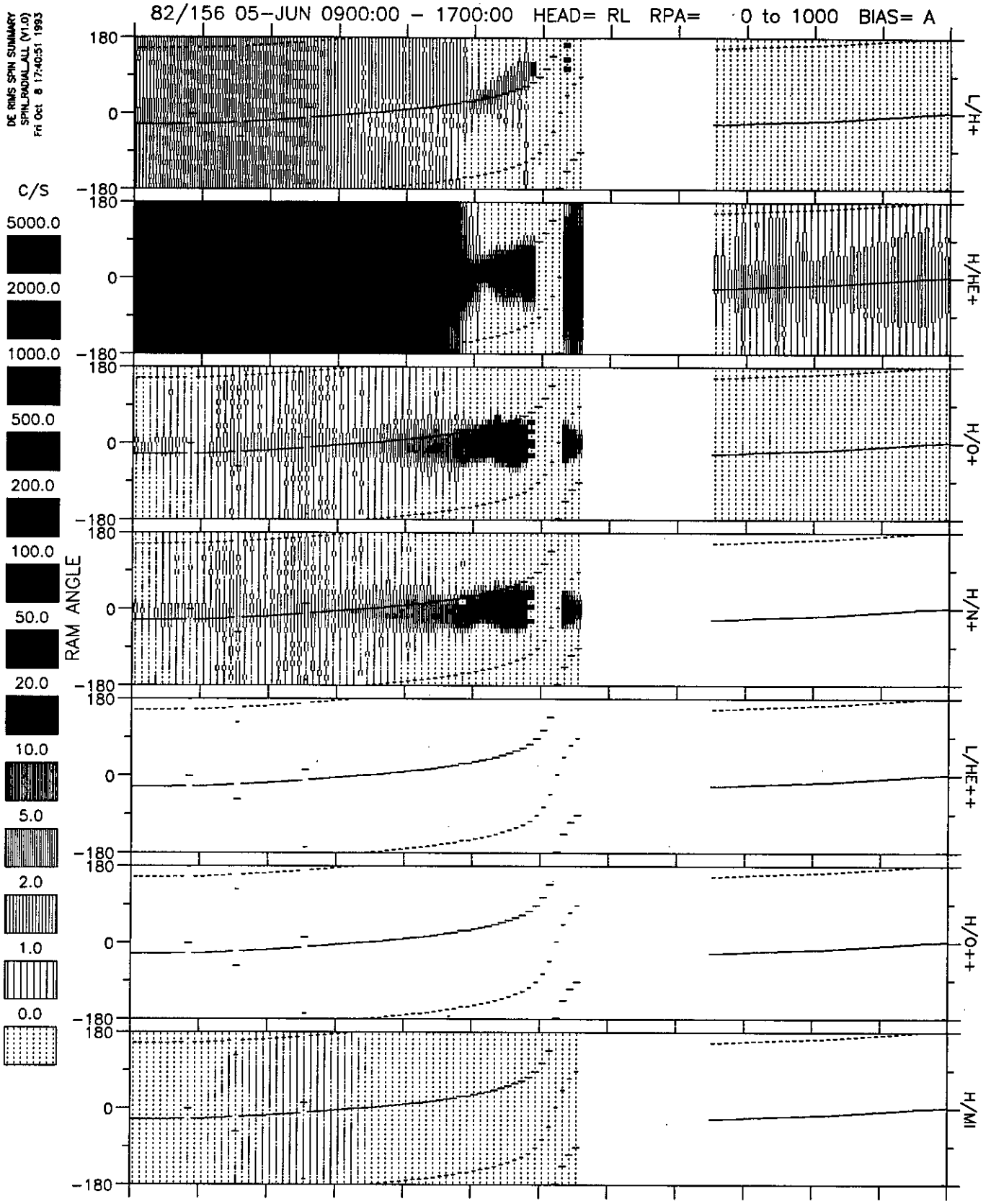
TIME	1255	1335	1415	1455	1535	0000	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.6	4.3	3.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.8	4.6	4.5	4.7	7.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	17.6	17.7	17.9	18.2	18.8	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	•••••	0.35	13.07	28.69	52.07	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.9	62.2	61.9	62.6	67.8	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



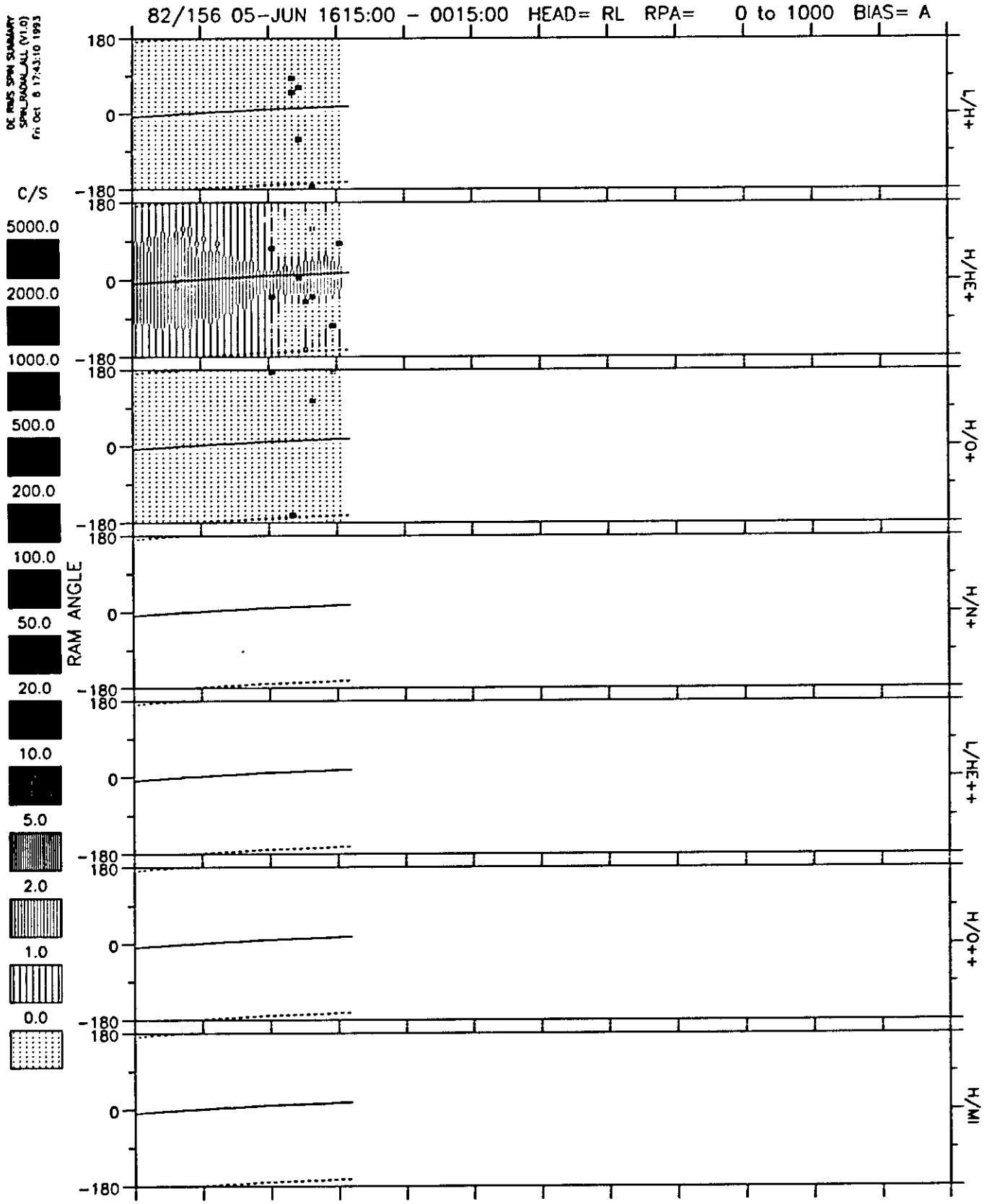
TIME	0000	0000	0000	0000	0000	0000	0000	0020	0100	0140	0220	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	3.7	4.3	4.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	4.4	4.5	4.6	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5	18.3	18.2	18.1	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-0.55	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.7	61.4	61.7	62.2	DEGS



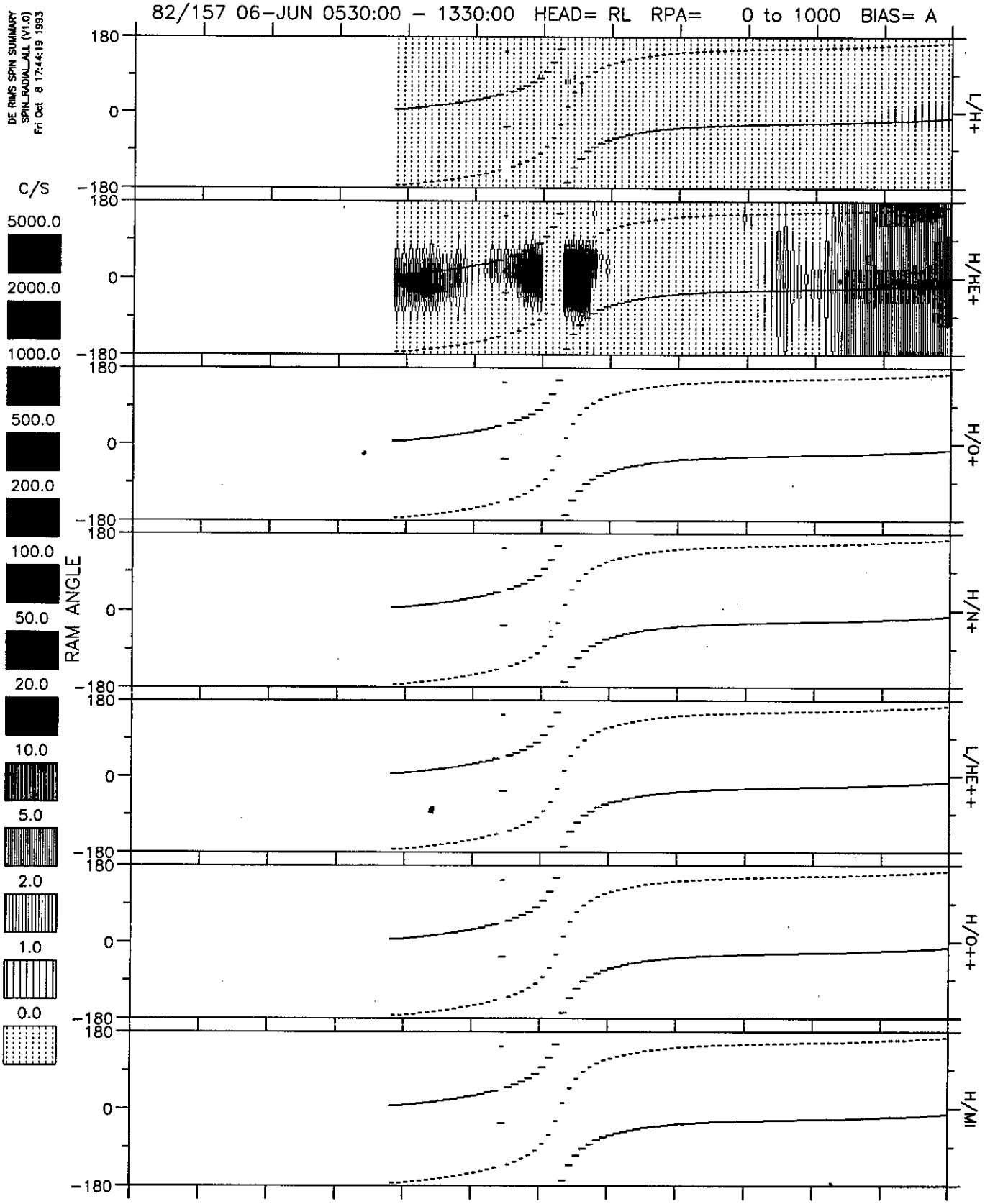
TIME	0240	0320	0400	0440	0000	0000	0000	0000	0000	0840	0920	DEGS
RE	4.7	4.6	4.2	3.6	0.0	0.0	0.0	0.0	0.0	4.4	4.6	HHMM
L	4.7	4.8	4.8	5.1	0.0	0.0	0.0	0.0	0.0	5.3	4.9	RE
MLT	18.0	17.8	17.6	17.4	0.0	0.0	0.0	0.0	0.0	17.8	17.6	
MLAT	3.72	12.12	21.42	33.70	0.00	0.00	0.00	0.00	0.00	*****	*****	HRS
INVLAT	62.4	62.7	62.9	63.7	0.0	0.0	0.0	0.0	0.0	64.3	63.1	DEGS



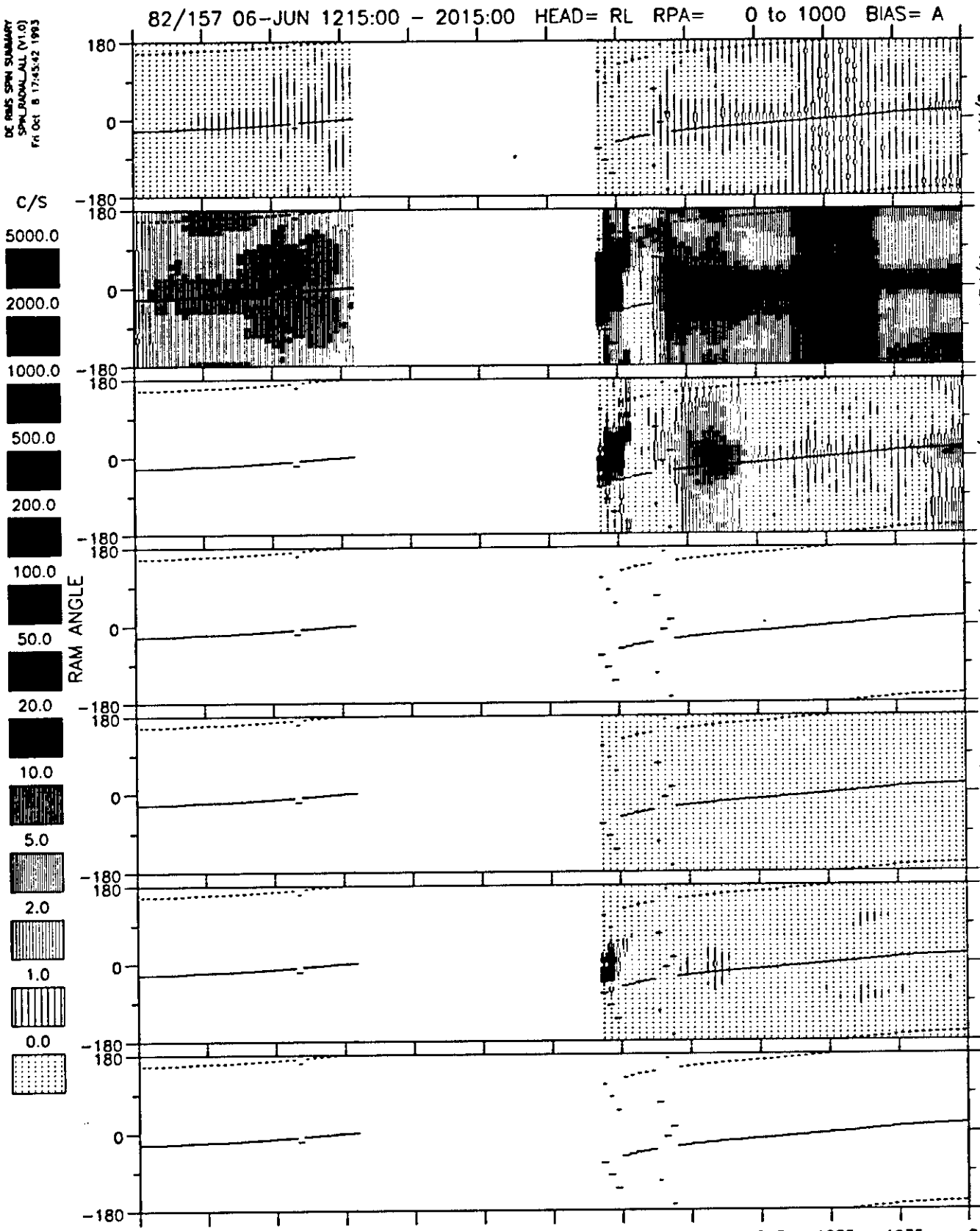
TIME	0940	1020	1100	1140	1220	1300	0000	0000	1500	1540	1620	DEGS
RE	4.7	4.5	4.1	3.4	2.3	1.1	0.0	0.0	4.0	4.5	4.7	HHMM
L	4.7	4.5	4.3	4.5	8.6	1.2	0.0	0.0	5.4	4.9	4.7	RE
MLT	17.6	17.5	17.6	17.7	18.2	5.4	0.0	0.0	17.3	17.6	17.8	
MLAT	*****	0.02	12.12	28.44	57.06	21.57	0.00	0.00	*****	*****	-2.11	HRS
INVLAT	62.6	61.7	61.1	61.8	70.1	25.3	0.0	0.0	64.4	63.1	62.6	DEGS



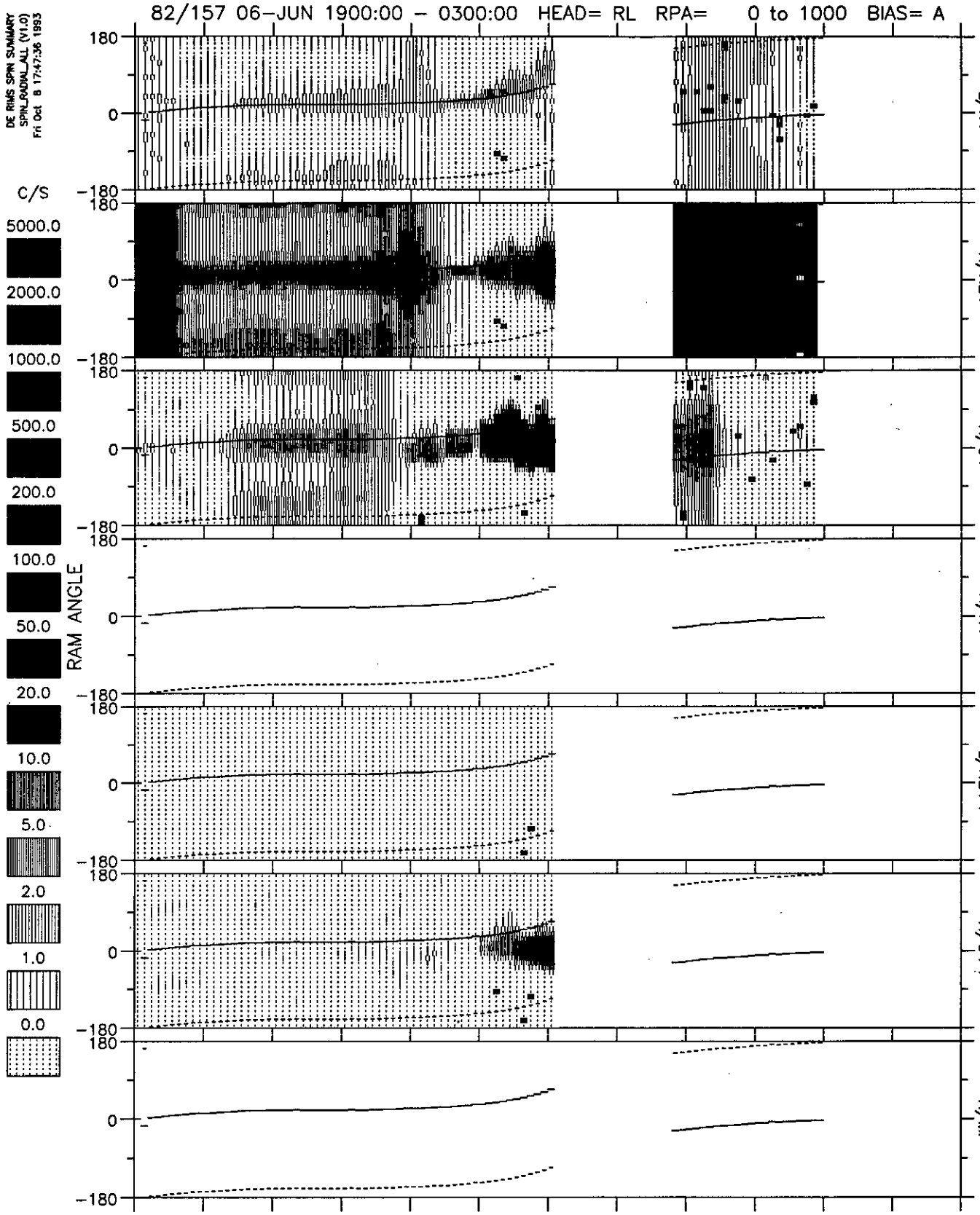
TIME	1655	1735	1815	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.6	4.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.7	4.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	18.0	18.2	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	8.51	21.46	36.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.6	63.1	64.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



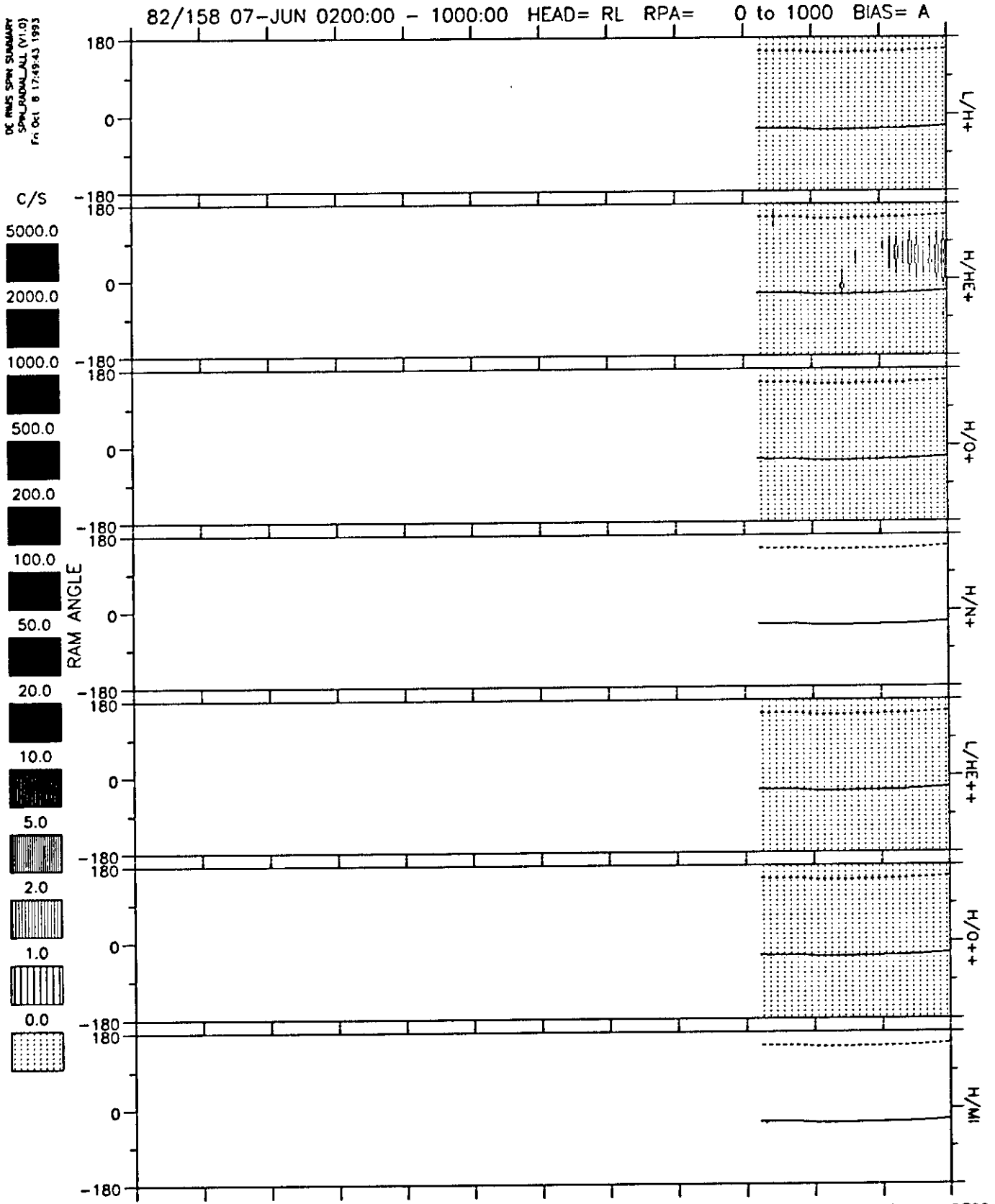
TIME	0000	0000	0000	0810	0850	0930	1010	1050	1130	1210	1250	DEGS
RE	0.0	0.0	0.0	3.4	2.4	1.1	2.1	3.2	4.0	4.5	4.7	HHMM
L	0.0	0.0	0.0	4.4	7.6	1.6	100.0	9.6	6.1	5.2	4.8	RE
MLT	0.0	0.0	0.0	17.3	17.1	5.6	18.0	17.3	17.3	17.3	17.4	
MLAT	0.00	0.00	0.00	28.25	54.39	34.35	*****	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	61.6	68.8	38.7	89.2	71.1	66.2	64.1	62.9	DEGS



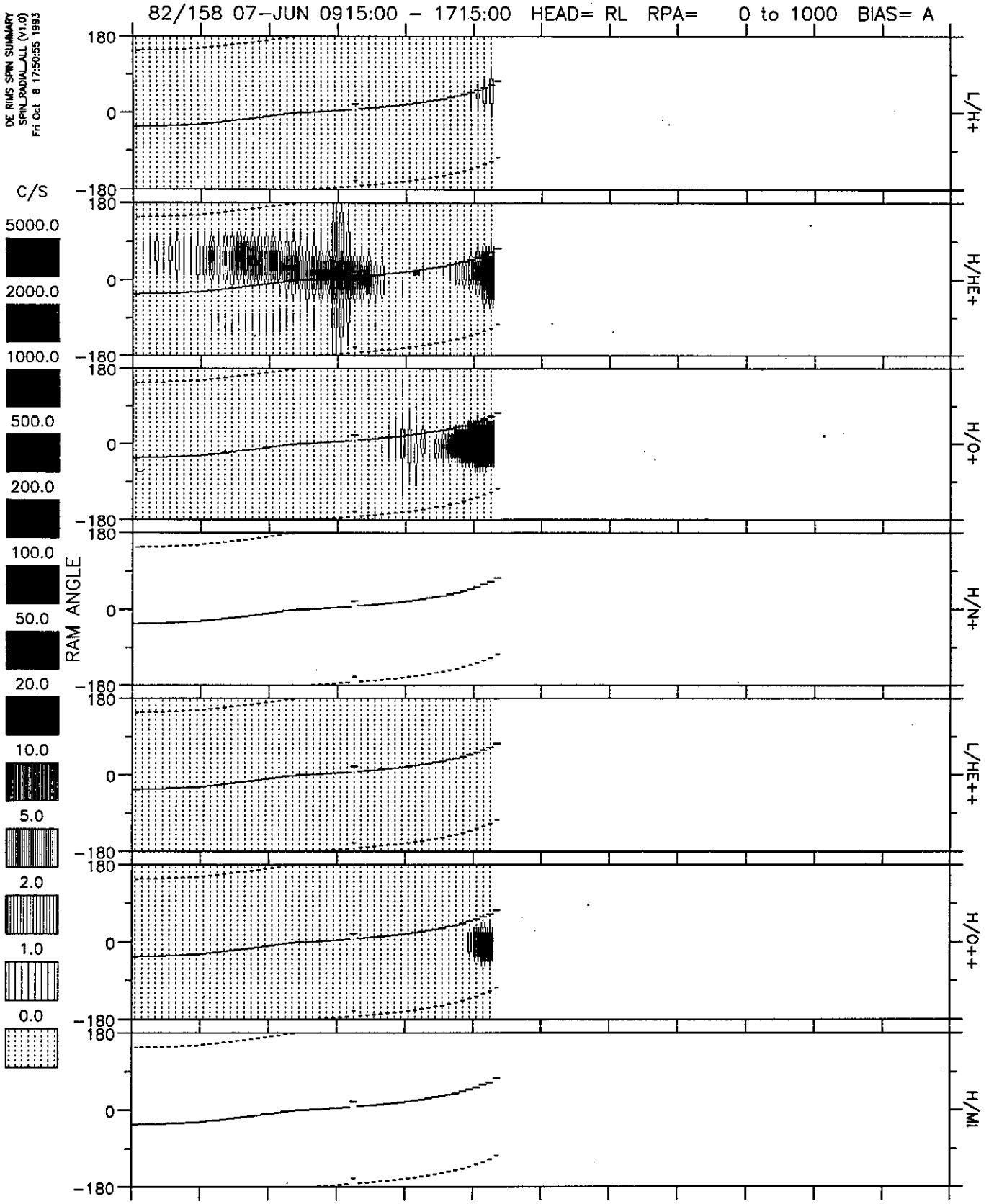
TIME	1255	1335	1415	0000	0000	0000	1655	1735	1815	1855	1935	DEGS
RE	4.7	4.6	4.3	0.0	0.0	0.0	1.9	3.1	3.9	4.4	4.7	HHMM
L	4.8	4.6	4.5	0.0	0.0	0.0	25.7	5.8	4.8	4.6	4.8	RE
MLT	17.4	17.6	17.7	0.0	0.0	0.0	14.0	17.2	17.6	17.9	18.1	
MLAT	•••••	1.33	13.08	0.00	0.00	0.00	•••••	•••••	•••••	-7.85	4.29	HRS
INVLAT	62.8	62.1	61.8	0.0	0.0	0.0	78.6	65.5	62.7	62.3	62.7	DEGS



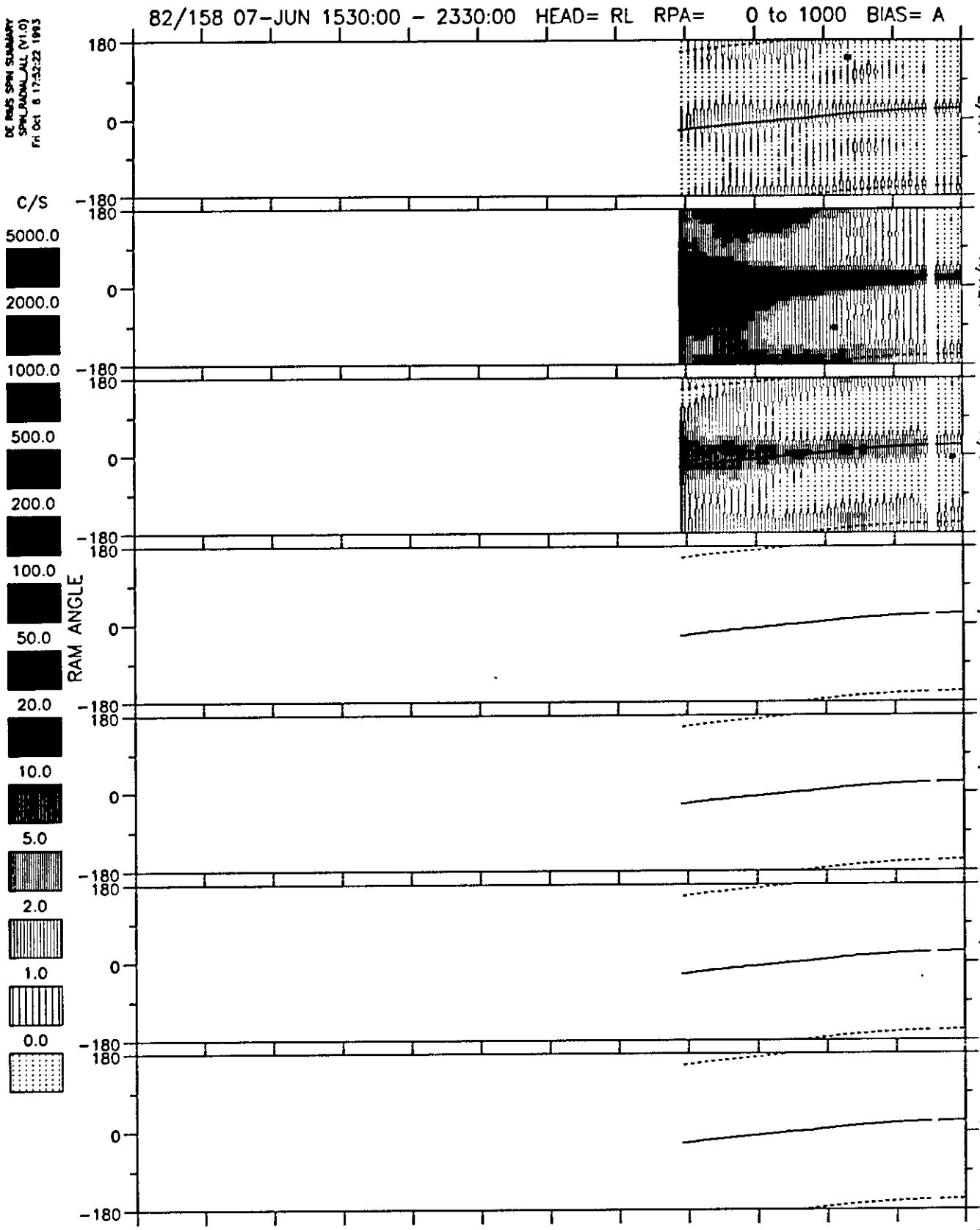
TIME	1940	2020	2100	2140	2220	2300	0000	0020	0100	0000	0000	DEGS
RE	4.7	4.6	4.3	3.7	2.7	1.5	0.0	2.9	3.8	0.0	0.0	HHMM
L	4.8	5.1	5.6	7.0	15.9	7.6	0.0	4.9	4.4	0.0	0.0	RE
MLT	18.1	18.2	18.2	18.2	18.1	6.3	0.0	18.4	18.2	0.0	0.0	
MLAT	5.72	17.21	29.36	44.05	66.42	60.55	0.00	*****	*****	0.00	0.00	HRS
INVLAT	62.8	63.6	65.1	67.8	75.5	68.7	0.0	63.2	61.6	0.0	0.0	DEGS



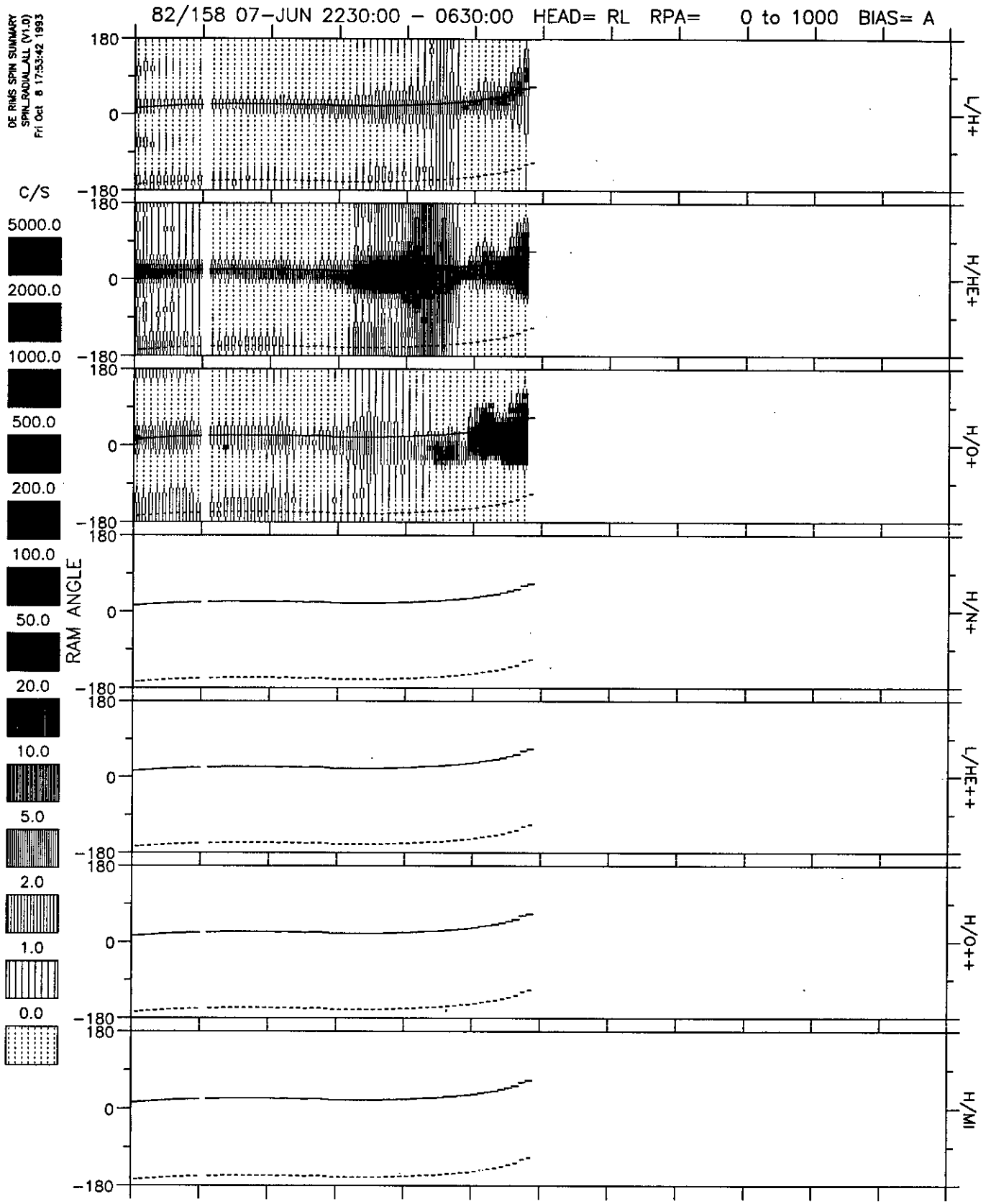
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0840	0920	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	4.9	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	17.5	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.3	63.1	DEGS



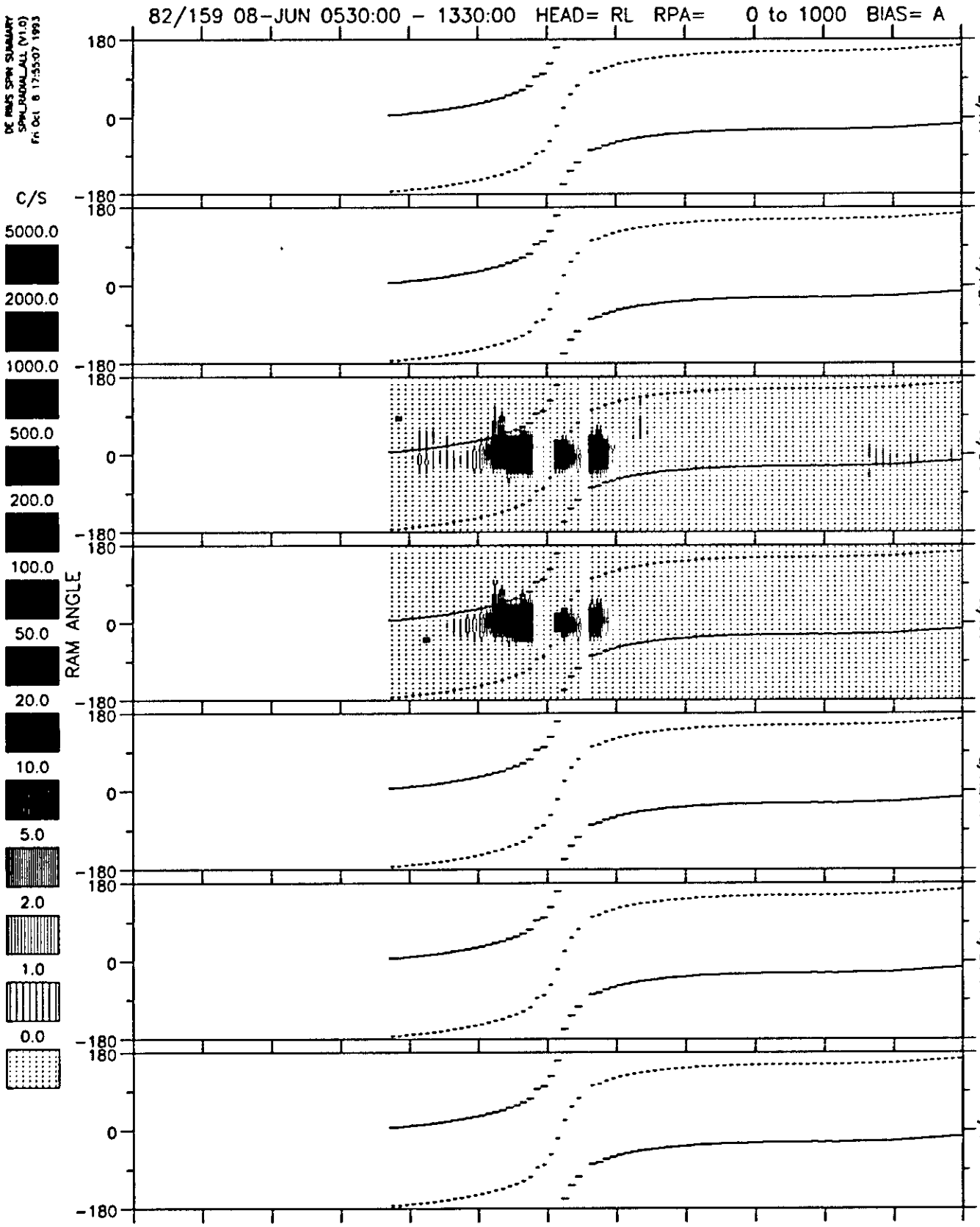
TIME	0955	1035	1115	1155	1235	0000	0000	0000	0000	0000	0000	DEGS
RE	4.6	4.4	3.8	2.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.6	4.3	4.2	5.1	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	17.4	17.4	17.5	17.7	22.4	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	-5.90	5.15	18.94	39.63	83.22	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.2	61.3	61.0	63.7	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



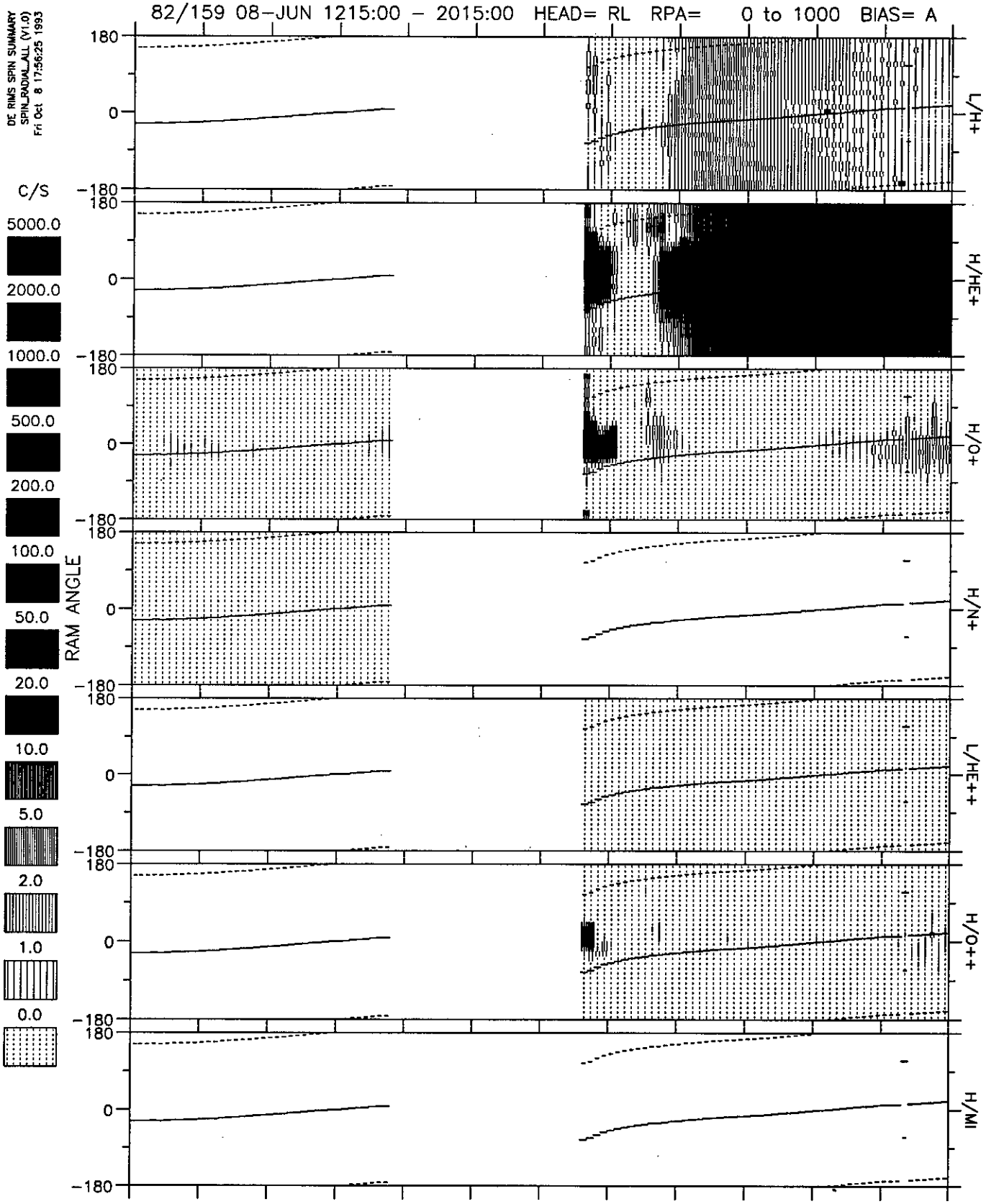
TIME	0000	0000	0000	0000	0000	0000	0000	2050	2130	2210	2250	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	3.8	4.3	4.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	4.3	4.5	4.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	18.0	18.0	18.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-6.42	4.54	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.5	61.3	61.7	62.6	DEGS



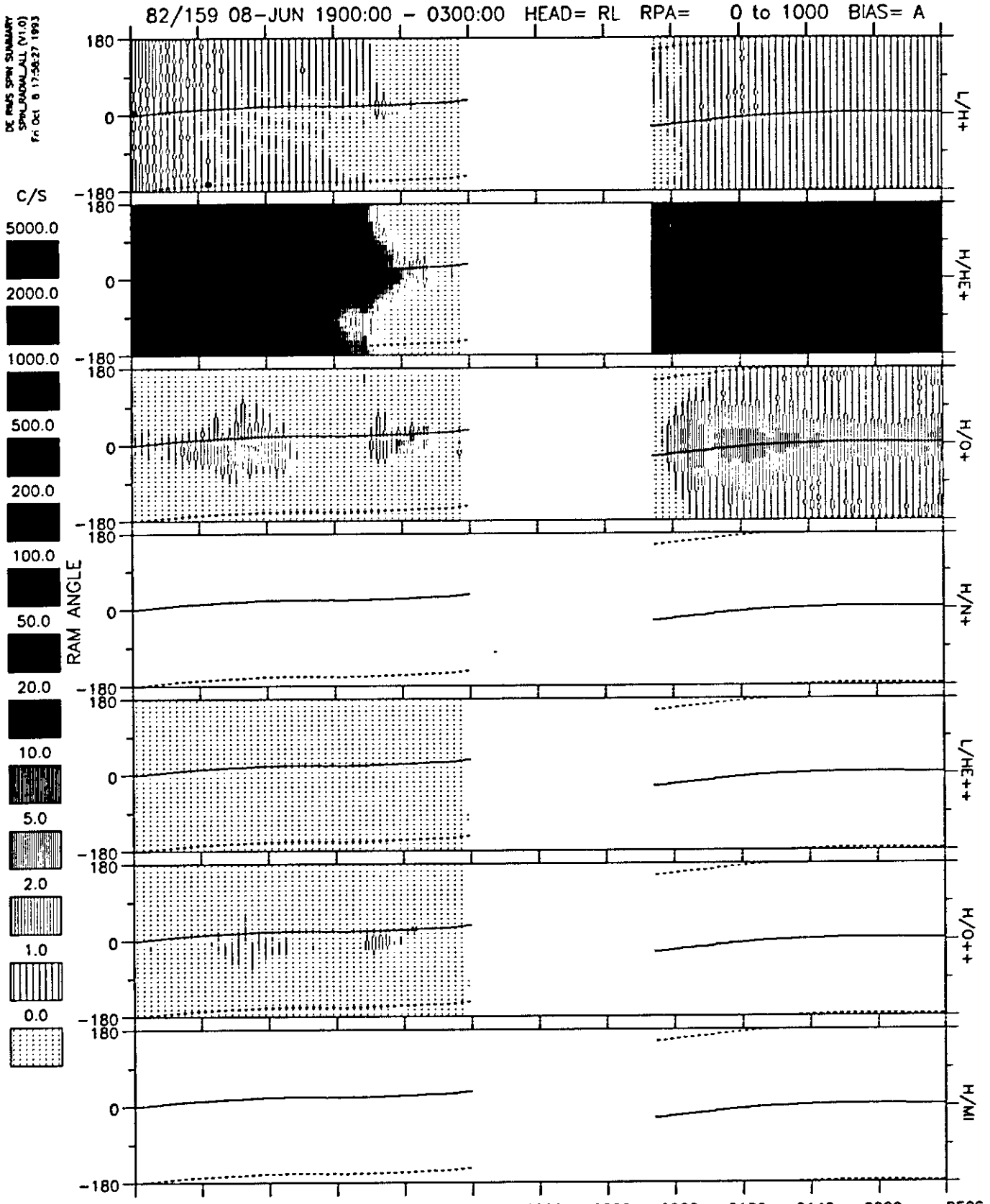
TIME	0000	2350	0030	0110	0150	0000	0000	0000	0000	0000	0000	DEGS
RE	0.0	4.6	4.2	3.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	5.2	5.6	6.7	14.9	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	17.9	17.7	17.4	16.5	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	19.34	29.90	43.38	65.71	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	63.9	65.0	67.2	75.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



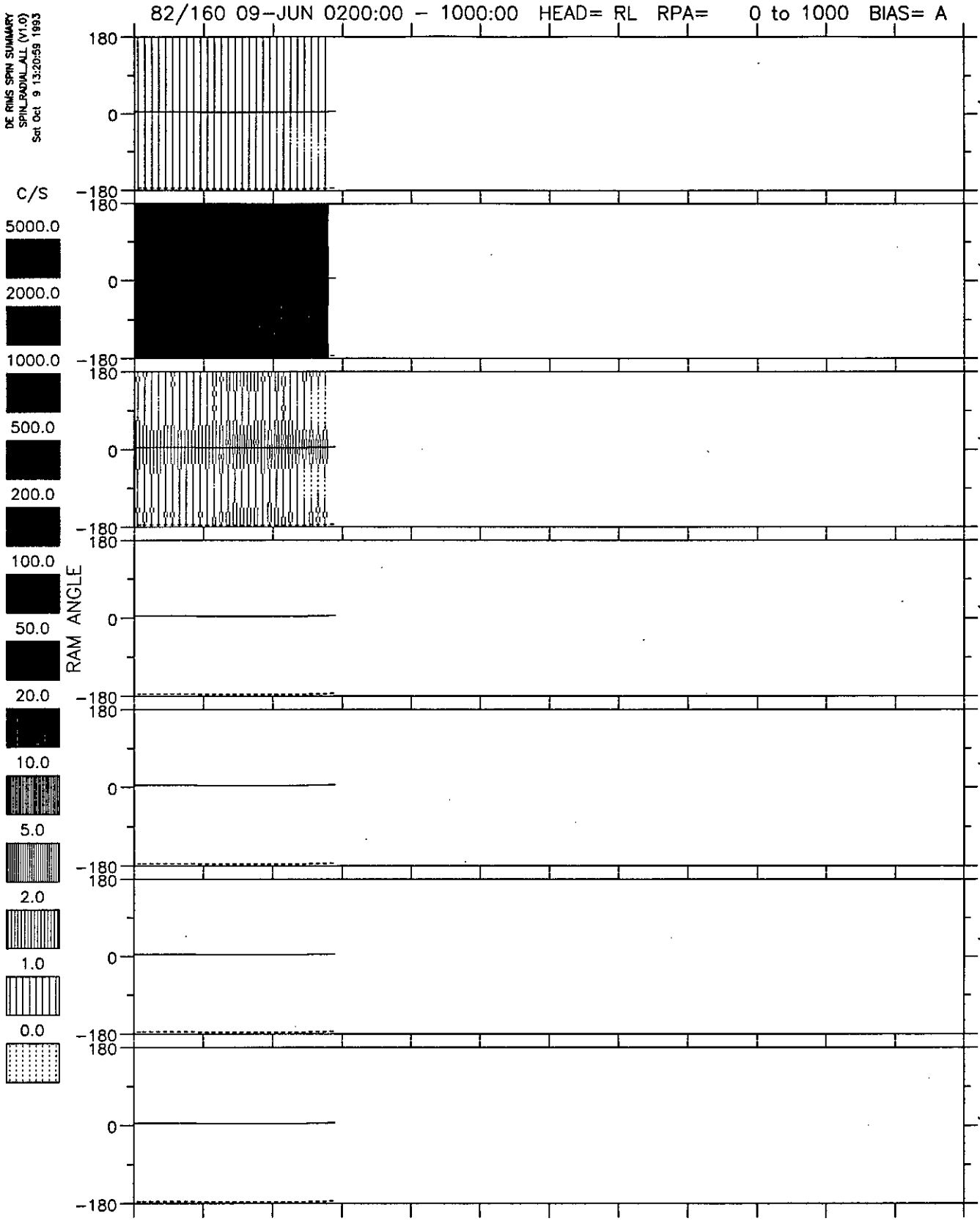
TIME	0000	0000	0000	0810	0850	0930	1010	1050	1130	1210	1250	DEGS
RE	0.0	0.0	0.0	3.3	2.2	1.1	2.2	3.3	4.1	4.5	4.7	HHMM
L	0.0	0.0	0.0	4.4	9.5	1.2	-0.0	8.9	6.1	5.2	4.8	RE
MLT	0.0	0.0	0.0	17.2	16.9	5.4	17.3	17.2	17.1	17.2	17.3	
MLAT	0.00	0.00	0.00	29.97	59.22	9.71	*****	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	61.7	71.0	22.9	-0.0	70.5	66.0	64.0	62.9	DEGS



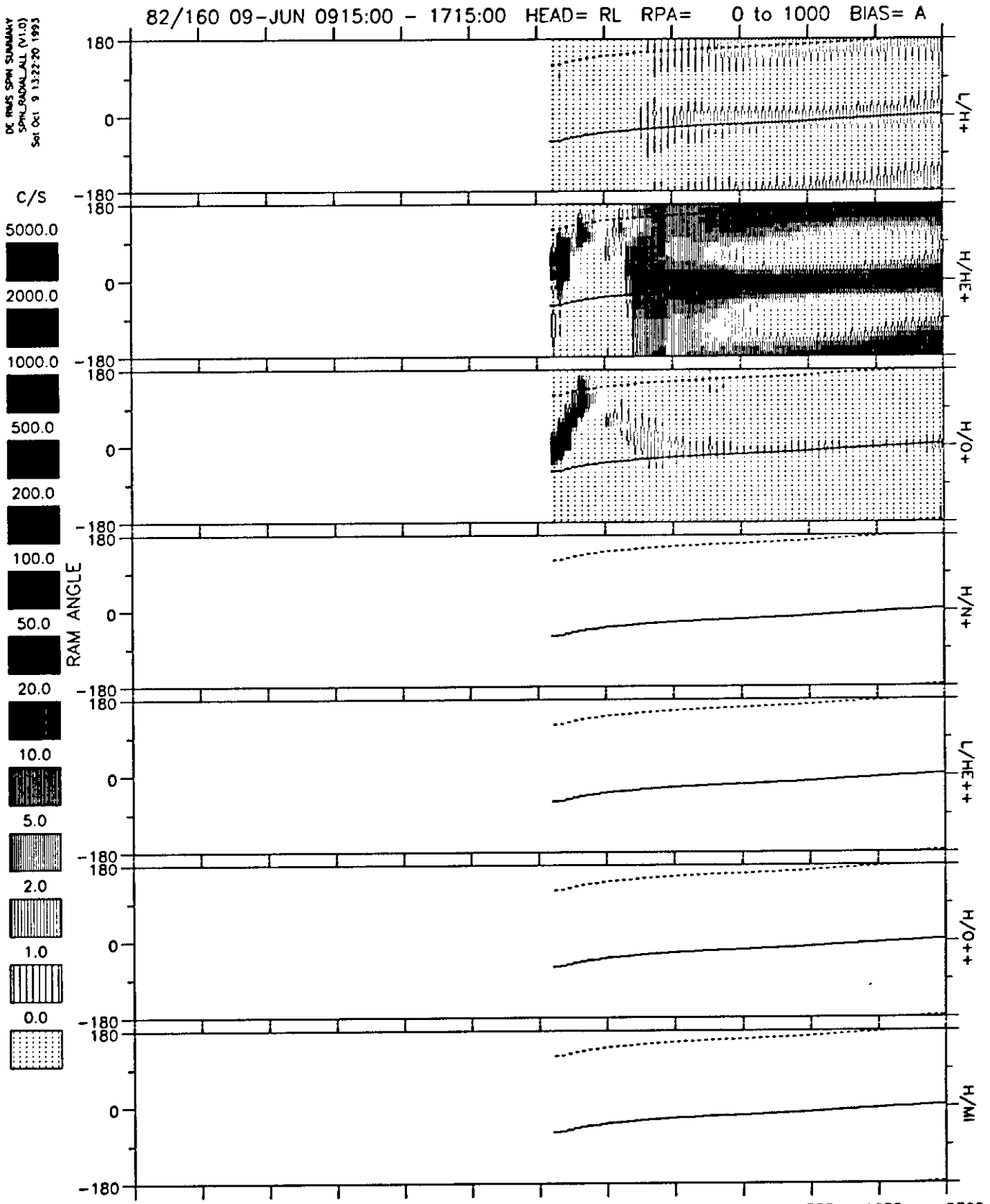
TIME	1255	1335	1415	0000	0000	0000	1655	1735	1815	1855	1935	DEGS
RE	4.7	4.5	4.1	0.0	0.0	0.0	2.0	3.2	4.0	4.5	4.7	HHMM
L	4.8	4.5	4.5	0.0	0.0	0.0	17.6	5.6	4.8	4.6	4.8	RE
MLT	17.3	17.4	17.6	0.0	0.0	0.0	15.2	17.1	17.5	17.8	17.9	
MLAT	-9.48	2.34	15.61	0.00	0.00	0.00	*****	*****	*****	-6.79	5.18	HRS
INVLAT	62.8	62.0	61.7	0.0	0.0	0.0	76.2	65.1	62.7	62.3	62.7	DEGS



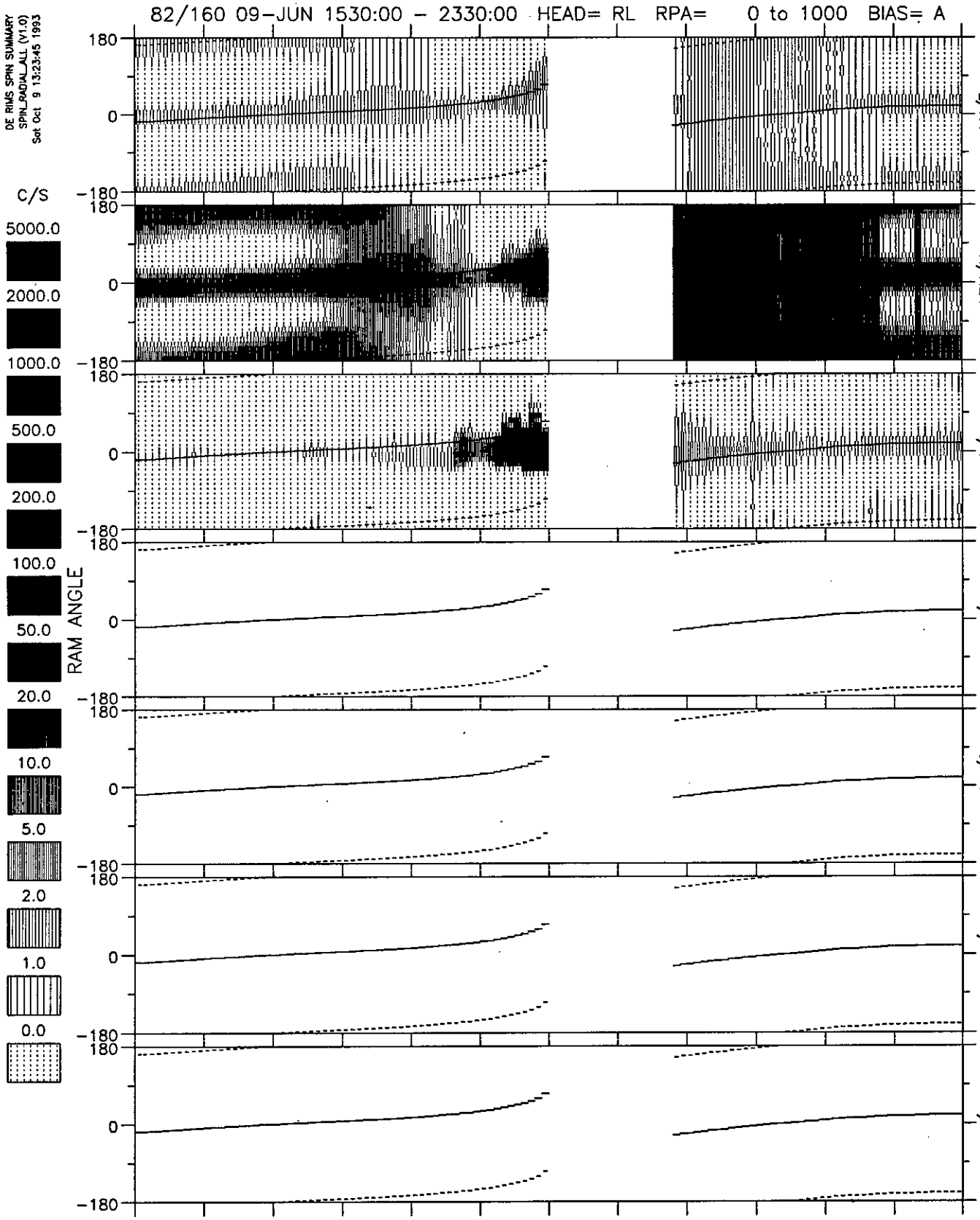
TIME	1940	2020	2100	2140	0000	0000	0000	0020	0100	0140	0220	DEGS
RE	4.7	4.6	4.2	3.6	0.0	0.0	0.0	3.1	3.9	4.4	4.7	HHMM
L	4.8	5.1	5.7	7.2	0.0	0.0	0.0	4.8	4.4	4.5	4.6	RE
MLT	17.9	18.0	18.1	18.1	0.0	0.0	0.0	18.2	18.1	17.9	17.8	
MLAT	6.60	18.09	30.41	45.64	0.00	0.00	0.00	•••••	•••••	-8.97	0.10	HRS
INVLAT	62.8	63.7	65.2	68.2	0.0	0.0	0.0	63.0	61.7	62.0	62.3	DEGS



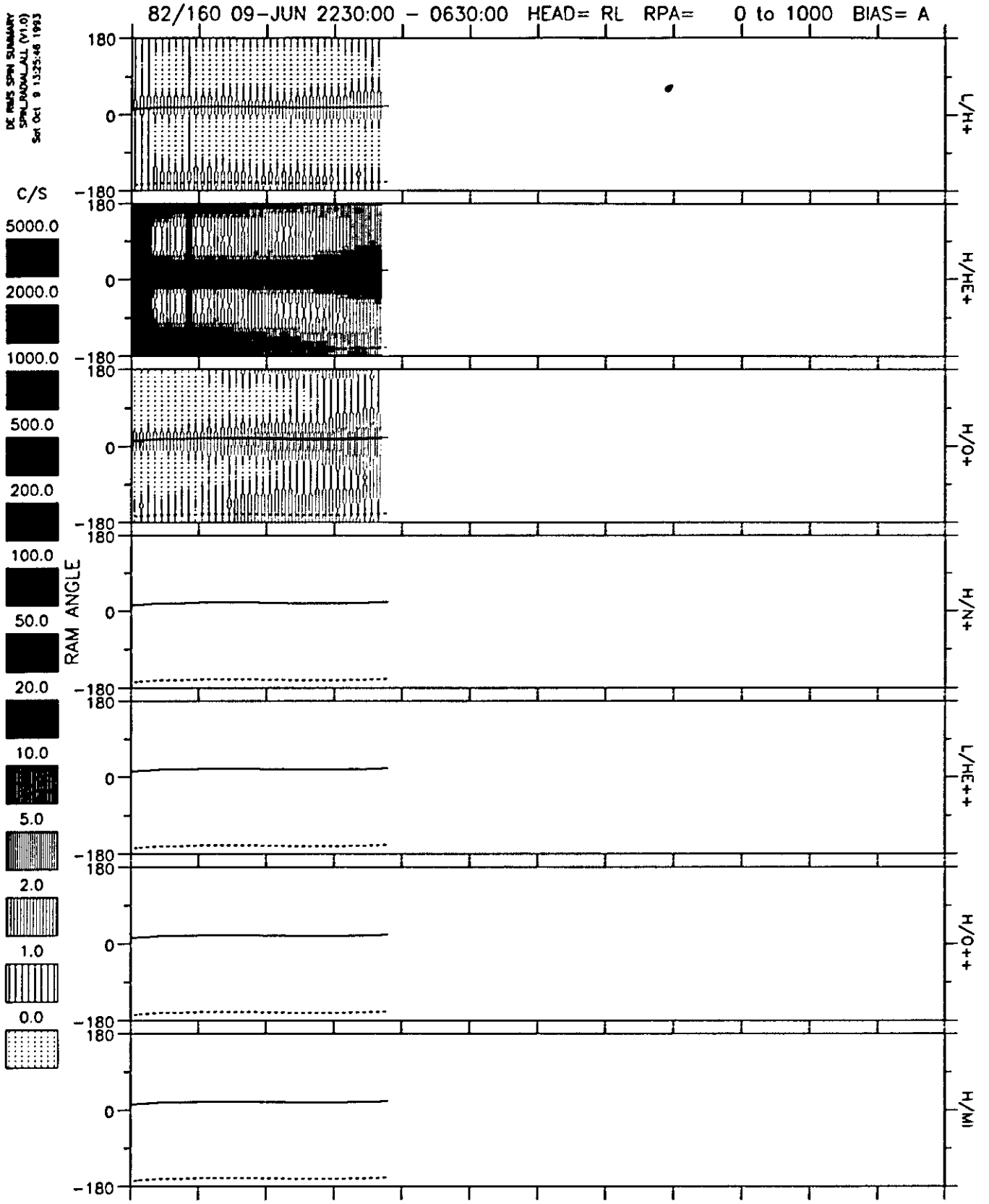
TIME	0240	0320	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	17.7	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	4.29	12.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.5	62.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



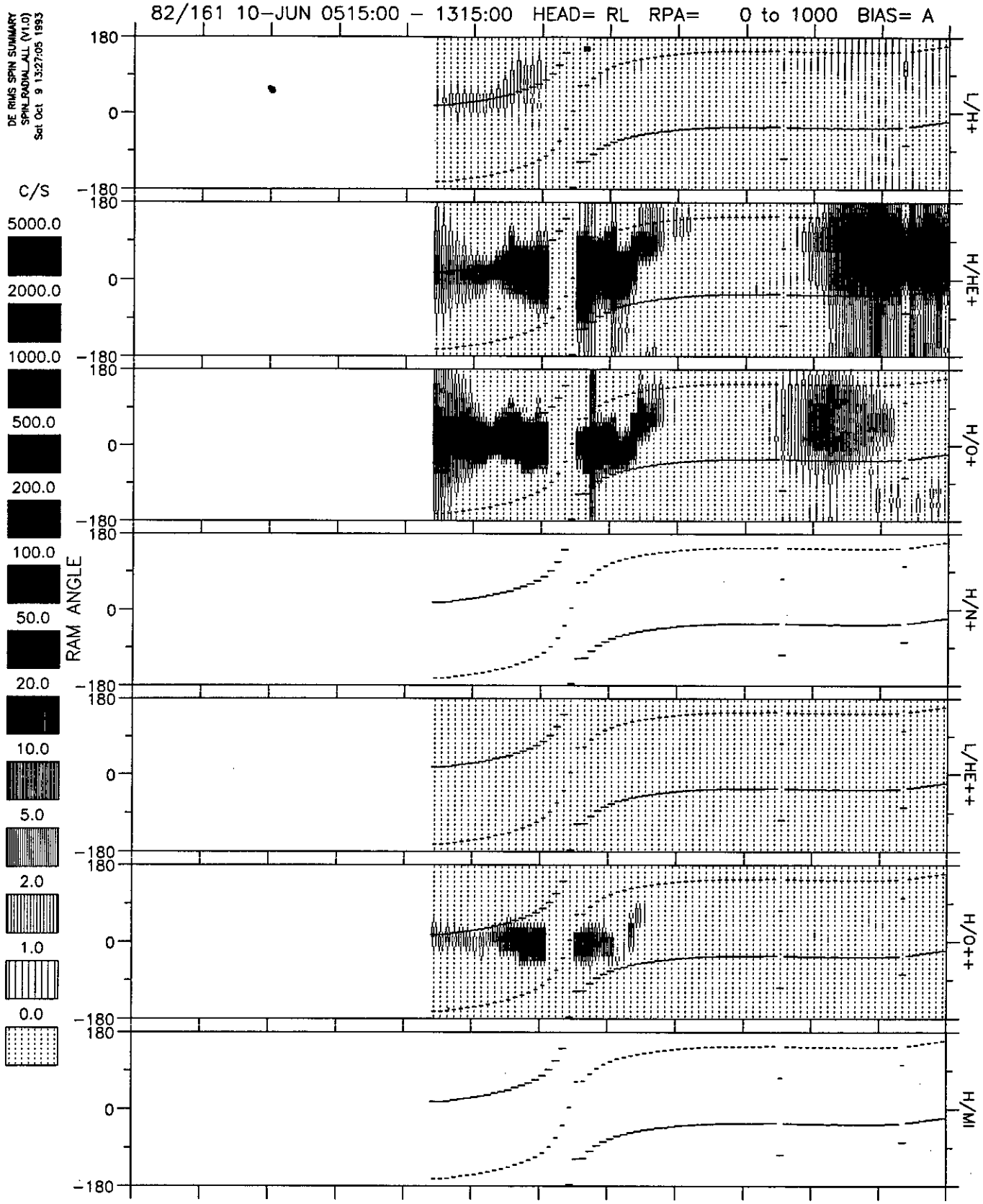
TIME	0000	0000	0000	0000	0000	0000	1355	1435	1515	1555	1635	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	2.9	3.8	4.4	4.6	4.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	10.0	5.9	5.1	4.8	4.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	16.3	16.9	17.2	17.4	17.6	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-7.64	4.50	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	71.5	65.7	63.7	62.8	62.6	DEGS



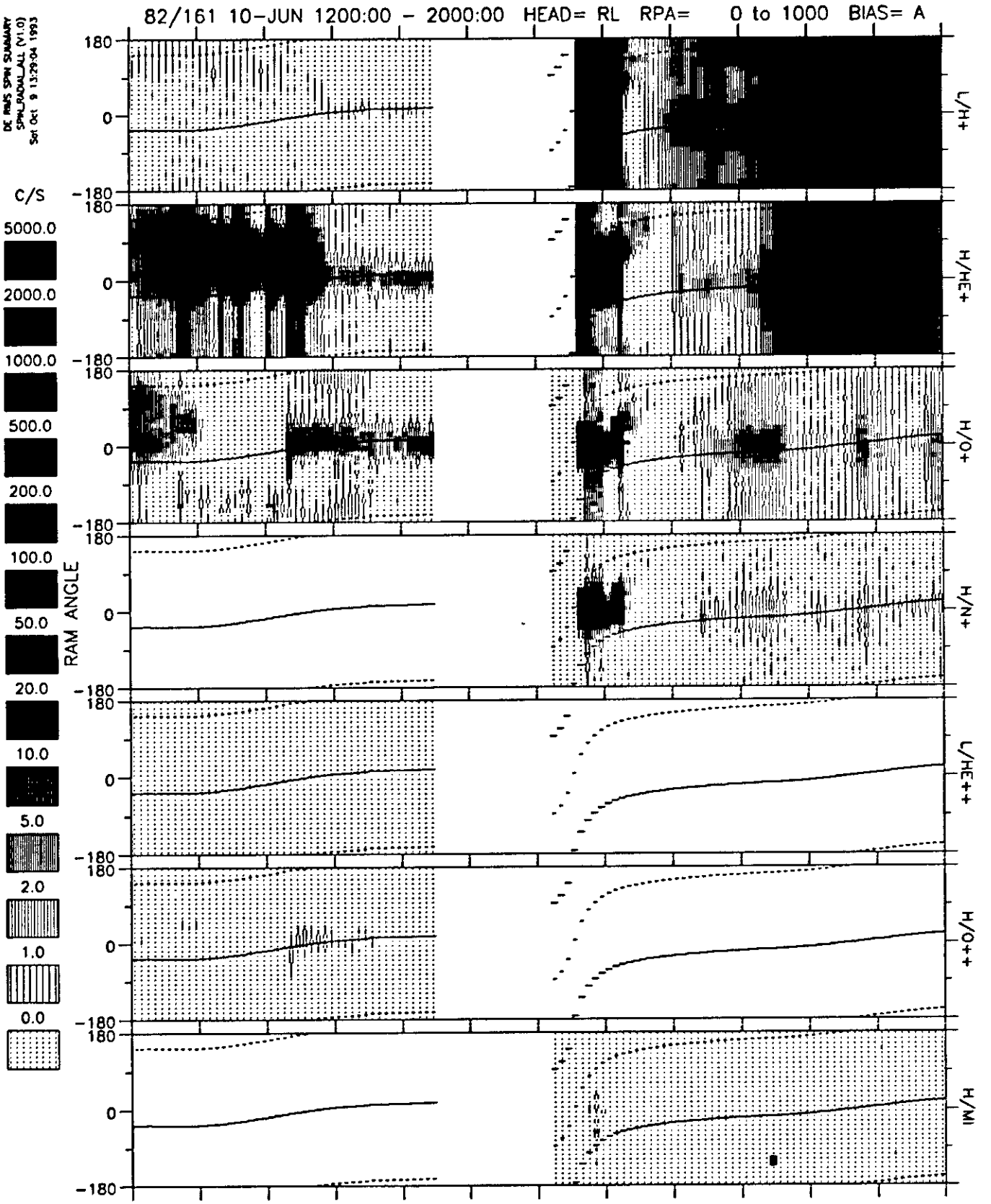
TIME	1610	1650	1730	1810	1850	0000	0000	2050	2130	2210	2250	DEGS
RE	4.7	4.6	4.2	3.6	2.6	0.0	0.0	3.0	3.9	4.4	4.6	HHMM
L	4.8	4.7	4.9	5.6	10.7	0.0	0.0	4.9	4.4	4.5	4.7	RE
MLT	17.5	17.7	18.0	18.2	18.9	0.0	0.0	17.7	17.8	17.9	17.9	
MLAT	-3.05	9.14	22.30	38.33	62.63	0.00	0.00	*****	*****	-5.57	5.15	HRS
INVLAT	62.7	62.6	63.1	64.9	72.2	0.0	0.0	63.1	61.4	61.9	62.7	DEGS



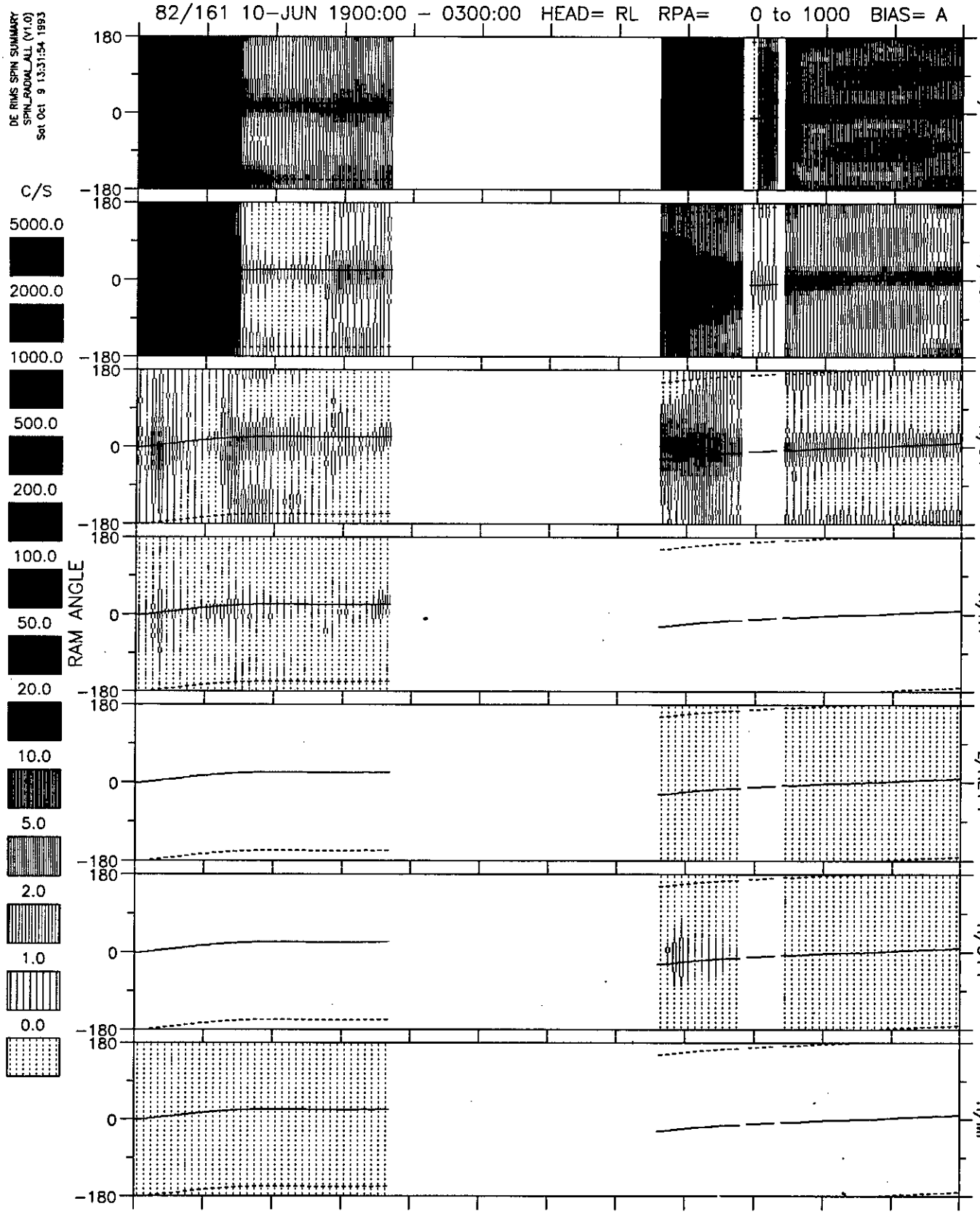
TIME	2310	2350	0030	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.5	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.9	5.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	17.8	17.7	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	10.10	19.89	30.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	63.1	63.9	65.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



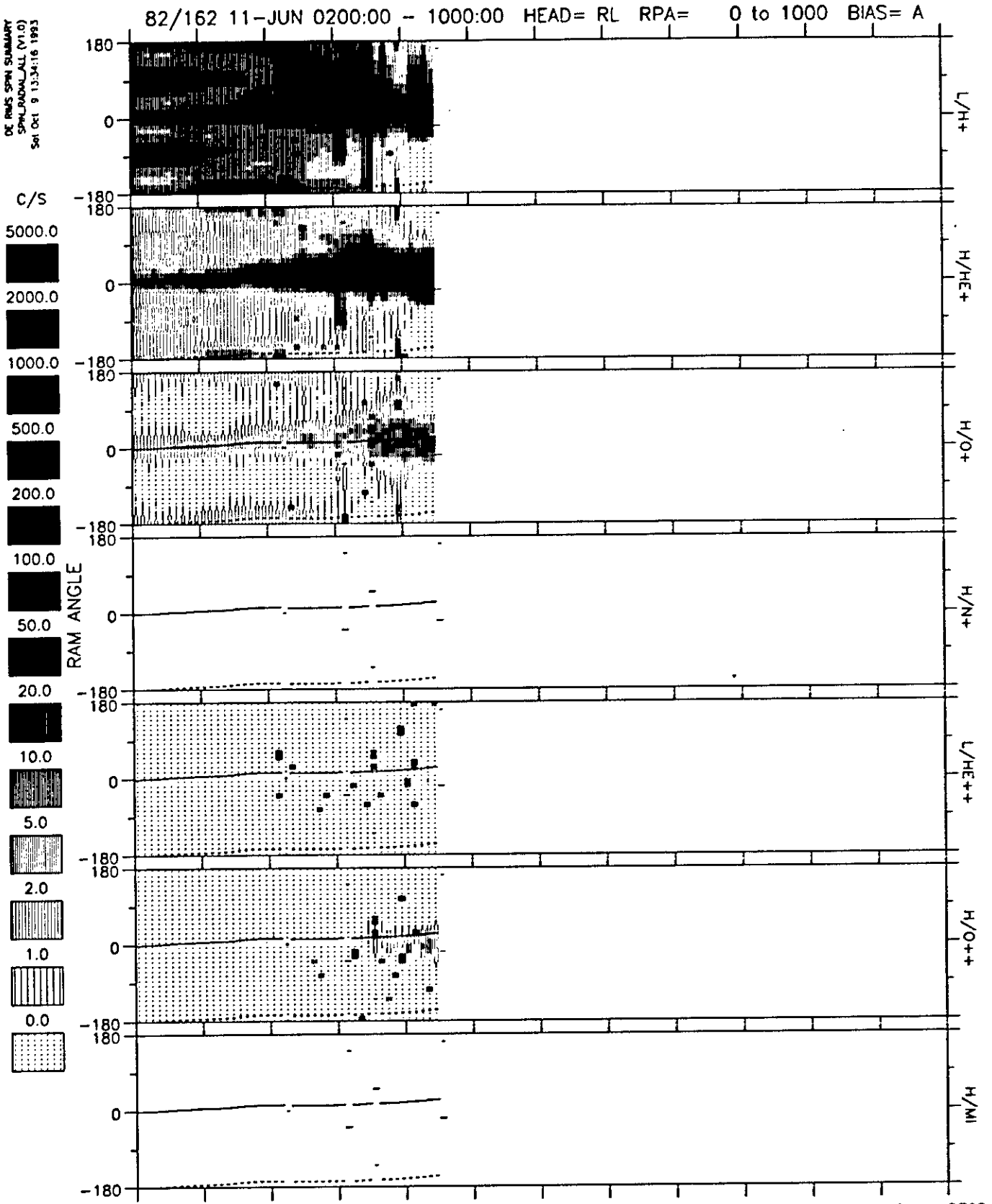
TIME	0000	0000	0000	0000	0835	0915	0955	1035	1115	1155	1235	DEGS
RE	0.0	0.0	0.0	0.0	2.5	1.2	1.9	3.1	3.9	4.4	4.7	HHMM
L	0.0	0.0	0.0	0.0	6.1	3.4	-0.0	11.5	6.6	5.4	4.9	RE
MLT	0.0	0.0	0.0	0.0	16.9	5.4	5.0	17.0	17.0	17.0	17.1	
MLAT	0.00	0.00	0.00	0.00	48.64	55.08	*****	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	66.2	57.1	-0.0	72.8	67.0	64.6	63.2	DEGS



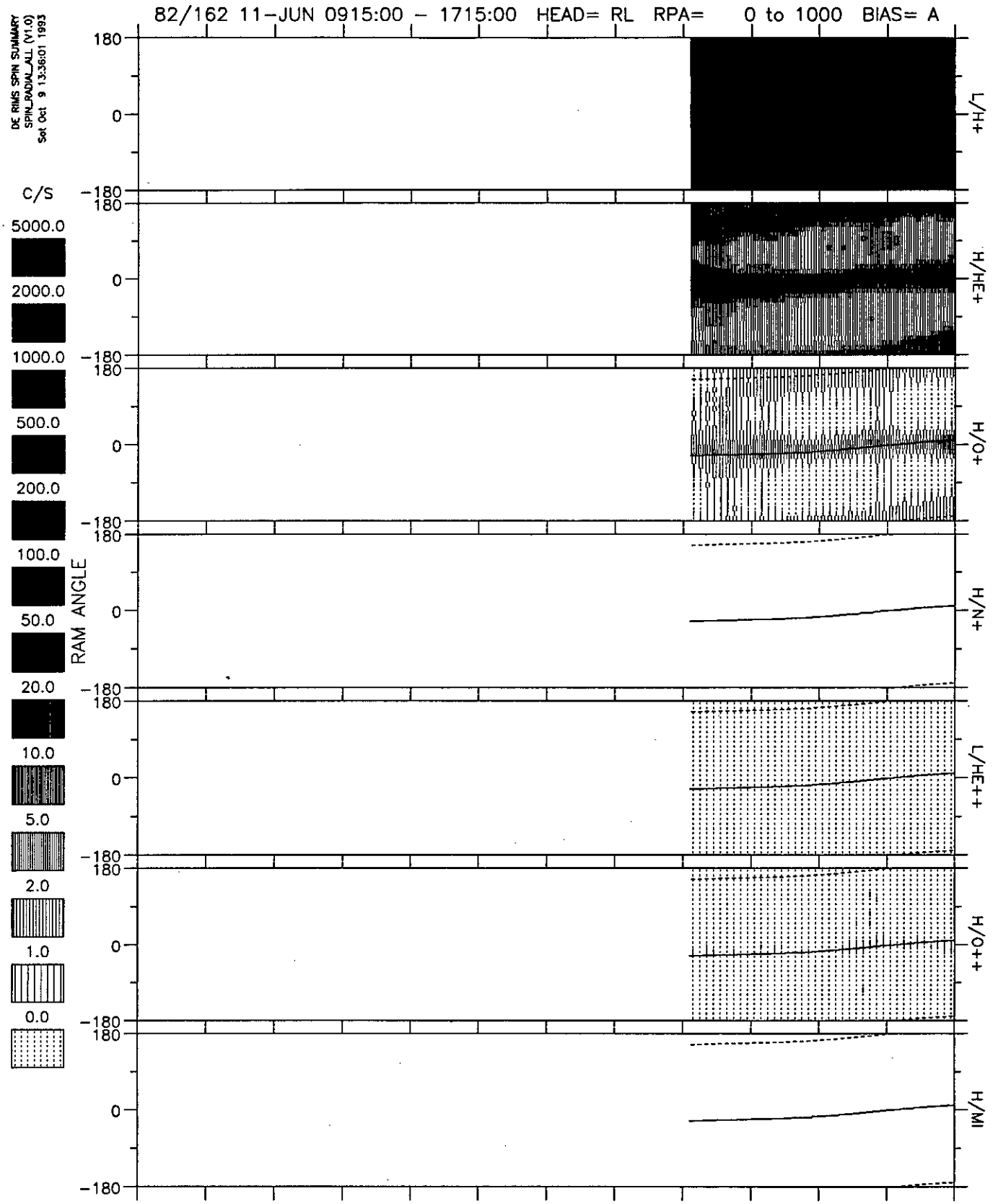
TIME	1240	1320	1400	1440	0000	0000	1640	1720	1800	1840	1920	DEGS
RE	4.7	4.6	4.3	3.7	0.0	0.0	1.7	3.0	3.8	4.4	4.6	HHMM
L	4.9	4.6	4.4	4.6	0.0	0.0	32.4	6.4	4.9	4.7	4.7	RE
MLT	17.1	17.2	17.4	17.7	0.0	0.0	10.7	16.8	17.3	17.6	17.8	
MLAT	*****	-1.22	11.55	27.26	0.00	0.00	*****	*****	*****	*****	1.75	HRS
INVLAT	63.1	62.2	61.7	62.2	0.0	0.0	79.9	66.7	63.1	62.4	62.6	DEGS



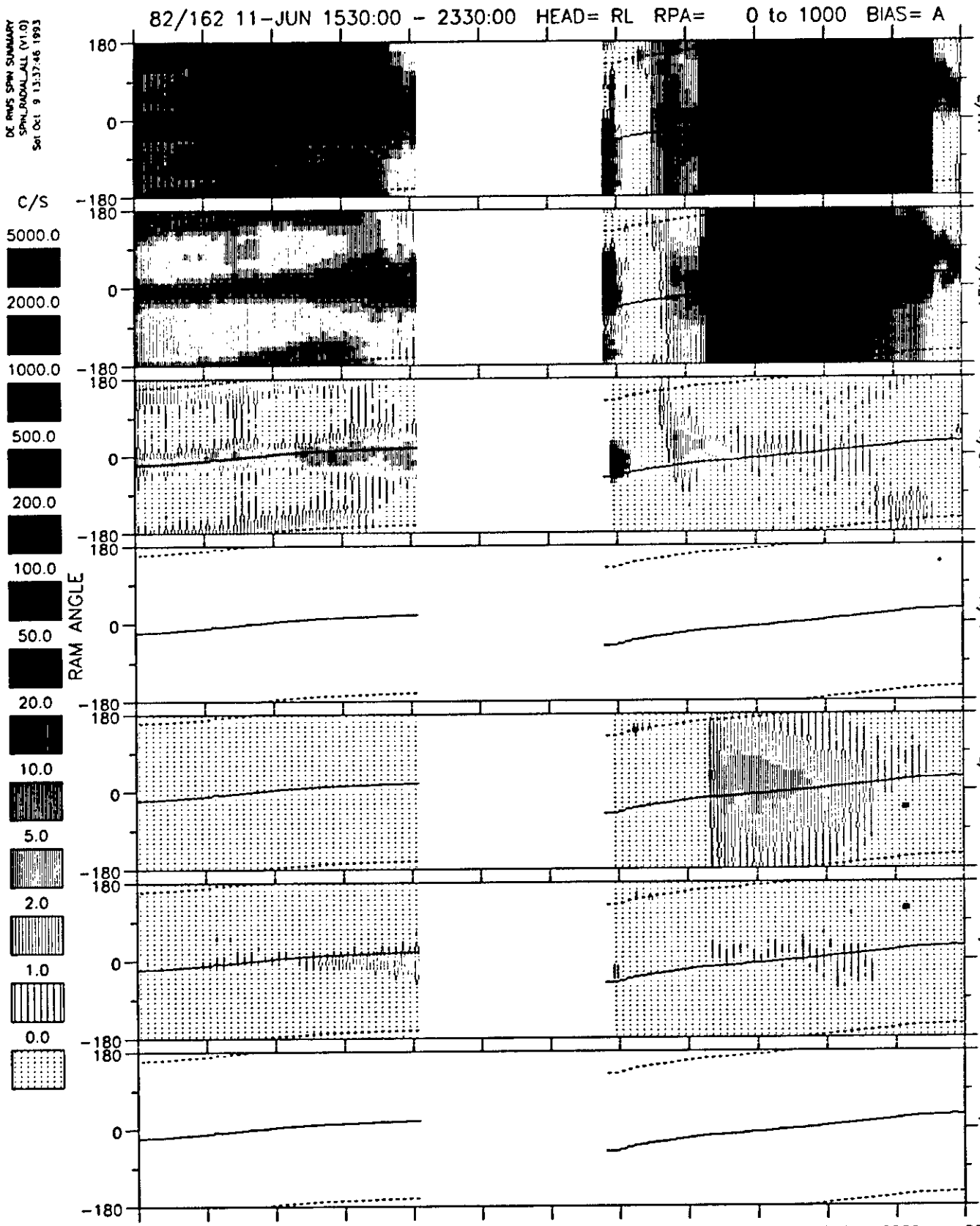
TIME	1940	2020	2100	0000	0000	0000	0000	0020	0100	0140	0220	DEGS
RE	4.7	4.5	4.2	0.0	0.0	0.0	0.0	3.2	4.0	4.5	4.7	HHMM
L	4.8	5.1	5.7	0.0	0.0	0.0	0.0	4.8	4.5	4.6	4.7	RE
MLT	17.8	17.9	17.9	0.0	0.0	0.0	0.0	18.1	17.9	17.8	17.6	
MLAT	7.51	19.02	31.55	0.00	0.00	0.00	0.00	*****	*****	-8.48	0.40	HRS
INVLAT	62.9	63.8	65.3	0.0	0.0	0.0	0.0	62.8	61.8	62.1	62.4	DEGS



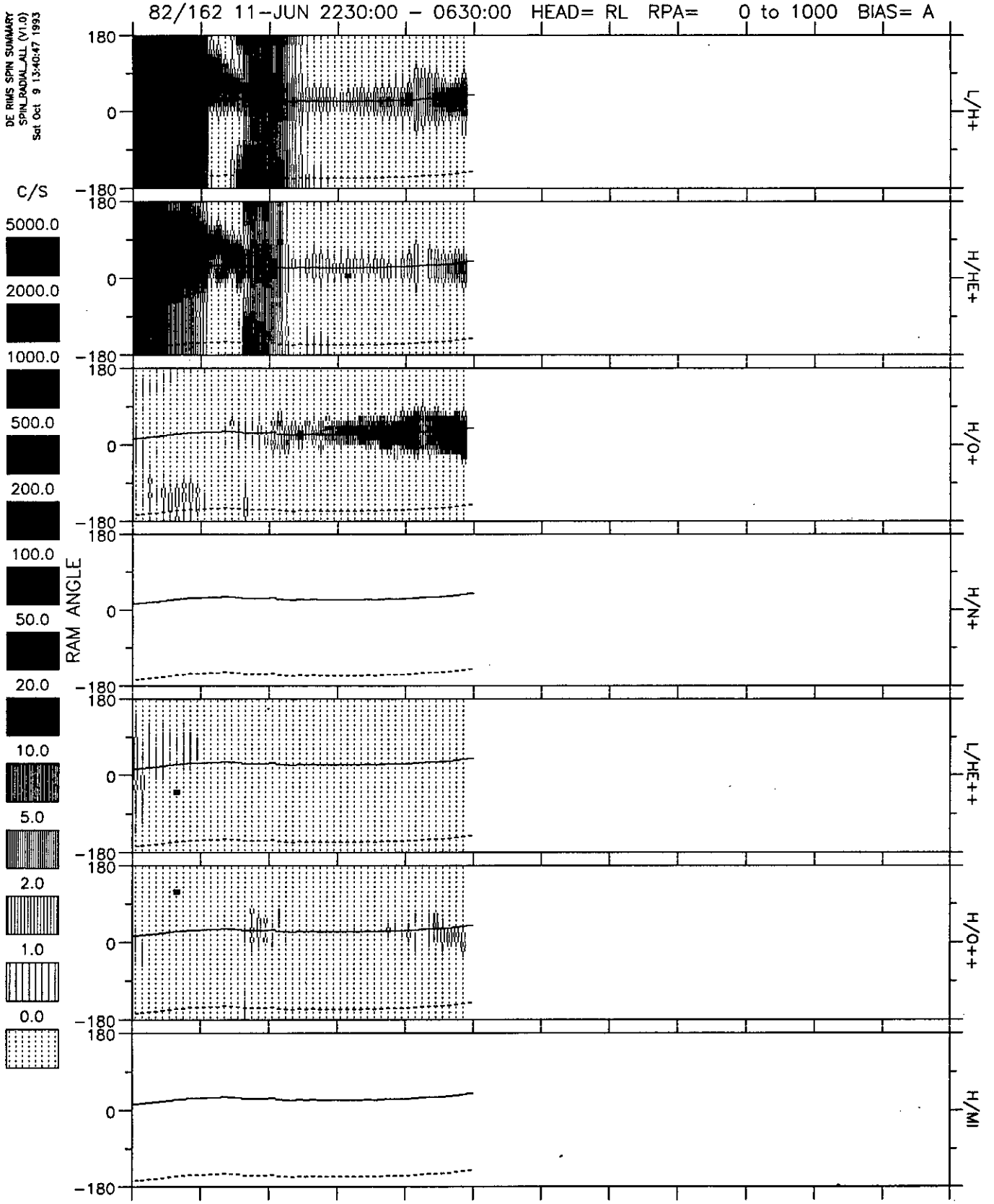
TIME	0240	0320	0400	0440	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.5	4.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.7	4.7	4.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	17.5	17.4	17.2	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	4.57	13.13	23.25	37.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.4	62.4	62.5	63.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



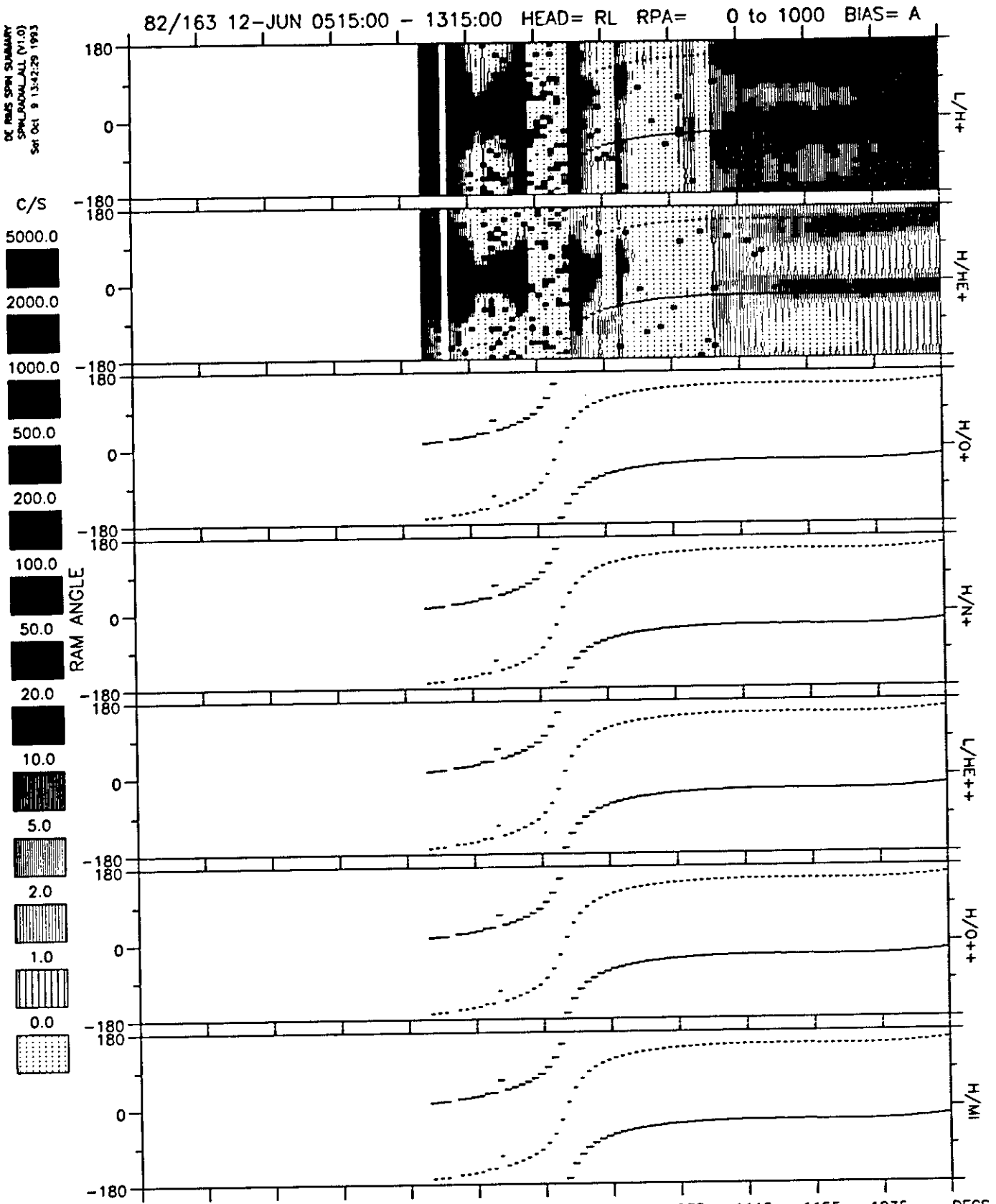
TIME	0000	0000	0000	0000	0000	0000	0000	0000	1515	1555	1635	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.6	4.6	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	4.8	4.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0	17.3	17.5	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	-6.57	5.57	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.6	62.8	62.5	DEGS



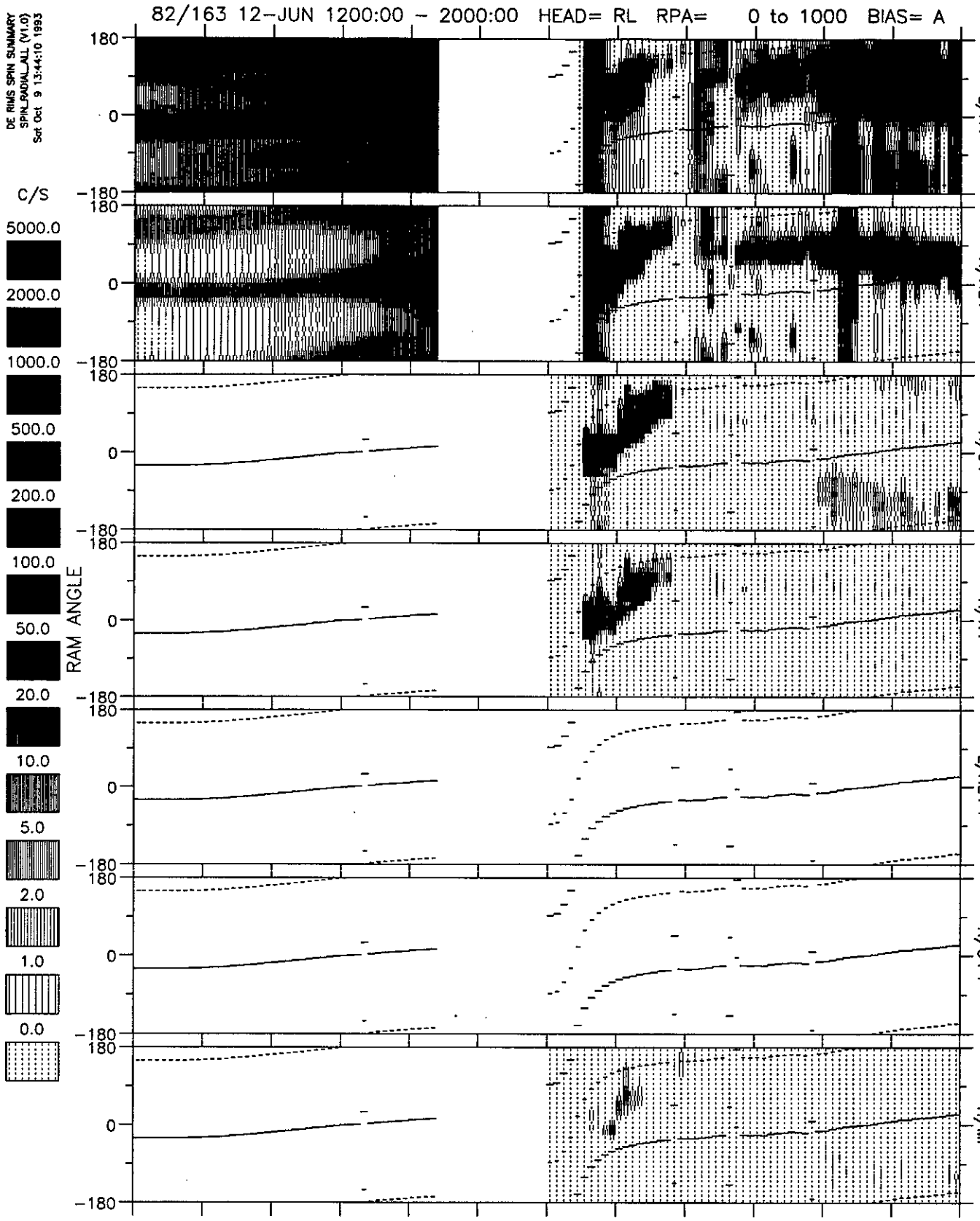
TIME	1610	1650	1730	1810	0000	0000	2010	2050	2130	2210	2250	DEGS
RE	4.7	4.6	4.2	3.5	0.0	0.0	1.9	3.1	4.0	4.4	4.7	HHMM
L	4.7	4.7	4.9	5.7	0.0	0.0	16.3	4.8	4.4	4.5	4.8	RE
MLT	17.4	17.6	17.8	18.1	0.0	0.0	16.6	17.6	17.7	17.8	17.7	
MLAT	-2.12	10.20	23.59	39.81	0.00	0.00	*****	*****	*****	-4.78	5.73	HRS
INVLAT	62.7	62.6	63.1	65.1	0.0	0.0	75.6	62.8	61.5	62.0	62.7	DEGS



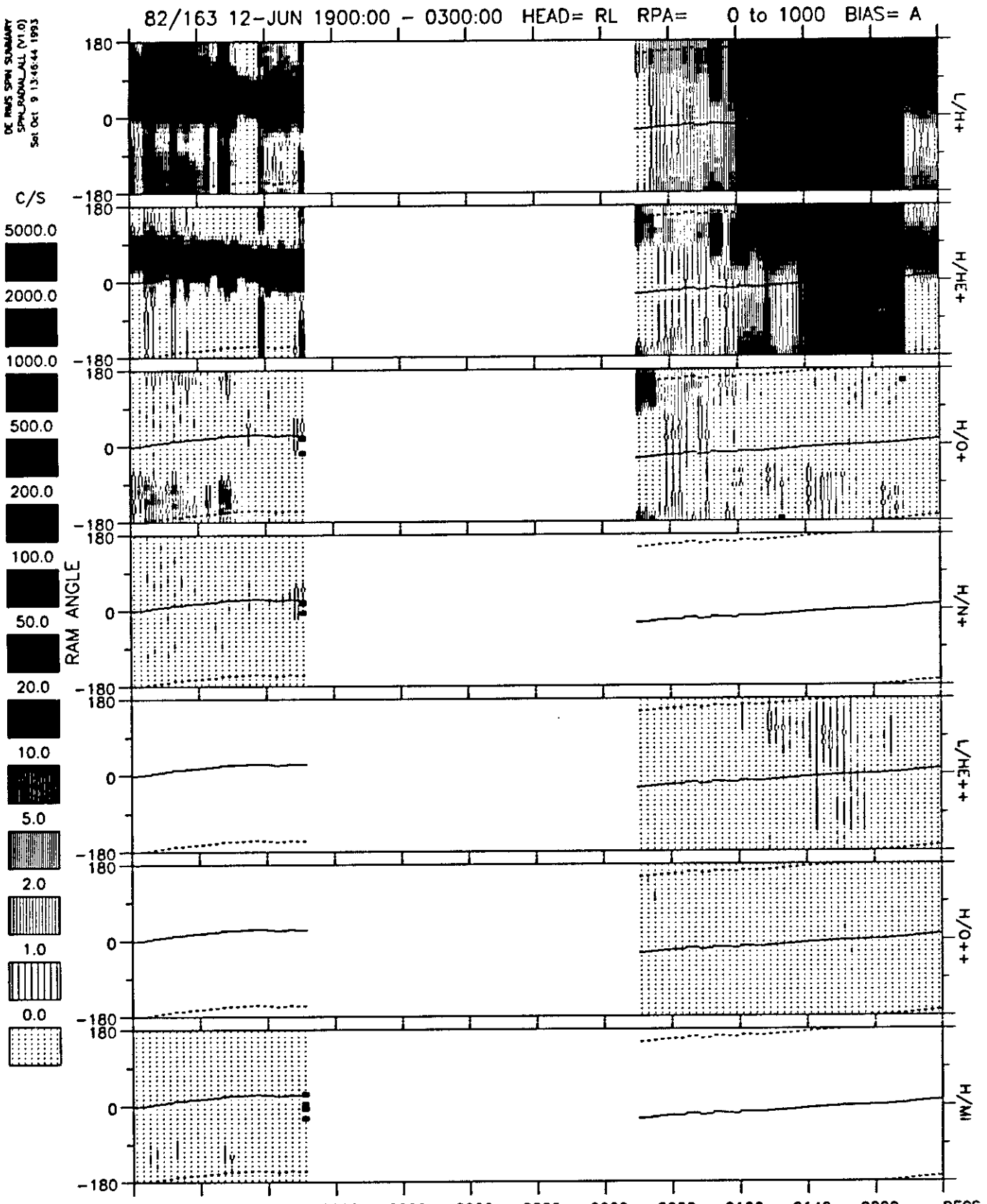
TIME	2310	2350	0030	0110	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.5	4.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.9	5.2	5.6	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	17.7	17.6	17.4	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	10.63	20.45	31.45	46.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	63.1	63.9	65.0	67.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



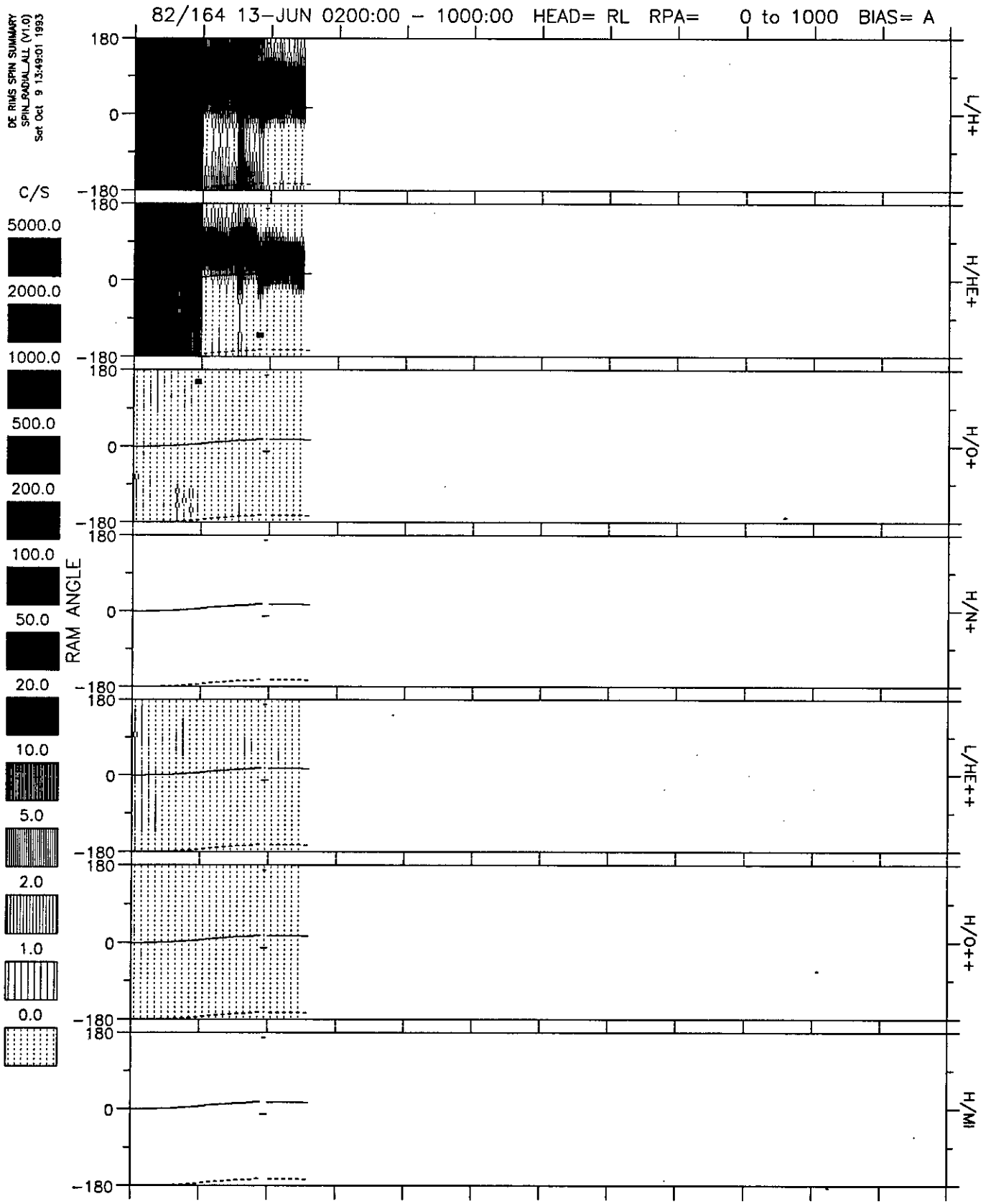
TIME	0000	0000	0000	0000	0835	0915	0955	1035	1115	1155	1235	DEGS
RE	0.0	0.0	0.0	0.0	2.4	1.1	2.1	3.2	4.0	4.5	4.7	HHMM
L	0.0	0.0	0.0	0.0	6.8	1.6	100.0	10.5	6.4	5.4	4.9	RE
MLT	0.0	0.0	0.0	0.0	16.8	5.2	15.8	16.9	16.9	16.9	17.0	
MLAT	0.00	0.00	0.00	0.00	51.96	33.60	*****	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	67.4	38.3	88.8	72.0	66.8	64.5	63.1	DEGS



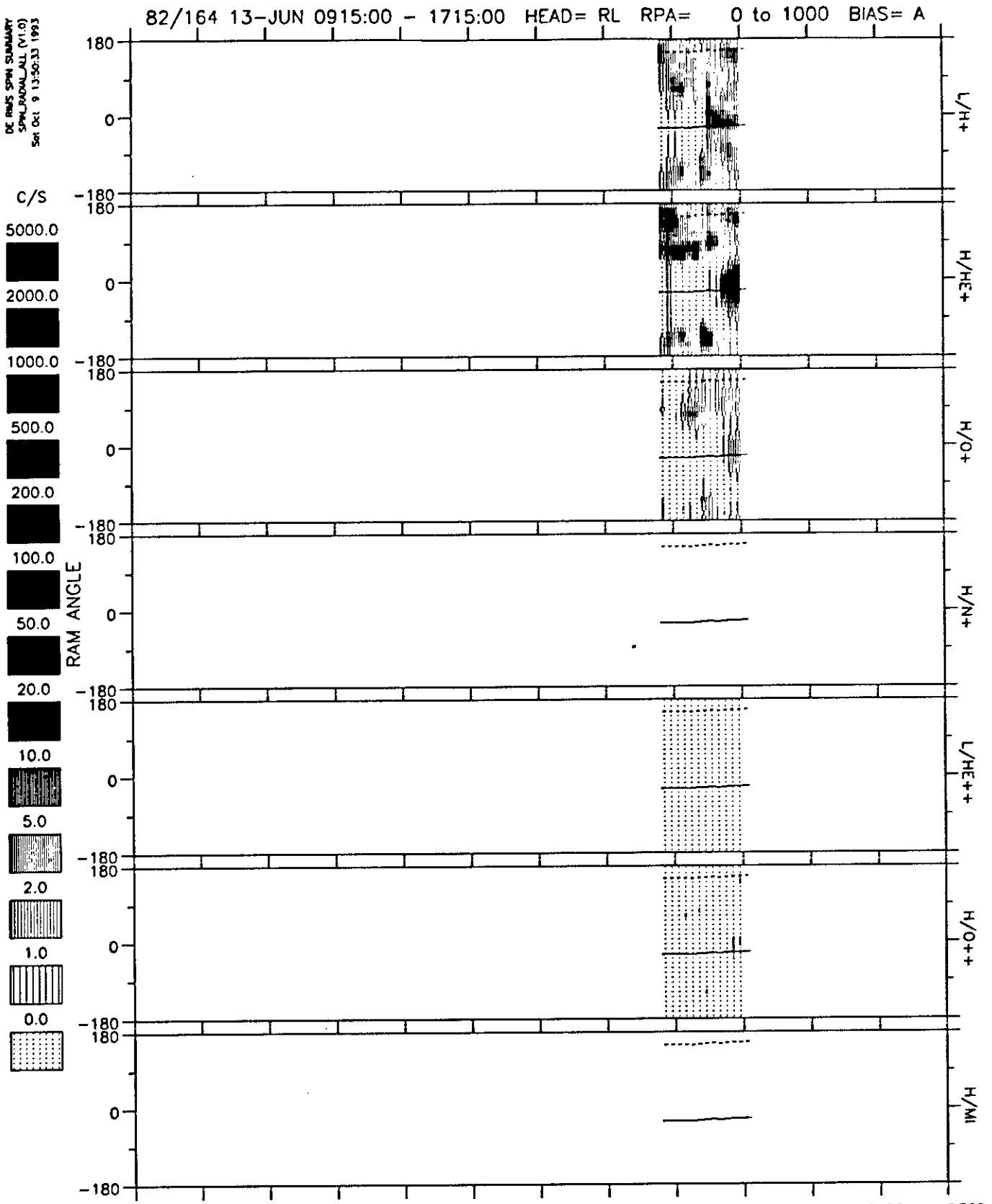
TIME	1240	1320	1400	1440	0000	1600	1640	1720	1800	1840	1920	DEGS
RE	4.7	4.6	4.2	3.5	0.0	1.2	1.9	3.1	3.9	4.4	4.7	HHMM
L	4.8	4.6	4.4	4.6	0.0	2.4	27.8	6.1	4.9	4.7	4.7	RE
MLT	17.0	17.1	17.3	17.6	0.0	4.5	13.3	16.8	17.2	17.4	17.6	
MLAT	*****	-0.21	12.82	29.16	0.00	45.71	*****	*****	*****	-9.42	2.66	HRS
INVLAT	63.0	62.1	61.6	62.2	0.0	49.8	79.1	66.1	63.0	62.4	62.6	DEGS



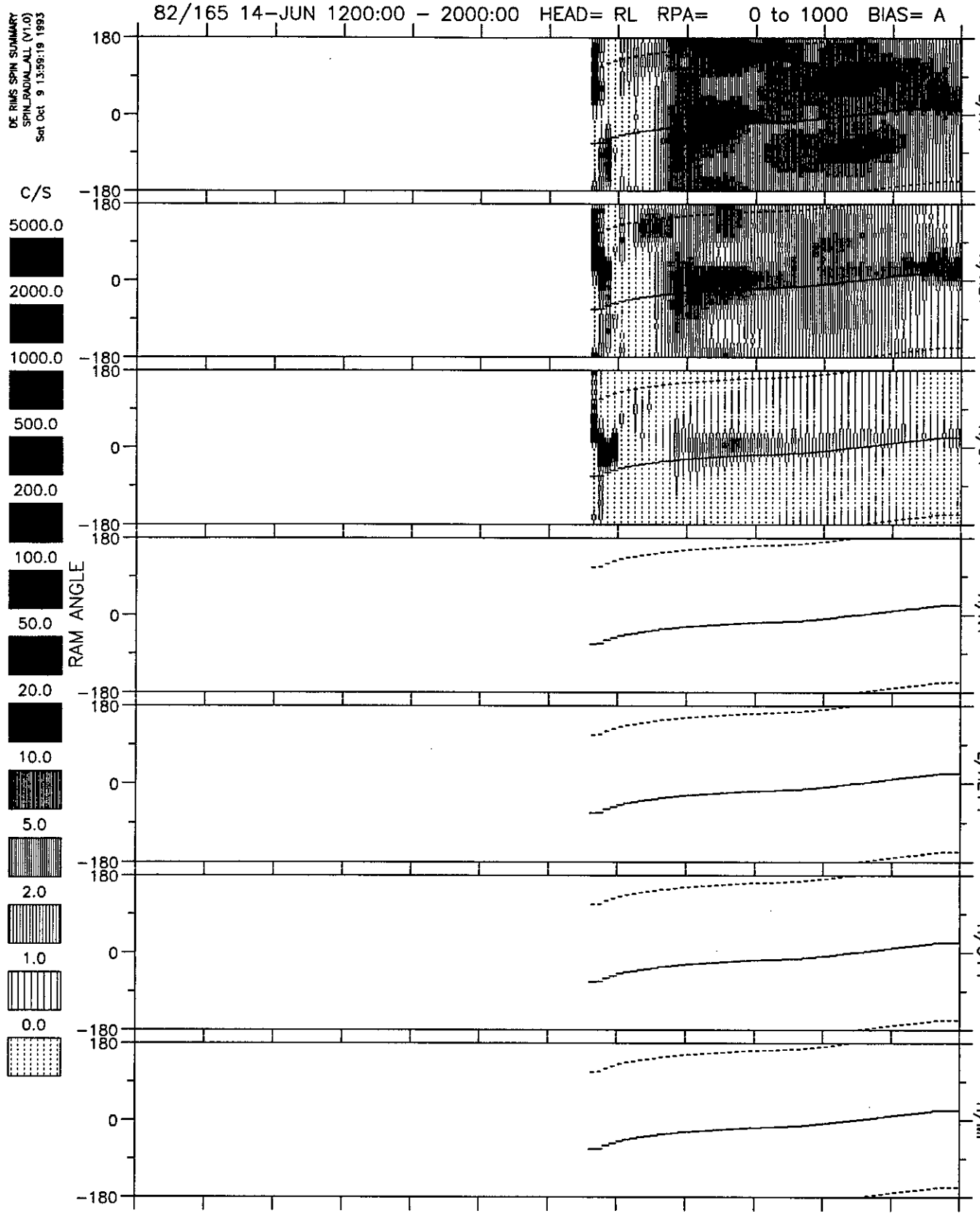
TIME	1940	2020	0000	0000	0000	0000	0000	0020	0100	0140	0220	DEGS
RE	4.7	4.5	0.0	0.0	0.0	0.0	0.0	3.3	4.1	4.5	4.7	HHMM
L	4.8	5.1	0.0	0.0	0.0	0.0	0.0	4.8	4.5	4.6	4.7	RE
MLT	17.7	17.8	0.0	0.0	0.0	0.0	0.0	17.9	17.8	17.6	17.5	
MLAT	8.39	19.92	0.00	0.00	0.00	0.00	0.00	•••••	•••••	-8.03	0.70	HRS
INVLAT	62.9	63.8	0.0	0.0	0.0	0.0	0.0	62.8	62.0	62.2	62.4	DEGS



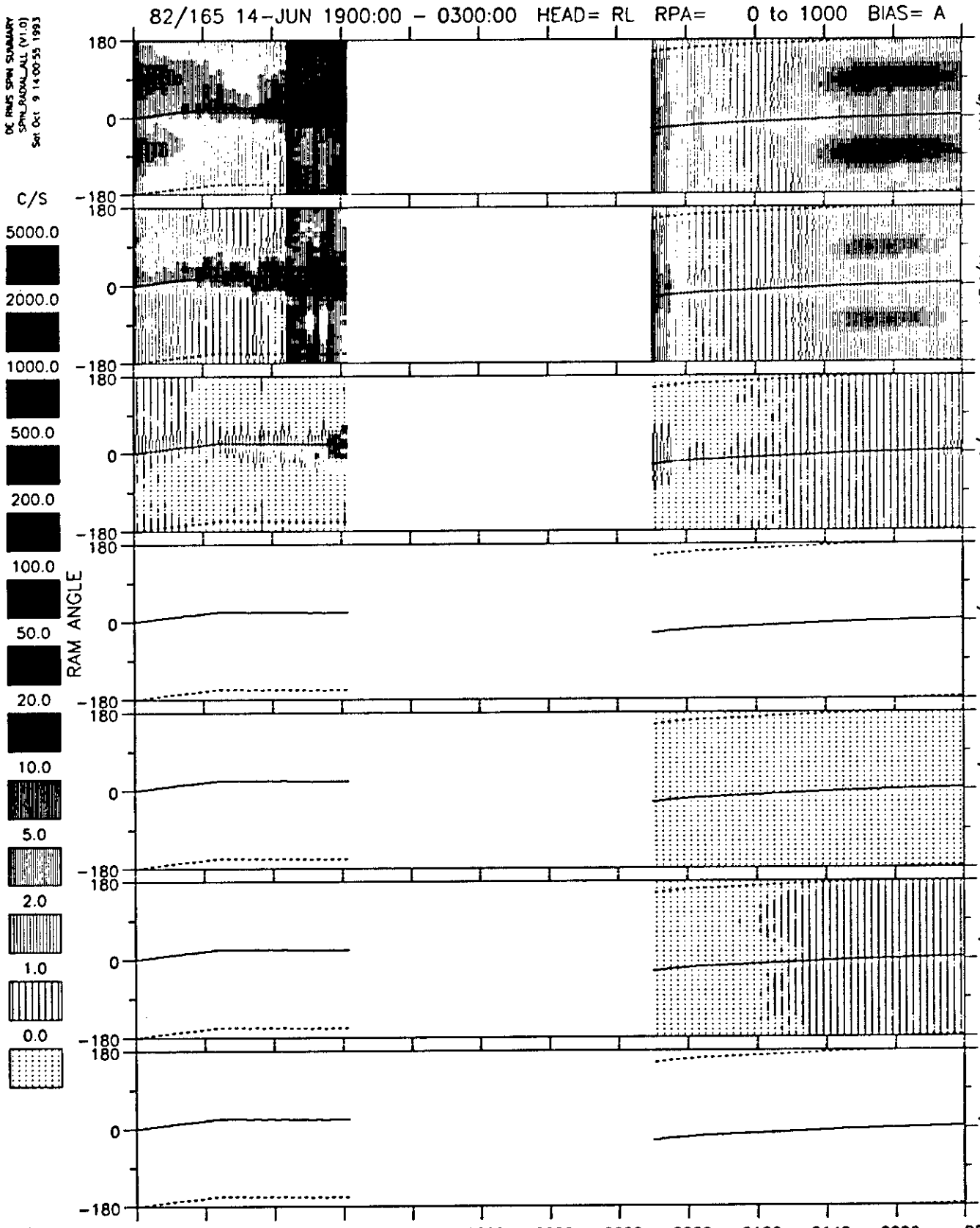
TIME	0240	0320	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	17.4	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	4.86	13.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.4	62.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



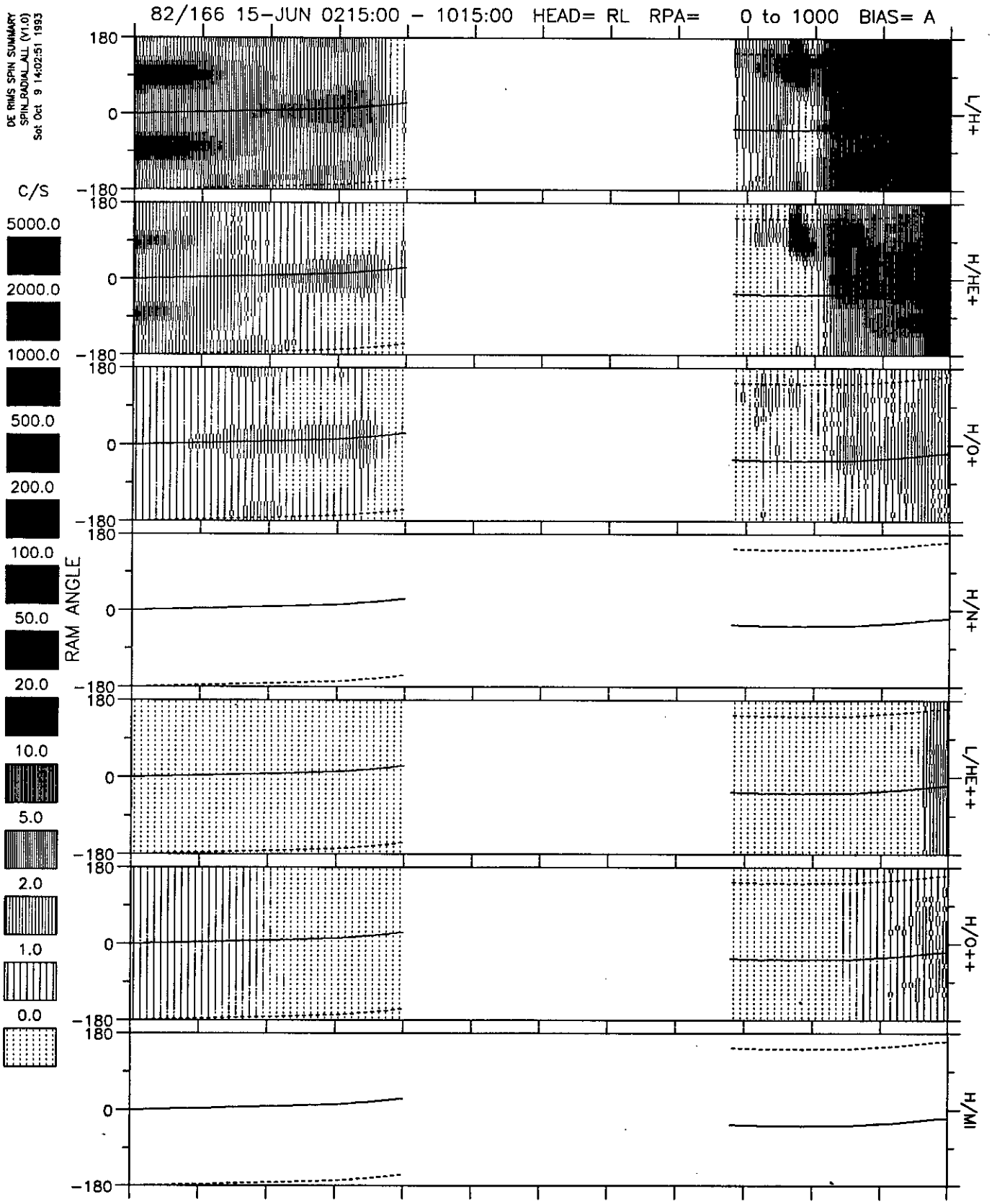
TIME	0000	0000	0000	0000	0000	0000	0000	1435	1515	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.4	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.1	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	16.9	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.3	63.6	0.0	0.0	DEGS



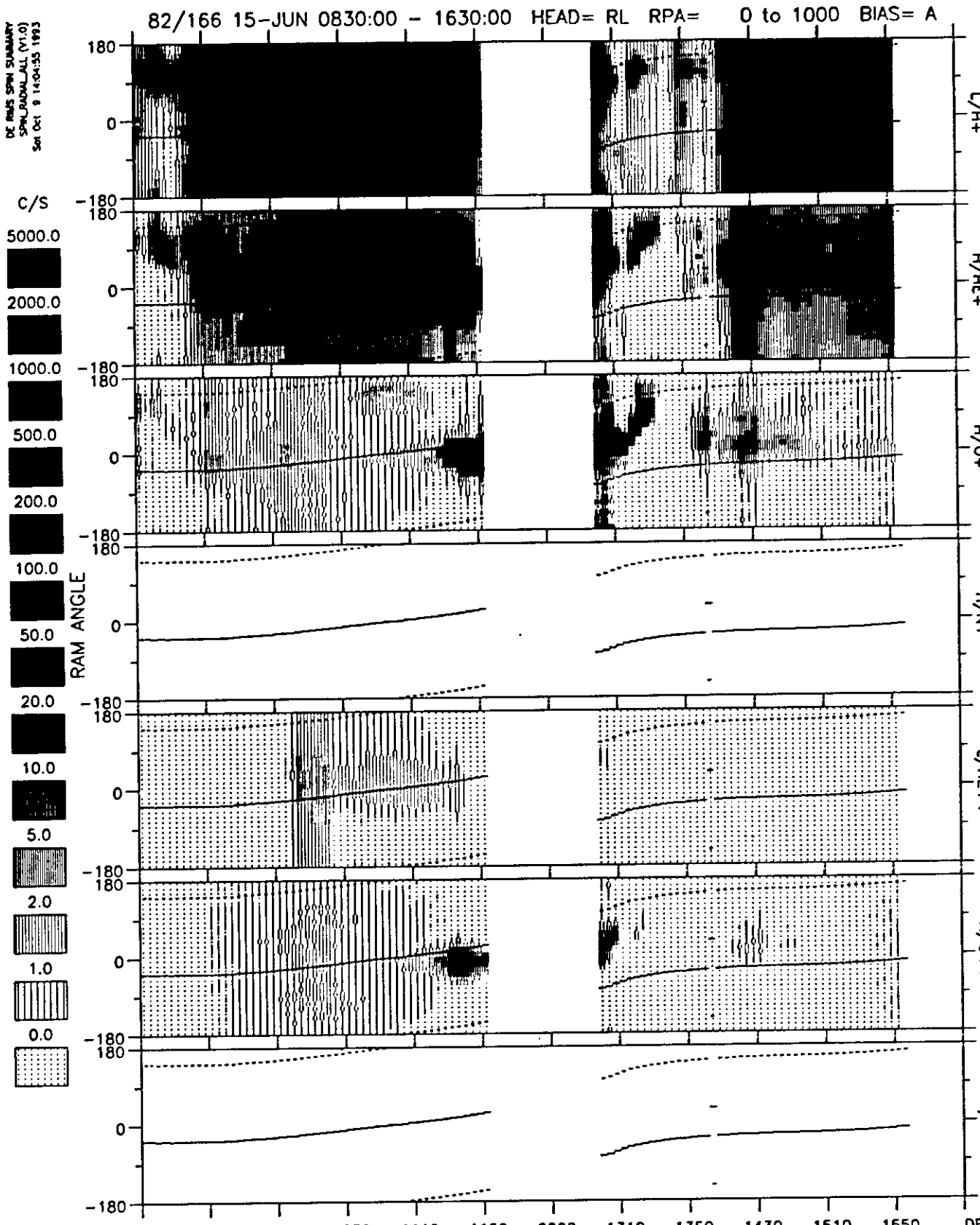
TIME	0000	0000	0000	0000	0000	0000	1640	1720	1800	1840	1920	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.2	4.0	4.5	4.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	19.1	5.9	4.8	4.7	4.8	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	14.6	16.7	17.1	17.3	17.5	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-8.35	3.56	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	76.8	65.6	63.0	62.5	62.7	DEGS



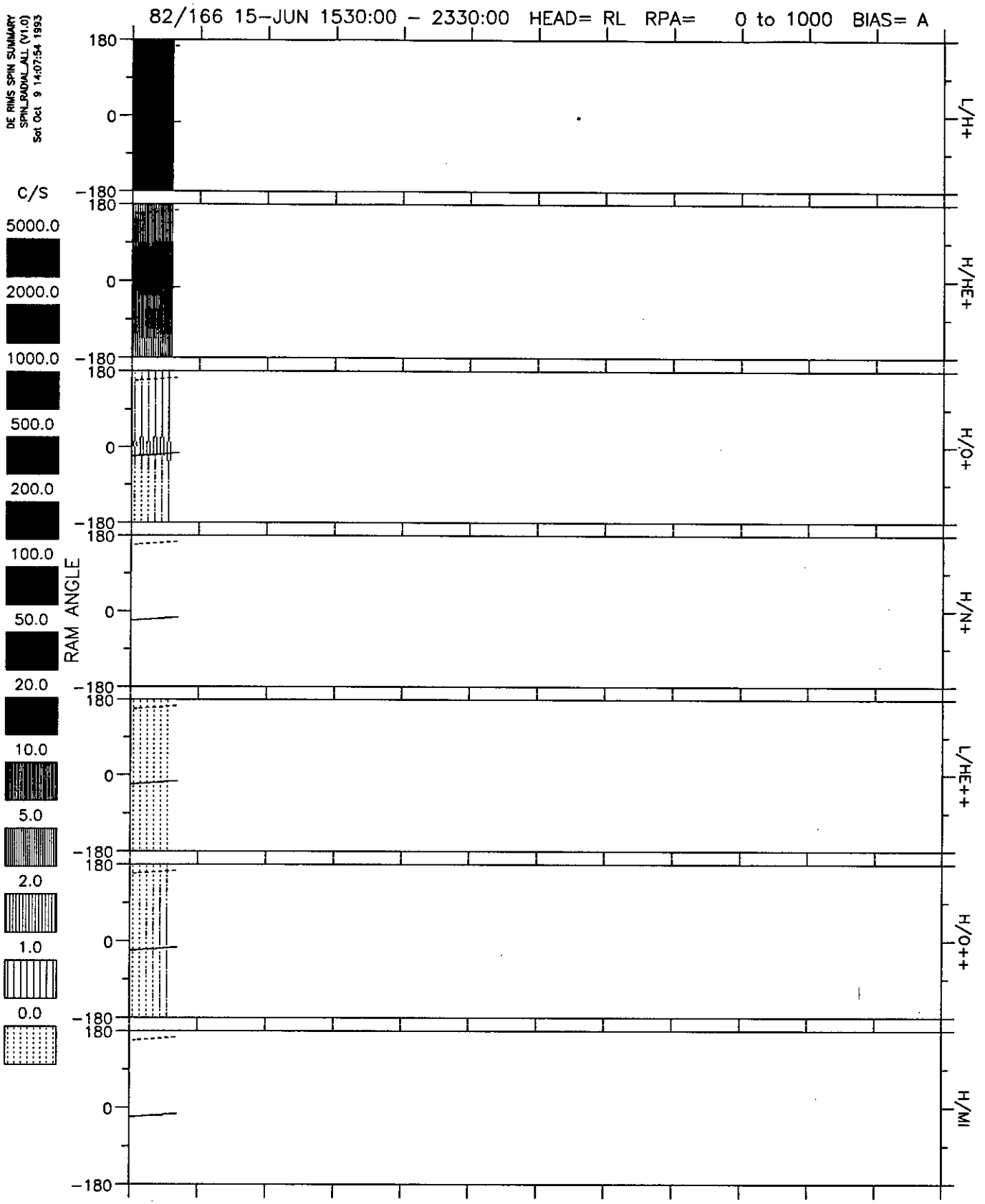
TIME	1940	2020	2100	0000	0000	0000	0000	0020	0100	0140	0220	DEGS
RE	4.7	4.5	4.1	0.0	0.0	0.0	0.0	3.4	4.1	4.5	4.7	HHMM
L	4.8	5.2	5.7	0.0	0.0	0.0	0.0	4.8	4.6	4.6	4.7	RE
MLT	17.5	17.6	17.6	0.0	0.0	0.0	0.0	17.8	17.6	17.5	17.4	
MLAT	9.27	20.89	32.51	0.00	0.00	0.00	0.00	*****	*****	-7.58	1.02	HRS
INVLAT	63.0	63.9	65.3	0.0	0.0	0.0	0.0	62.7	62.1	62.3	62.4	DEGS



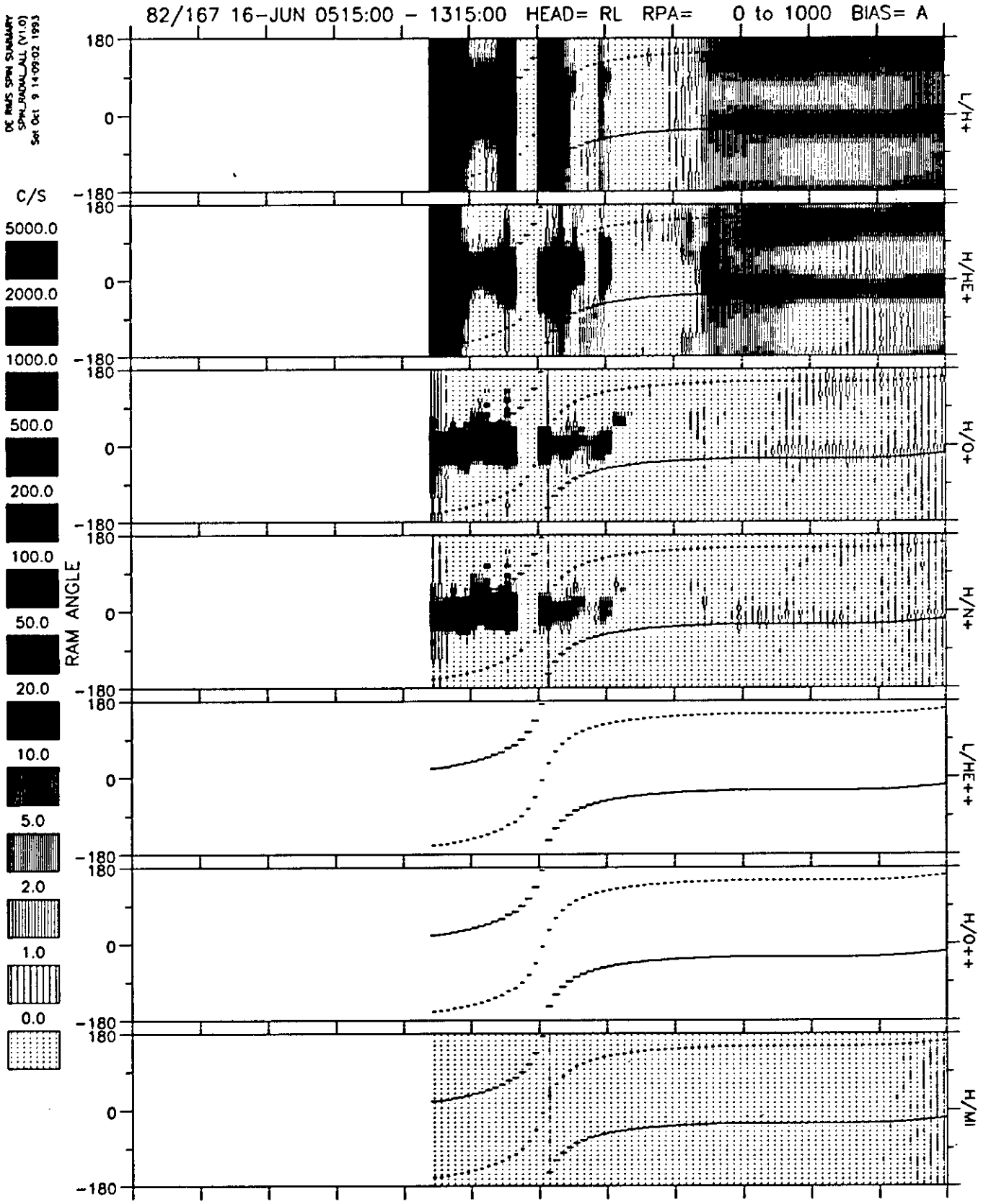
TIME	0255	0335	0415	0000	0000	0000	0000	0000	0815	0855	0935	DEGS
RE	4.6	4.2	3.6	0.0	0.0	0.0	0.0	0.0	4.4	4.7	4.6	HHMM
L	4.6	4.6	4.7	0.0	0.0	0.0	0.0	0.0	5.7	5.1	4.6	RE
MLT	17.2	17.0	16.8	0.0	0.0	0.0	0.0	0.0	17.1	16.9	16.9	
MLAT	8.34	17.67	30.09	0.00	0.00	0.00	0.00	0.00	*****	*****	-8.43	HRS
INVLAT	62.3	62.2	62.5	0.0	0.0	0.0	0.0	0.0	65.2	63.6	62.3	DEGS

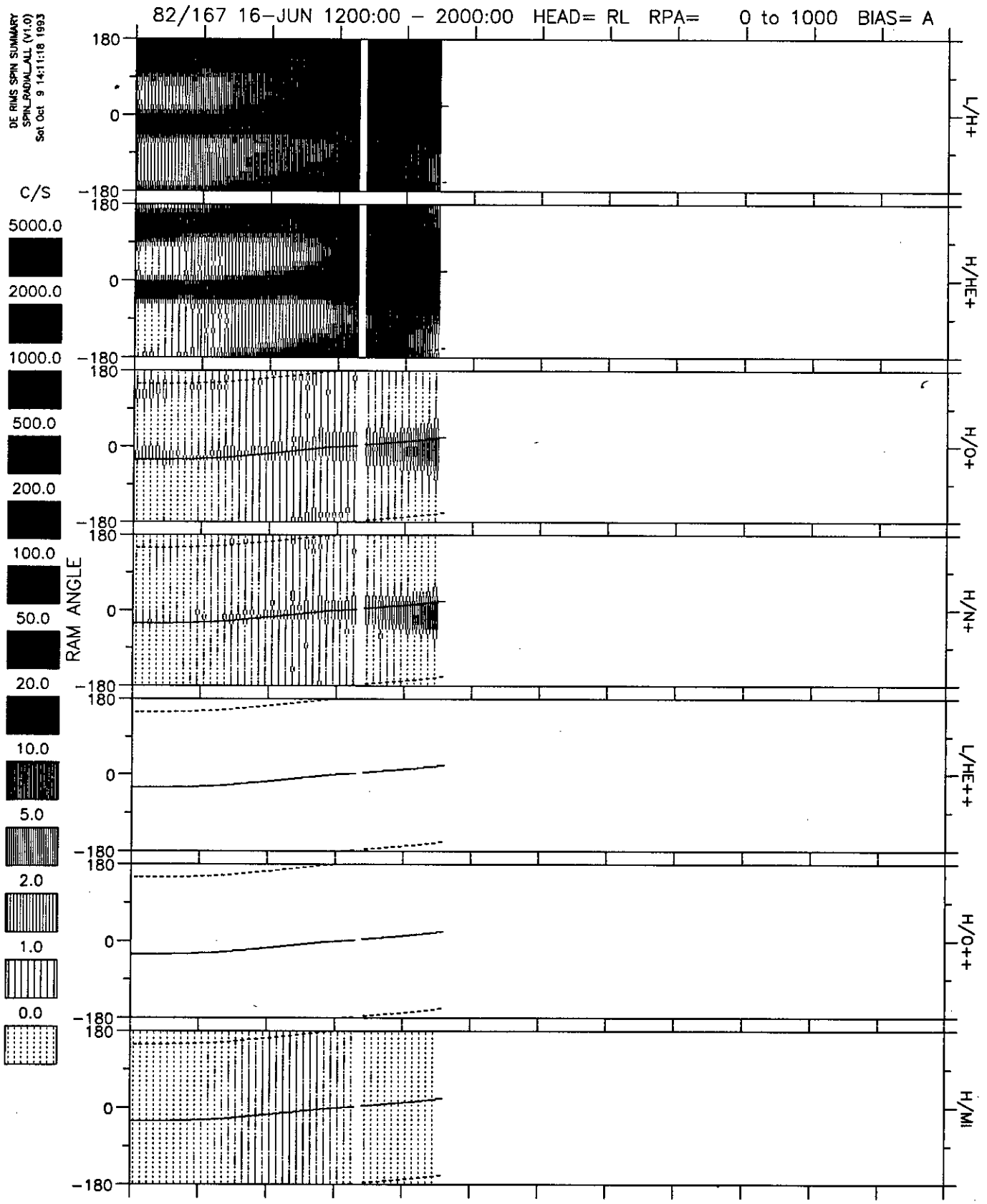


TIME	0910	0950	1030	1110	1150	0000	1310	1350	1430	1510	1550	DEGS
RE	4.7	4.6	4.2	3.5	2.5	0.0	2.0	3.2	4.0	4.5	4.7	HHMM
L	4.9	4.5	4.2	4.2	6.1	0.0	52.8	8.5	5.8	5.1	4.8	RE
MLT	16.9	16.9	16.9	17.0	17.3	0.0	11.1	16.0	16.5	16.8	17.0	
MLAT	*****	-4.45	7.49	23.28	48.97	0.00	*****	*****	*****	*****	-5.99	HRS
INVLAT	63.1	61.9	60.8	60.7	66.2	0.0	82.1	70.0	65.4	63.7	62.8	DEGS

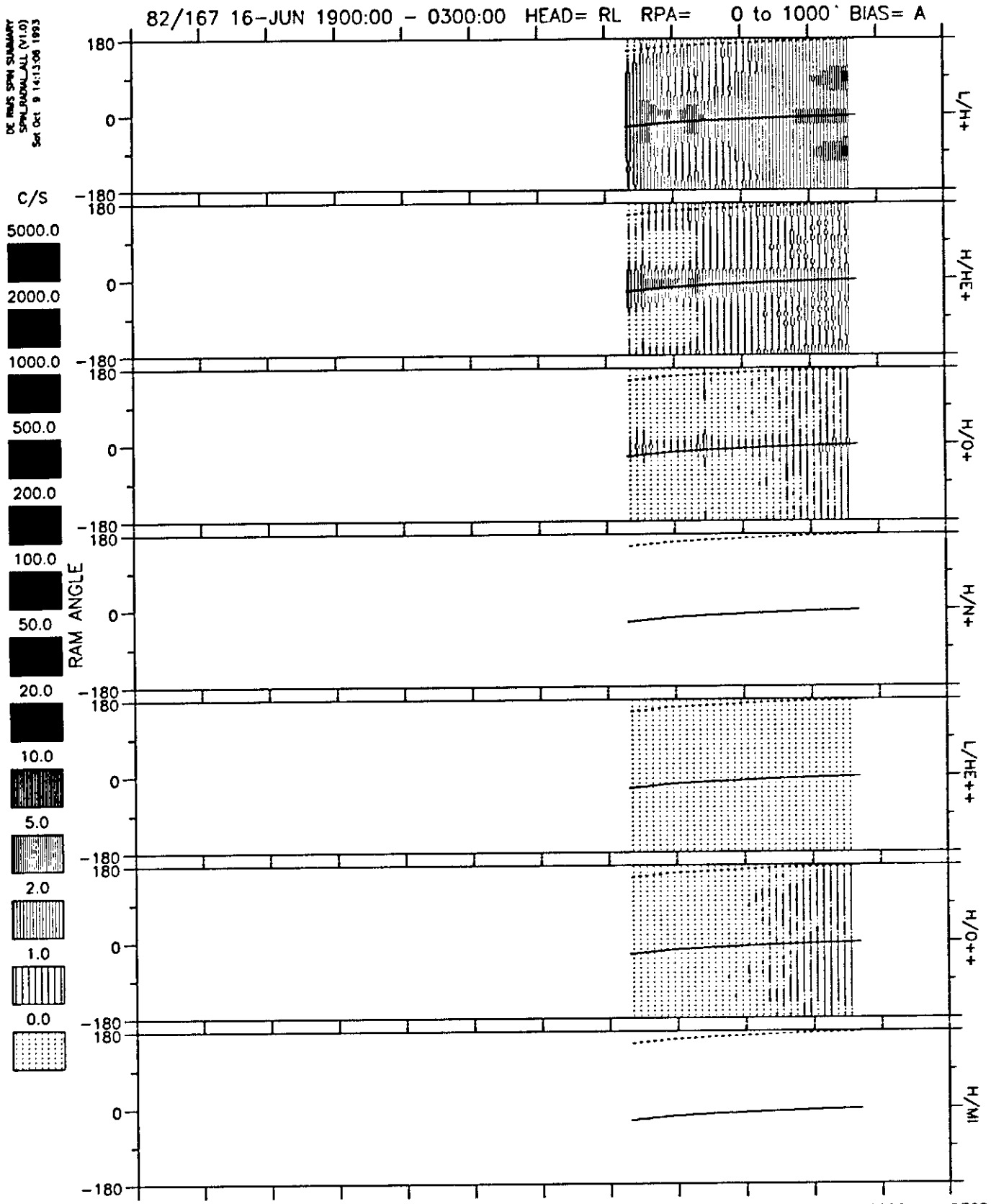


TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

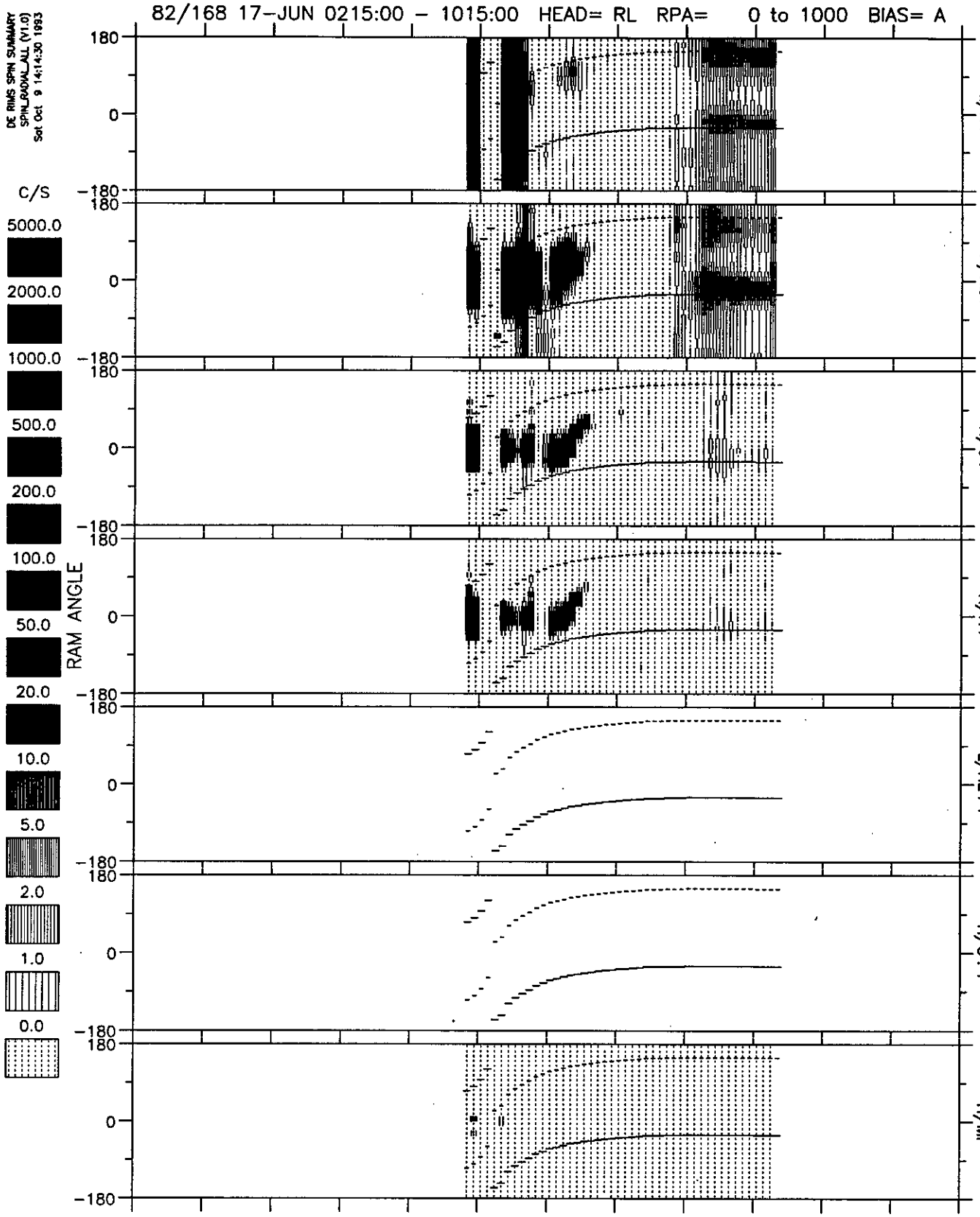

82/167 16-JUN 0515:00 - 1315:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Oct 9 14:09:02 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 0000 0000 0000 0000 0835 0915 0955 1035 1115 1155 1235 DEGS
RE 0.0 0.0 0.0 0.0 2.0 1.1 2.4 3.5 4.2 4.5 4.7 HHMM
L 0.0 0.0 0.0 0.0 12.0 1.2 76.7 9.1 6.3 5.3 4.8 RE
MLT 0.0 0.0 0.0 0.0 16.4 4.8 16.5 16.5 16.5 16.6 16.7
MLAT 0.00 0.00 0.00 0.00 63.61 ***** ***** ***** ***** ***** ***** HRS
INVLAT 0.0 0.0 0.0 0.0 73.2 26.6 83.4 70.7 66.4 64.3 63.0 DEGS



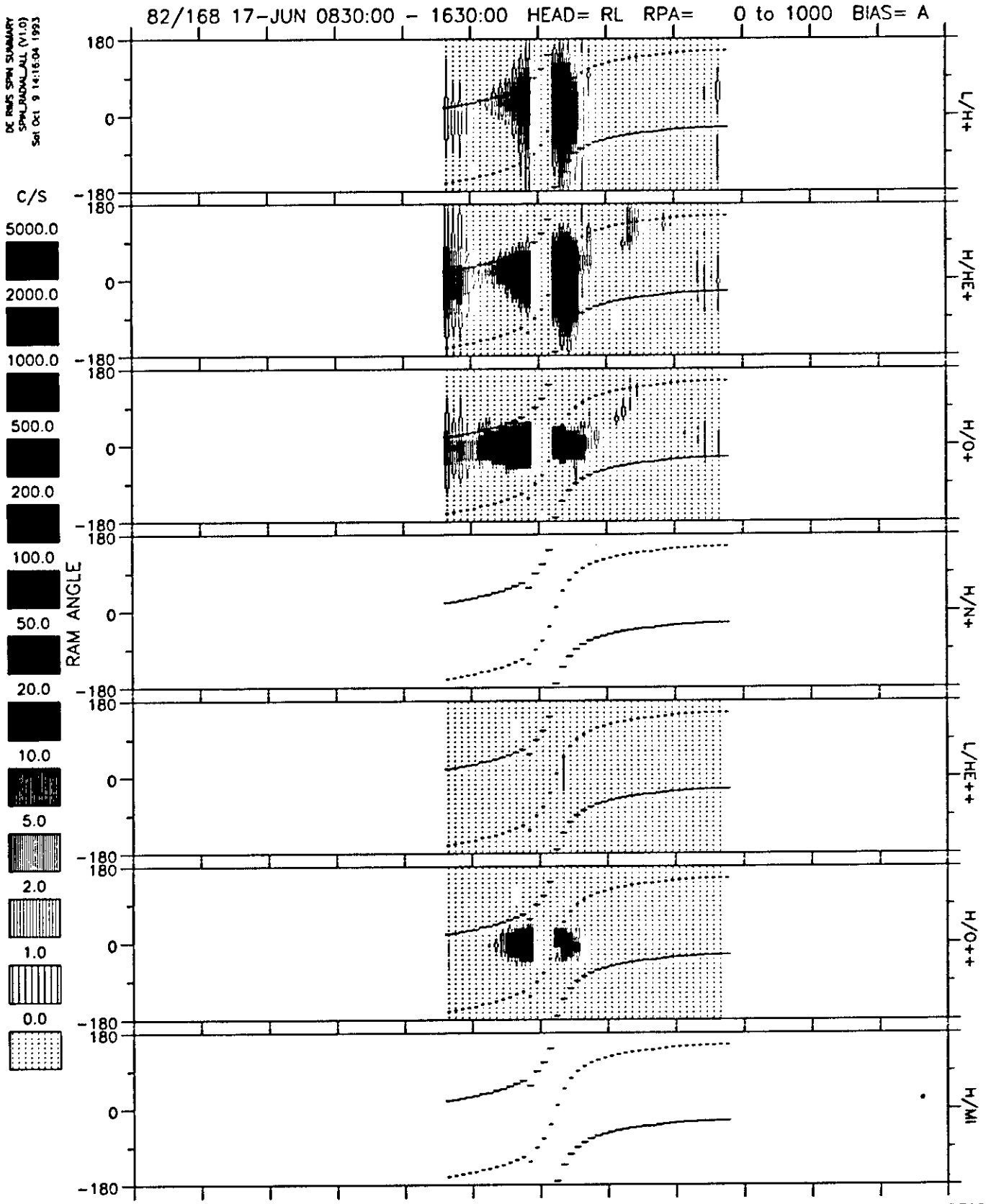
TIME	1240	1320	1400	1440	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.5	4.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.8	4.5	4.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	16.7	16.9	17.1	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	*****	1.87	15.53	33.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.8	61.9	61.4	62.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



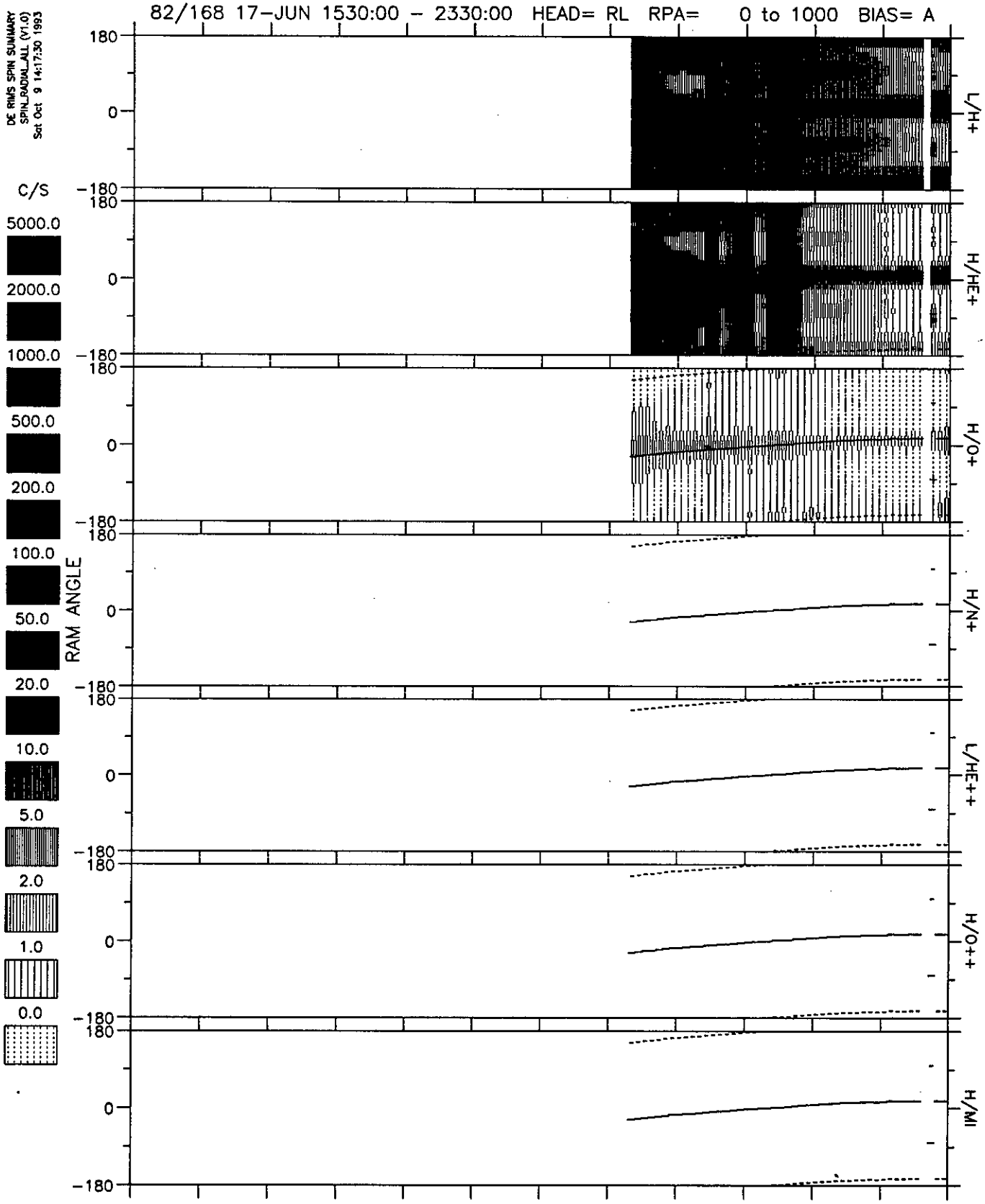
TIME	0000	0000	0000	0000	0000	0000	0000	0020	0100	0140	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.2	4.6	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.6	4.7	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	17.5	17.4	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-7.18	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.8	62.3	62.4	0.0	DEGS



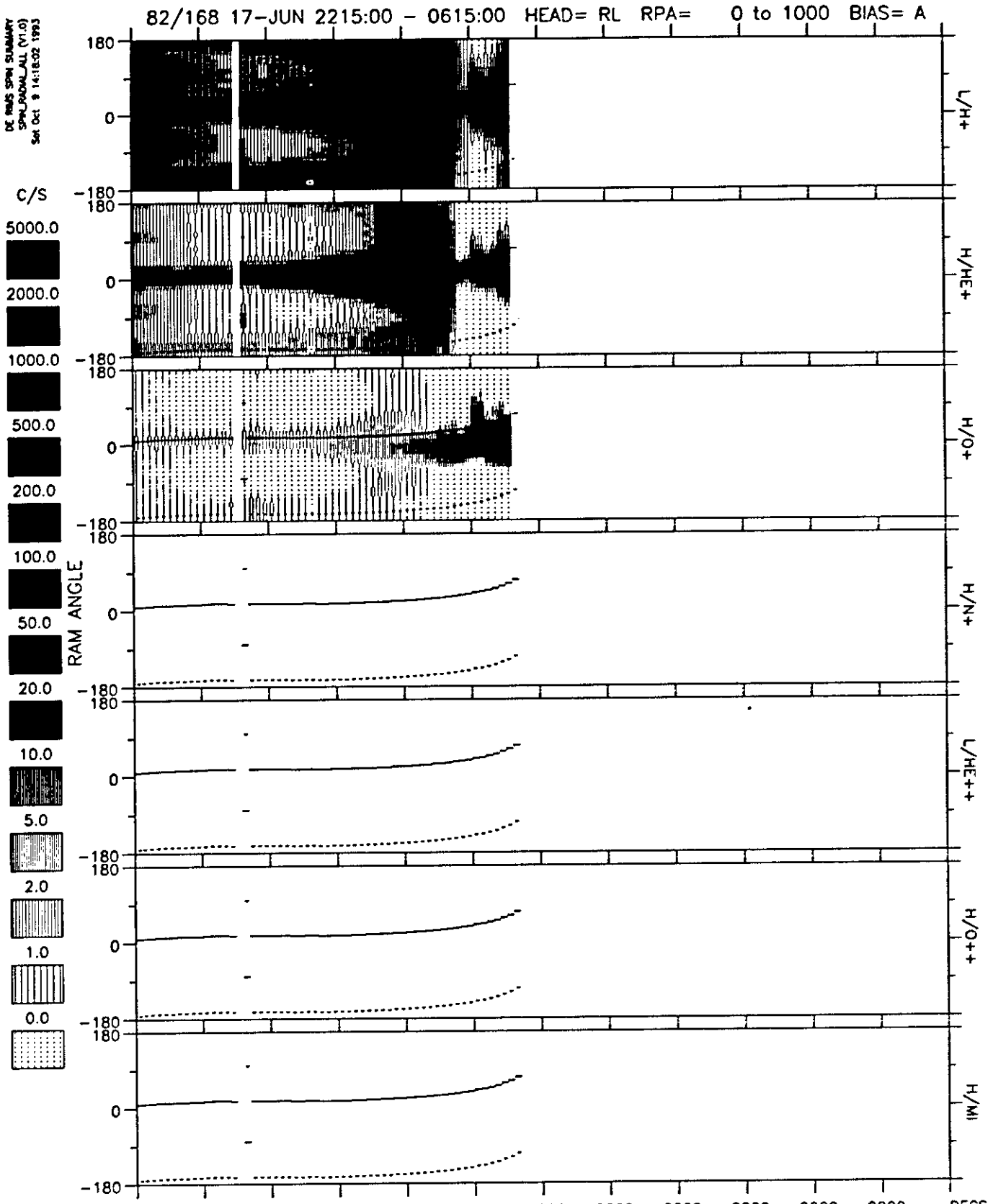
TIME	0000	0000	0000	0000	0535	0615	0655	0735	0815	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	1.1	2.0	3.2	4.0	4.5	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	1.4	-0.0	-0.0	-0.0	-0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	5.4	22.8	17.6	17.1	16.9	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	36.52	*****	*****	*****	*****	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	33.1	-0.0	-0.0	-0.0	-0.0	0.0	0.0	DEGS



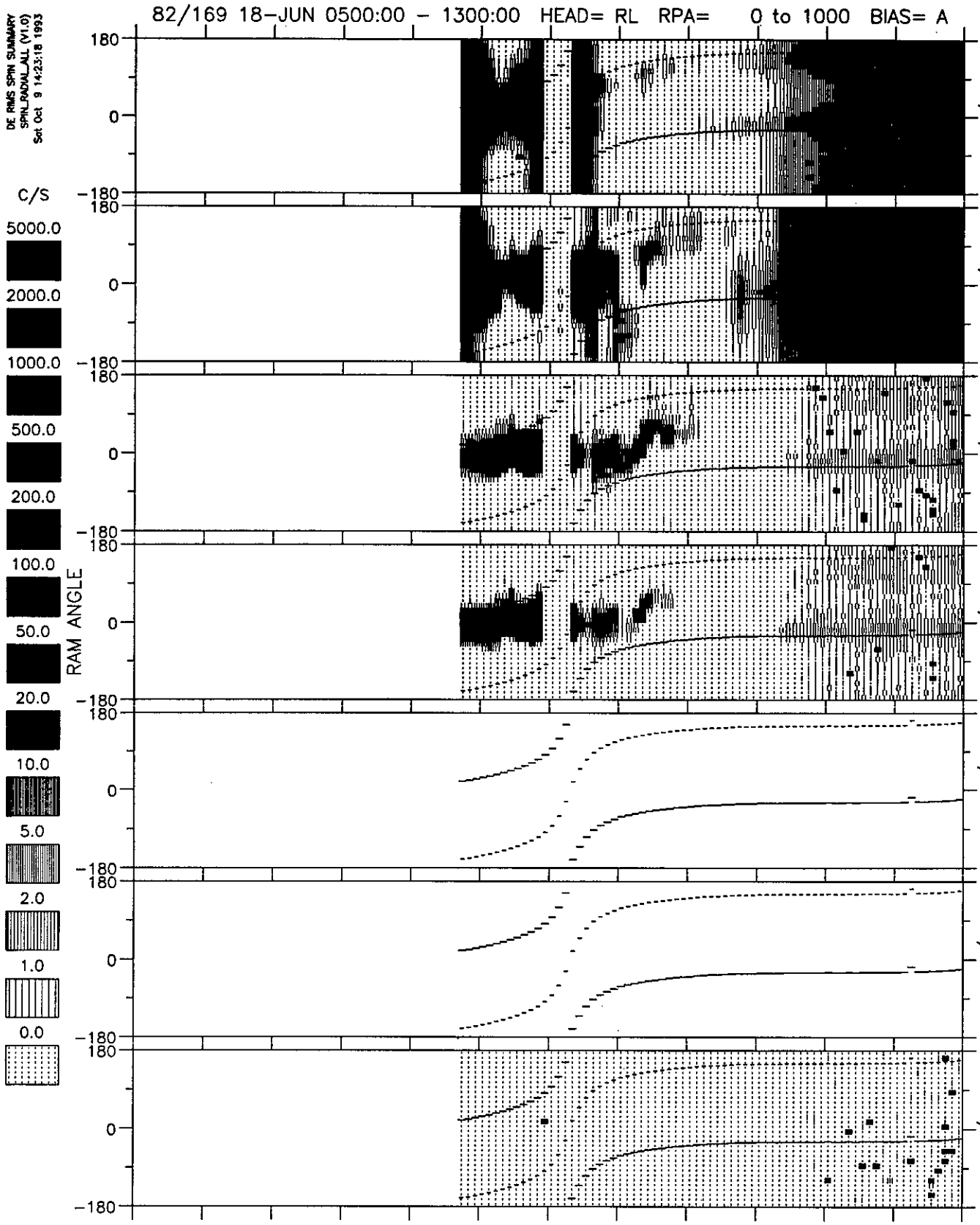
TIME	0000	0000	0000	0000	1150	1230	1310	1350	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	2.3	1.1	2.2	3.3	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	7.1	1.2	43.4	8.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	17.3	4.5	13.2	15.9	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	53.63	19.57	•••••	•••••	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	68.0	23.2	81.3	69.3	0.0	0.0	0.0	DEGS



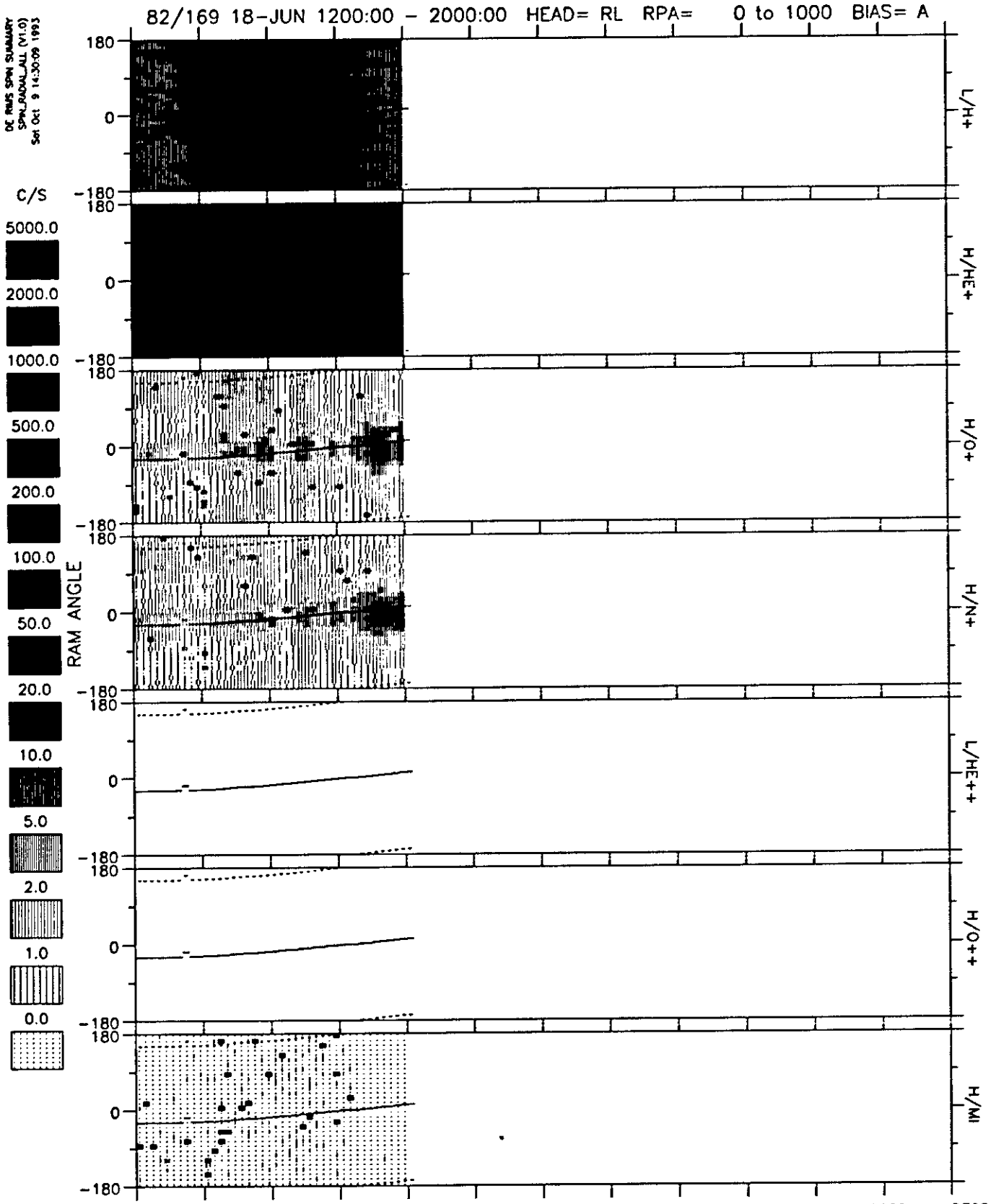
TIME	0000	0000	0000	0000	0000	0000	0000	2050	2130	2210	2250	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	4.2	4.6	4.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.5	4.6	4.8	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	17.3	17.4	17.3	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-2.56	7.44	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.4	61.9	62.3	62.8	DEGS



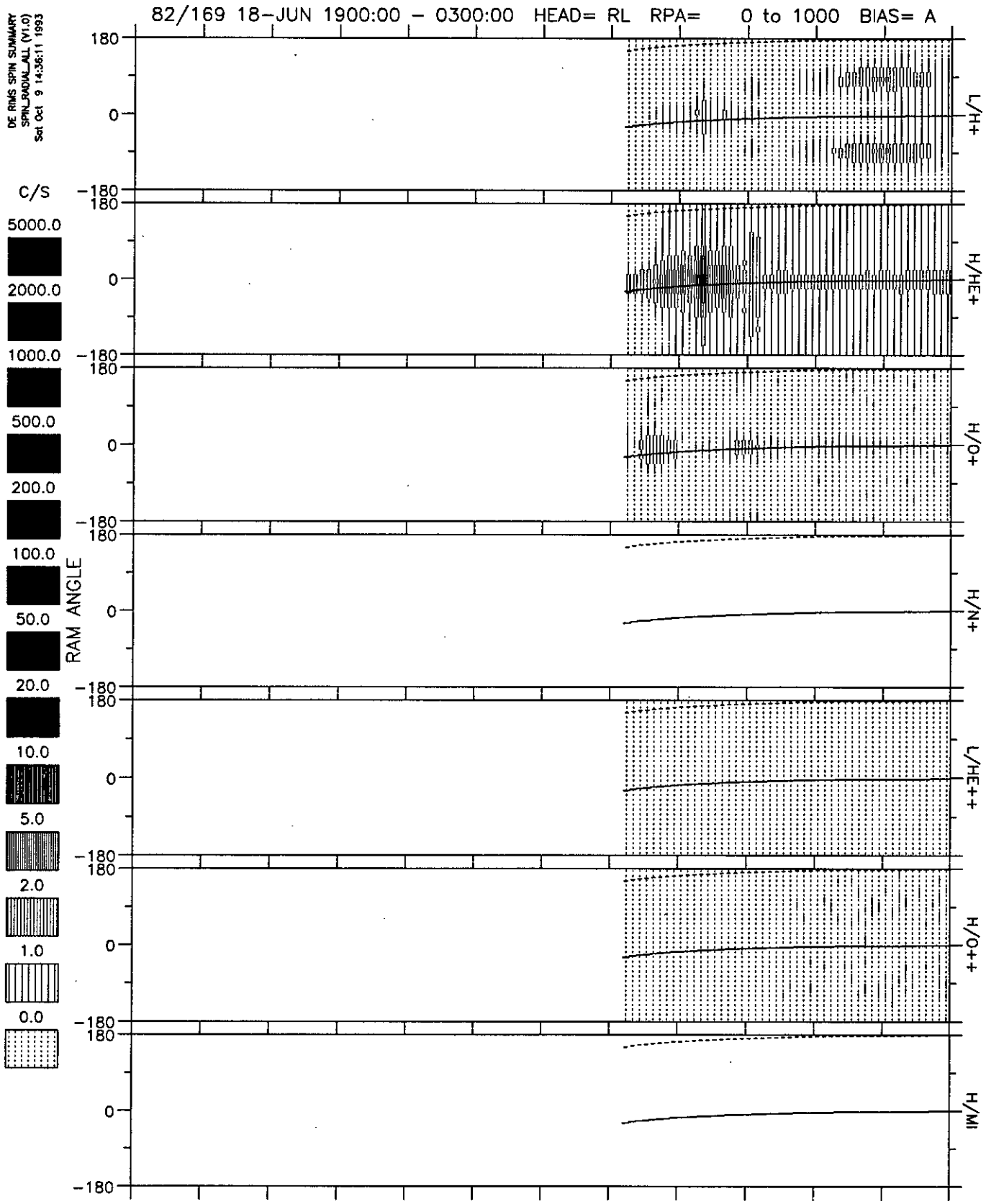
TIME	2255	2335	0015	0055	0135	0000	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.5	4.0	3.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.8	5.0	5.3	6.4	22.9	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	17.3	17.2	17.1	16.7	15.1	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	8.63	18.41	29.38	44.28	71.71	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.9	63.5	64.4	66.7	77.9	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



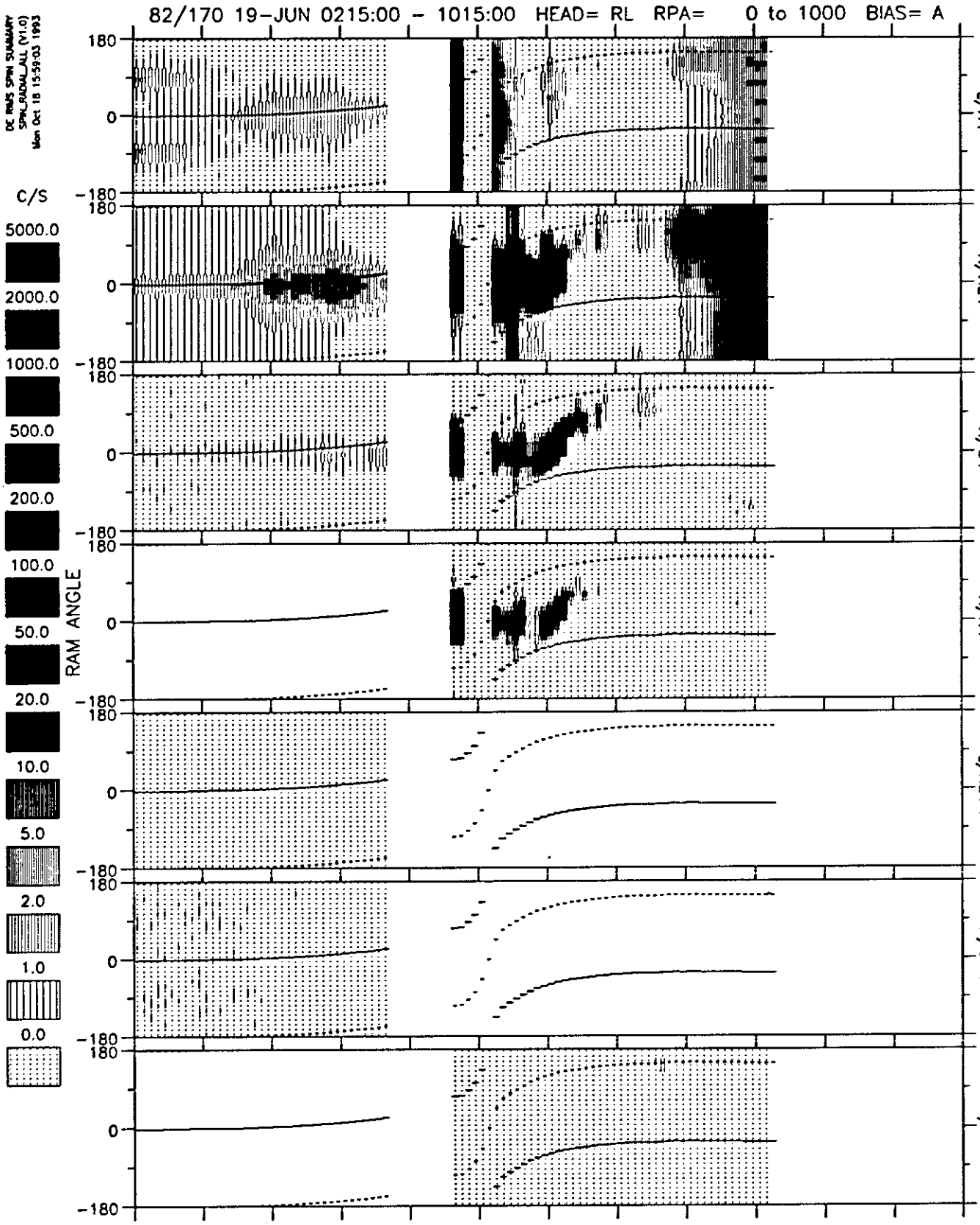
TIME	0000	0000	0000	0000	0820	0900	0940	1020	1100	1140	1220	DEGS
RE	0.0	0.0	0.0	0.0	2.3	1.1	2.1	3.2	4.0	4.5	4.7	HHMM
L	0.0	0.0	0.0	0.0	6.4	1.6	100.0	11.5	6.8	5.6	5.0	RE
MLT	0.0	0.0	0.0	0.0	16.4	4.8	8.0	16.4	16.4	16.4	16.5	
MLAT	0.00	0.00	0.00	0.00	51.27	32.90	*****	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	66.8	37.8	88.1	72.8	67.4	64.9	63.3	DEGS



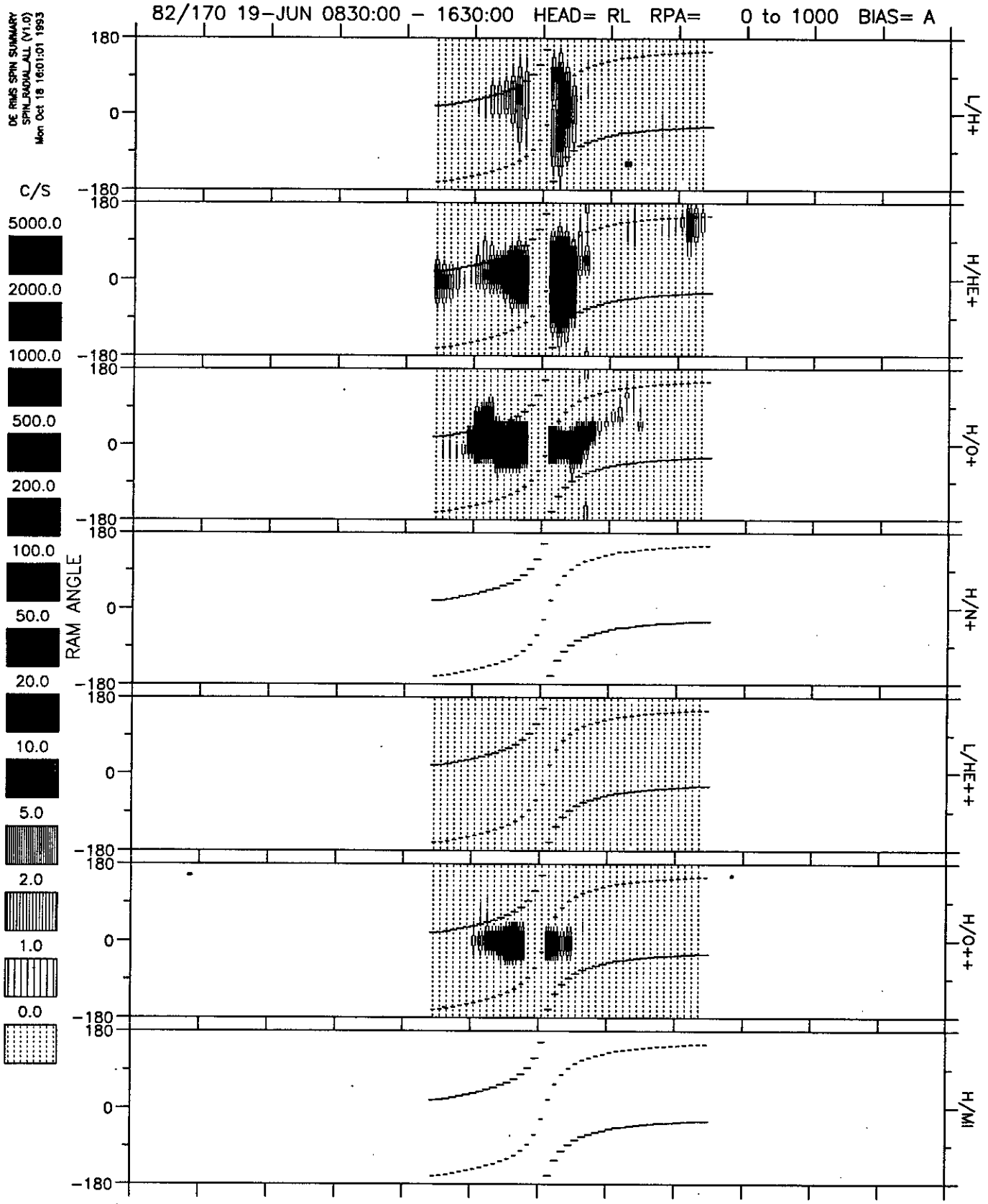
TIME	1240	1320	1400	1440	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.5	4.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.8	4.5	4.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	16.6	16.7	16.9	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	-9.16	2.99	17.02	33.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.7	61.8	61.3	62.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



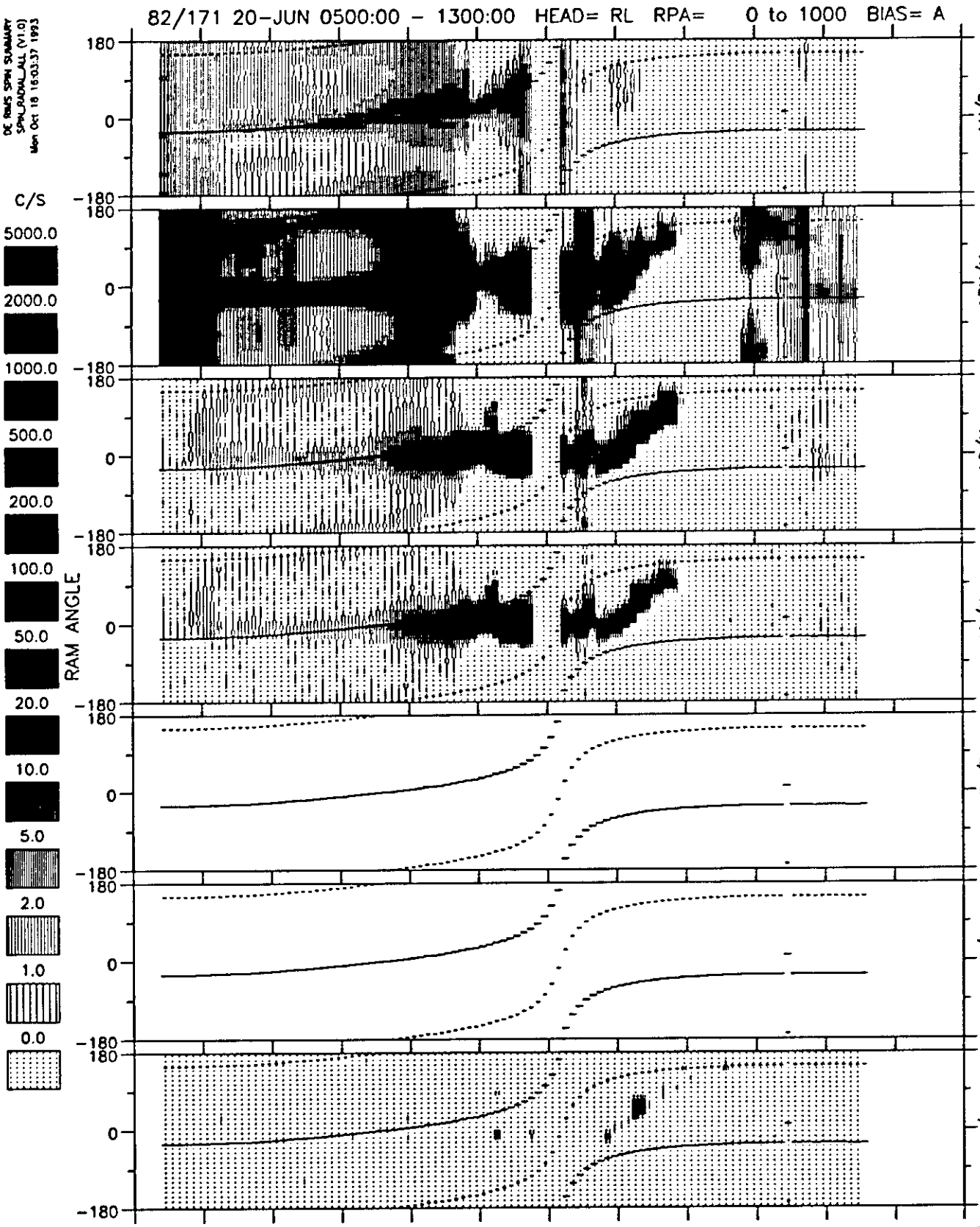
TIME	0000	0000	0000	0000	0000	0000	0000	0020	0100	0140	0220	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	4.3	4.6	4.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.7	4.7	4.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	17.4	17.2	17.1	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-6.82	1.59	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.8	62.4	62.4	62.4	DEGS



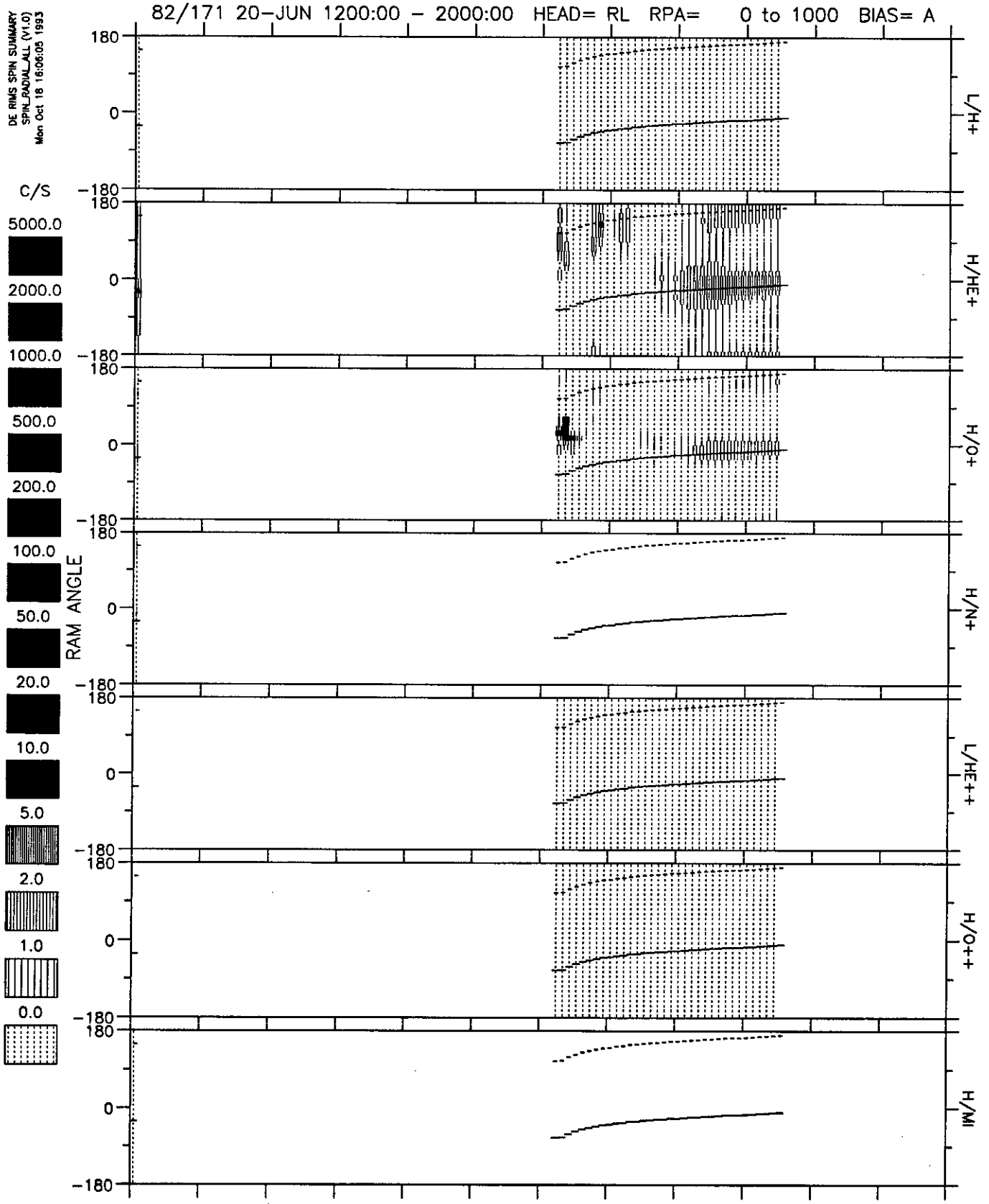
TIME	0255	0335	0415	0000	0535	0615	0655	0735	0815	0000	0000	DEGS
RE	4.5	4.1	3.3	0.0	1.1	2.2	3.3	4.1	4.5	0.0	0.0	HHMM
L	4.6	4.5	4.7	0.0	1.1	76.3	9.9	6.7	5.6	0.0	0.0	RE
MLT	16.9	16.7	16.4	0.0	5.0	20.2	17.4	17.0	16.8	0.0	0.0	
MLAT	9.05	18.92	32.83	0.00	13.71	*****	*****	*****	*****	0.00	0.00	HRS
INVLAT	62.1	61.8	62.4	0.0	16.1	83.4	71.5	67.2	65.1	0.0	0.0	DEGS



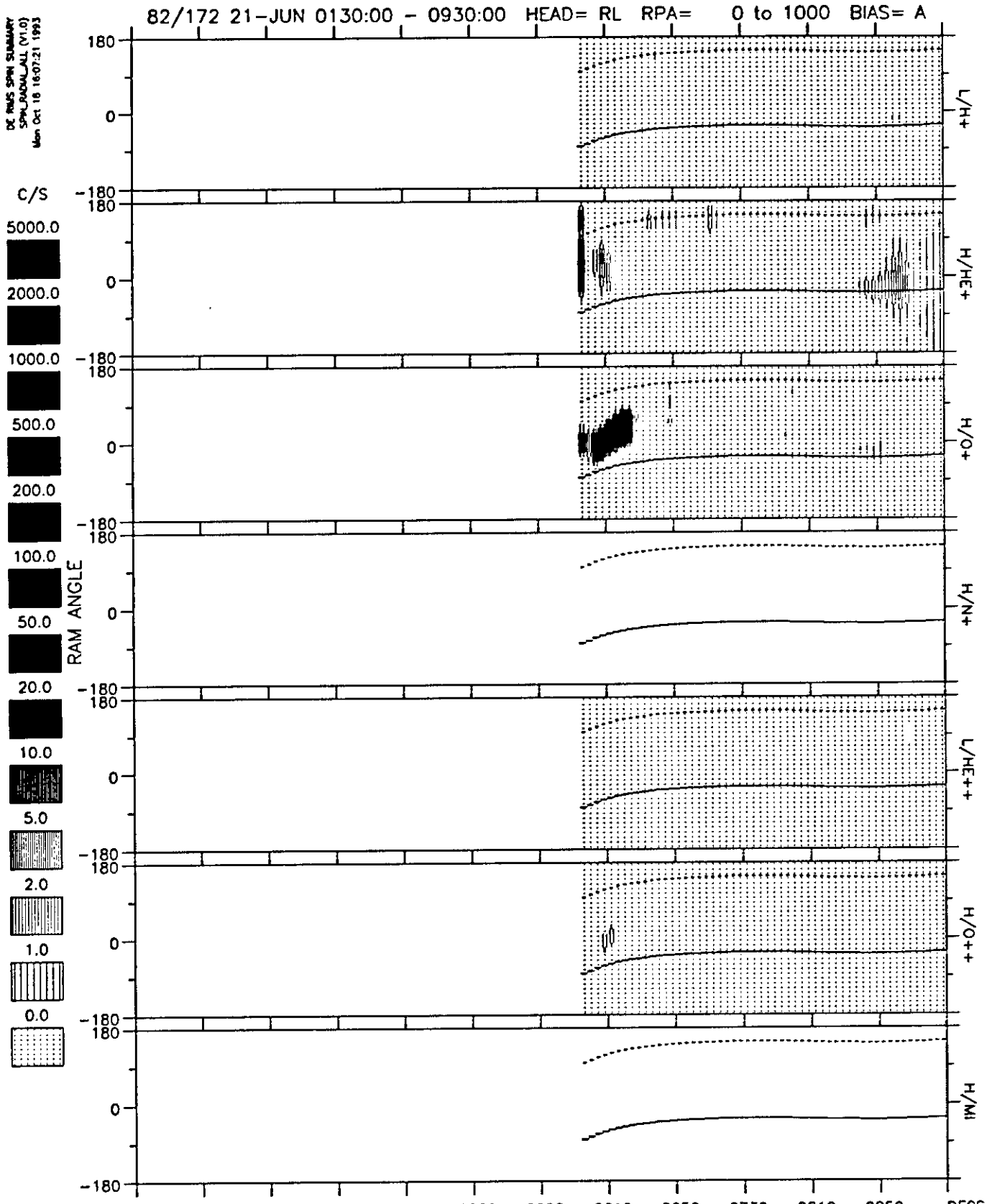
TIME	0000	0000	0000	0000	1150	1230	1310	1350	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	2.1	1.1	2.3	3.4	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	9.5	1.1	33.1	7.6	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	17.4	4.6	13.9	15.9	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	60.14	-4.77	*****	*****	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	71.1	18.0	80.0	68.8	0.0	0.0	0.0	DEGS



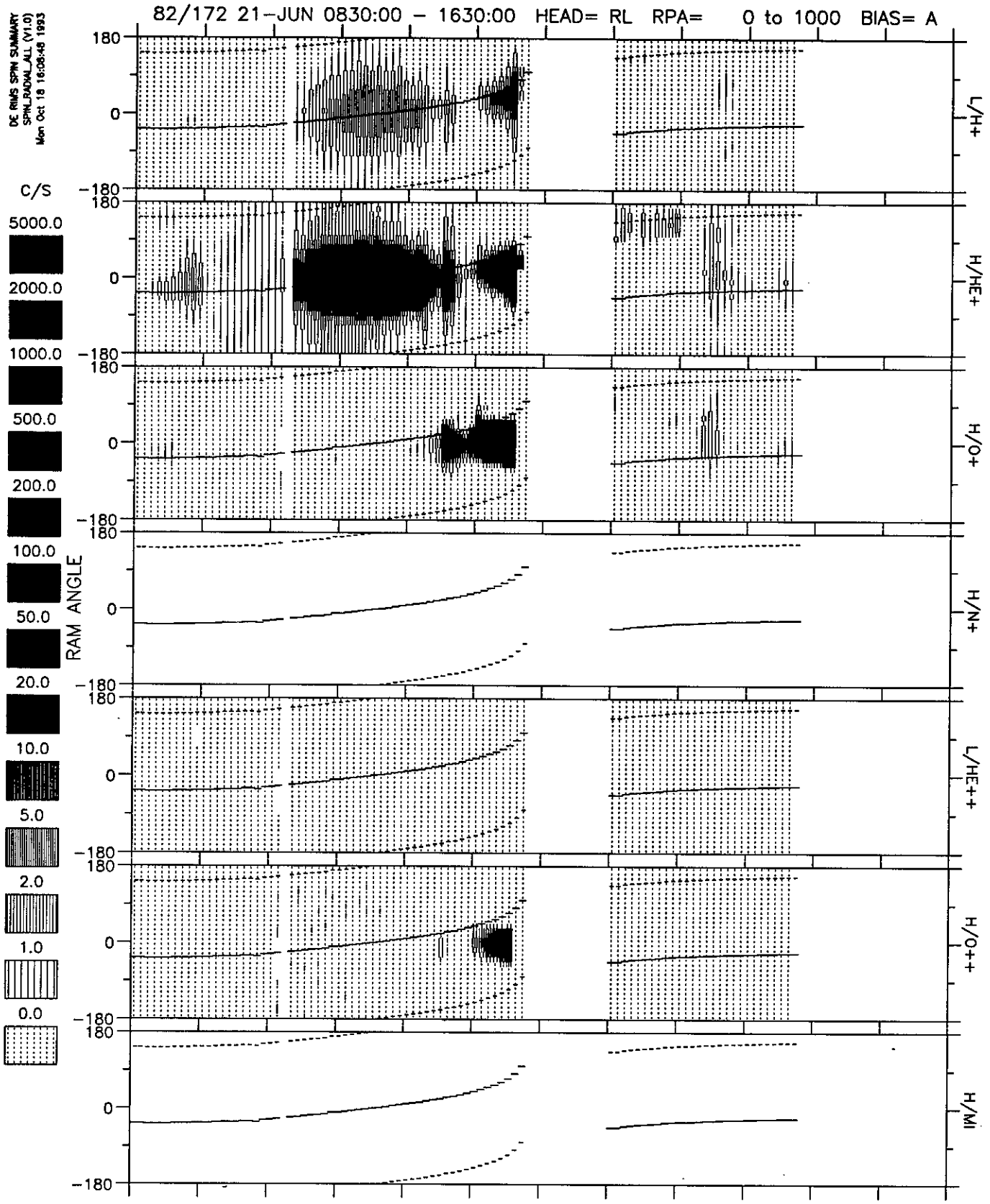
TIME	0540	0620	0700	0740	0820	0900	0940	1020	1100	1140	0000	DEGS
RE	4.7	4.5	4.1	3.3	2.2	1.1	2.3	3.4	4.1	4.5	0.0	HHMM
L	4.8	4.4	4.1	4.1	7.8	1.2	100.0	10.6	6.7	5.5	0.0	RE
MLT	16.8	16.7	16.6	16.4	16.3	4.6	15.8	16.2	16.2	16.3	0.0	
MLAT	-9.22	-0.27	10.57	26.11	56.20	8.83	*****	*****	*****	*****	0.00	HRS
INVLAT	62.7	61.6	60.5	60.4	69.0	23.0	87.2	72.1	67.2	64.8	0.0	DEGS



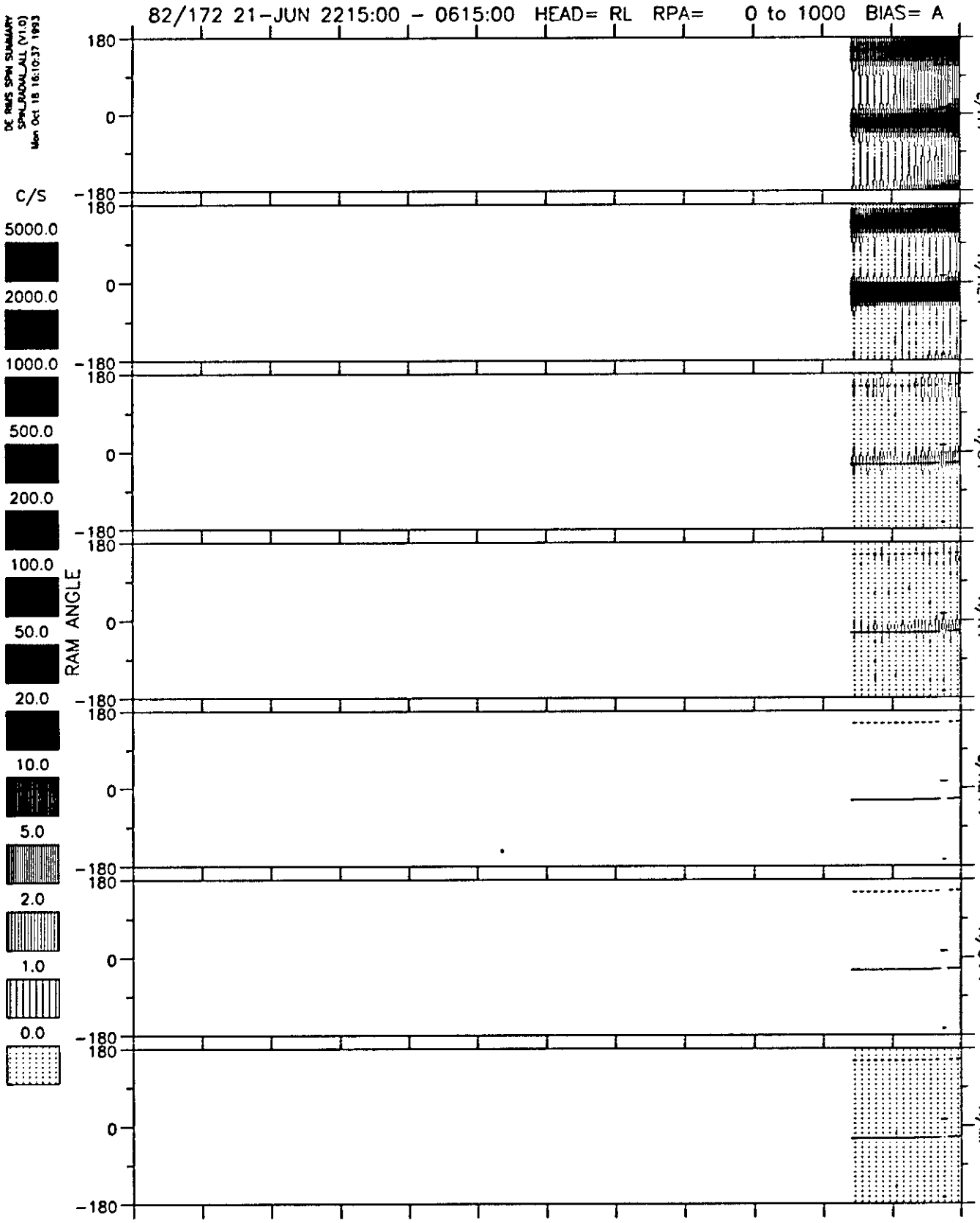
TIME	0000	0000	0000	0000	0000	0000	1640	1720	1800	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.6	4.2	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	9.6	5.4	4.8	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	15.5	16.4	16.7	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	71.2	64.6	62.9	0.0	0.0	DEGS



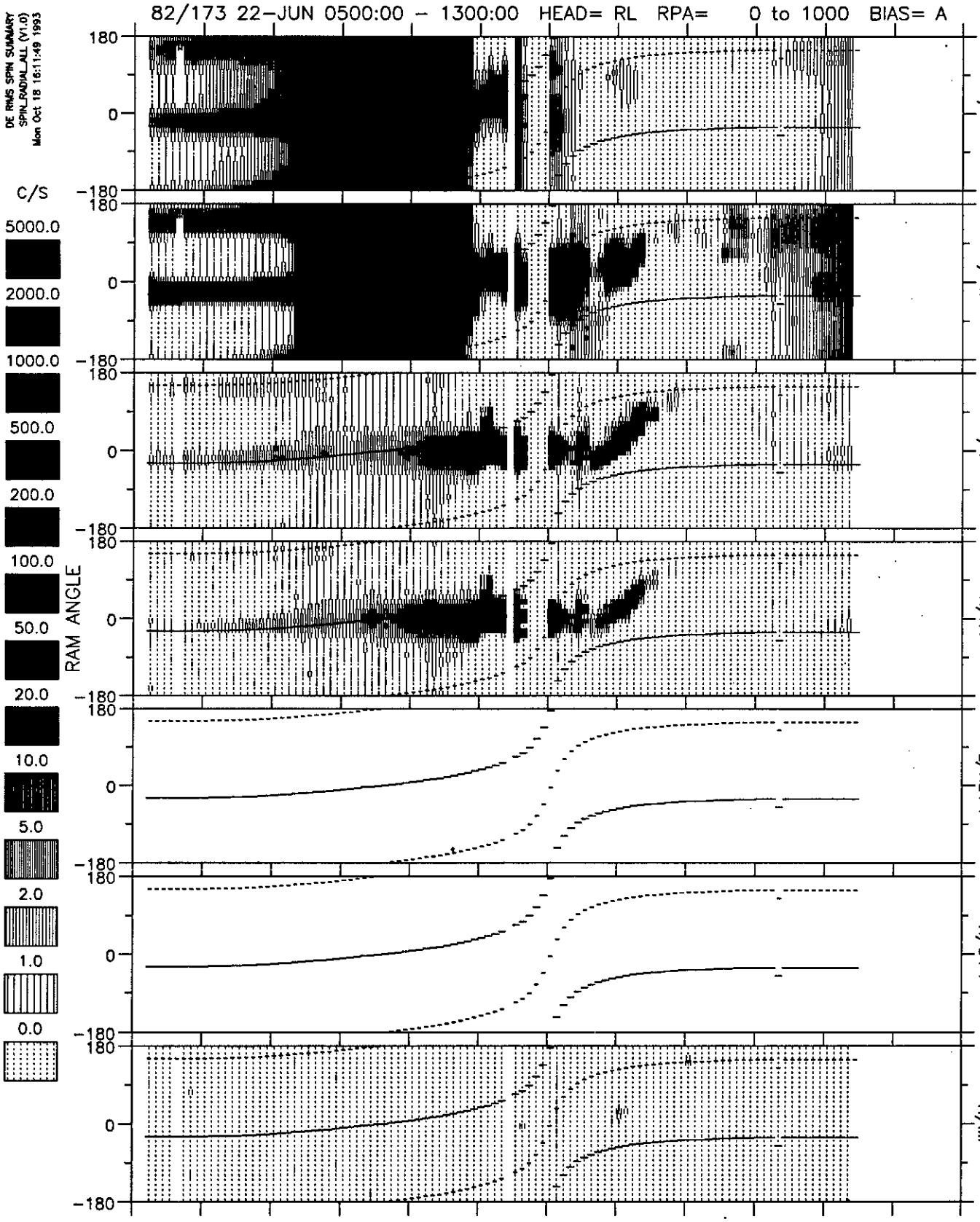
TIME	0000	0000	0000	0000	0000	0000	0610	0650	0730	0810	0850	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.3	4.1	4.5	4.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	81.9	10.2	6.8	5.7	5.1	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	20.2	17.2	16.8	16.6	16.5	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	83.7	71.8	67.5	65.2	63.6	DEGS



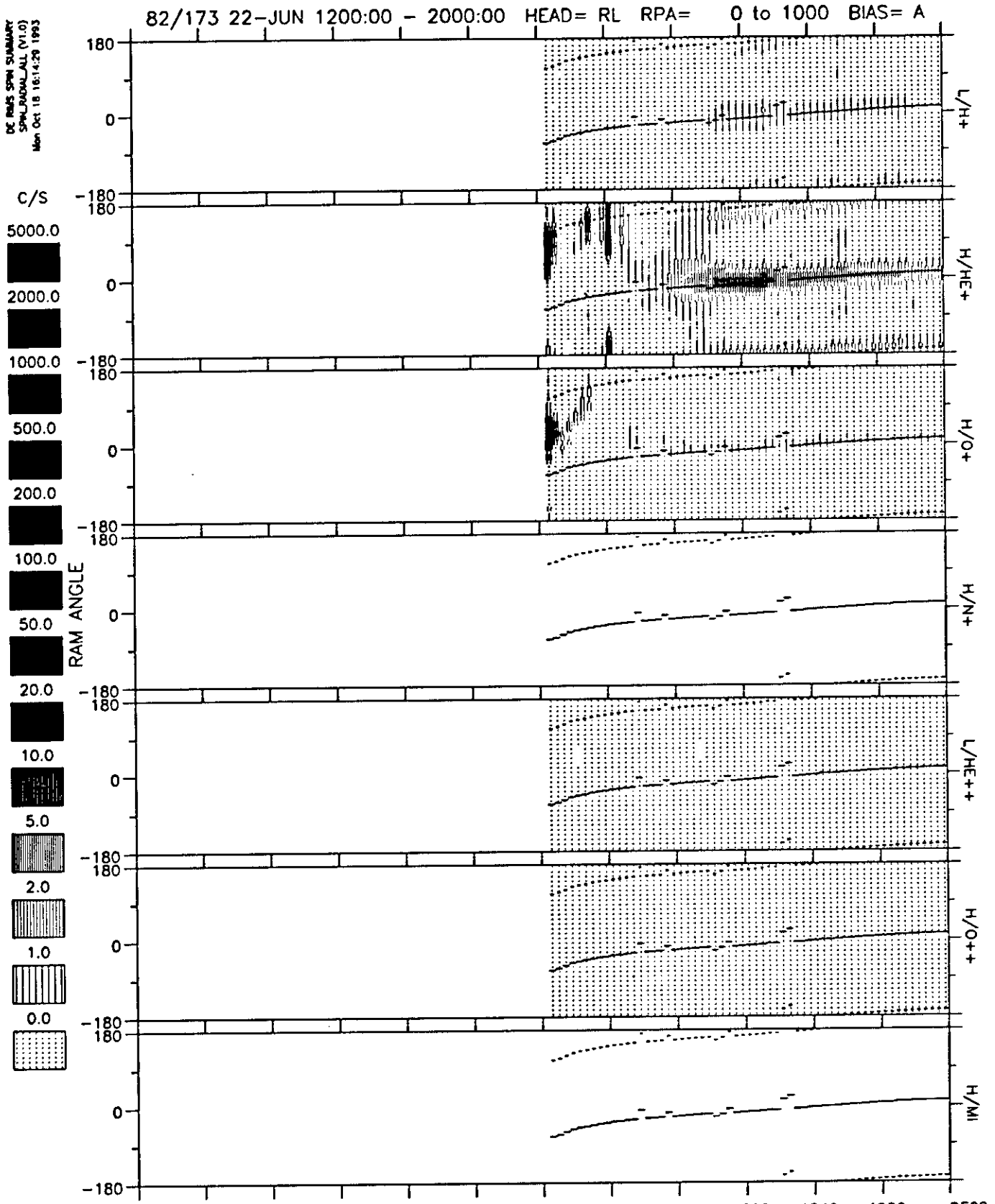
TIME	0910	0950	1030	1110	1150	0000	1310	1350	1430	0000	0000	DEGS
RE	4.7	4.4	3.9	3.1	1.9	0.0	2.5	3.5	4.2	0.0	0.0	HHMM
L	4.8	4.4	4.1	4.2	14.6	0.0	21.7	7.3	5.6	0.0	0.0	RE
MLT	16.5	16.5	16.5	16.6	17.6	0.0	14.5	15.8	16.1	0.0	0.0	
MLAT	*****	-2.04	11.09	29.74	66.76	0.00	*****	*****	*****	0.00	0.00	HRS
INVLAT	62.9	61.4	60.3	60.9	74.8	0.0	77.6	68.3	65.0	0.0	0.0	DEGS



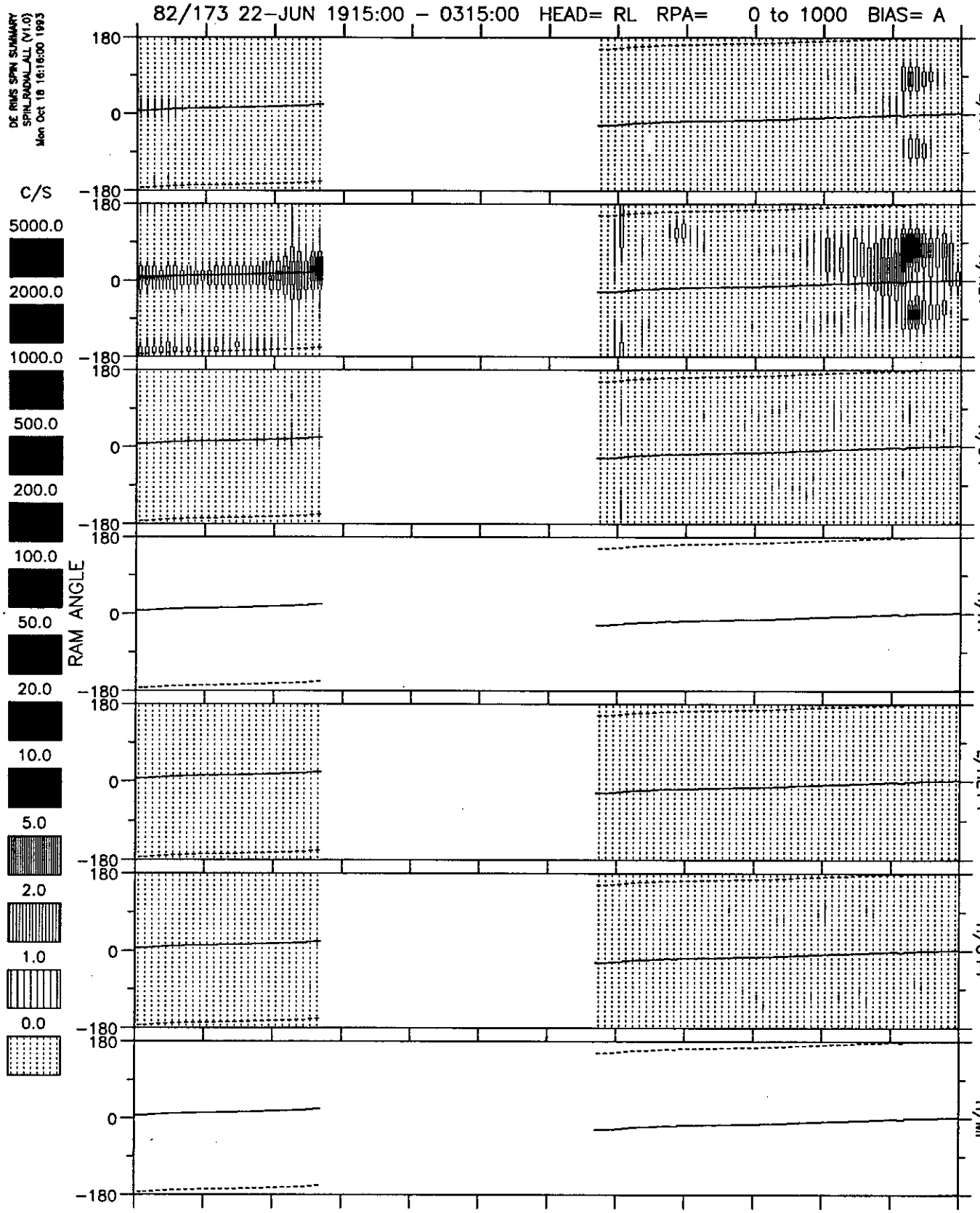
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0535	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-9.92	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.7	DEGS



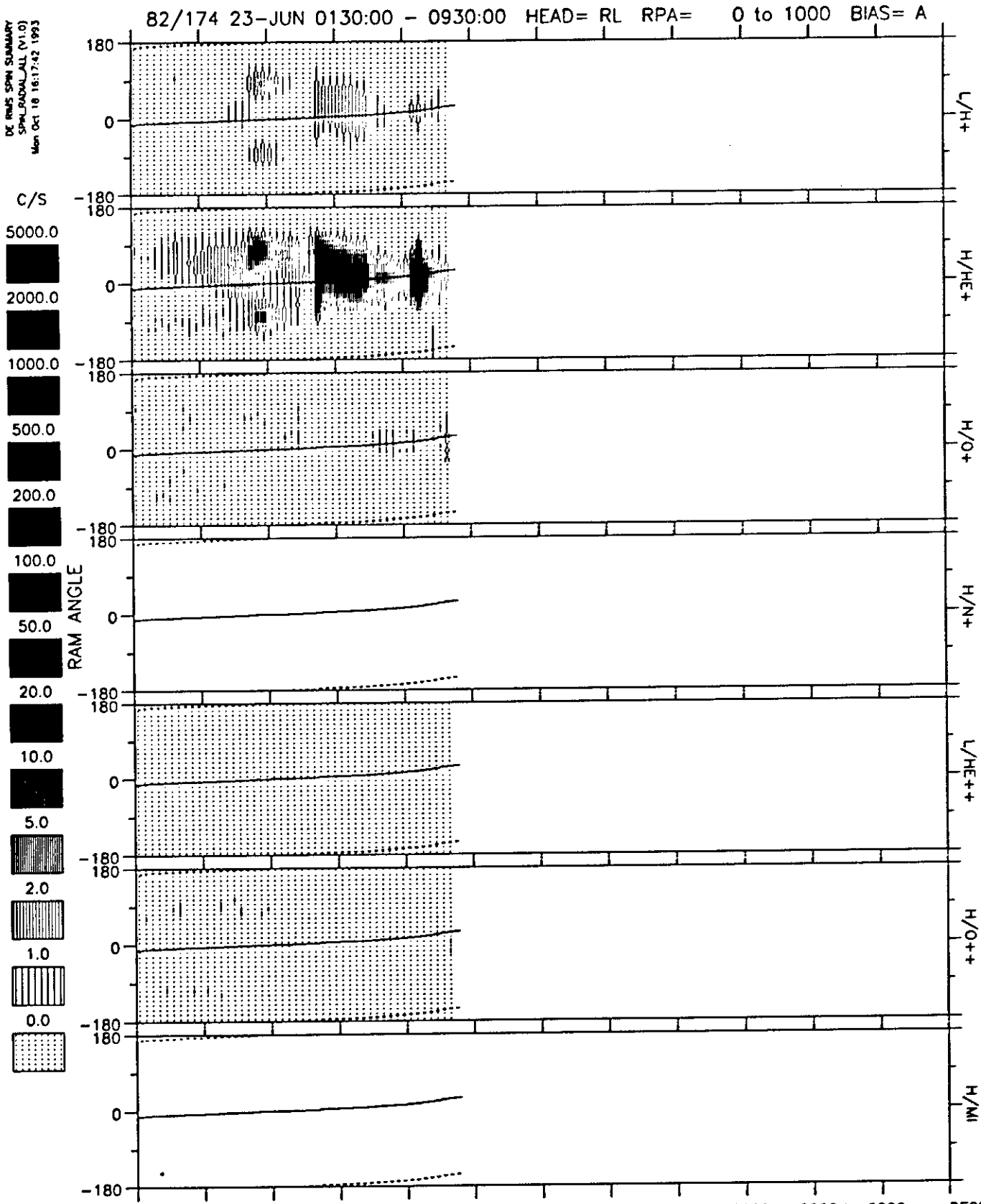
TIME	0540	0620	0700	0740	0820	0900	0940	1020	1100	1140	0000	DEGS
RE	4.7	4.5	4.0	3.2	2.0	1.1	2.4	3.5	4.2	4.6	0.0	HHMM
L	4.7	4.4	4.1	4.1	10.8	1.3	98.5	9.9	6.6	5.5	0.0	RE
MLT	16.7	16.5	16.4	16.3	16.1	4.4	15.9	16.1	16.1	16.2	0.0	
MLAT	-8.87	0.25	11.52	28.12	62.38	*****	*****	*****	*****	*****	0.00	HRS
INVLAT	62.6	61.5	60.3	60.4	72.3	27.2	84.3	71.5	67.0	64.7	0.0	DEGS



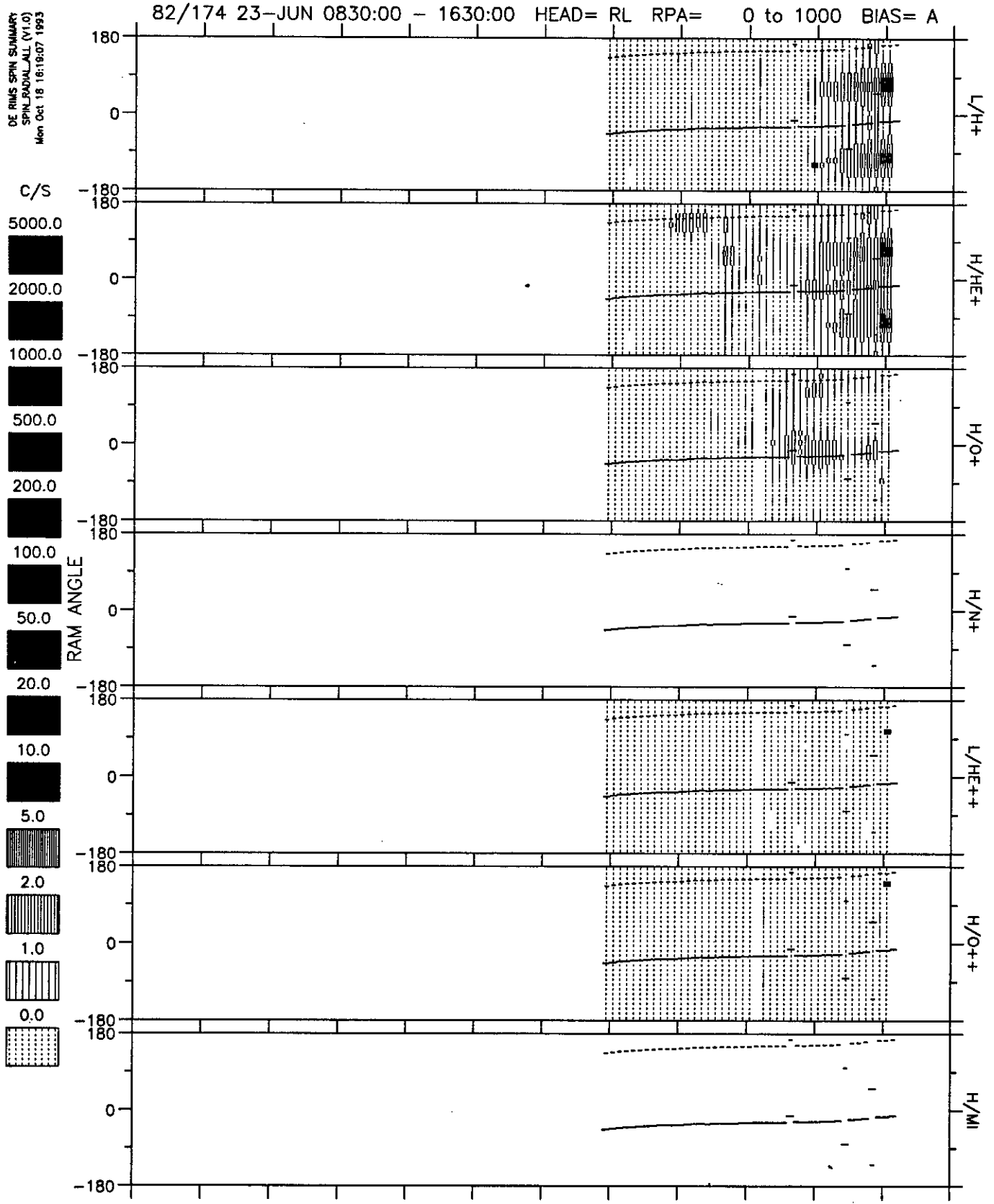
TIME	0000	0000	0000	0000	0000	0000	1640	1720	1800	1840	1920	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	2.7	3.7	4.3	4.6	4.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	8.5	5.4	4.8	4.7	4.8	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	15.6	16.3	16.6	16.8	17.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-4.31	7.12	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	69.9	64.4	62.9	62.6	62.8	DEGS



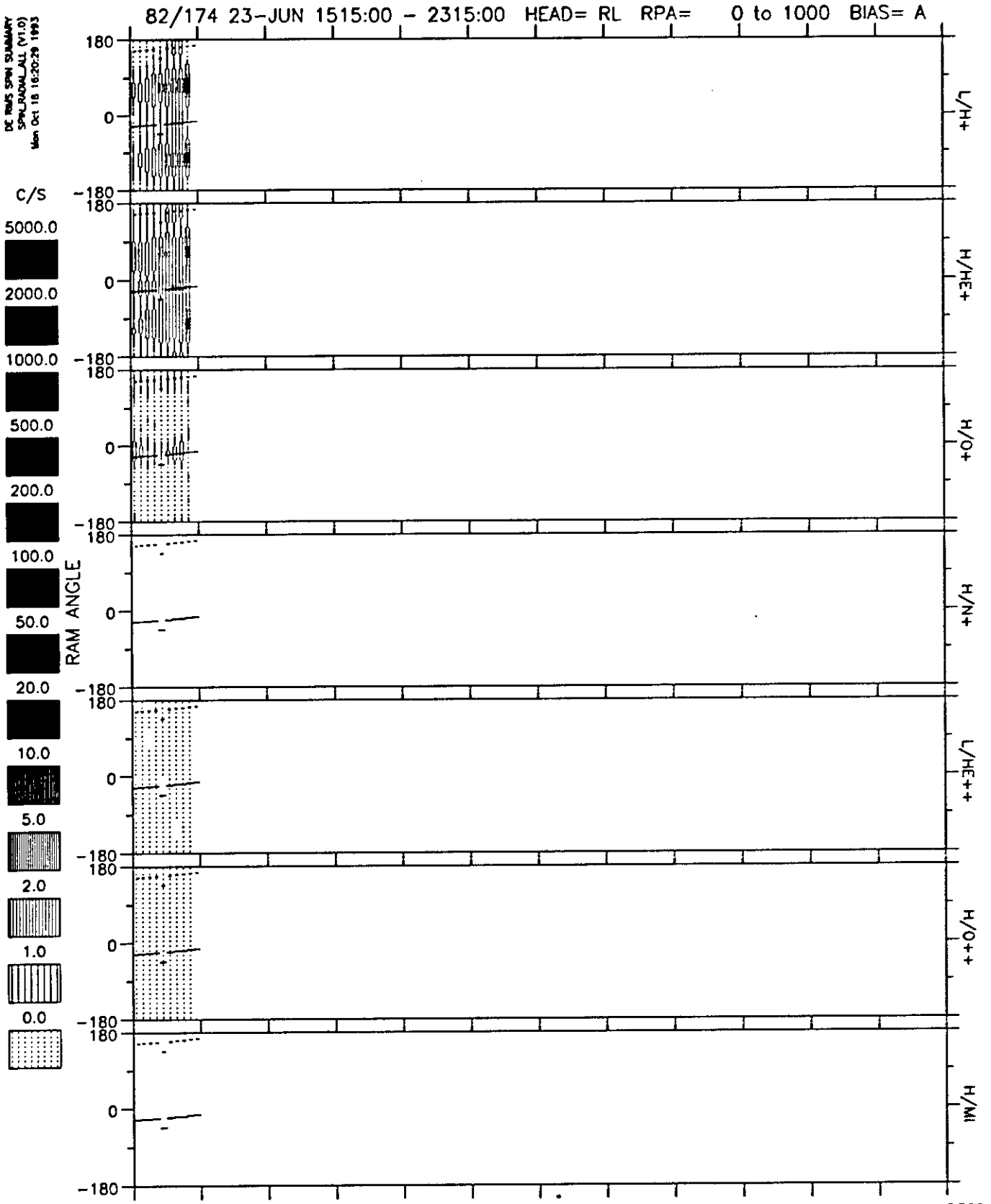
TIME	1955	2035	0000	0000	0000	0000	2355	0035	0115	0155	0235	DEGS
RE	4.5	4.1	0.0	0.0	0.0	0.0	3.3	4.1	4.5	4.7	4.6	HHMM
L	5.0	5.4	0.0	0.0	0.0	0.0	5.2	4.8	4.7	4.7	4.6	RE
MLT	17.0	17.1	0.0	0.0	0.0	0.0	17.3	17.2	17.0	16.9	16.7	
MLAT	17.14	29.85	0.00	0.00	0.00	0.00	*****	*****	*****	-2.97	5.36	HRS
INVLAT	63.4	64.6	0.0	0.0	0.0	0.0	64.0	62.7	62.6	62.4	62.1	DEGS



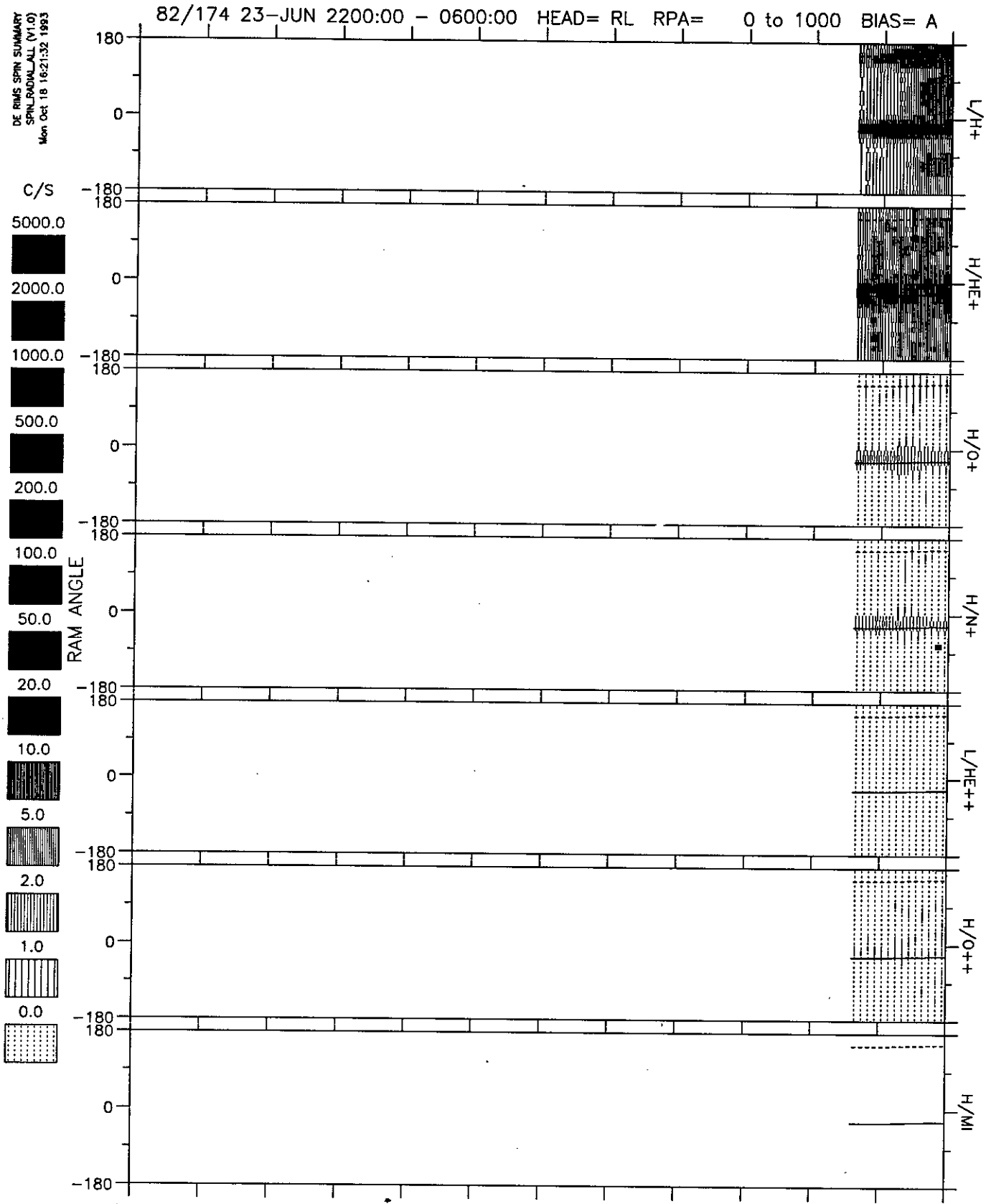
TIME	0210	0250	0330	0410	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	4.7	4.5	4.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	4.6	4.5	4.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	16.8	16.6	16.4	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.11	8.67	18.89	33.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	62.3	62.0	61.5	62.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



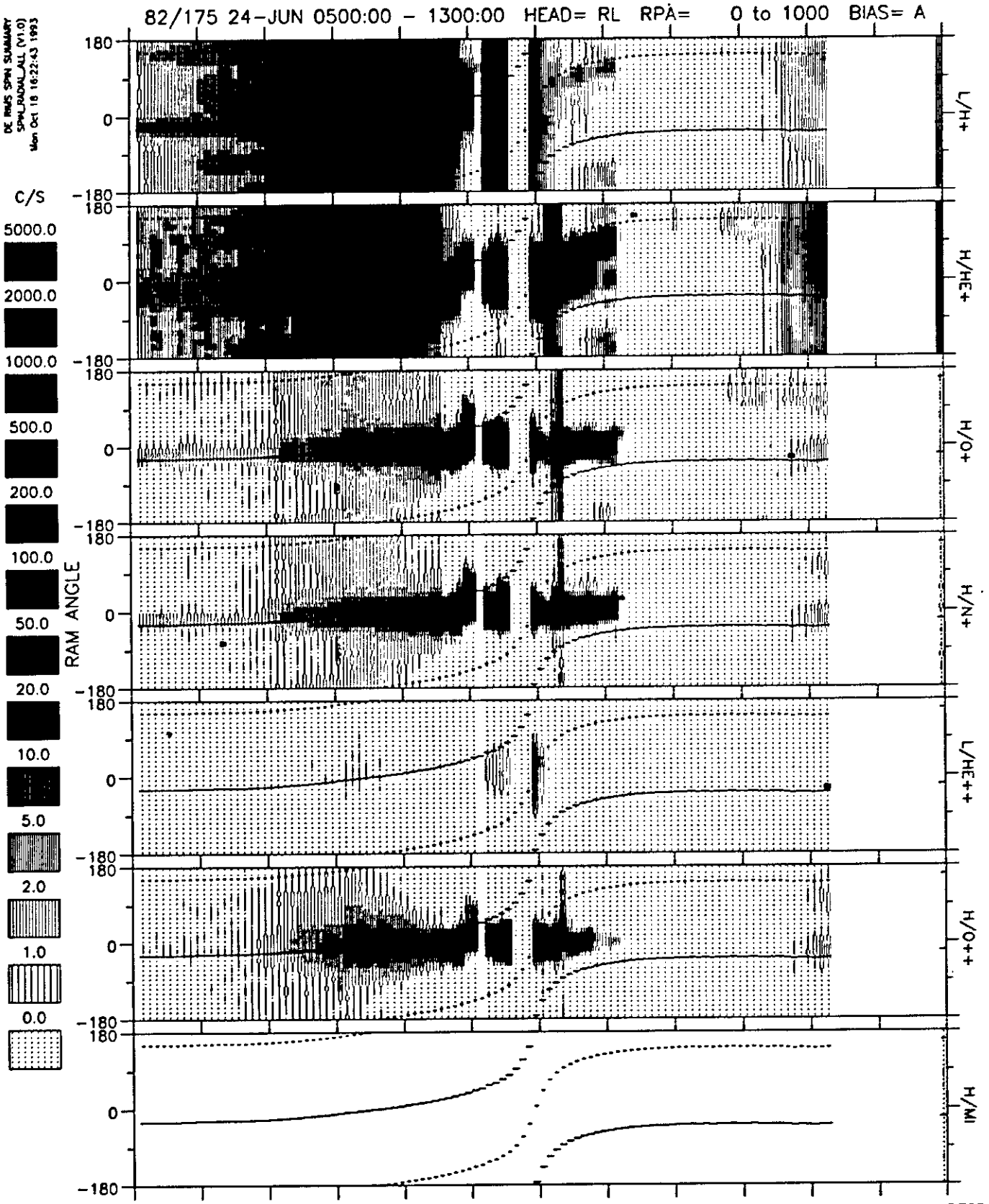
TIME	0000	0000	0000	0000	0000	0000	1310	1350	1430	1510	1550	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	2.6	3.6	4.2	4.6	4.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	19.3	7.0	5.6	5.0	4.7	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	14.5	15.7	16.0	16.2	16.5	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	-1.80	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	76.8	67.9	64.9	63.4	62.7	DEGS



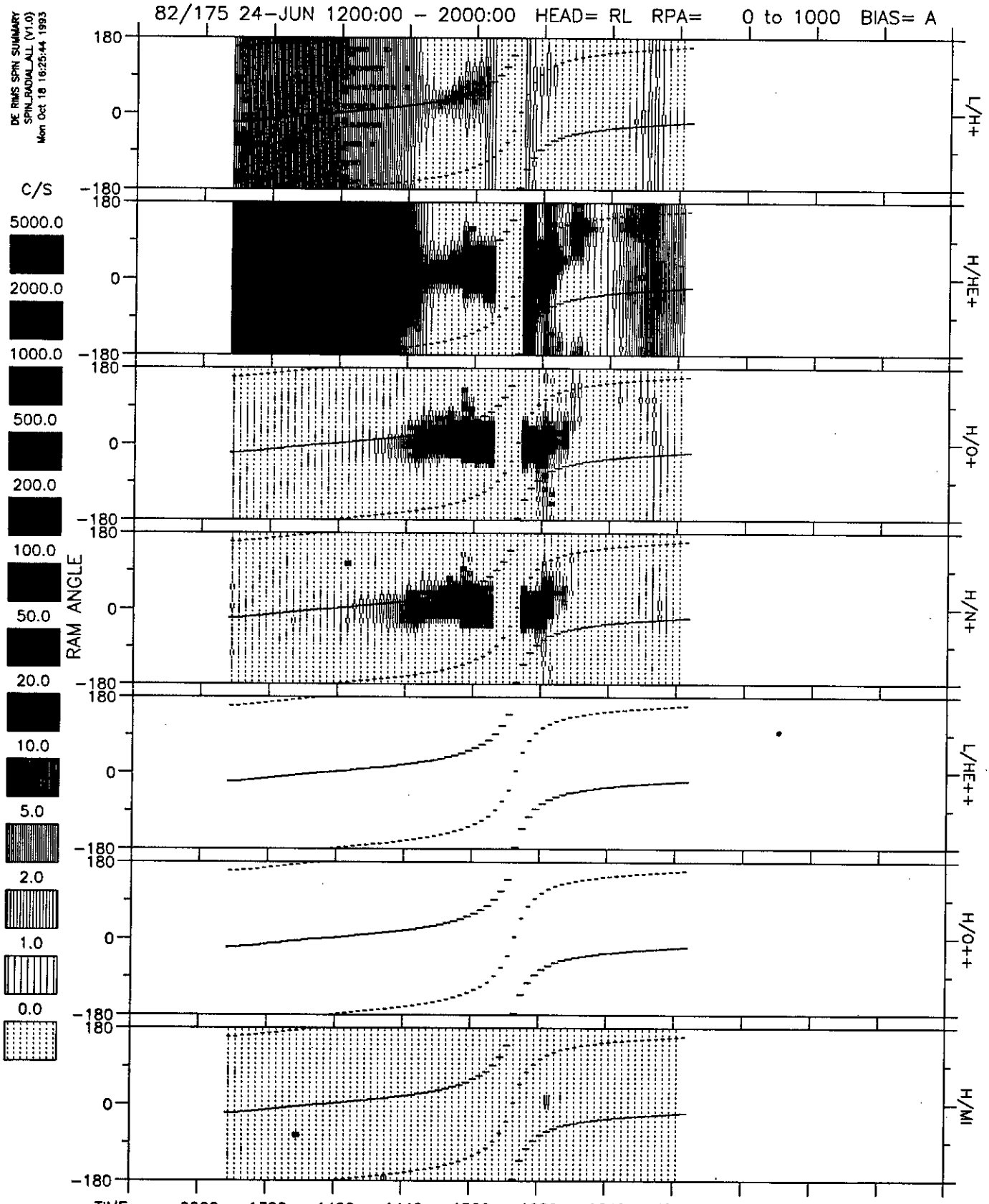
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



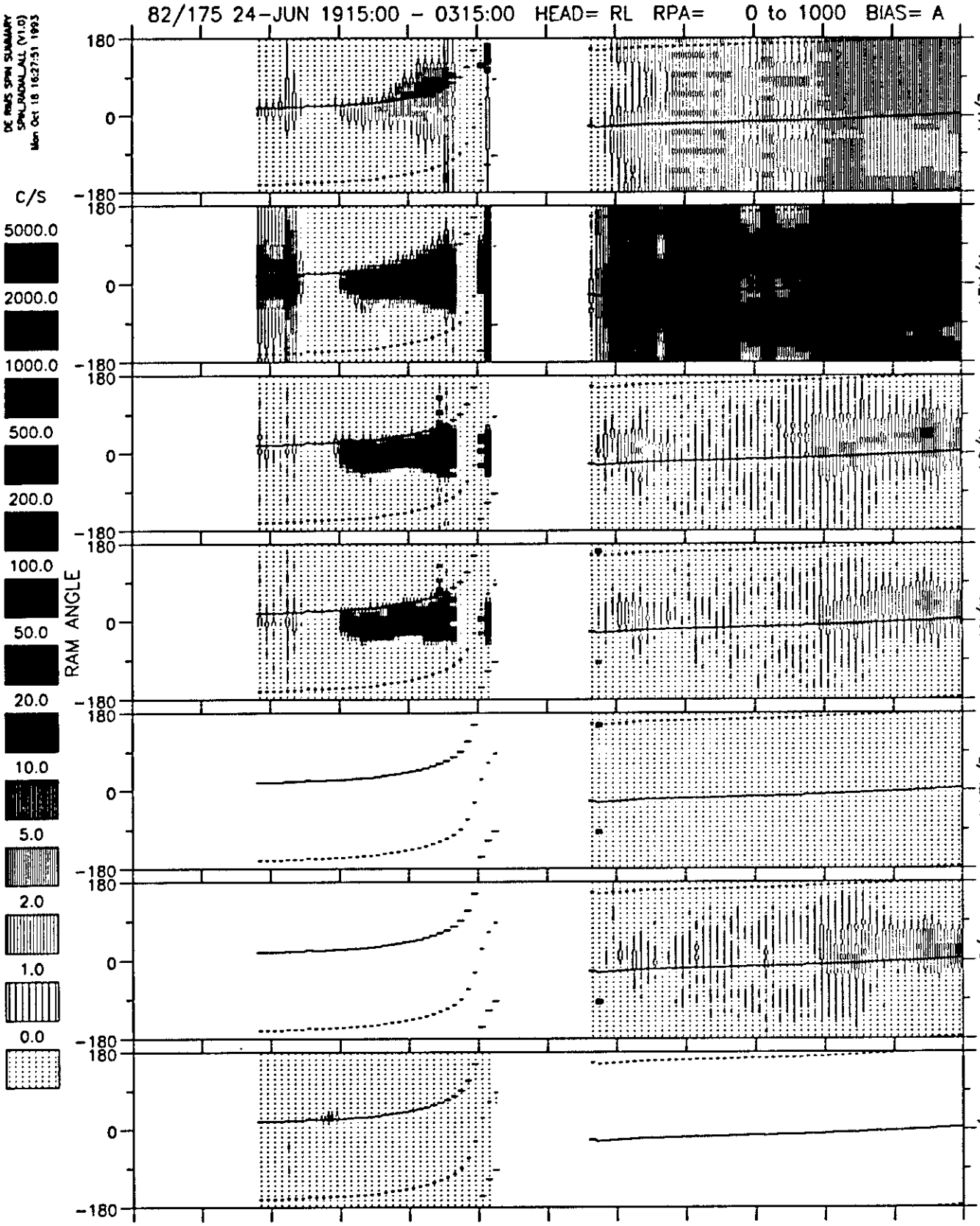
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0520	DEGS
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	HHMM
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	RE
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	HRS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.1	DEGS



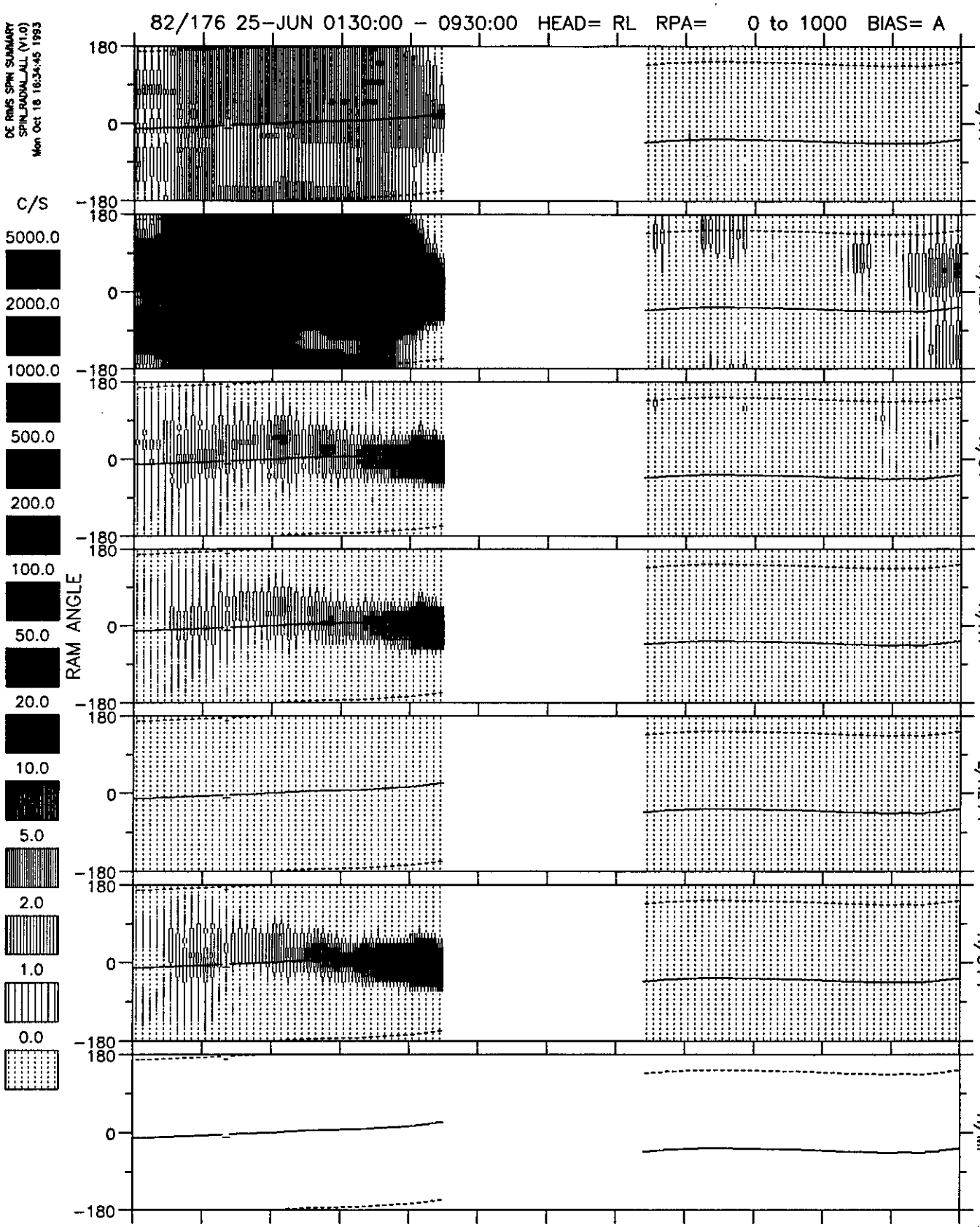
TIME	0540	0620	0700	0740	0820	0900	0940	1020	1100	1140	0000	DEGS
RE	4.6	4.4	3.9	3.0	1.8	1.3	2.6	3.6	4.2	4.6	0.0	HHMM
L	4.7	4.3	4.0	4.1	19.4	1.8	50.5	9.4	6.5	5.4	0.0	RE
MLT	16.5	16.4	16.3	16.2	15.9	4.3	15.8	15.9	16.0	16.0	0.0	
MLAT	-8.52	0.79	12.52	30.32	69.78	*****	*****	*****	*****	*****	0.00	HRS
INVLAT	62.5	61.3	60.1	60.5	76.9	42.3	81.9	71.0	66.8	64.6	0.0	DEGS



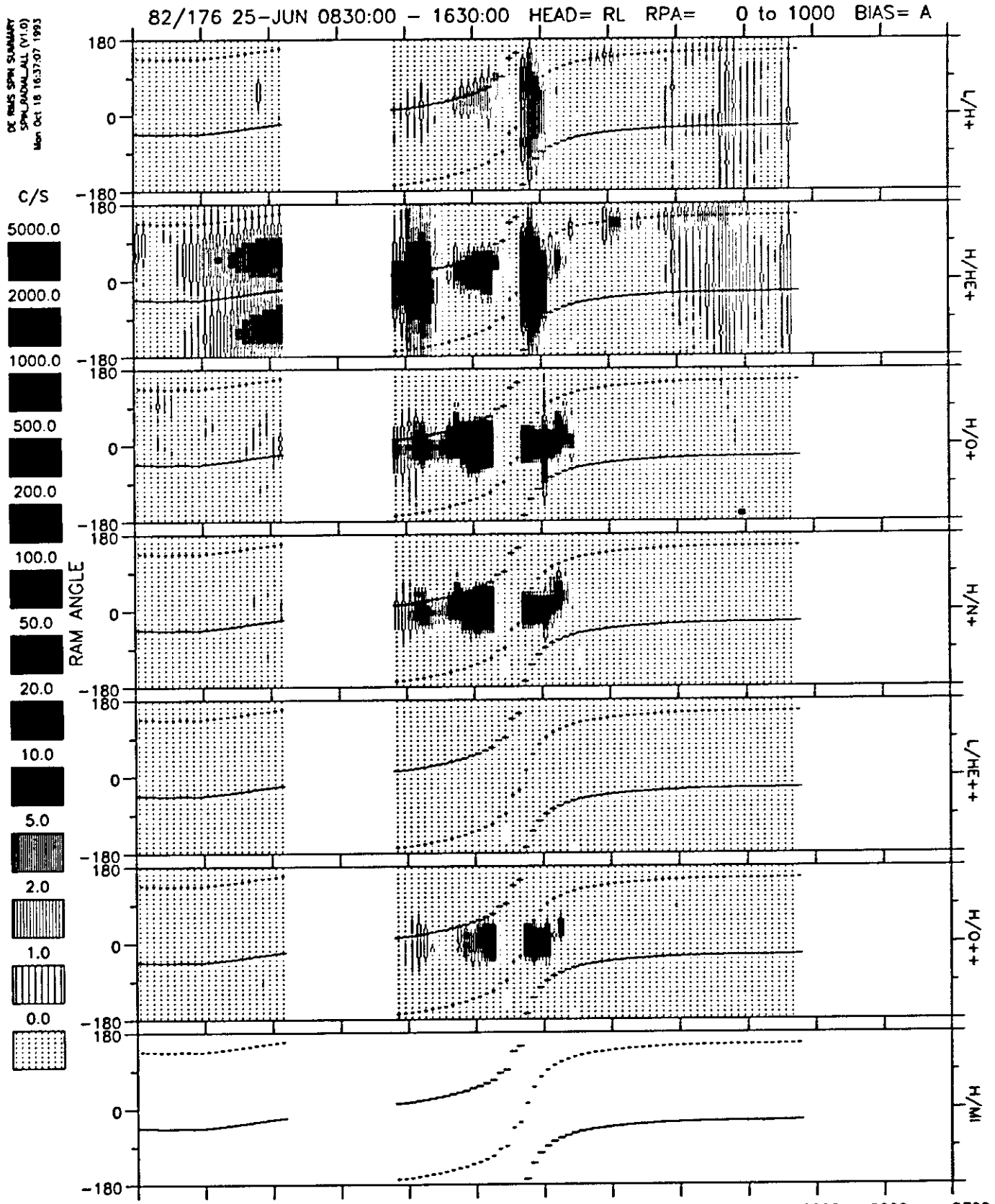
TIME	0000	1320	1400	1440	1520	1600	1640	1720	0000	0000	0000	DEGS
RE	0.0	4.3	3.7	2.8	1.5	1.6	2.9	3.8	0.0	0.0	0.0	HHMM
L	0.0	4.4	4.3	5.3	24.2	18.0	7.8	5.3	0.0	0.0	0.0	RE
MLT	0.0	16.4	16.6	17.1	1.4	7.0	15.6	16.2	0.0	0.0	0.0	
MLAT	0.00	6.50	21.91	44.49	73.77	*****	*****	*****	0.00	0.00	0.00	HRS
INVLAT	0.0	61.4	61.1	64.2	78.2	76.3	68.9	64.2	0.0	0.0	0.0	DEGS



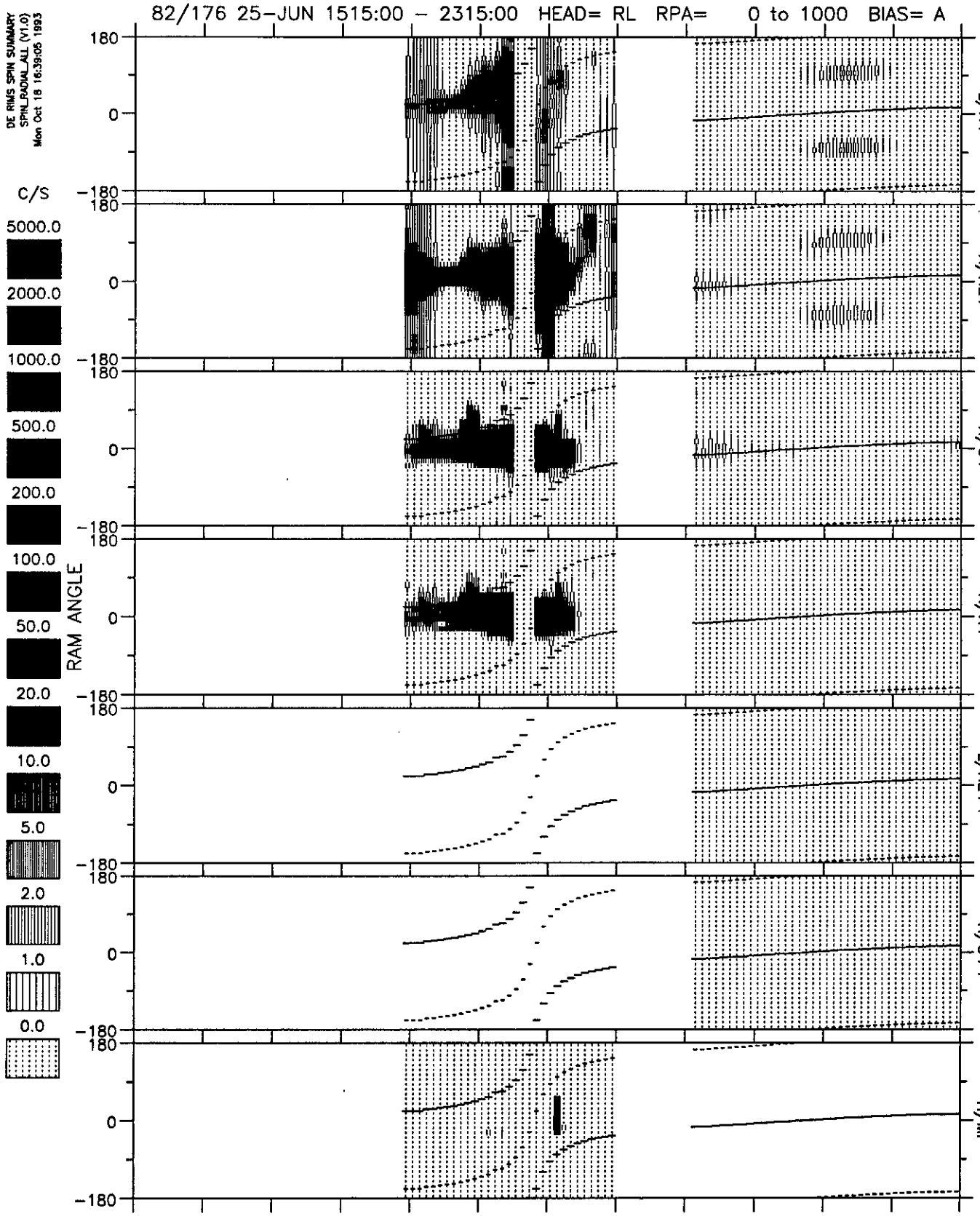
TIME	0000	2035	2115	2155	2235	0000	2355	0035	0115	0155	0235	DEGS
RE	0.0	4.0	3.2	2.0	1.1	0.0	3.5	4.2	4.5	4.7	4.5	HHMM
L	0.0	5.5	7.3	85.5	1.5	0.0	5.2	4.8	4.7	4.7	4.5	RE
MLT	0.0	16.9	16.8	15.7	4.7	0.0	17.2	17.0	16.9	16.7	16.6	
MLAT	0.00	31.05	48.55	81.94	*****	0.00	*****	*****	*****	-2.68	5.71	HRS
INVLAT	0.0	64.7	68.2	83.8	34.1	0.0	63.9	62.8	62.6	62.4	62.0	DEGS



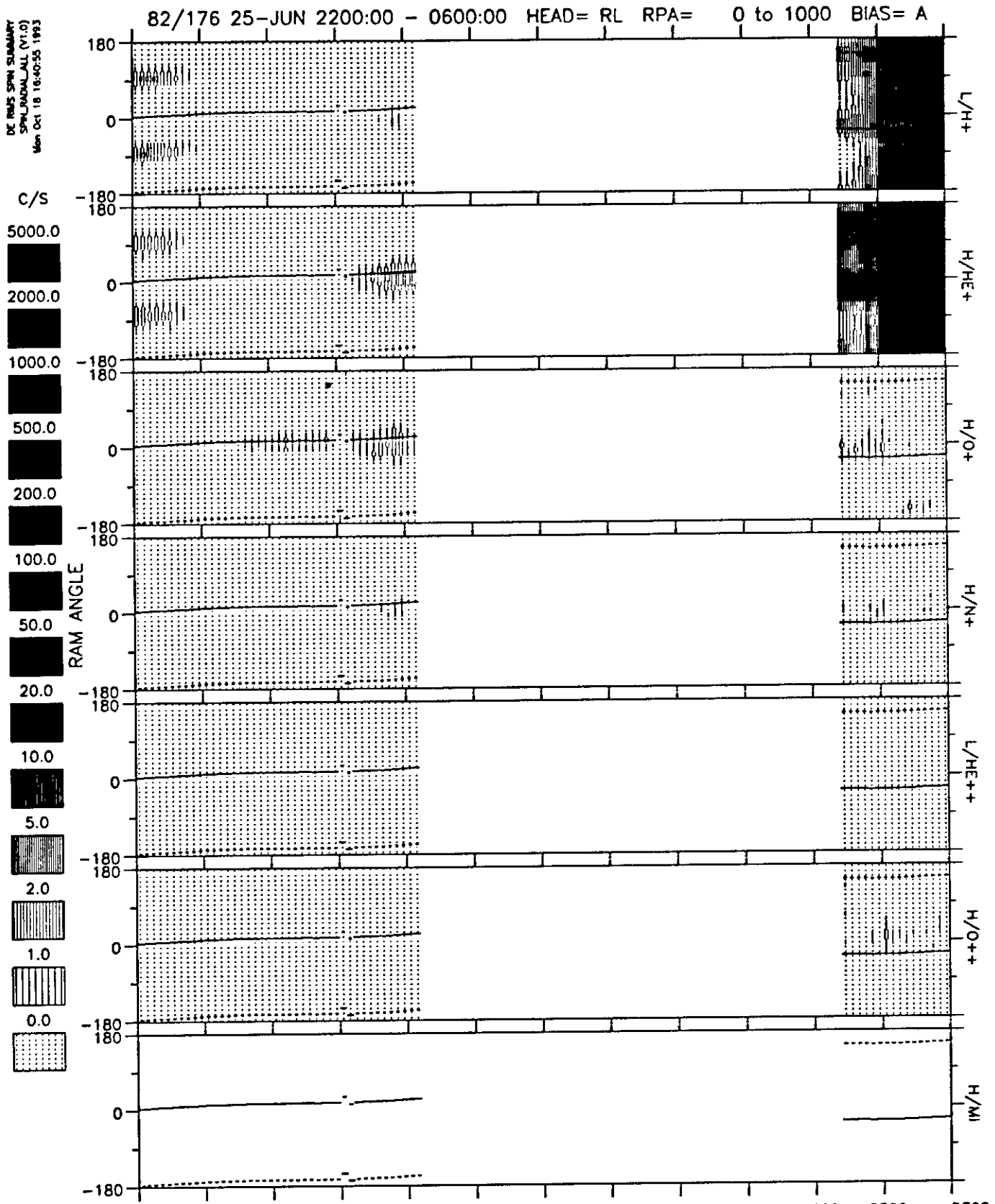
TIME	0210	0250	0330	0410	0000	0000	0000	0650	0730	0810	0850	DEGS
RE	4.7	4.4	3.9	3.1	0.0	0.0	0.0	3.5	4.2	4.6	4.7	HHMM
L	4.6	4.5	4.3	4.6	0.0	0.0	0.0	9.4	6.7	5.7	5.0	RE
MLT	16.7	16.5	16.3	16.0	0.0	0.0	0.0	16.8	16.5	16.3	16.2	
MLAT	0.40	9.07	19.67	35.60	0.00	0.00	0.00	*****	*****	*****	*****	HRS
INVLAT	62.3	61.8	61.3	62.2	0.0	0.0	0.0	70.9	67.3	65.1	63.4	DEGS



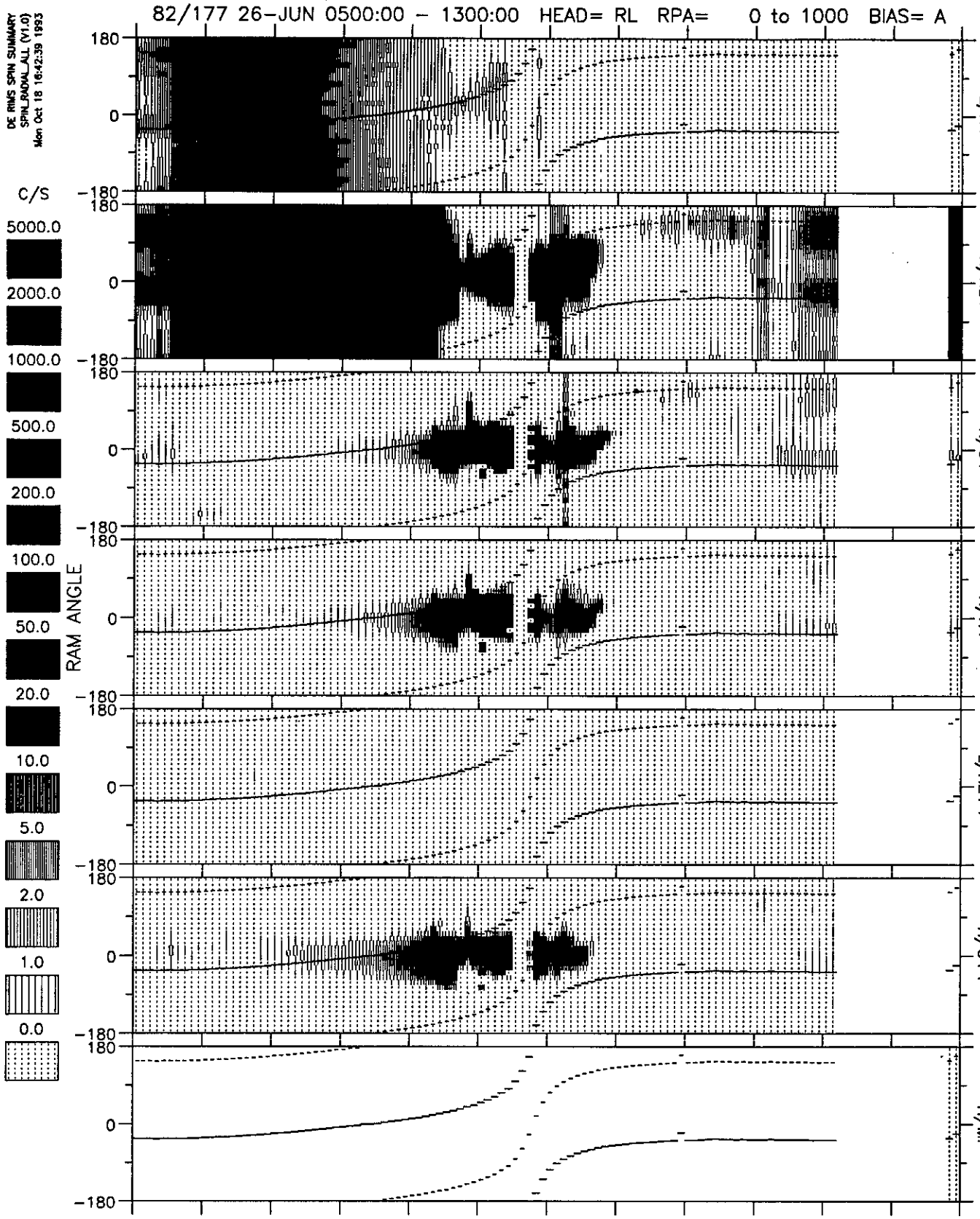
TIME	0910	0950	0000	1110	1150	1230	1310	1350	1430	0000	0000	DEGS
RE	4.6	4.3	0.0	2.8	1.5	1.5	2.8	3.7	4.3	0.0	0.0	HHMM
L	4.7	4.3	0.0	4.4	100.0	5.5	14.1	6.8	5.5	0.0	0.0	RE
MLT	16.2	16.2	0.0	16.5	20.7	5.2	14.8	15.6	15.9	0.0	0.0	
MLAT	*****	-0.19	0.00	35.29	81.81	*****	*****	*****	*****	0.00	0.00	HRS
INVLAT	62.6	61.1	0.0	61.5	85.3	64.8	74.6	67.5	64.8	0.0	0.0	DEGS



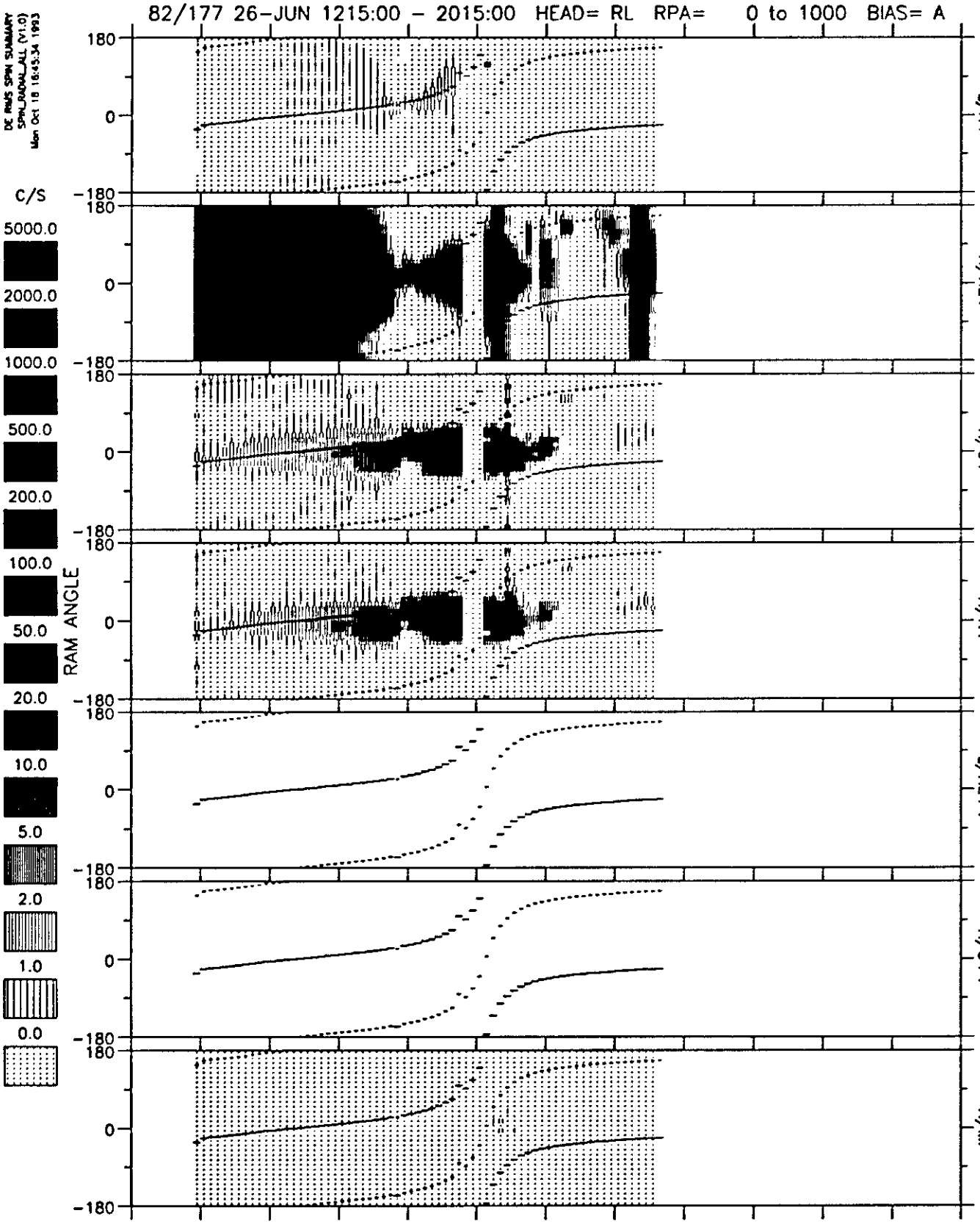
TIME	0000	0000	0000	1755	1835	1915	0000	0000	2115	2155	2235	DEGS
RE	0.0	0.0	0.0	3.0	1.7	1.3	0.0	0.0	4.2	4.6	4.7	HHMM
L	0.0	0.0	0.0	6.3	100.0	6.8	0.0	0.0	4.6	4.7	4.8	RE
MLT	0.0	0.0	0.0	17.2	1.5	5.3	0.0	0.0	16.8	16.8	16.8	
MLAT	0.00	0.00	0.00	48.60	82.49	*****	0.00	0.00	*****	-3.83	5.98	HRS
INVLAT	0.0	0.0	0.0	66.5	84.9	67.3	0.0	0.0	62.2	62.4	62.7	DEGS



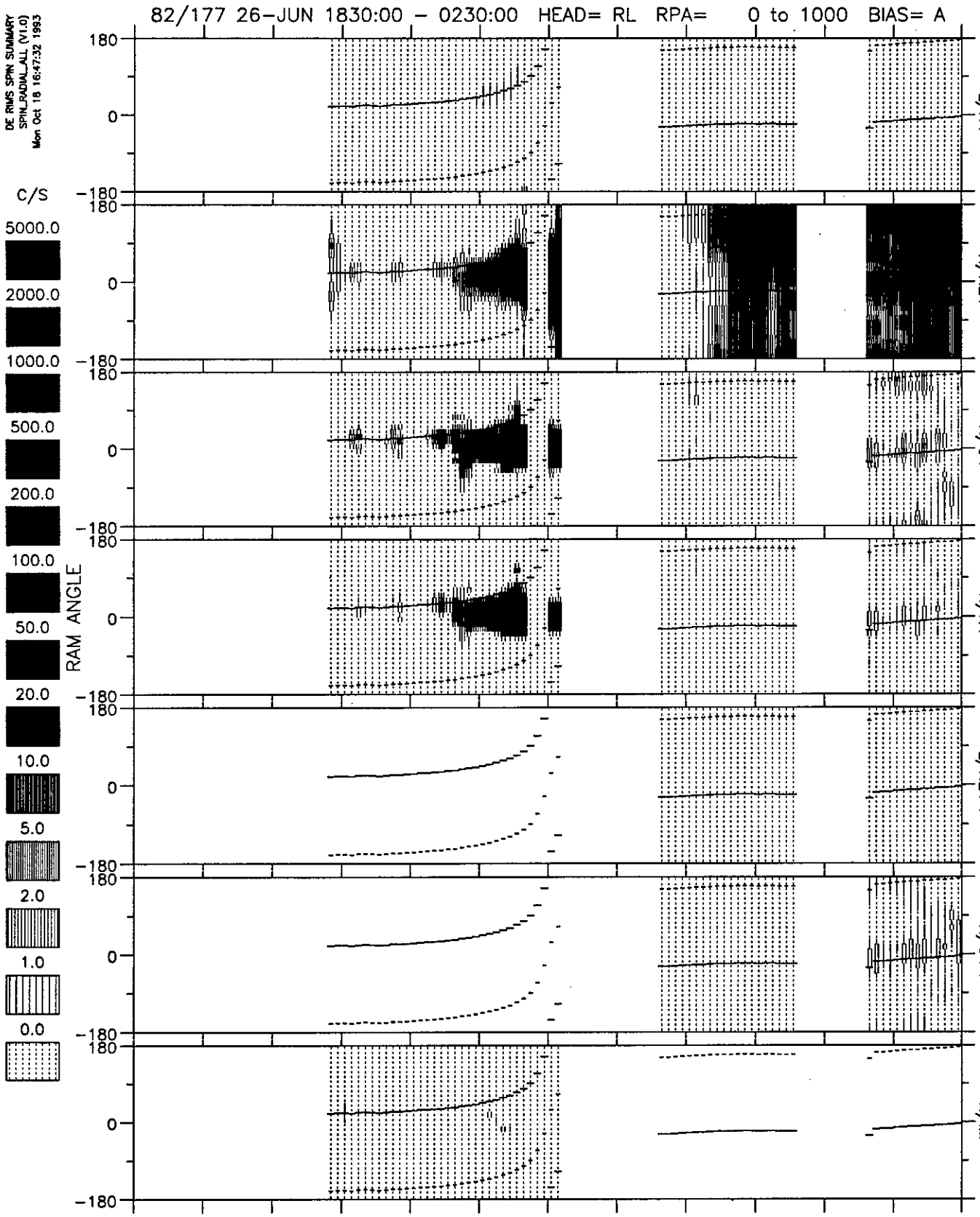
TIME	2240	2320	0000	0040	0000	0000	0000	0000	0000	0000	0520	DEGS
RE	4.7	4.4	4.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	4.7	HHMM
L	4.8	4.9	5.1	6.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	RE
MLT	16.8	16.6	16.5	16.1	0.0	0.0	0.0	0.0	0.0	0.0	16.5	
MLAT	7.15	16.91	28.17	44.07	0.00	0.00	0.00	0.00	0.00	0.00	*****	HRS
INVLAT	62.8	63.1	63.7	66.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0	DEGS



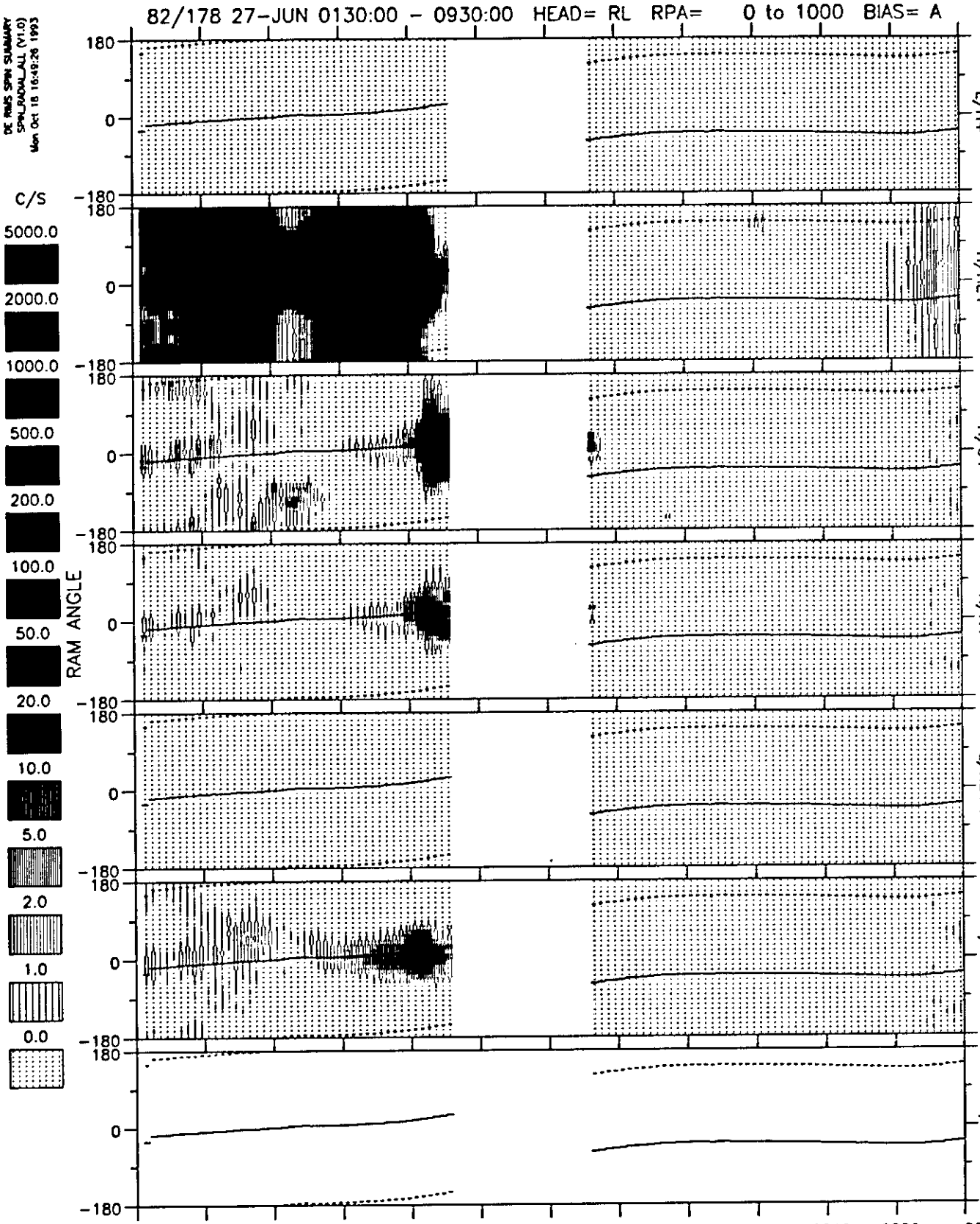
TIME	0540	0620	0700	0740	0820	0900	0940	1020	1100	1140	0000	DEGS
RE	4.6	4.4	3.8	2.9	1.7	1.4	2.7	3.7	4.3	4.6	0.0	HHMM
L	4.7	4.3	4.0	4.2	28.4	3.3	32.8	9.0	6.4	5.4	0.0	RE
MLT	16.4	16.3	16.1	16.0	15.7	4.2	15.7	15.8	15.8	15.9	0.0	
MLAT	*****	1.41	13.67	32.91	73.24	*****	*****	*****	*****	*****	0.00	HRS
INVLAT	62.4	61.1	59.9	60.7	79.2	56.4	79.9	70.5	66.7	64.5	0.0	DEGS



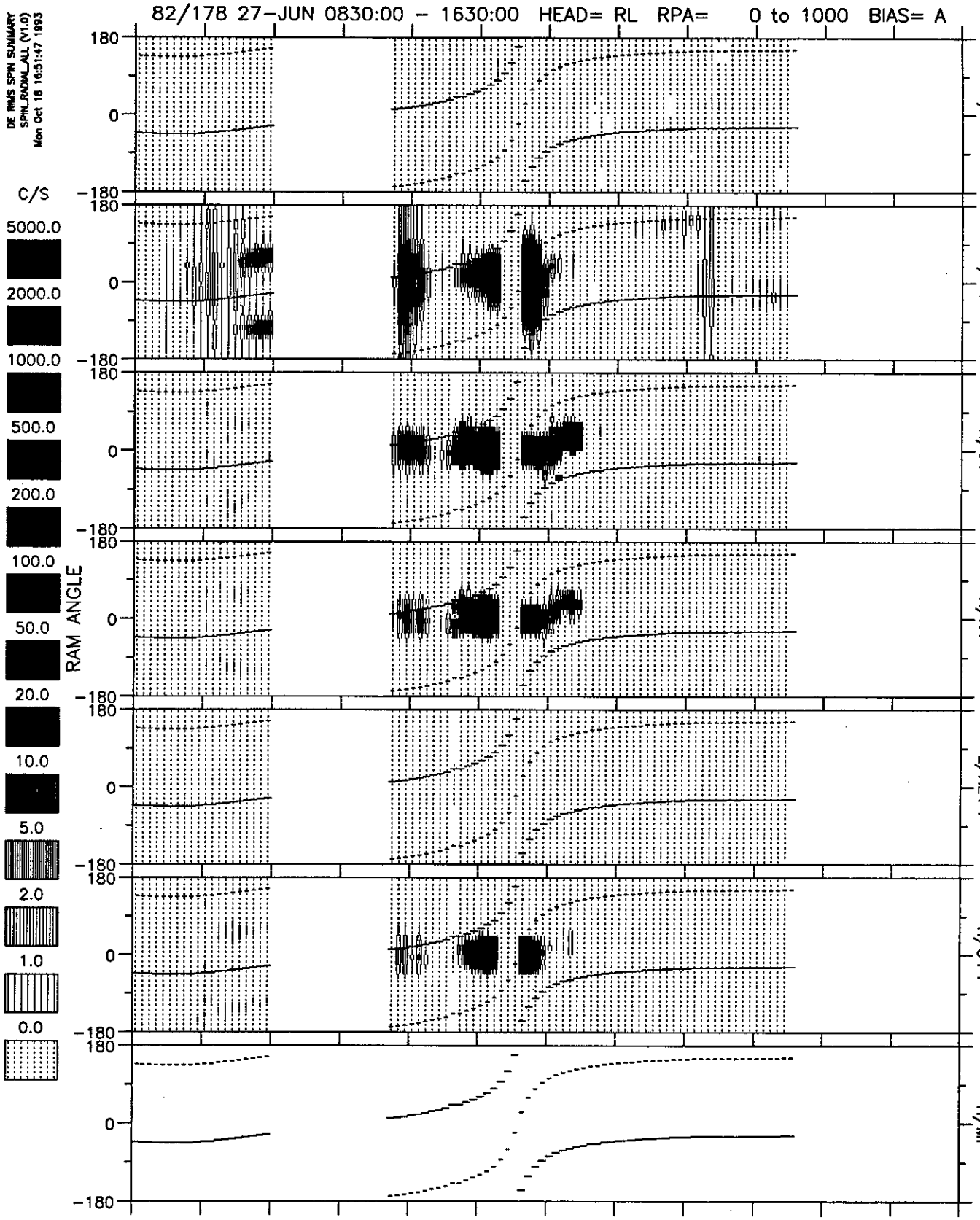
TIME	1255	1335	1415	1455	1535	1615	1655	0000	0000	0000	0000	DEGS
RE	4.5	4.1	3.3	2.2	1.1	2.3	3.4	0.0	0.0	0.0	0.0	HHMM
L	4.5	4.3	4.4	9.8	1.0	15.8	6.1	0.0	0.0	0.0	0.0	RE
MLT	16.1	16.3	16.6	17.8	4.3	14.3	15.8	0.0	0.0	0.0	0.0	
MLAT	-0.52	13.26	31.37	62.60	-2.33	•••••	•••••	0.00	0.00	0.00	0.00	HRS
INVLAT	61.9	61.0	61.6	71.3	12.5	75.4	66.0	0.0	0.0	0.0	0.0	DEGS



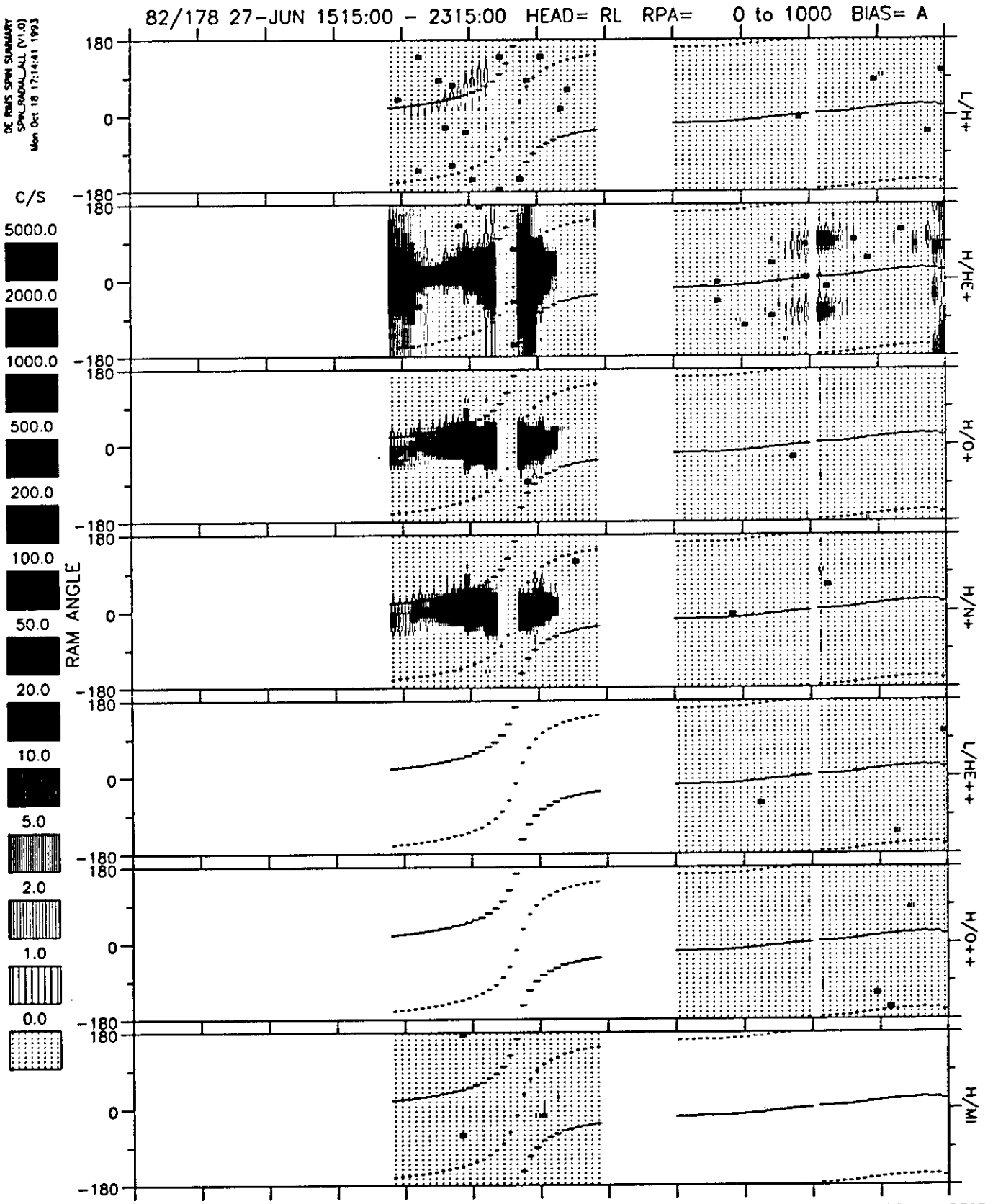
TIME	0000	0000	2030	2110	2150	2230	0000	2350	0030	0000	0150	DEGS
RE	0.0	0.0	4.0	3.2	2.0	1.1	0.0	3.5	4.2	0.0	4.7	HHMM
L	0.0	0.0	5.4	7.1	78.6	1.5	0.0	5.3	4.8	0.0	4.7	RE
MLT	0.0	0.0	16.8	16.7	15.6	4.6	0.0	17.1	16.9	0.0	16.6	
MLAT	0.00	0.00	30.49	48.00	81.53	*****	0.00	*****	*****	0.00	-3.42	HRS
INVLAT	0.0	0.0	64.5	68.0	83.5	34.5	0.0	64.2	63.0	0.0	62.4	DEGS



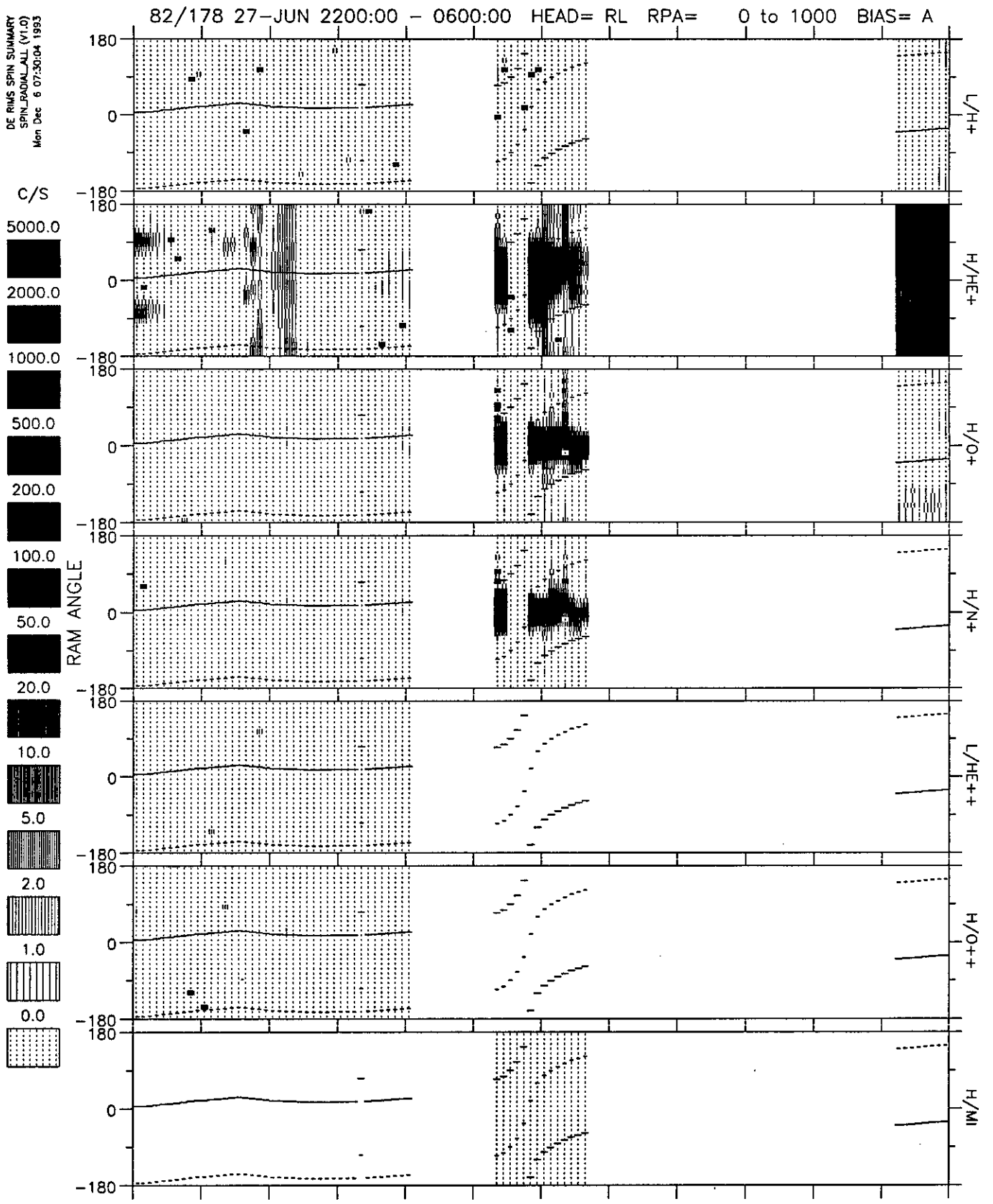
TIME	0210	0250	0330	0410	0000	0000	0610	0650	0730	0810	0850	DEGS
RE	4.6	4.4	3.8	3.0	0.0	0.0	2.7	3.7	4.2	4.6	4.7	HHMM
L	4.6	4.4	4.3	4.7	0.0	0.0	28.9	9.1	6.7	5.6	4.9	RE
MLT	16.5	16.4	16.1	15.8	0.0	0.0	17.7	16.7	16.4	16.2	16.1	
MLAT	0.71	9.53	20.57	37.76	0.00	0.00	*****	*****	*****	*****	*****	HRS
INVLAT	62.2	61.7	61.1	62.4	0.0	0.0	79.3	70.6	67.3	65.0	63.3	DEGS



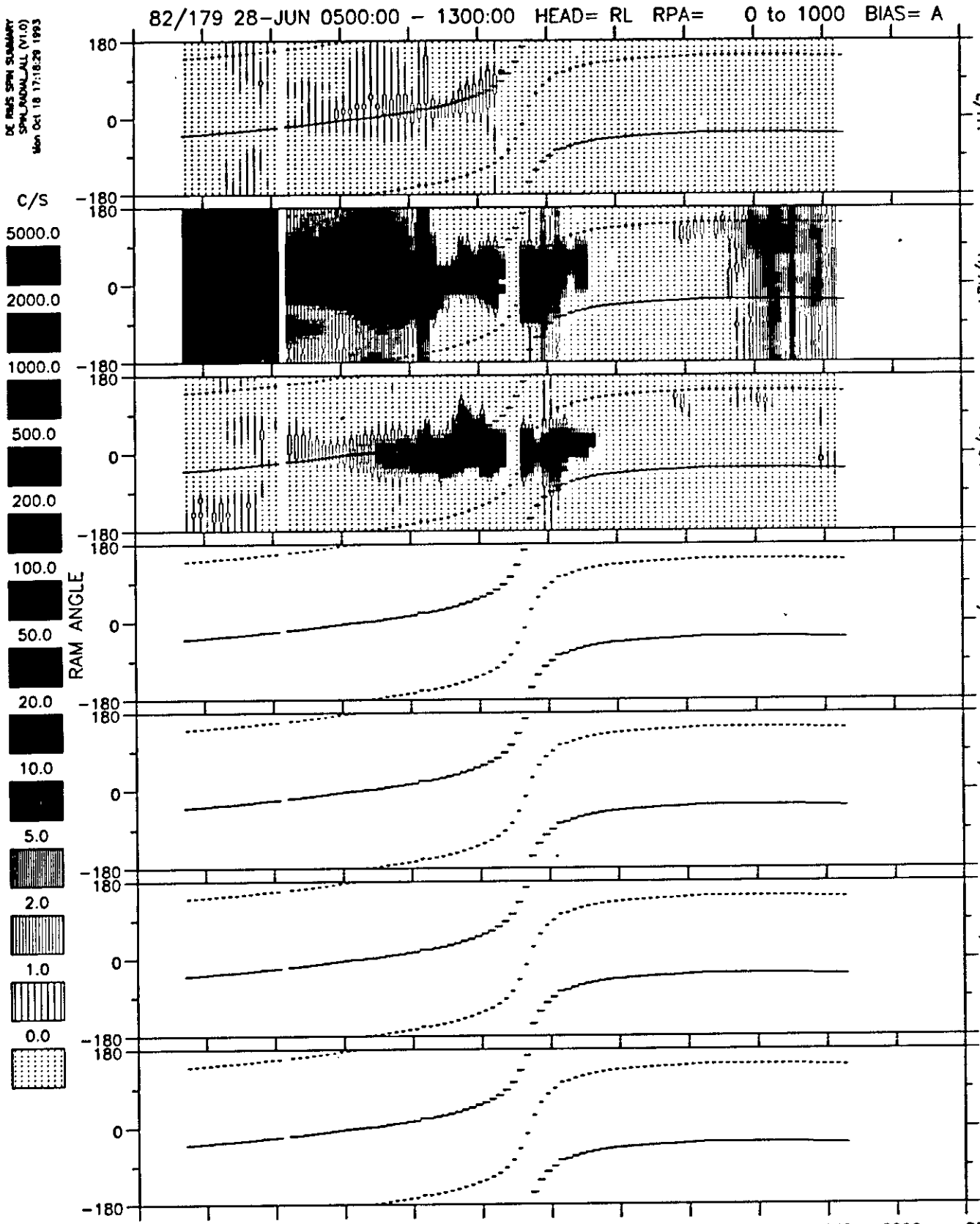
TIME	0910	0000	0000	1110	1150	1230	1310	1350	1430	0000	0000	DEGS
RE	4.6	0.0	0.0	2.7	1.4	1.7	2.9	3.8	4.4	0.0	0.0	HHMM
L	4.7	0.0	0.0	4.6	29.7	12.7	12.2	6.7	5.5	0.0	0.0	RE
MLT	16.1	0.0	0.0	16.4	1.6	5.8	14.8	15.4	15.8	0.0	0.0	
MLAT	*****	0.00	0.00	38.67	76.89	*****	*****	*****	*****	0.00	0.00	HRS
INVLAT	62.5	0.0	0.0	62.2	79.4	73.7	73.4	67.2	64.7	0.0	0.0	DEGS



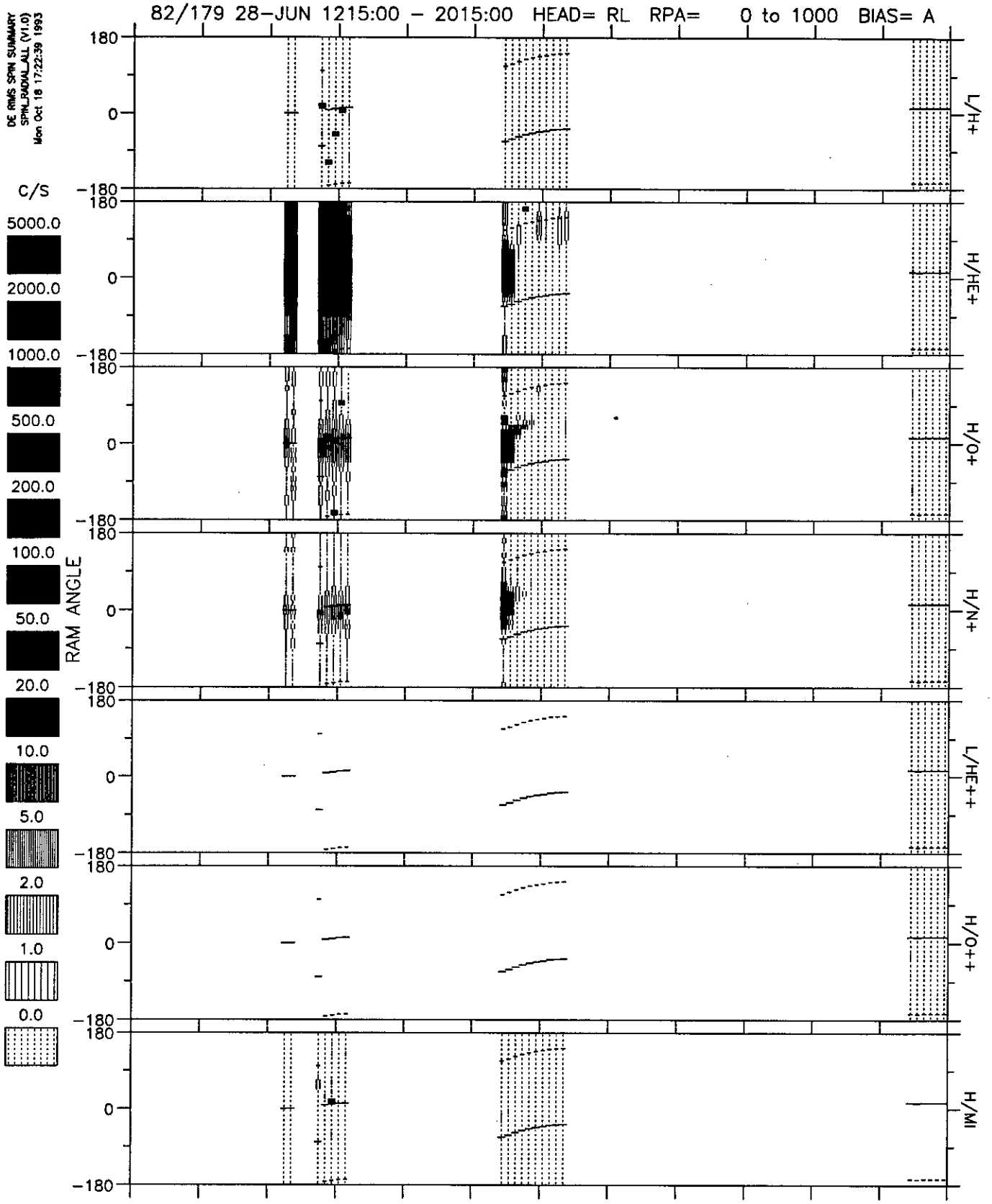
TIME	0000	0000	0000	1755	1835	1915	0000	2035	2115	0000	2235	DEGS
RE	0.0	0.0	0.0	2.9	1.6	1.5	0.0	3.7	4.3	0.0	4.7	HHMM
L	0.0	0.0	0.0	6.7	36.9	37.9	0.0	4.8	4.6	0.0	4.8	RE
MLT	0.0	0.0	0.0	17.1	2.7	5.8	0.0	16.6	16.7	0.0	16.6	
MLAT	0.00	0.00	0.00	51.58	75.44	•••••	0.00	•••••	•••••	0.00	6.49	HRS
INVLAT	0.0	0.0	0.0	67.3	80.5	80.6	0.0	62.8	62.3	0.0	62.7	DEGS



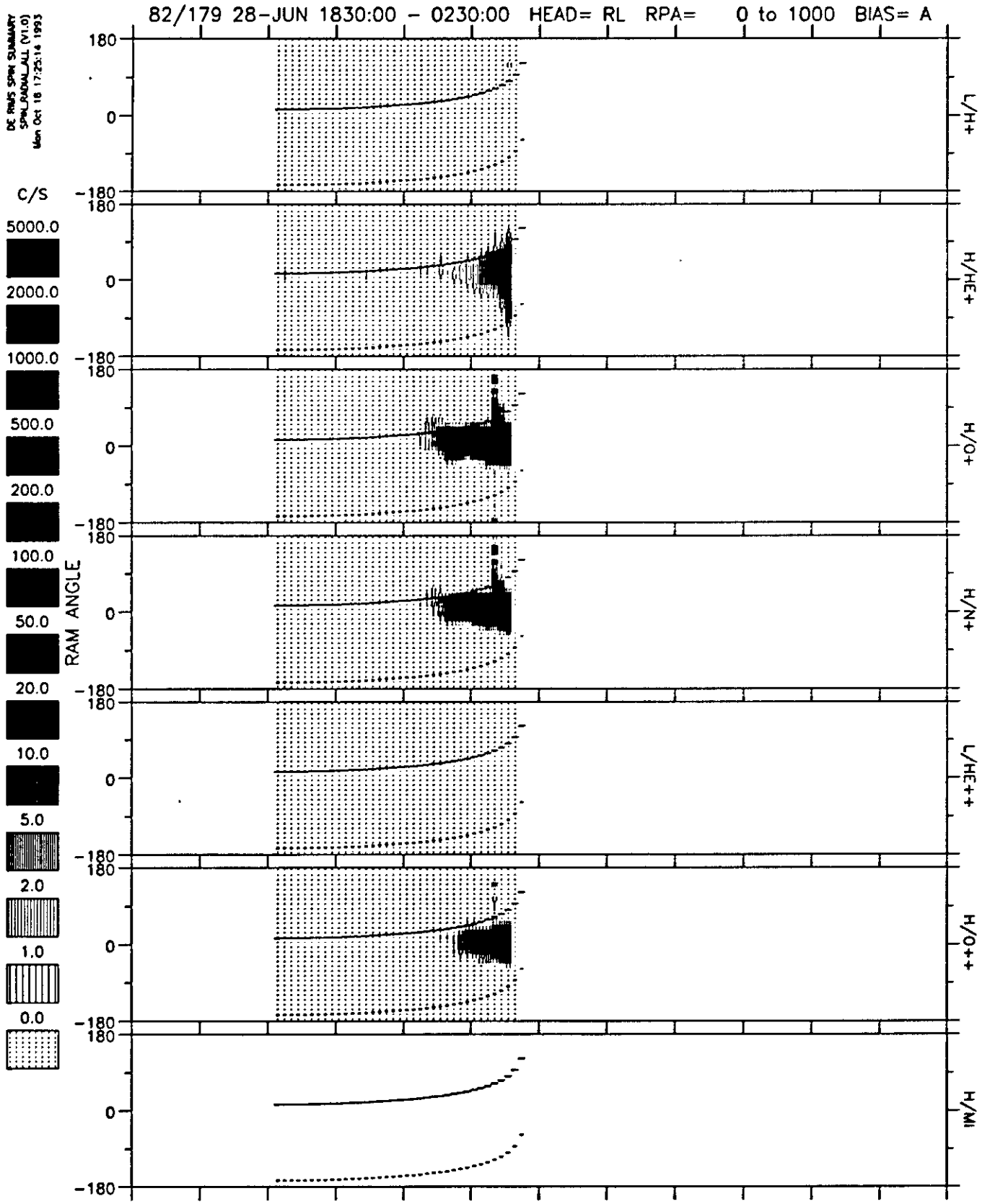
TIME	2240	2320	0000	0040	0000	0200	0000	0000	0000	0000	0000	HHMM
RE	4.6	4.4	3.9	3.1	0.0	1.3	0.0	0.0	0.0	0.0	0.0	RE
L	4.8	4.9	5.1	6.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	
MLT	16.6	16.5	16.3	15.9	0.0	3.6	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	7.70	17.53	29.14	44.39	0.00	*****	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	62.8	63.0	63.6	65.9	0.0	57.8	0.0	0.0	0.0	0.0	0.0	DEGS



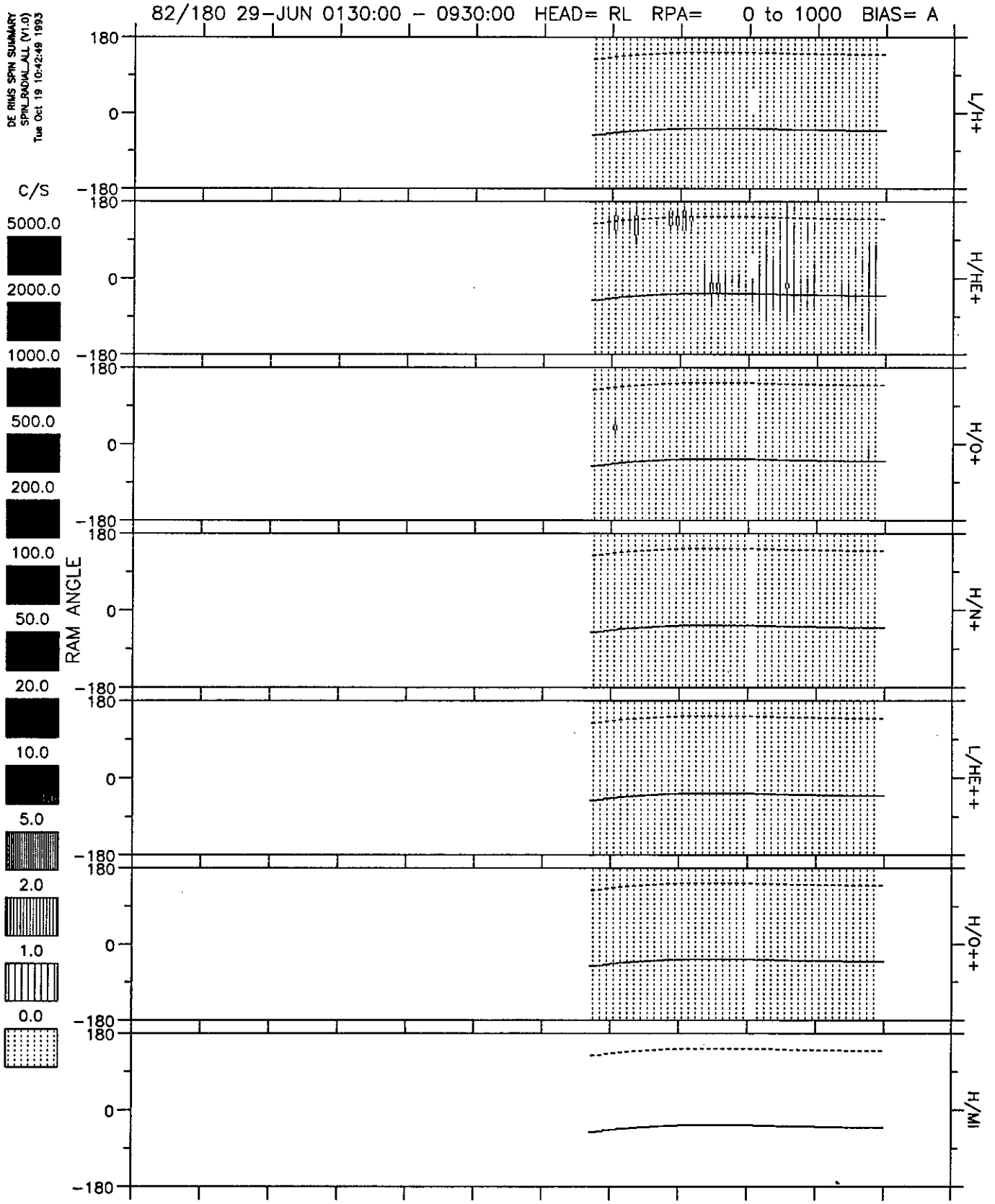
TIME	0540	0620	0700	0740	0820	0900	0940	1020	1100	1140	0000	DEGS
RE	4.6	4.3	3.7	2.8	1.4	1.6	2.9	3.8	4.3	4.6	0.0	HHMM
L	4.6	4.2	3.9	4.3	100.0	5.7	24.6	8.6	6.3	5.3	0.0	RE
MLT	16.3	16.1	16.0	15.9	7.8	4.1	15.5	15.6	15.7	15.8	0.0	
MLAT	-7.71	1.89	14.93	35.54	87.94	*****	*****	*****	*****	*****	0.00	HRS
INVLAT	62.3	60.9	59.7	61.1	86.2	65.2	78.4	70.1	66.5	64.4	0.0	DEGS



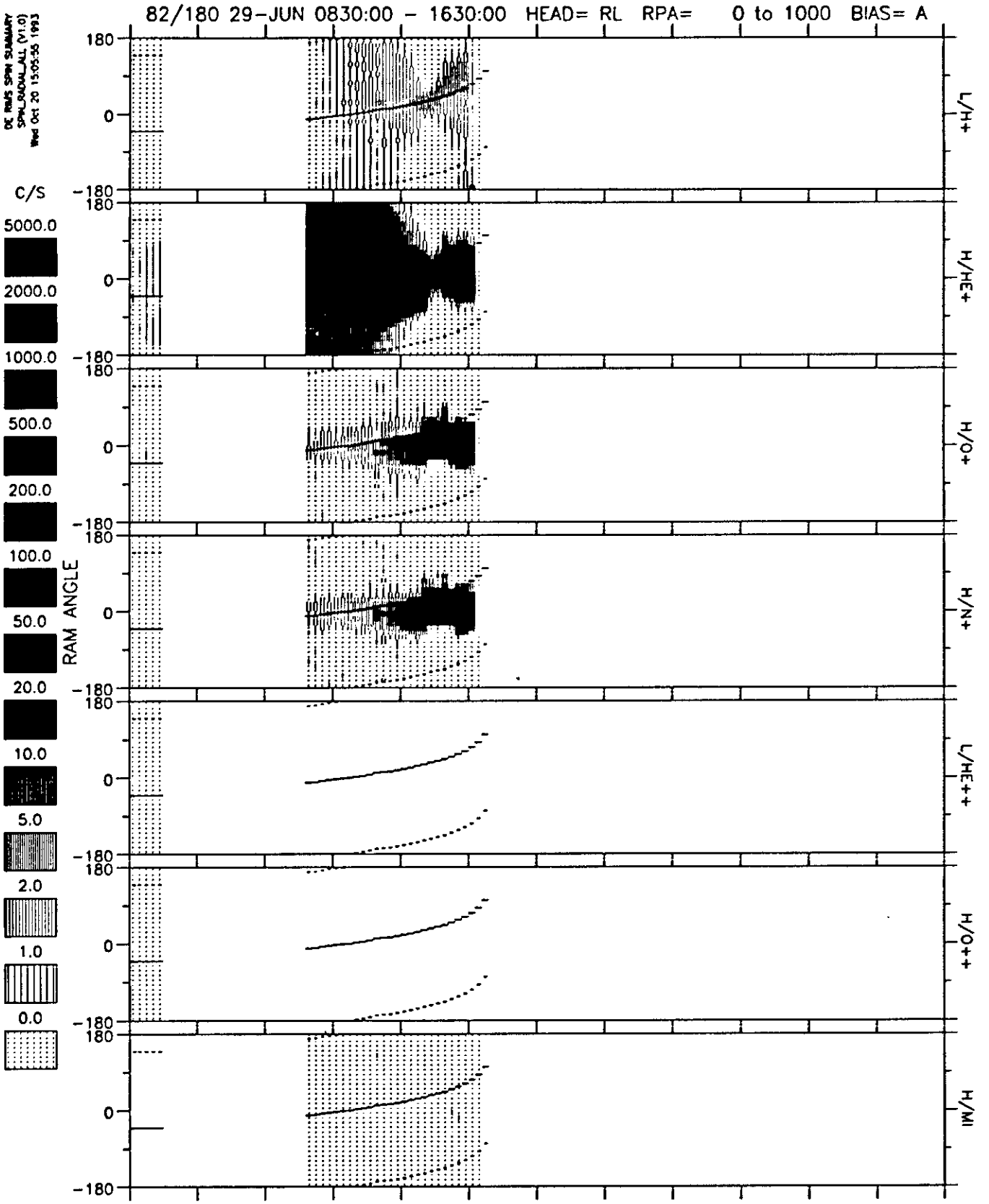
TIME	0000	0000	1415	0000	0000	1615	0000	0000	0000	0000	0000	DEGS
RE	0.0	0.0	3.2	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	4.5	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	16.5	0.0	0.0	14.6	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	33.84	0.00	0.00	*****	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	61.8	0.0	0.0	73.6	0.0	0.0	0.0	0.0	0.0	DEGS

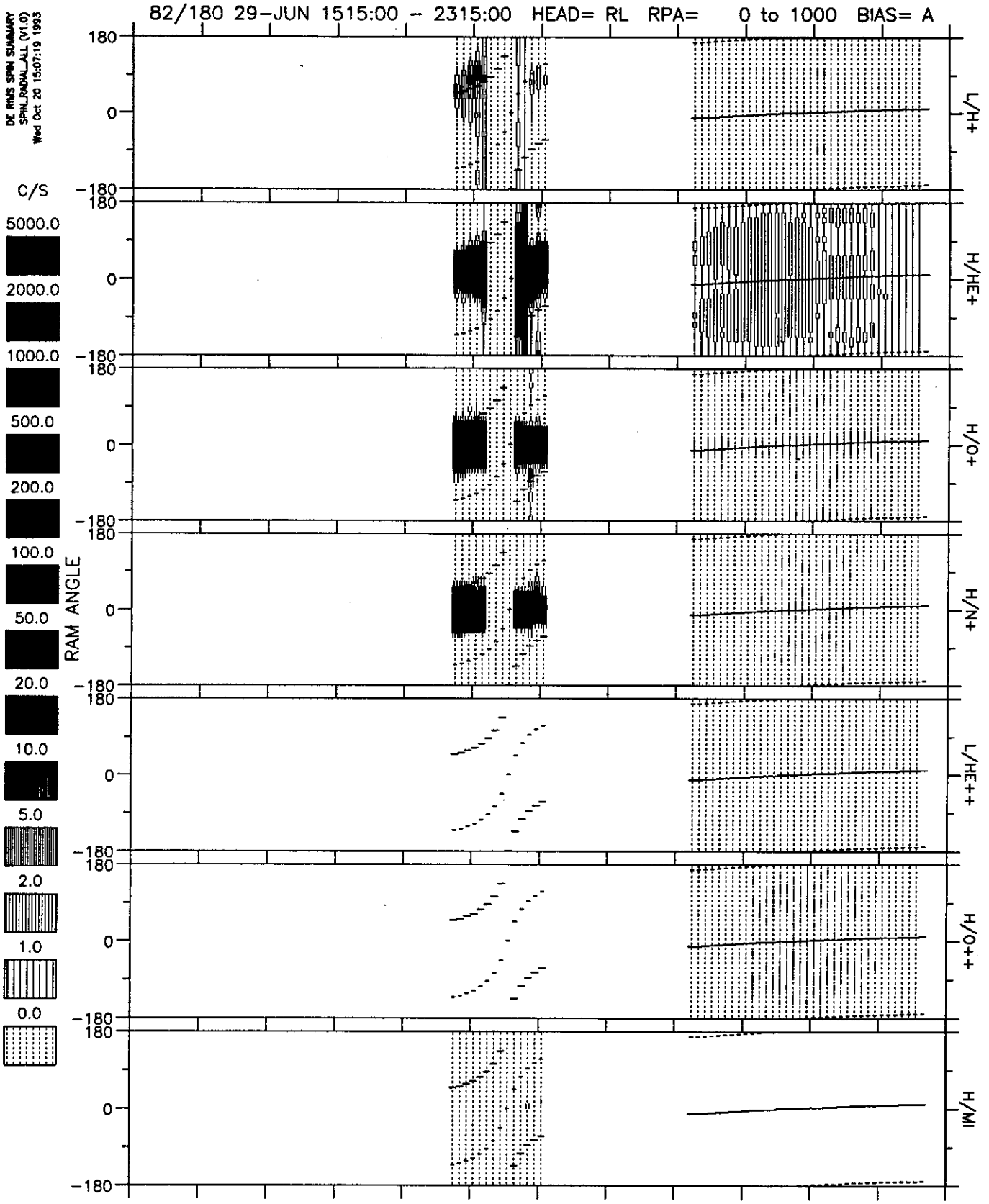


TIME	0000	0000	2030	2110	2150	0000	0000	0000	0000	0000	0000	DEGS
RE	0.0	0.0	3.9	3.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	HHMM
L	0.0	0.0	5.4	7.5	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
MLT	0.0	0.0	16.6	16.5	11.6	0.0	0.0	0.0	0.0	0.0	0.0	
MLAT	0.00	0.00	31.77	50.33	87.13	0.00	0.00	0.00	0.00	0.00	0.00	HRS
INVLAT	0.0	0.0	64.6	68.6	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

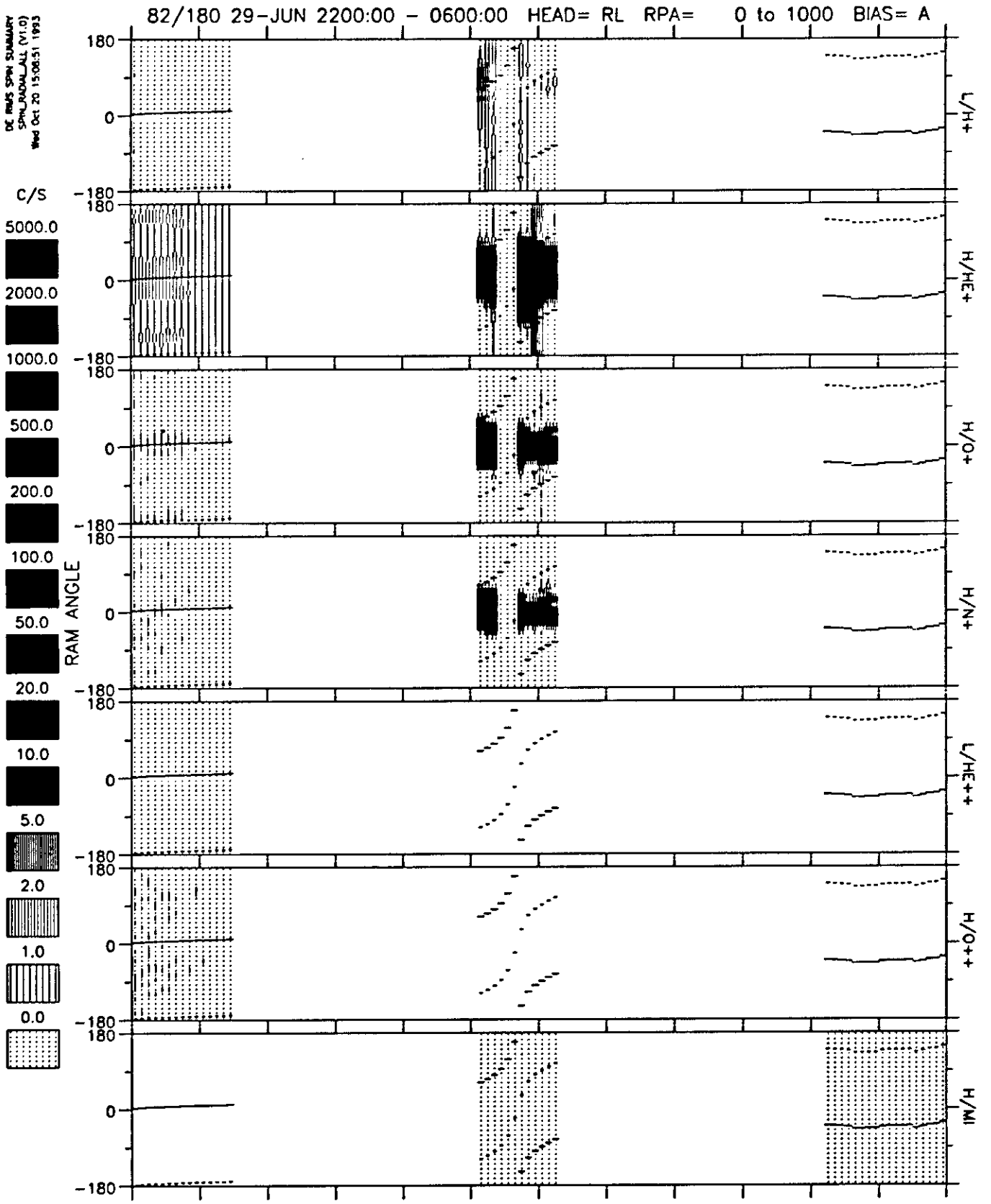


TIME	0000	0000	0000	0000	0000	0000	0610	0650	0730	0810	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	2.8	3.8	4.3	4.6	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	22.2	8.8	6.7	5.6	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	17.3	16.5	16.2	16.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	77.8	70.3	67.3	64.9	0.0	DEGS

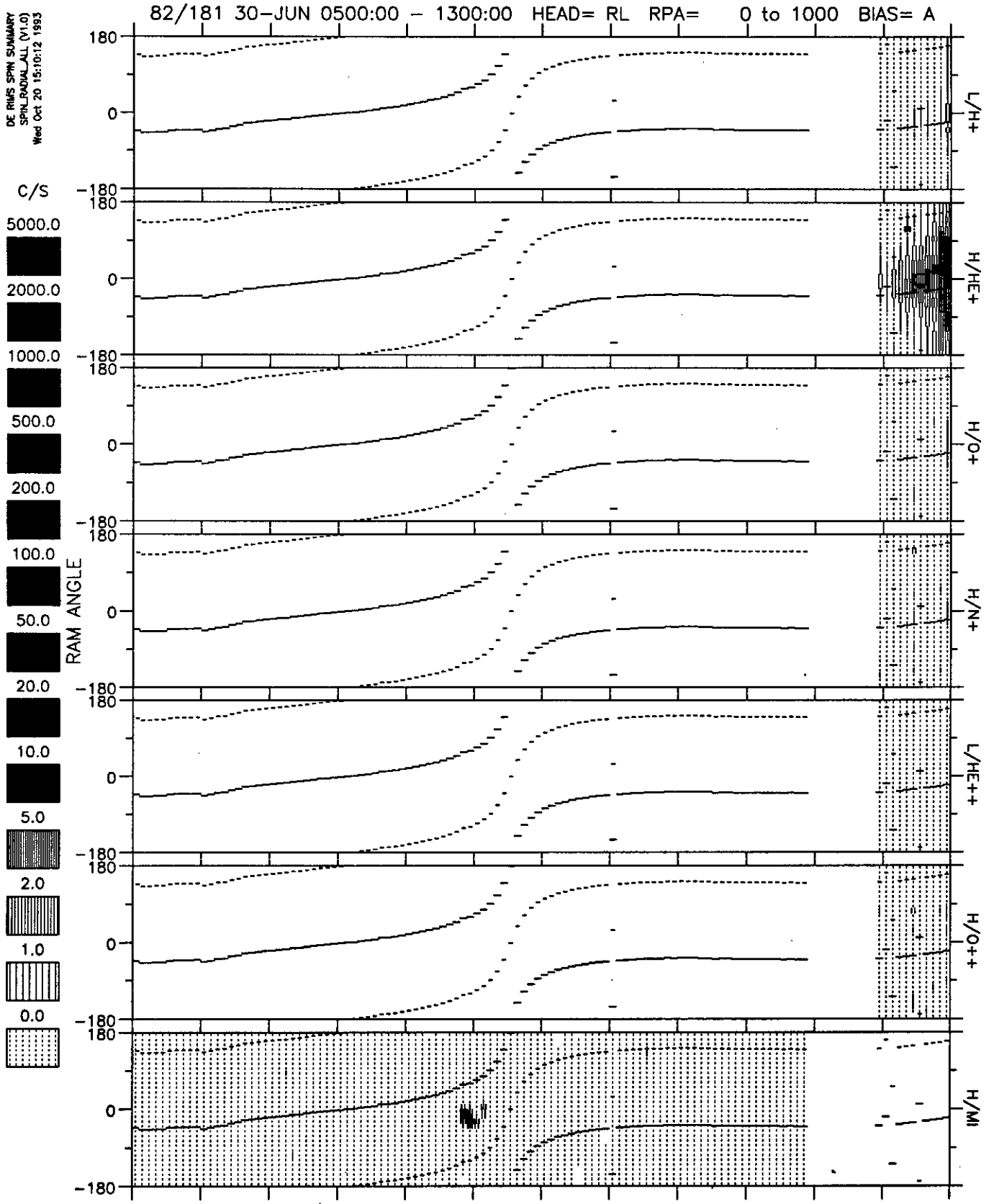

82/180 29-JUN 0830:00 - 1630:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RIMS SPW SUMMARY
SPW_RADIAL_ALL (V1.0)
Wed Oct 20 15:05:55 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 0000 0000 1030 1110 1150 0000 0000 0000 0000 0000 0000 HHMM
RE 0.0 0.0 3.6 2.5 1.2 0.0 0.0 0.0 0.0 0.0 0.0 RE
L 0.0 0.0 3.9 4.9 5.4 0.0 0.0 0.0 0.0 0.0 0.0
MLT 0.0 0.0 16.0 16.3 2.9 0.0 0.0 0.0 0.0 0.0 0.0 HRS
MLAT 0.00 0.00 17.28 42.38 61.32 0.00 0.00 0.00 0.00 0.00 0.00 DEGS
INVLAT 0.0 0.0 59.6 63.1 64.5 0.0 0.0 0.0 0.0 0.0 0.0 DEGS



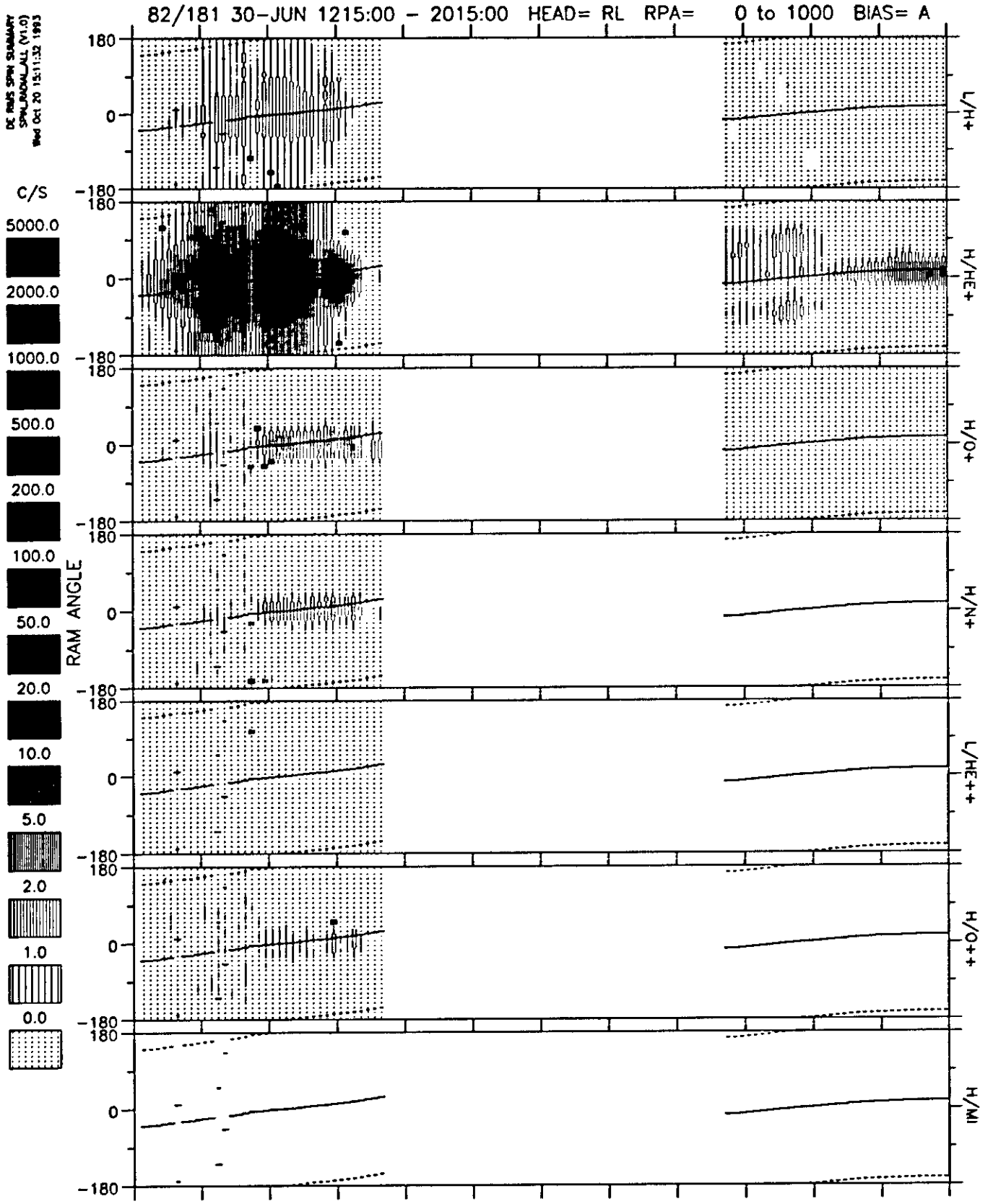
TIME	0000	0000	0000	0000	1835	1915	0000	0000	2115	2155	2235	HHMM
RE	0.0	0.0	0.0	0.0	1.4	1.7	0.0	0.0	4.4	4.6	4.6	RE
L	0.0	0.0	0.0	0.0	8.2	100.0	0.0	0.0	4.7	4.7	4.8	
MLT	0.0	0.0	0.0	0.0	3.5	8.6	0.0	0.0	16.5	16.5	16.5	HRS
MLAT	0.00	0.00	0.00	0.00	62.93	*****	0.00	0.00	*****	-2.61	7.01	DEGS
INVLAT	0.0	0.0	0.0	0.0	69.6	87.2	0.0	0.0	62.4	62.5	62.7	DEGS



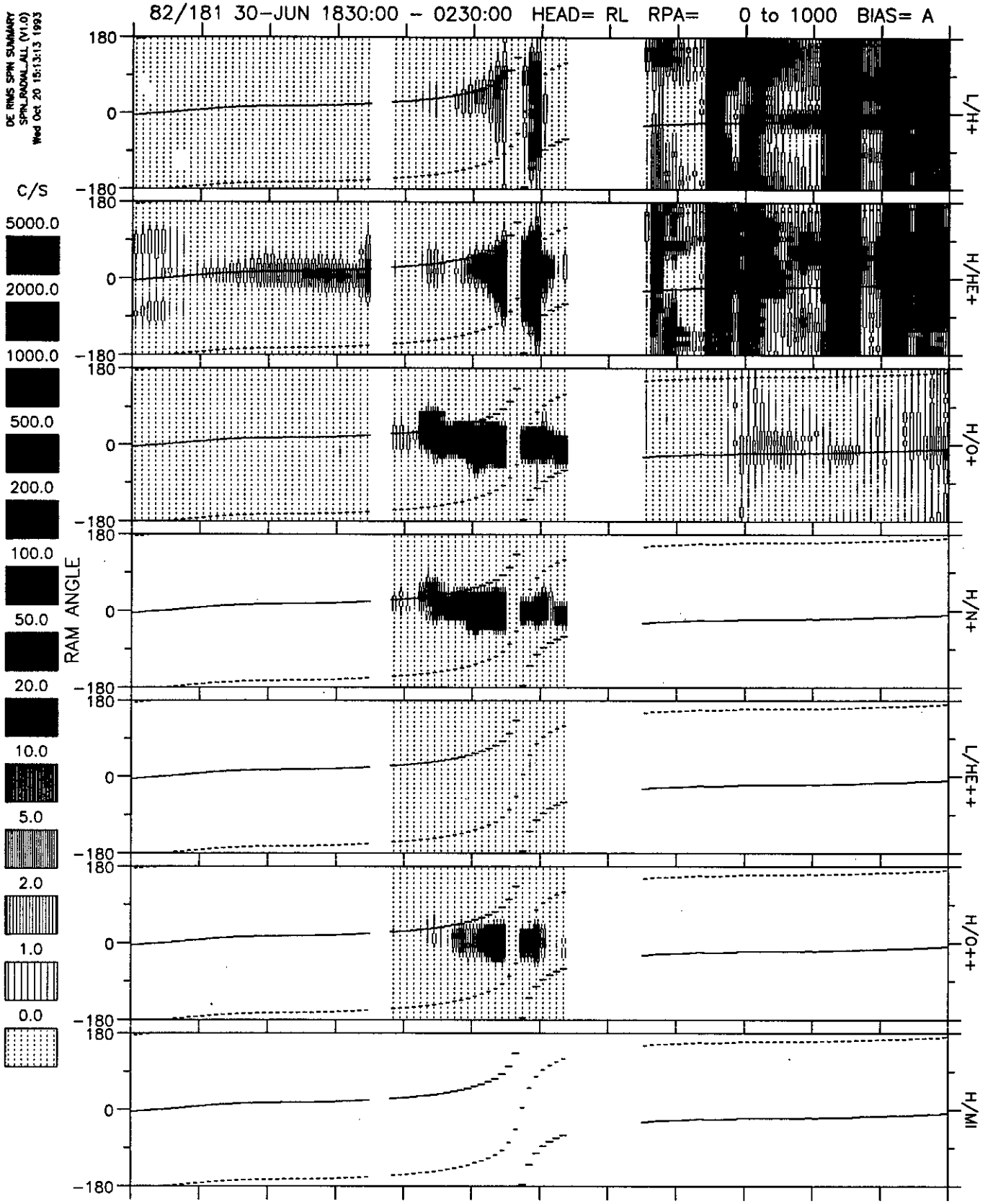
TIME	2240	0000	0000	0000	0000	0200	0000	0000	0000	0000	0520	HHMM
RE	4.6	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	4.7	RE
L	4.8	0.0	0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	4.8	
MLT	16.5	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	16.2	HRS
MLAT	8.22	0.00	0.00	0.00	0.00	*****	0.00	0.00	0.00	0.00	*****	DEGS
INVLAT	62.7	0.0	0.0	0.0	0.0	68.1	0.0	0.0	0.0	0.0	62.9	DEGS



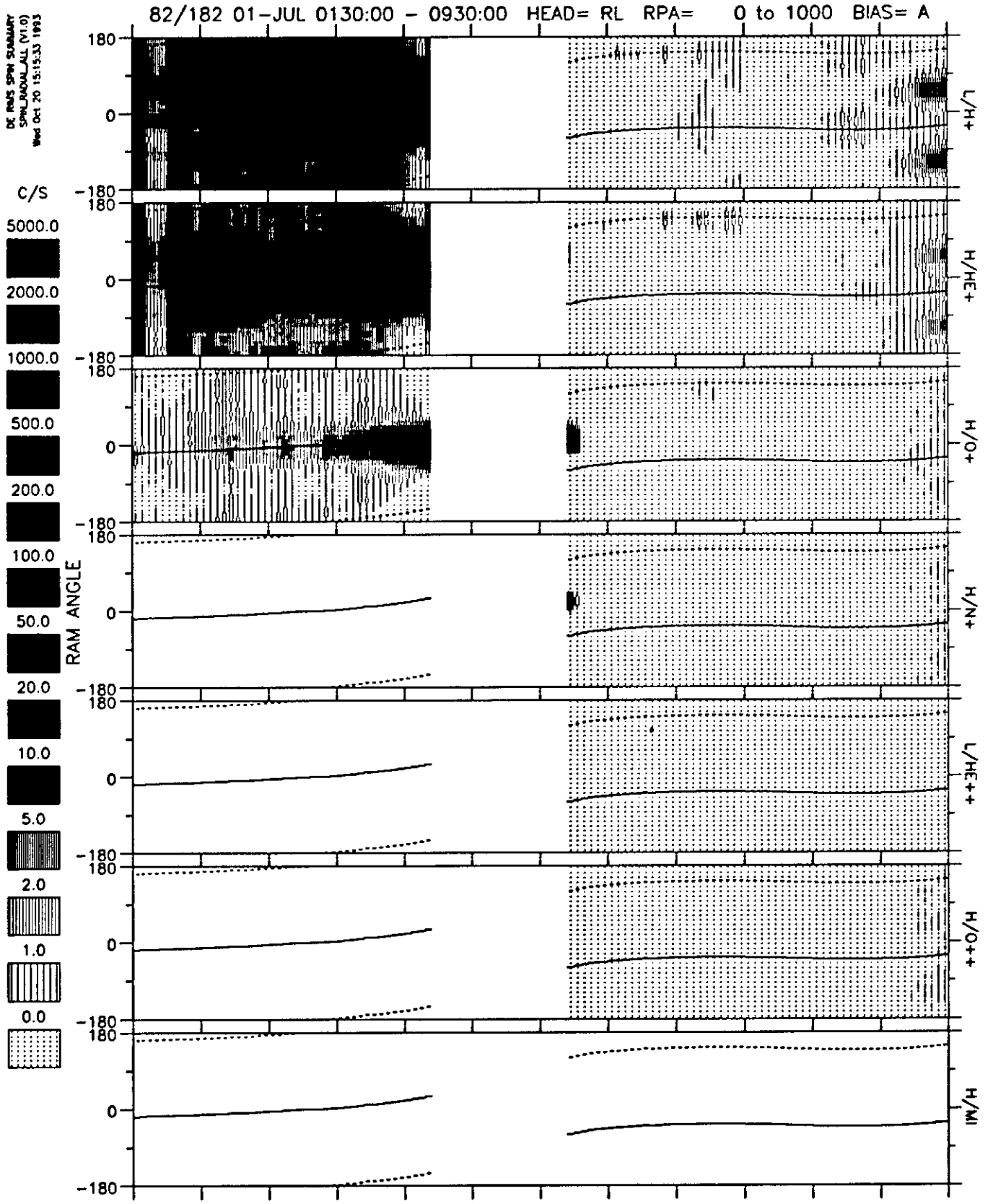
TIME	0540	0620	0700	0740	0820	0900	0940	1020	1100	0000	1220	HHMM
RE	4.6	4.2	3.6	2.6	1.3	1.8	3.0	3.9	4.4	0.0	4.6	RE
L	4.6	4.2	3.9	4.5	12.3	15.9	19.8	8.3	6.2	0.0	4.8	
MLT	16.1	16.0	15.9	15.8	4.1	4.1	15.4	15.5	15.5	0.0	15.7	HRS
MLAT	-7.30	2.78	16.27	39.14	72.92	*****	*****	*****	*****	0.00	-9.16	DEGS
INVLAT	62.2	60.7	59.4	61.8	73.5	75.4	77.0	69.7	66.4	0.0	62.7	DEGS



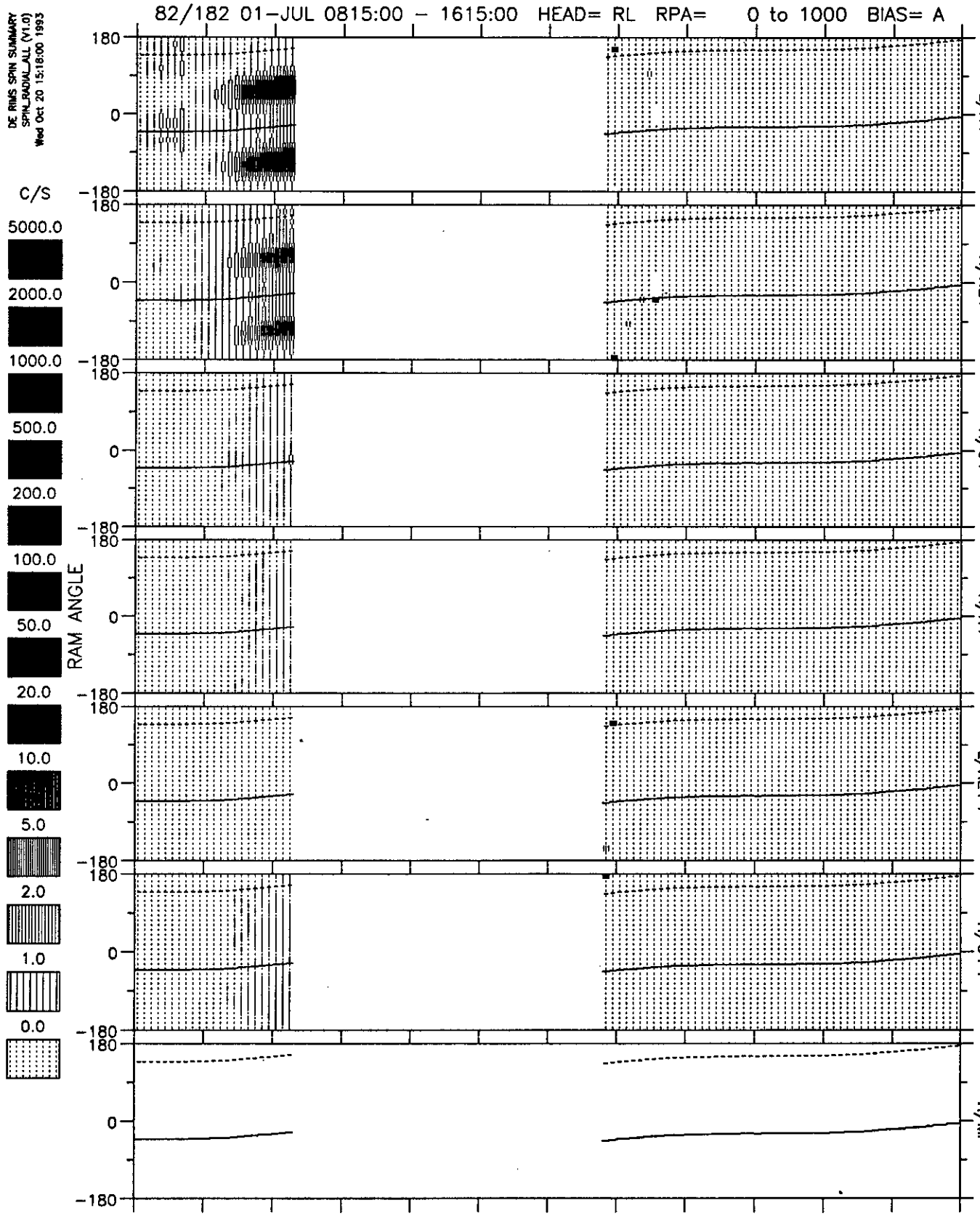
TIME	1255	1335	1415	0000	0000	0000	0000	0000	1815	1855	1935	HHMM
RE	4.4	3.9	3.0	0.0	0.0	0.0	0.0	0.0	4.6	4.7	4.5	RE
L	4.4	4.2	4.6	0.0	0.0	0.0	0.0	0.0	4.8	4.8	4.9	
MLT	15.9	16.1	16.5	0.0	0.0	0.0	0.0	0.0	16.2	16.4	16.4	HRS
MLAT	1.74	16.32	36.49	0.00	0.00	0.00	0.00	0.00	-7.93	3.55	14.91	DEGS
INVLAT	61.6	60.8	62.1	0.0	0.0	0.0	0.0	0.0	62.8	62.7	63.1	DEGS



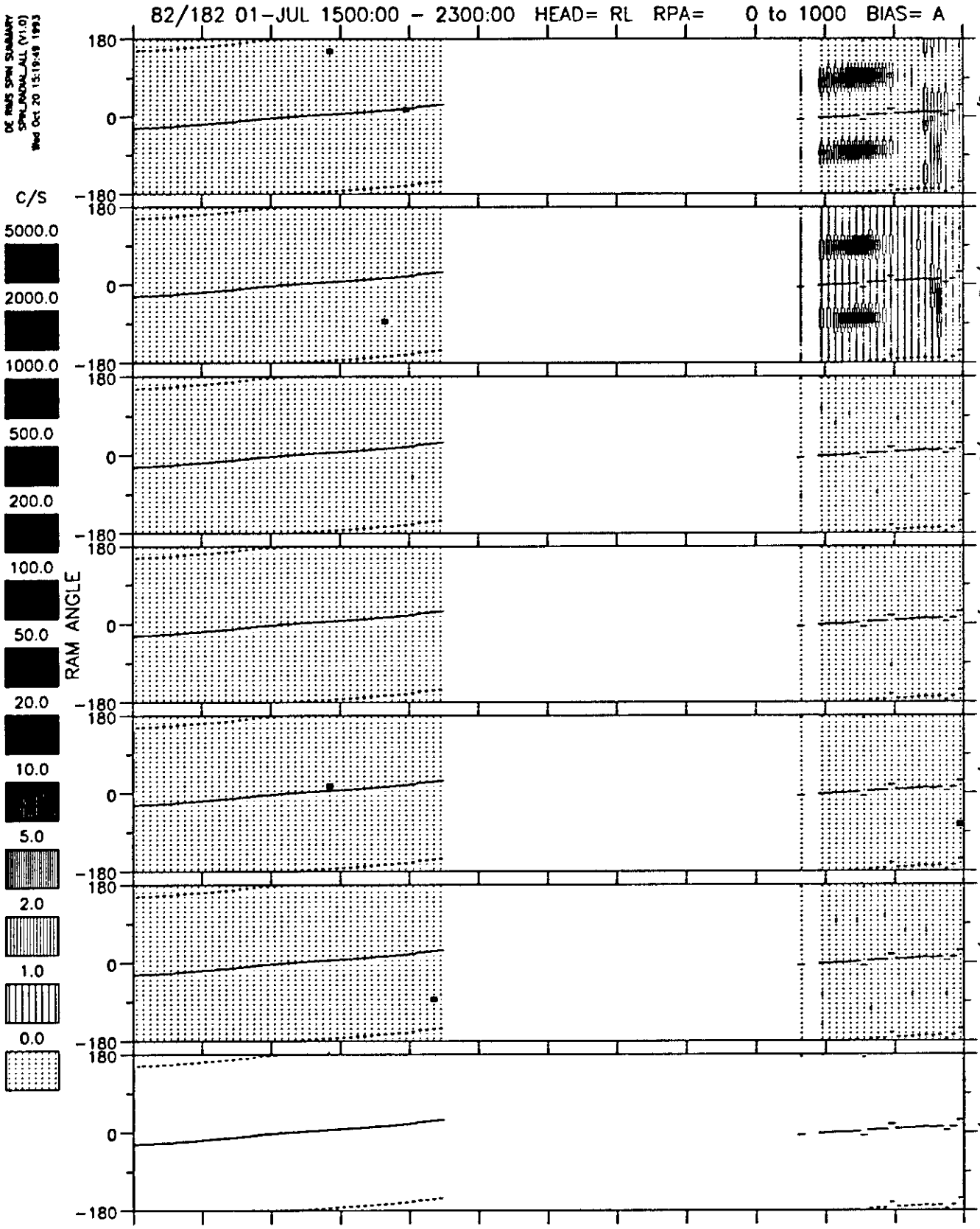
TIME	1910	1950	2030	2110	2150	2230	0000	2350	0030	0110	0150	HHMM
RE	4.6	4.4	3.8	2.9	1.6	1.4	0.0	3.7	4.3	4.6	4.7	RE
L	4.8	5.0	5.5	8.0	100.0	10.2	0.0	5.2	4.9	4.8	4.7	
MLT	16.4	16.5	16.5	16.3	5.9	3.6	0.0	16.8	16.6	16.5	16.3	HRS
MLAT	7.76	19.41	33.10	52.91	81.30	*****	0.00	*****	*****	*****	-2.82	DEGS
INVLAT	62.8	63.3	64.7	69.3	85.0	71.7	0.0	64.1	63.2	62.8	62.4	DEGS



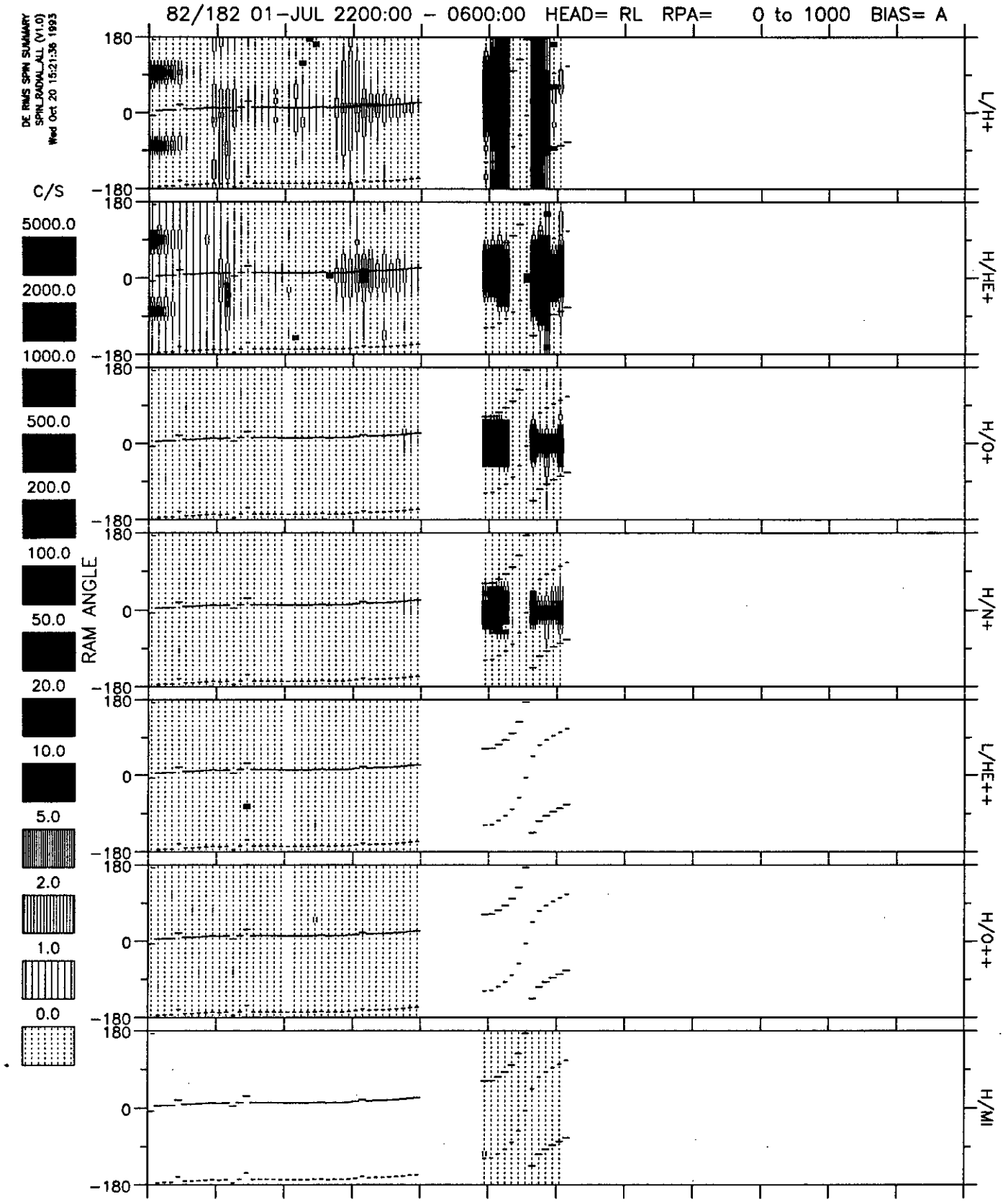
TIME	0210	0250	0330	0410	0000	0000	0610	0650	0730	0810	0850	HHMM
RE	4.6	4.3	3.6	2.7	0.0	0.0	3.0	3.8	4.4	4.6	4.6	RE
L	4.6	4.3	4.2	5.0	0.0	0.0	18.9	8.6	6.5	5.5	4.9	
MLT	16.2	16.0	15.8	15.4	0.0	0.0	17.0	16.3	16.0	15.9	15.8	HRS
MLAT	1.35	10.54	22.62	43.04	0.00	0.00	*****	*****	*****	*****	*****	DEGS
INVLAT	62.1	61.4	60.8	63.3	0.0	0.0	76.7	70.1	67.0	64.8	63.0	DEGS



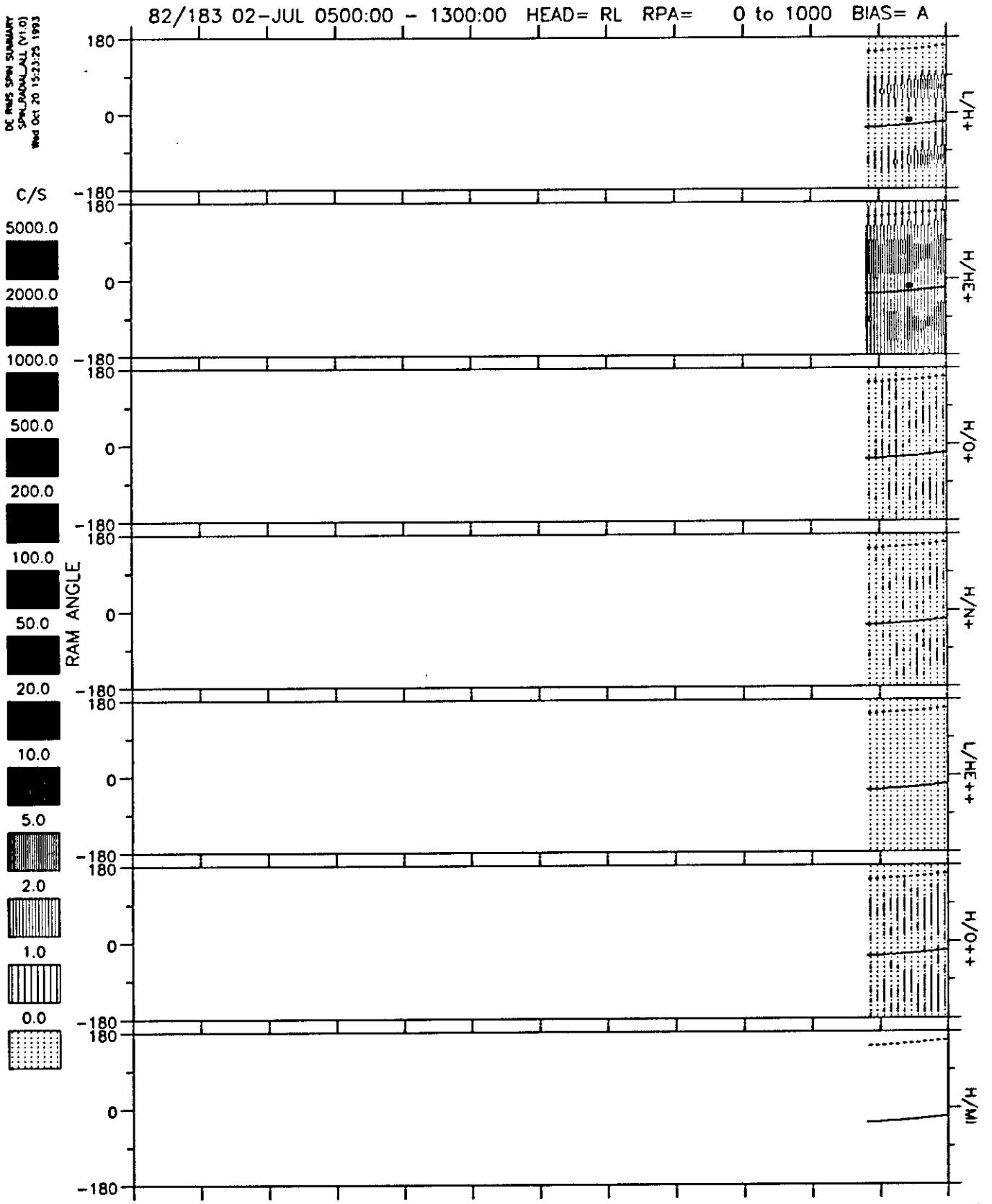
TIME	0855	0935	0000	0000	0000	0000	1255	1335	1415	1455	1535	HHMM
RE	4.6	4.3	0.0	0.0	0.0	0.0	2.8	3.7	4.3	4.6	4.7	RE
L	4.8	4.3	0.0	0.0	0.0	0.0	15.2	7.1	5.7	5.1	4.7	
MLT	15.8	15.8	0.0	0.0	0.0	0.0	14.3	15.1	15.4	15.7	15.9	HRS
MLAT	*****	-1.89	0.00	0.00	0.00	0.00	*****	*****	*****	*****	-2.13	DEGS
INVLAT	62.8	61.0	0.0	0.0	0.0	0.0	75.2	68.0	65.1	63.6	62.7	DEGS



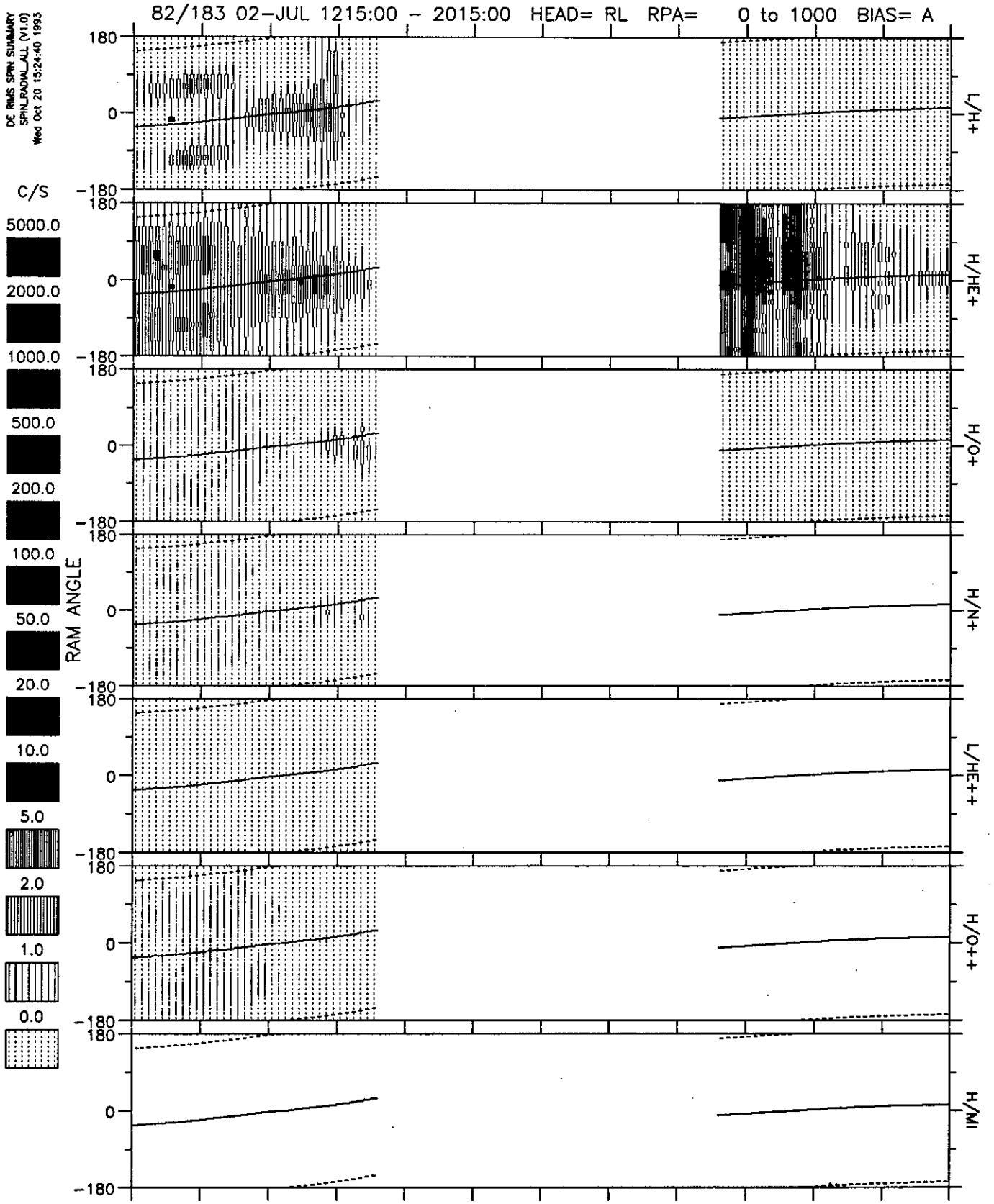
TIME	1540	1620	1700	1740	0000	0000	0000	0000	0000	2140	2220	HHMM
RE	4.6	4.4	3.8	3.0	0.0	0.0	0.0	0.0	0.0	4.6	4.7	RE
L	4.7	4.6	4.7	5.8	0.0	0.0	0.0	0.0	0.0	4.7	4.7	
MLT	15.9	16.1	16.4	16.7	0.0	0.0	0.0	0.0	0.0	16.4	16.4	HRS
MLAT	-0.59	12.06	26.82	45.78	0.00	0.00	0.00	0.00	0.00	-5.77	3.97	DEGS
INVLAT	62.6	62.2	62.6	65.5	0.0	0.0	0.0	0.0	0.0	62.5	62.6	DEGS



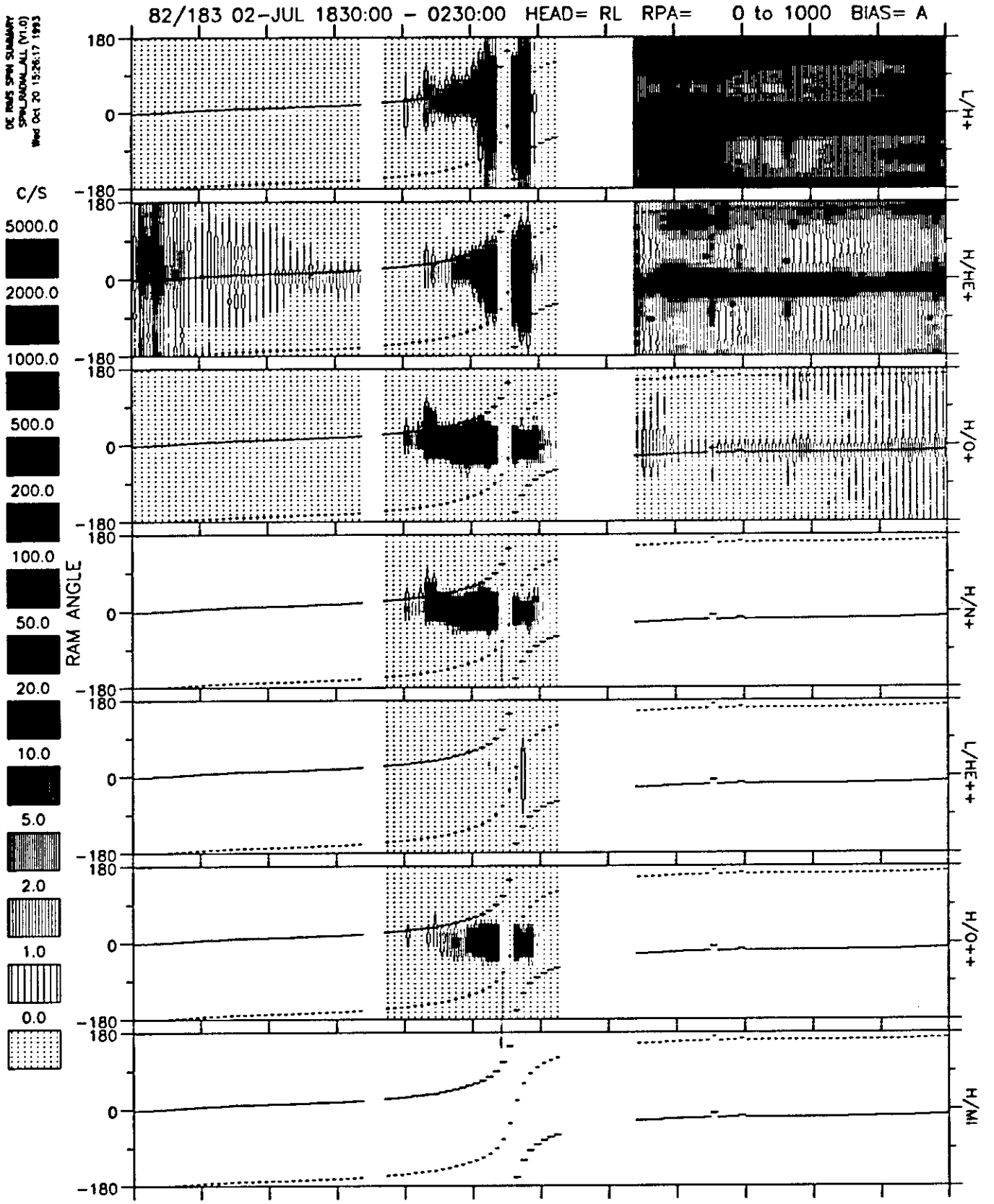
TIME	2240	2320	0000	0000	0120	0200	0000	0000	0000	0000	0000	HHMM
RE	4.6	4.3	3.7	0.0	1.4	1.6	0.0	0.0	0.0	0.0	0.0	RE
L	4.8	4.8	5.0	0.0	11.9	14.9	0.0	0.0	0.0	0.0	0.0	
MLT	16.3	16.2	16.0	0.0	6.2	1.6	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	8.73	18.80	31.27	0.00	68.57	*****	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	62.7	62.8	63.5	0.0	73.1	75.0	0.0	0.0	0.0	0.0	0.0	DEGS



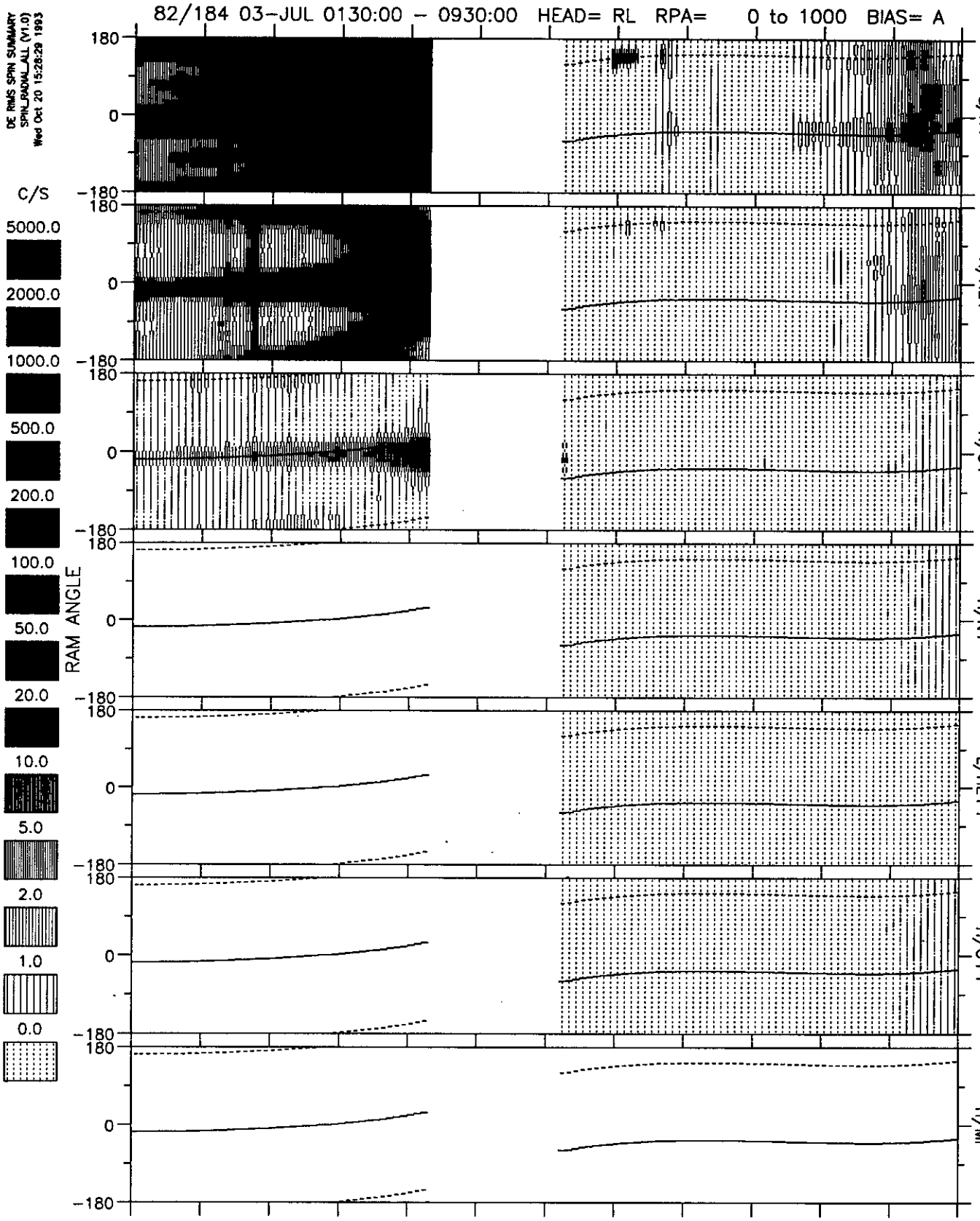
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	1220	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-8.16	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.6	DEGS



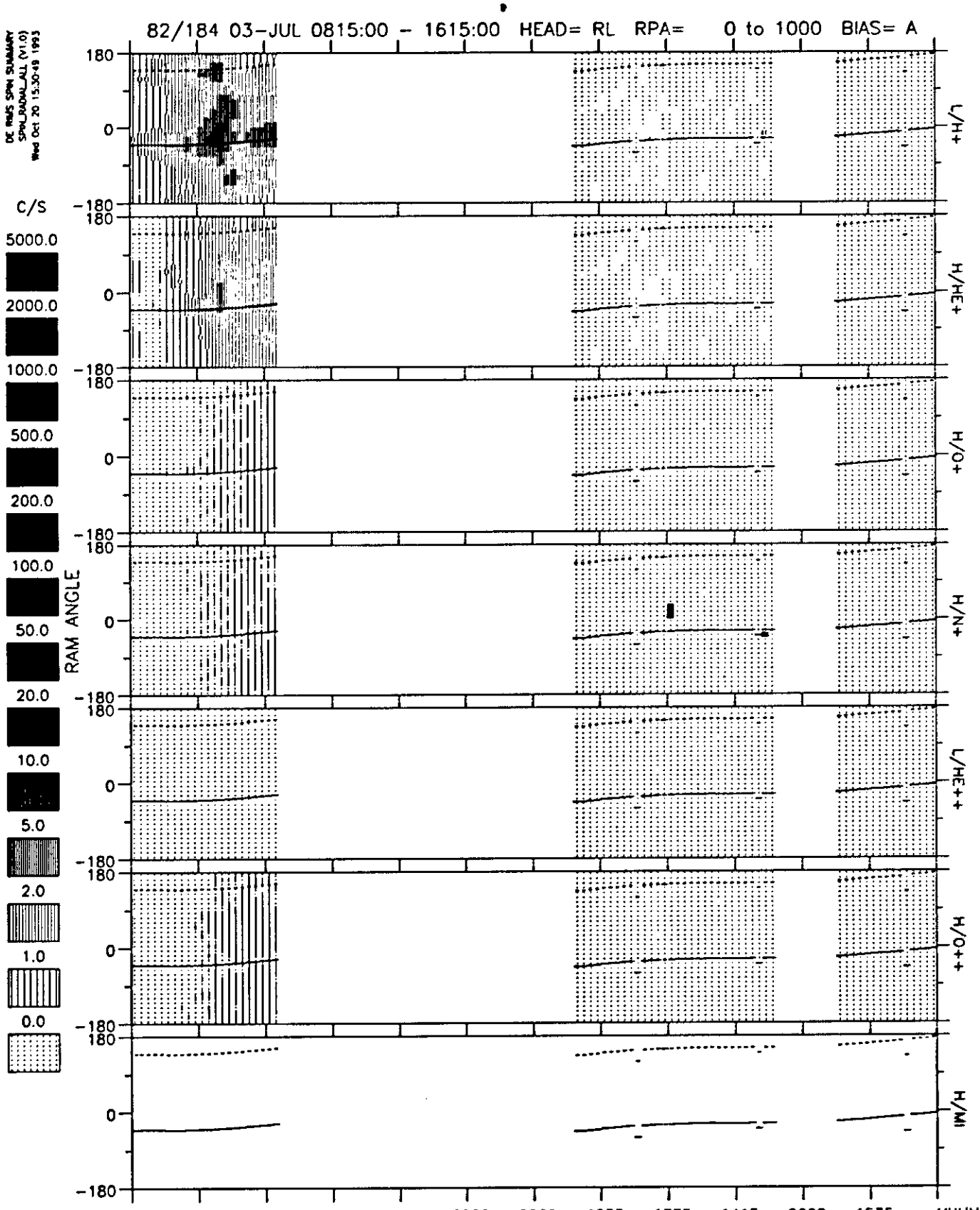
TIME	1255	1335	1415	0000	0000	0000	0000	0000	1815	1855	1935	HHMM
RE	4.4	3.8	2.9	0.0	0.0	0.0	0.0	0.0	4.6	4.7	4.5	RE
L	4.4	4.2	4.7	0.0	0.0	0.0	0.0	0.0	4.8	4.8	4.9	
MLT	15.7	16.0	16.4	0.0	0.0	0.0	0.0	0.0	16.1	16.2	16.3	HRS
MLAT	2.96	18.02	39.51	0.00	0.00	0.00	0.00	0.00	-6.92	4.41	15.85	DEGS
INVLAT	61.4	60.7	62.5	0.0	0.0	0.0	0.0	0.0	62.8	62.7	63.0	DEGS



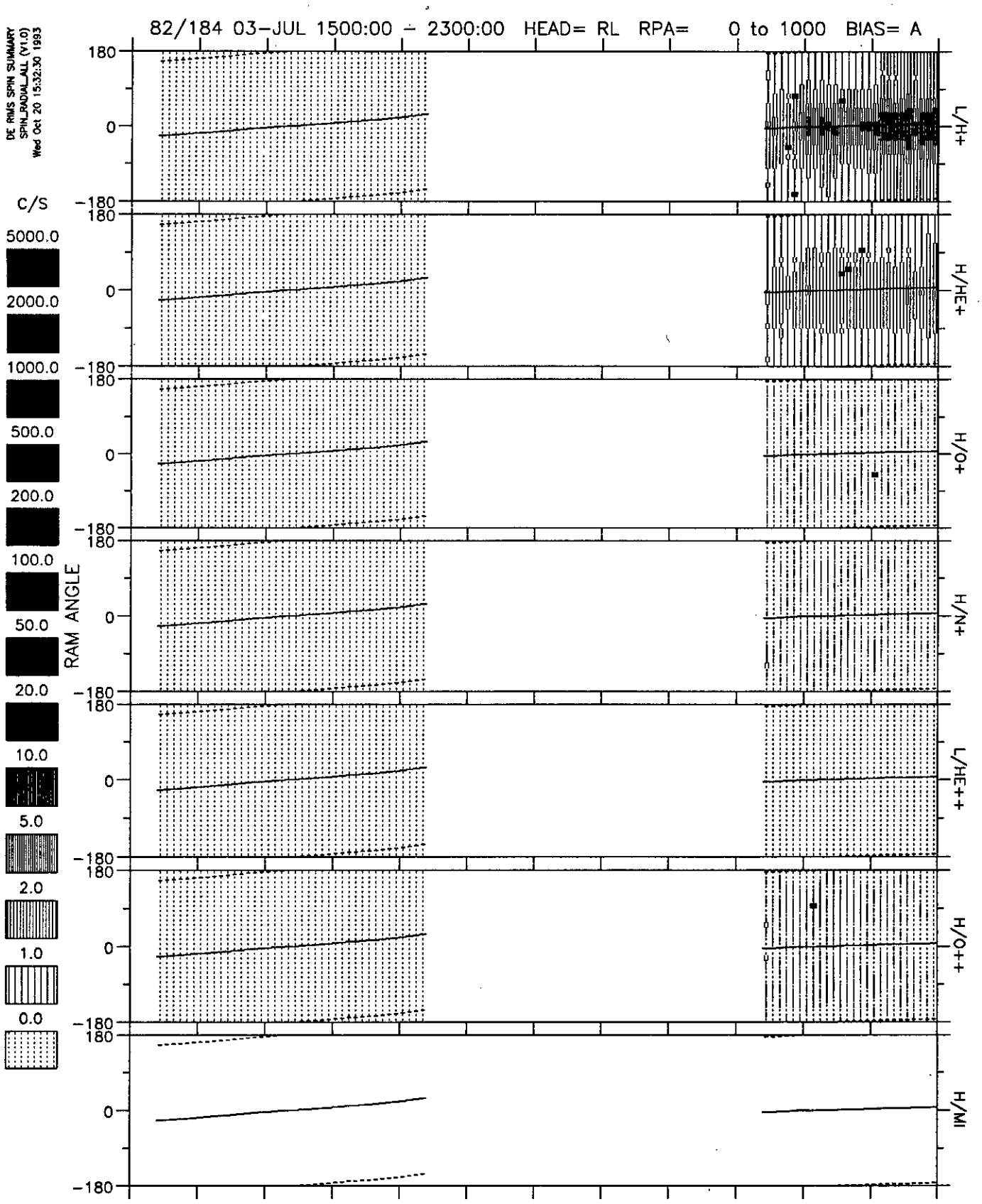
TIME	1910	1950	2030	2110	2150	2230	0000	2350	0030	0110	0150	HHMM
RE	4.6	4.3	3.7	2.8	1.5	1.6	0.0	3.8	4.3	4.6	4.7	RE
L	4.8	5.0	5.5	8.7	16.9	41.6	0.0	5.2	4.9	4.8	4.6	
MLT	16.2	16.3	16.3	16.1	5.0	2.2	0.0	16.6	16.5	16.3	16.2	HRS
MLAT	8.61	20.41	34.56	55.75	69.94	*****	0.00	*****	*****	*****	-2.54	DEGS
INVLAT	62.8	63.3	64.8	70.2	75.9	81.1	0.0	64.1	63.2	62.8	62.3	DEGS



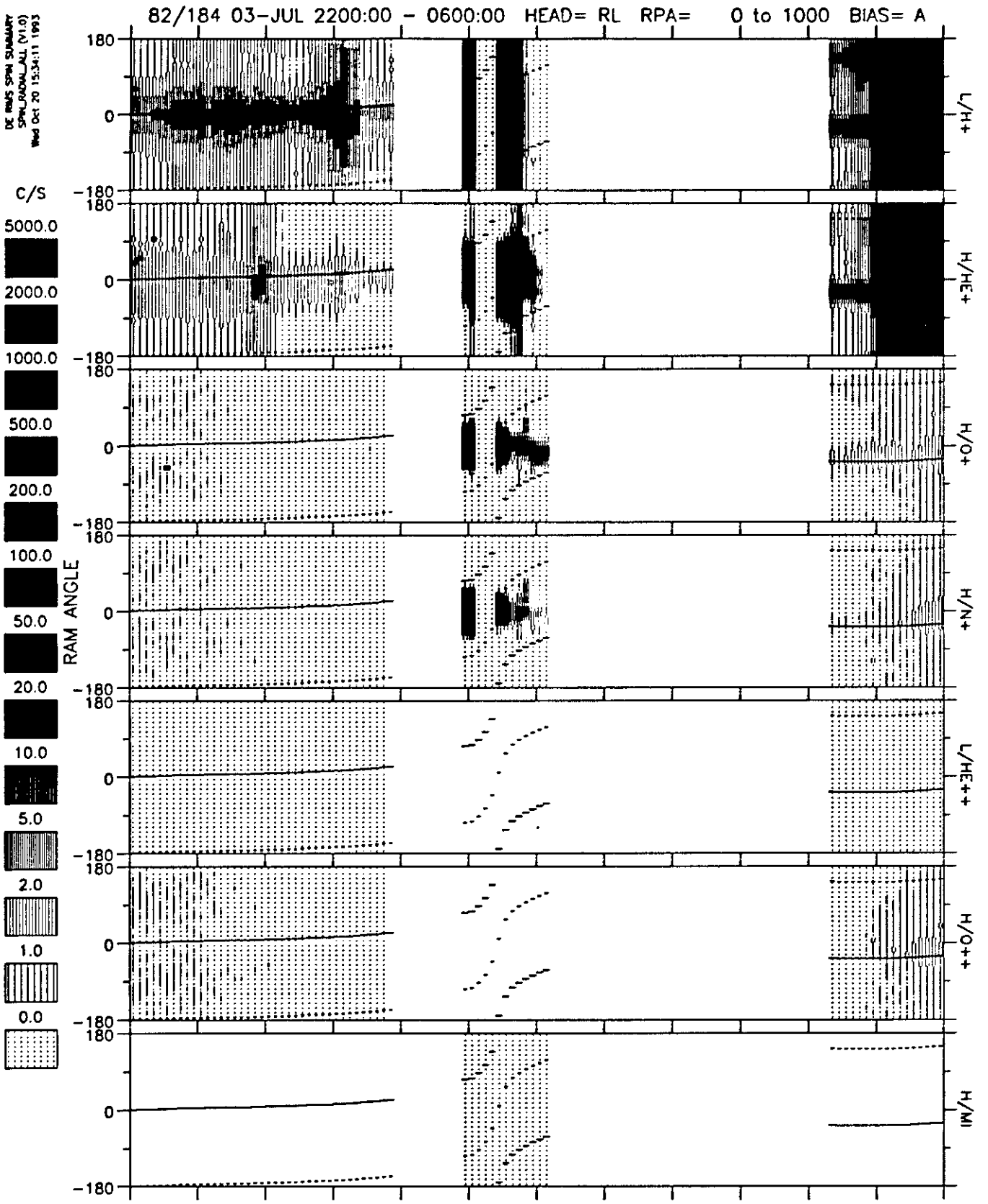
TIME	0210	0250	0330	0410	0000	0000	0610	0650	0730	0810	0850	HHMM
RE	4.6	4.2	3.5	2.5	0.0	0.0	3.1	3.9	4.4	4.7	4.6	RE
L	4.5	4.3	4.1	5.3	0.0	0.0	16.6	8.4	6.5	5.5	4.8	
MLT	16.1	15.9	15.7	15.2	0.0	0.0	16.7	16.1	15.9	15.7	15.7	HRS
MLAT	1.66	11.09	23.83	46.29	0.00	0.00	*****	*****	*****	*****	*****	DEGS
INVLAT	62.0	61.2	60.6	64.2	0.0	0.0	75.8	69.8	66.9	64.8	62.9	DEGS



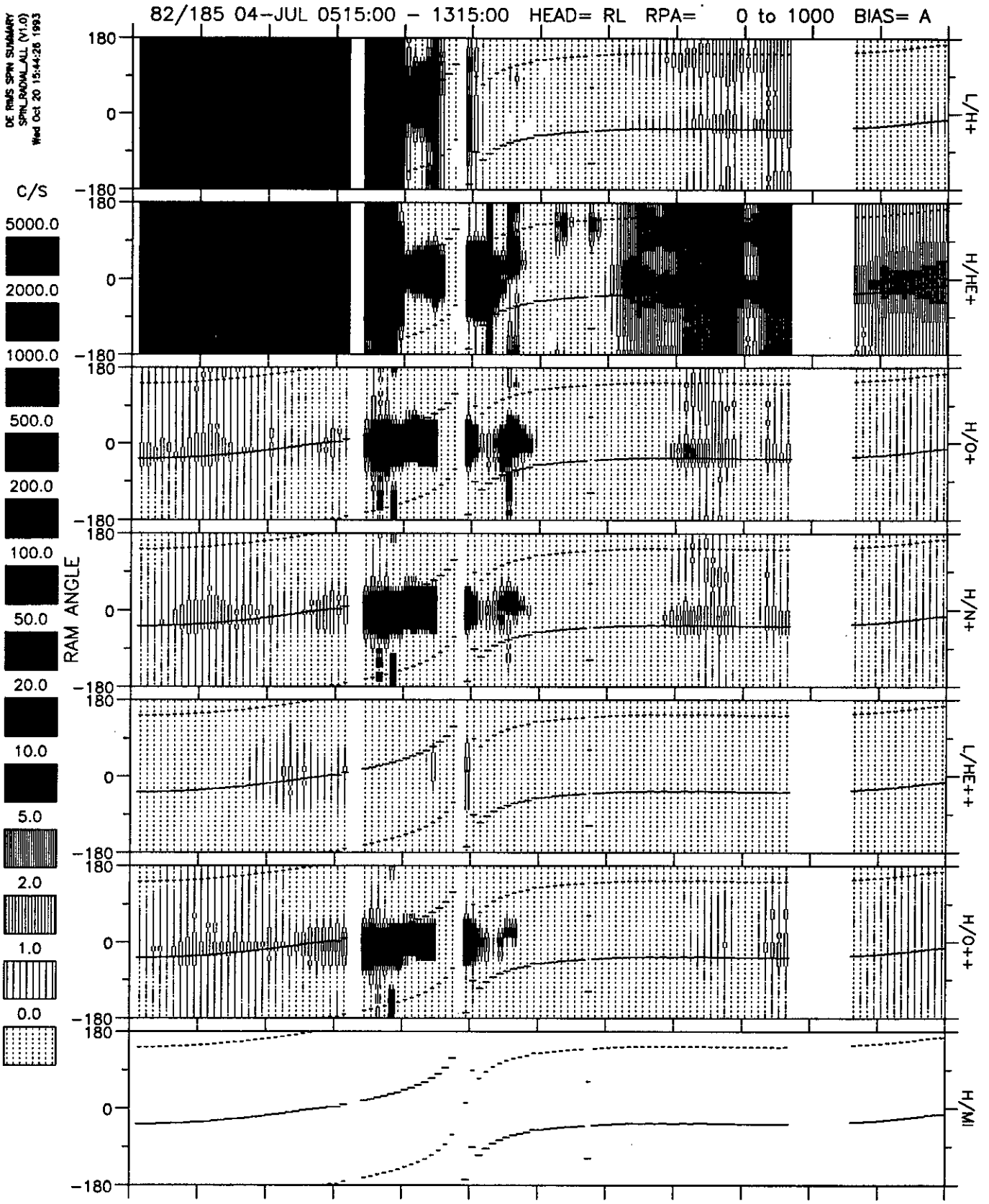
TIME	0855	0935	0000	0000	0000	0000	1255	1335	1415	0000	1535	HHMM
RE	4.6	4.3	0.0	0.0	0.0	0.0	3.0	3.8	4.4	0.0	4.6	RE
L	4.7	4.2	0.0	0.0	0.0	0.0	13.1	6.9	5.6	0.0	4.7	
MLT	15.7	15.7	0.0	0.0	0.0	0.0	14.3	15.0	15.3	0.0	15.8	HRS
MLAT	•••••	-0.89	0.00	0.00	0.00	0.00	•••••	•••••	•••••	0.00	-1.05	DEGS
INVLAT	62.6	60.8	0.0	0.0	0.0	0.0	74.0	67.7	65.1	0.0	62.6	DEGS



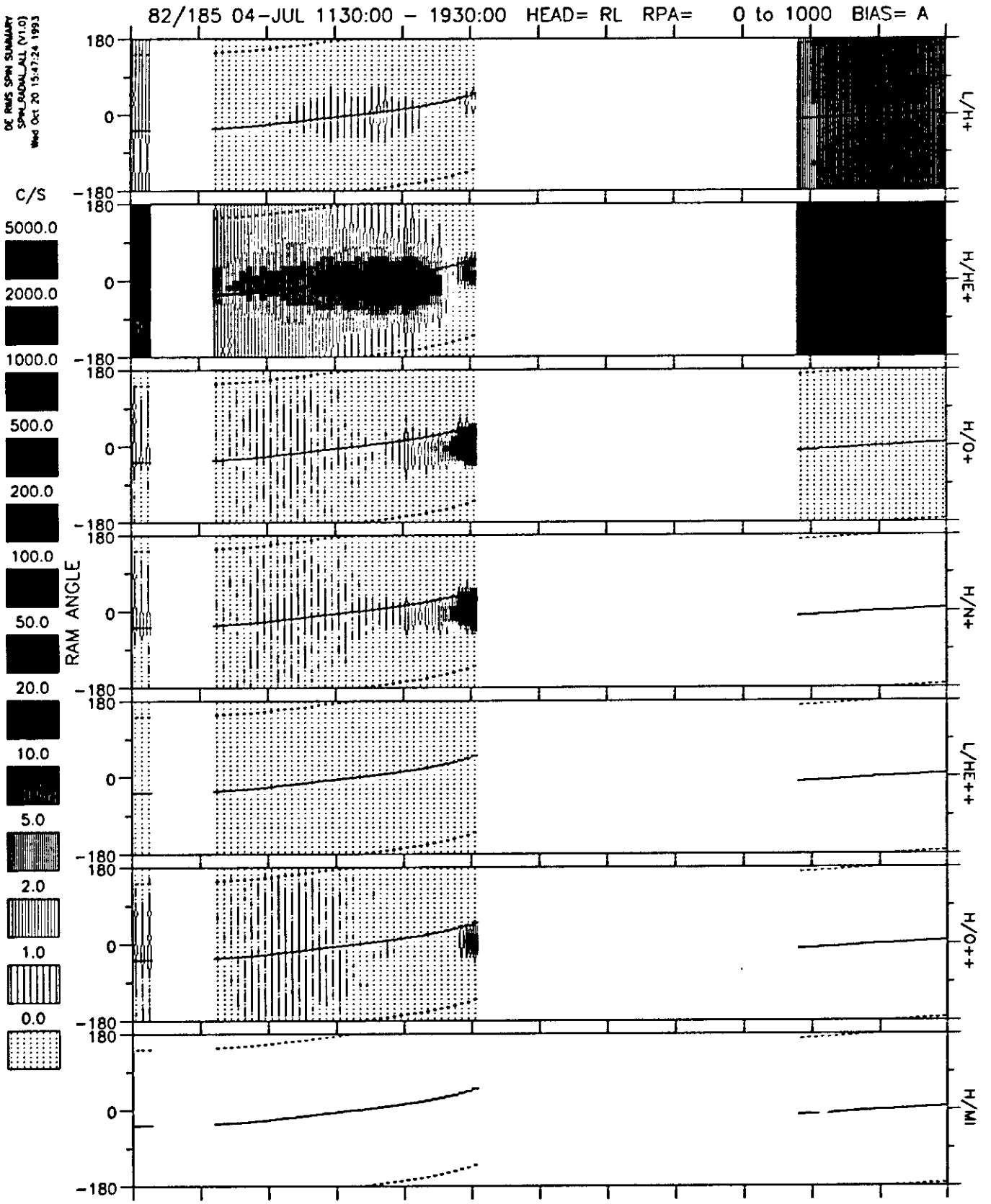
TIME	1540	1620	1700	1740	0000	0000	0000	0000	0000	2140	2220	HHMM
RE	4.6	4.3	3.8	2.8	0.0	0.0	0.0	0.0	0.0	4.6	4.7	RE
L	4.7	4.6	4.7	6.4	0.0	0.0	0.0	0.0	0.0	4.7	4.7	
MLT	15.8	16.0	16.3	16.6	0.0	0.0	0.0	0.0	0.0	16.3	16.2	HRS
MLAT	0.44	13.26	28.47	50.45	0.00	0.00	0.00	0.00	0.00	-5.13	4.50	DEGS
INVLAT	62.5	62.1	62.6	66.7	0.0	0.0	0.0	0.0	0.0	62.5	62.6	DEGS



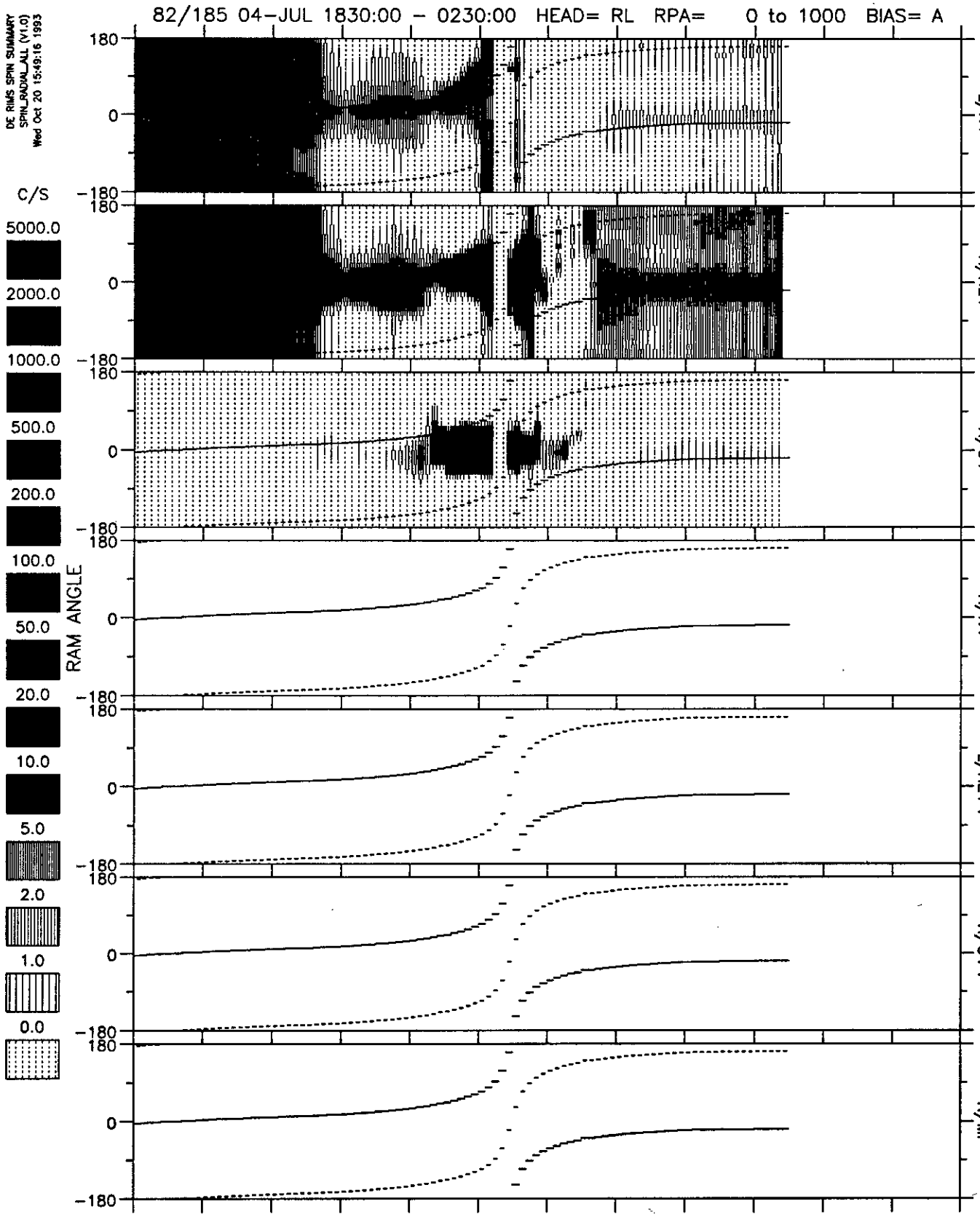
TIME	2240	2320	0000	0000	0120	0200	0000	0000	0000	0000	0520	HHMM
RE	4.6	4.2	3.6	0.0	1.2	1.8	0.0	0.0	0.0	0.0	4.6	RE
L	4.7	4.8	5.0	0.0	3.7	30.2	0.0	0.0	0.0	0.0	4.8	
MLT	16.2	16.0	15.8	0.0	5.1	23.4	0.0	0.0	0.0	0.0	15.9	HRS
MLAT	8.62	19.50	32.52	0.00	54.00	•••••	0.00	0.00	0.00	0.00	•••••	DEGS
INVLAT	62.6	62.7	63.4	0.0	58.6	79.5	0.0	0.0	0.0	0.0	62.7	DEGS



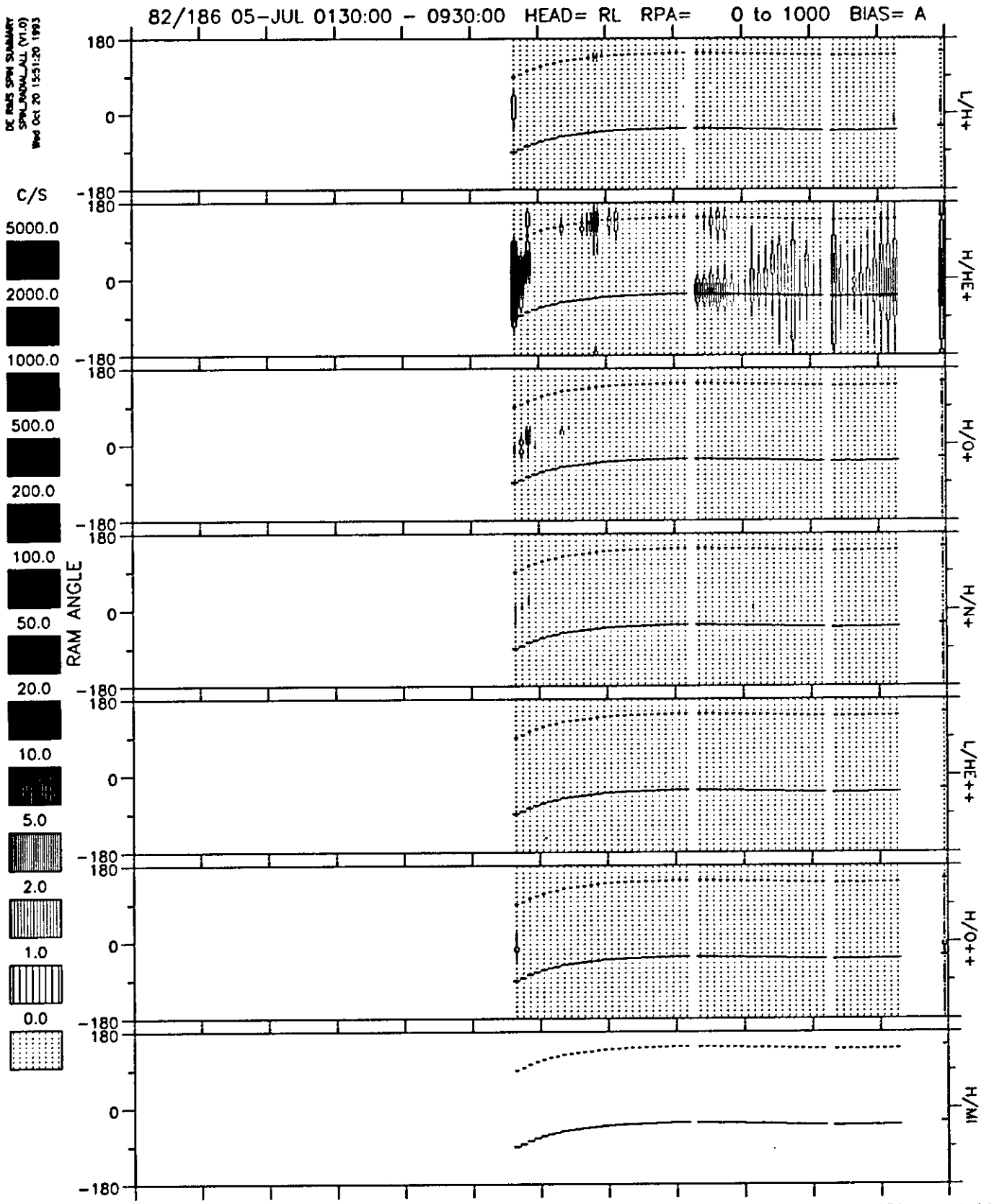
TIME	0555	0635	0715	0755	0835	0915	0955	1035	1115	0000	1235	HHMM
RE	4.4	3.9	3.0	1.8	1.3	2.6	3.6	4.2	4.6	0.0	4.5	RE
L	4.3	3.9	3.8	16.7	1.9	70.9	10.7	7.0	5.7	0.0	4.5	
MLT	15.8	15.7	15.6	15.4	3.6	14.8	15.2	15.2	15.3	0.0	15.5	HRS
MLAT	-2.65	9.28	27.49	68.47	*****	*****	*****	*****	*****	0.00	-2.43	DEGS
INVLAT	61.3	59.6	59.4	75.8	43.0	83.2	72.2	67.8	65.2	0.0	61.9	DEGS



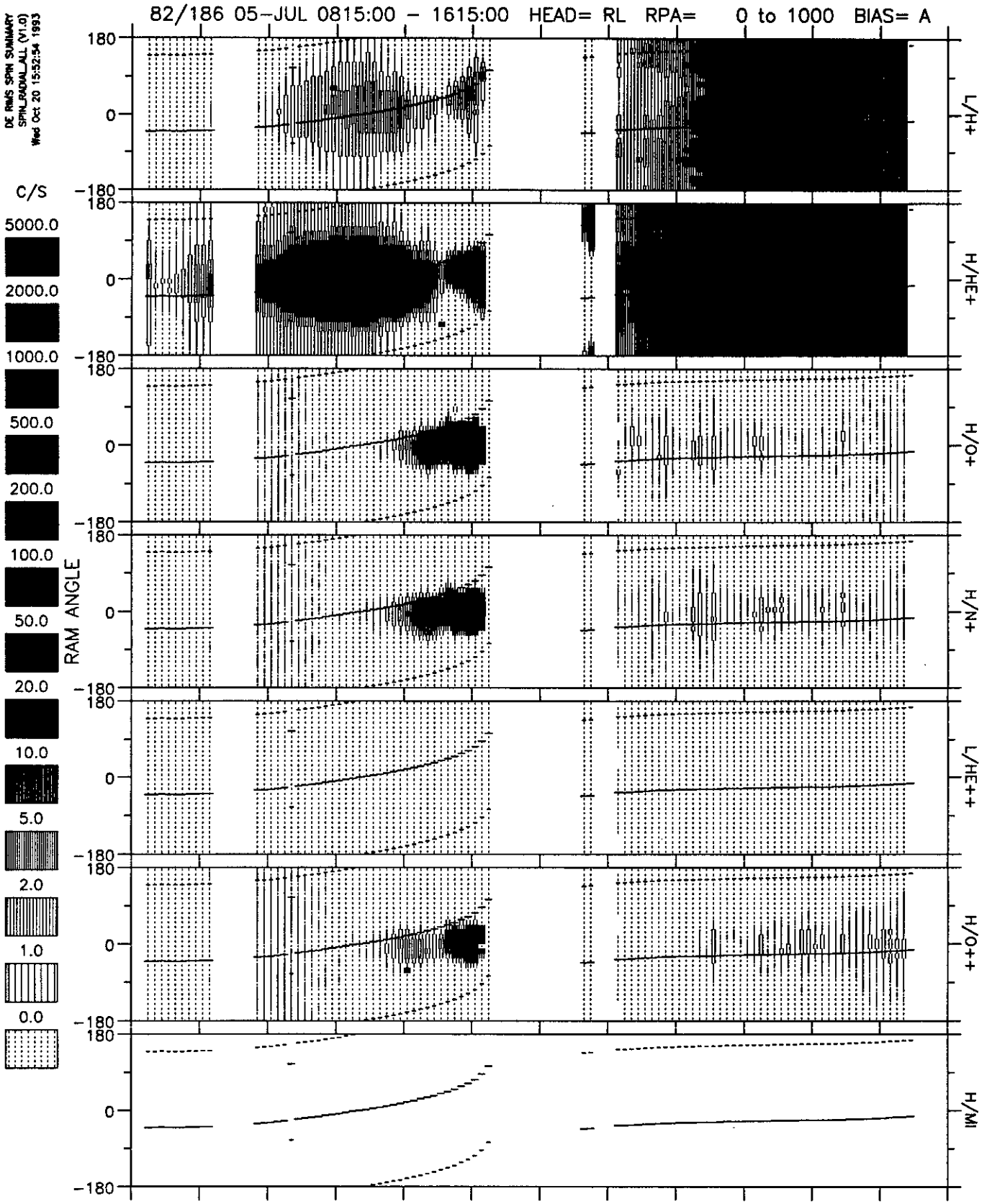
TIME	0000	1250	1330	1410	1450	0000	0000	0000	0000	1810	1850	HHMM
RE	0.0	4.4	3.8	2.9	0.0	0.0	0.0	0.0	0.0	4.6	4.7	RE
L	0.0	4.4	4.1	4.6	-0.0	0.0	0.0	0.0	0.0	4.8	4.8	
MLT	0.0	15.6	15.8	16.2	-0.0	0.0	0.0	0.0	0.0	15.9	16.1	HRS
MLAT	0.00	2.49	17.59	39.15	-0.01	0.00	0.00	0.00	0.00	-7.46	3.85	DEGS
INVLAT	0.0	61.4	60.6	62.3	-0.0	0.0	0.0	0.0	0.0	62.8	62.7	DEGS



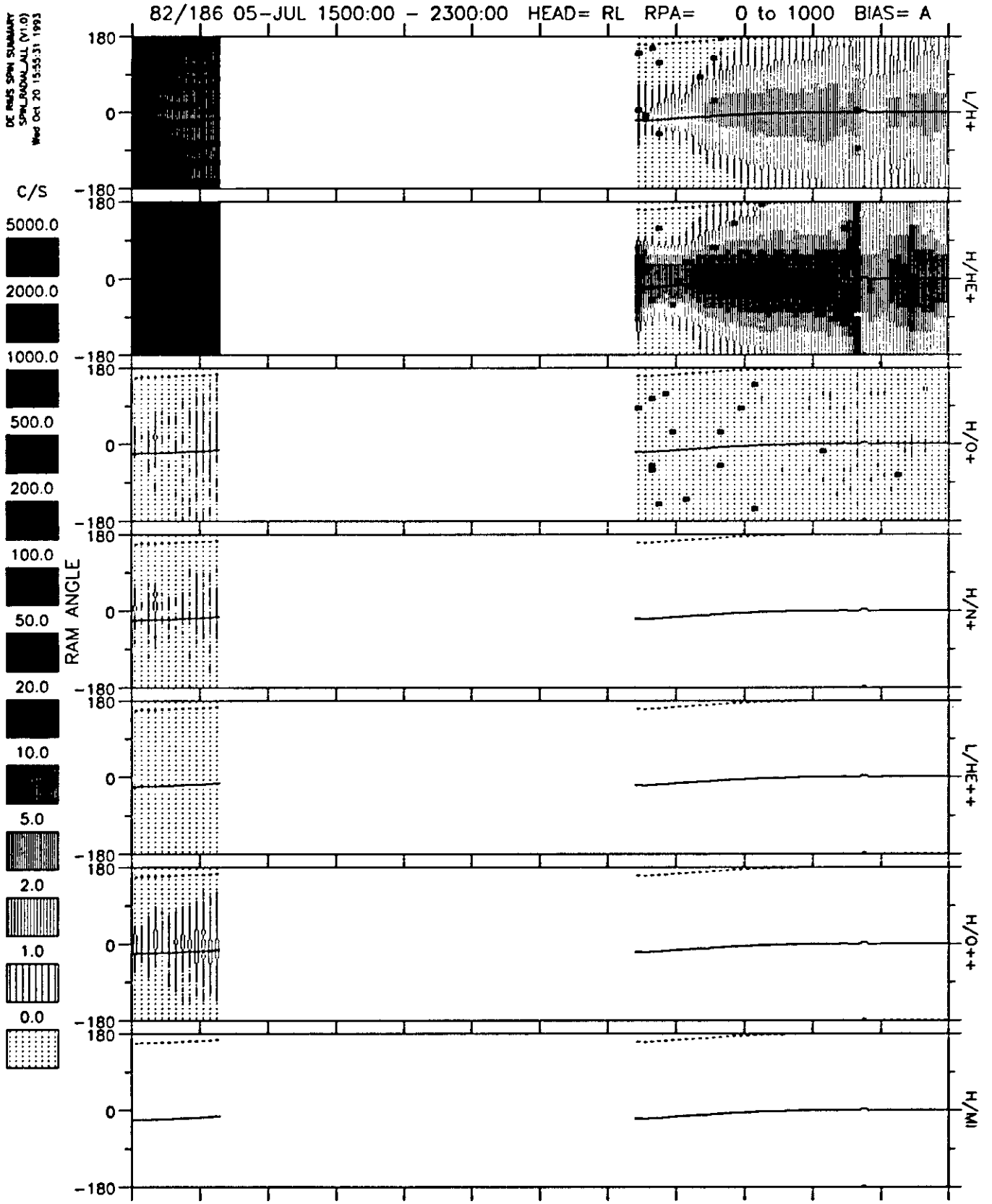
TIME	1910	1950	2030	2110	2150	2230	2310	2350	0030	0000	0000	HHMM
RE	4.6	4.2	3.6	2.6	1.3	1.8	3.0	3.9	4.4	0.0	0.0	RE
L	4.8	5.0	5.6	9.8	5.1	83.2	6.8	5.3	5.0	0.0	0.0	
MLT	16.1	16.2	16.1	15.9	4.6	21.8	16.7	16.5	16.3	0.0	0.0	HRS
MLAT	9.48	21.43	36.11	59.13	55.61	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	62.8	63.3	65.0	71.4	63.6	83.7	67.4	64.2	63.3	0.0	0.0	DEGS



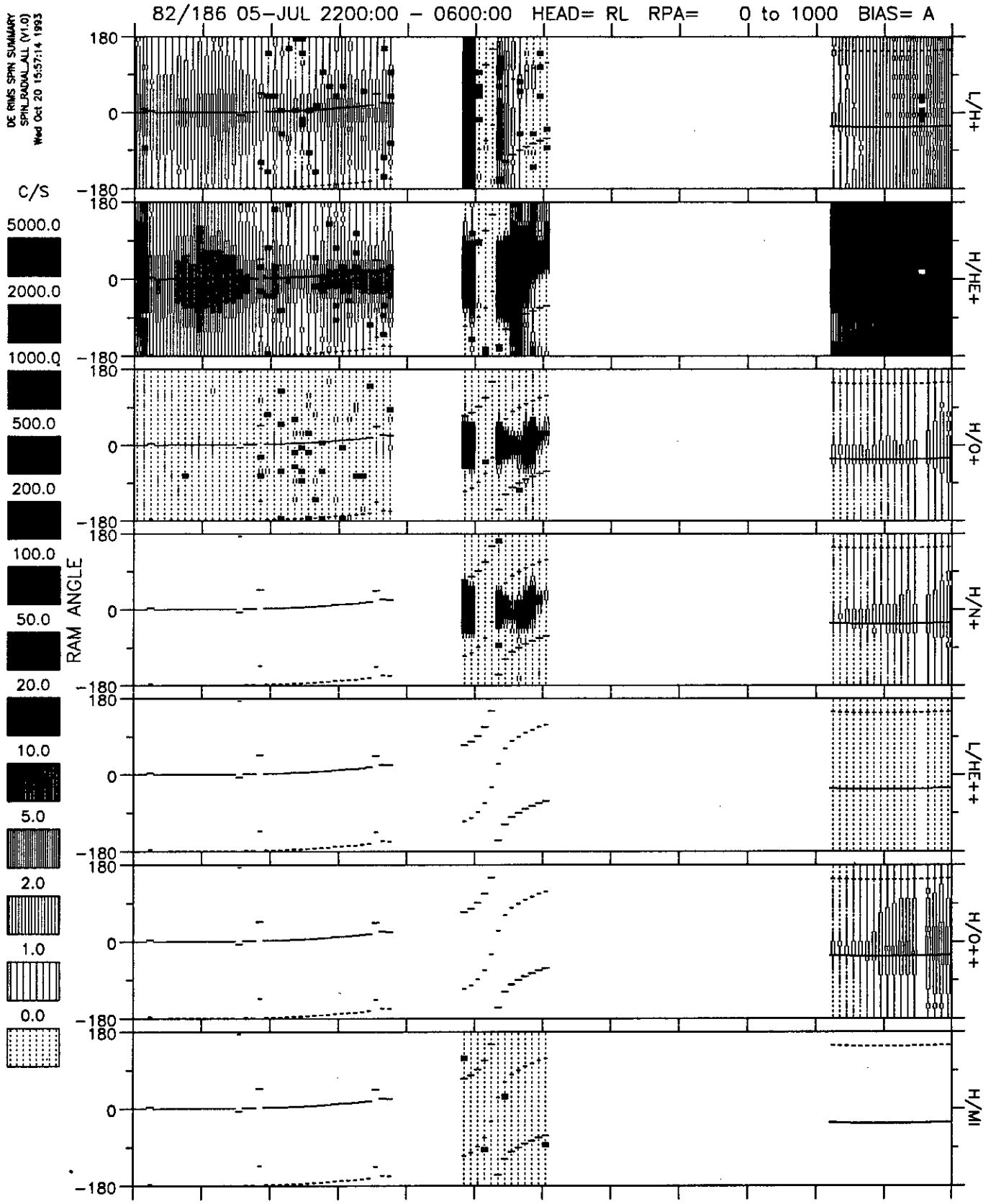
TIME	0000	0000	0000	0000	0000	0530	0610	0650	0730	0810	0850	HHMM
RE	0.0	0.0	0.0	0.0	0.0	2.1	3.2	4.0	4.5	4.7	4.6	RE
L	0.0	0.0	0.0	0.0	0.0	74.2	-0.0	-0.0	6.4	5.4	-0.0	
MLT	0.0	0.0	0.0	0.0	0.0	23.3	16.5	15.9	15.7	15.6	15.5	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	83.3	-0.0	-0.0	66.8	64.6	-0.0	DEGS



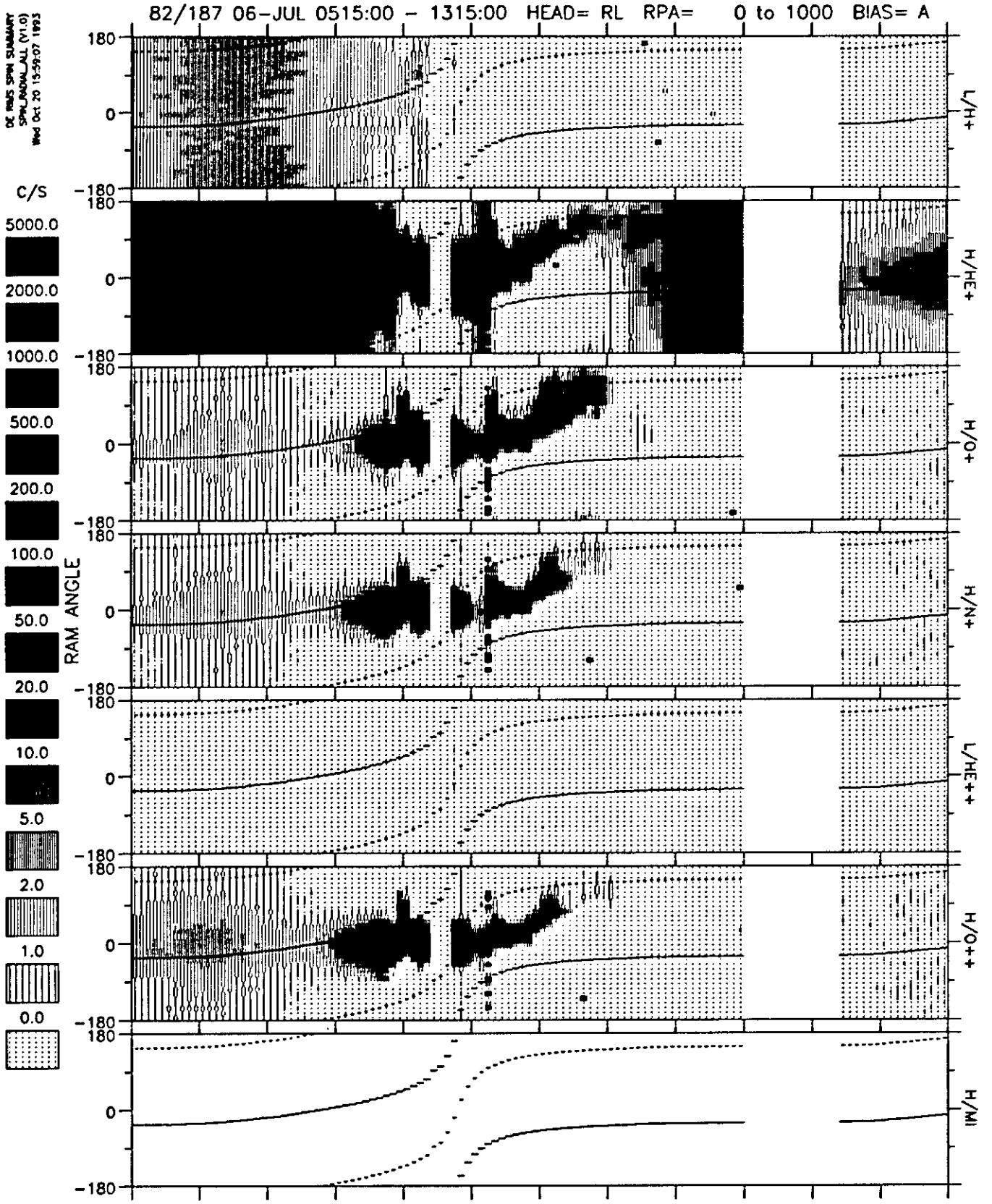
TIME	0855	0935	1015	1055	1135	0000	0000	1335	1415	1455	1535	HHMM
RE	4.6	4.2	3.5	2.5	1.2	0.0	0.0	3.9	4.4	4.7	4.6	RE
L	-0.0	4.2	3.8	4.7	4.9	0.0	0.0	6.8	5.5	5.0	4.7	
MLT	15.5	15.5	15.6	15.9	2.5	0.0	0.0	14.9	15.2	15.4	15.6	HRS
MLAT	*****	0.18	15.79	41.26	60.04	0.00	0.00	*****	*****	*****	-0.01	DEGS
INVLAT	-0.0	60.6	59.3	62.4	63.1	0.0	0.0	67.4	64.9	63.4	62.5	DEGS



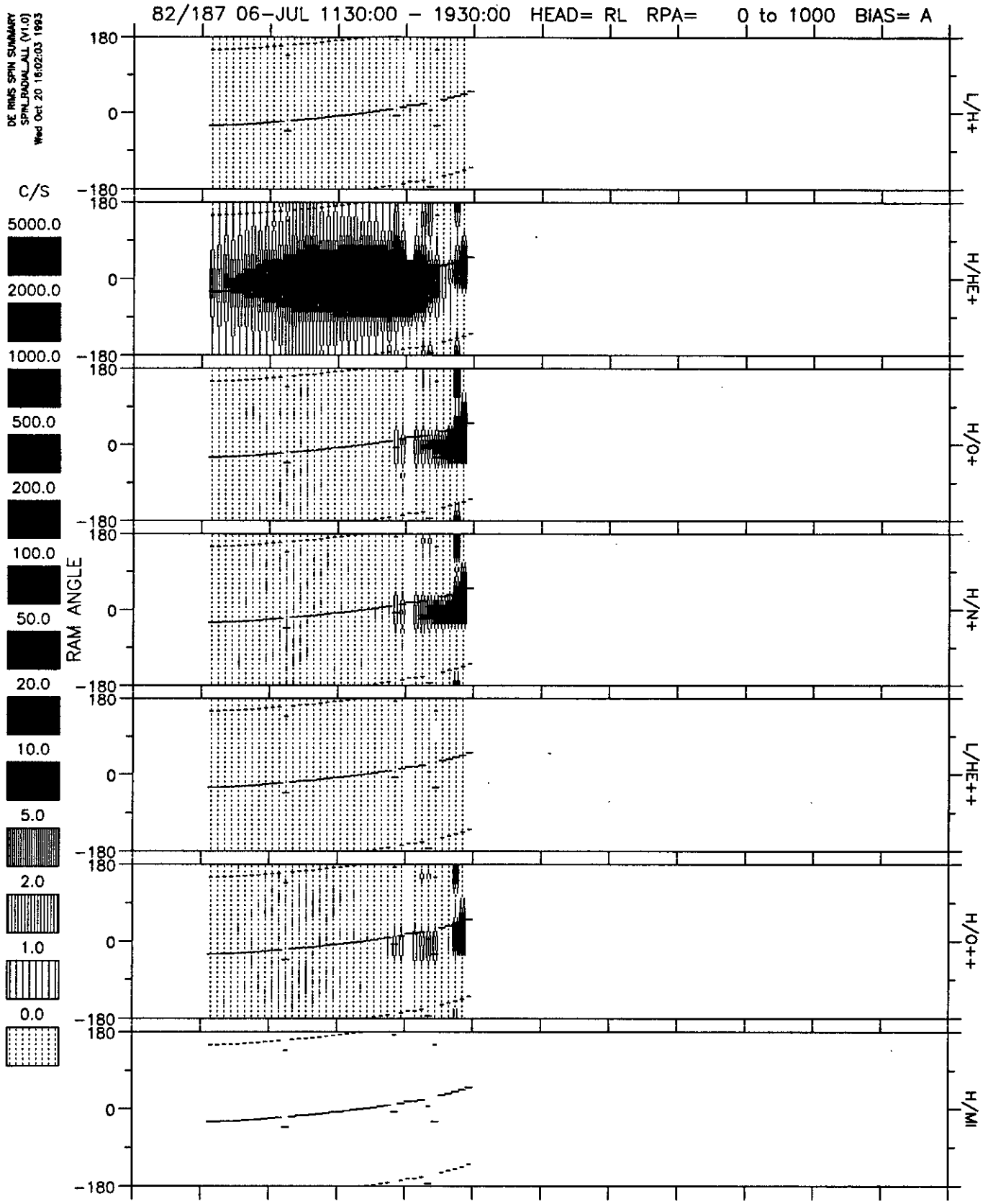
TIME	1540	0000	0000	0000	0000	0000	0000	2020	2100	2140	2220	HHMM
RE	4.6	0.0	0.0	0.0	0.0	0.0	0.0	3.8	4.4	4.6	4.6	RE
L	4.7	0.0	0.0	0.0	0.0	0.0	0.0	5.0	4.7	4.7	4.7	
MLT	15.7	0.0	0.0	0.0	0.0	0.0	0.0	16.1	16.1	16.1	16.1	HRS
MLAT	1.54	0.00	0.00	0.00	0.00	0.00	0.00	•••••	•••••	-4.56	4.99	DEGS
INVLAT	62.4	0.0	0.0	0.0	0.0	0.0	0.0	63.3	62.6	62.5	62.6	DEGS



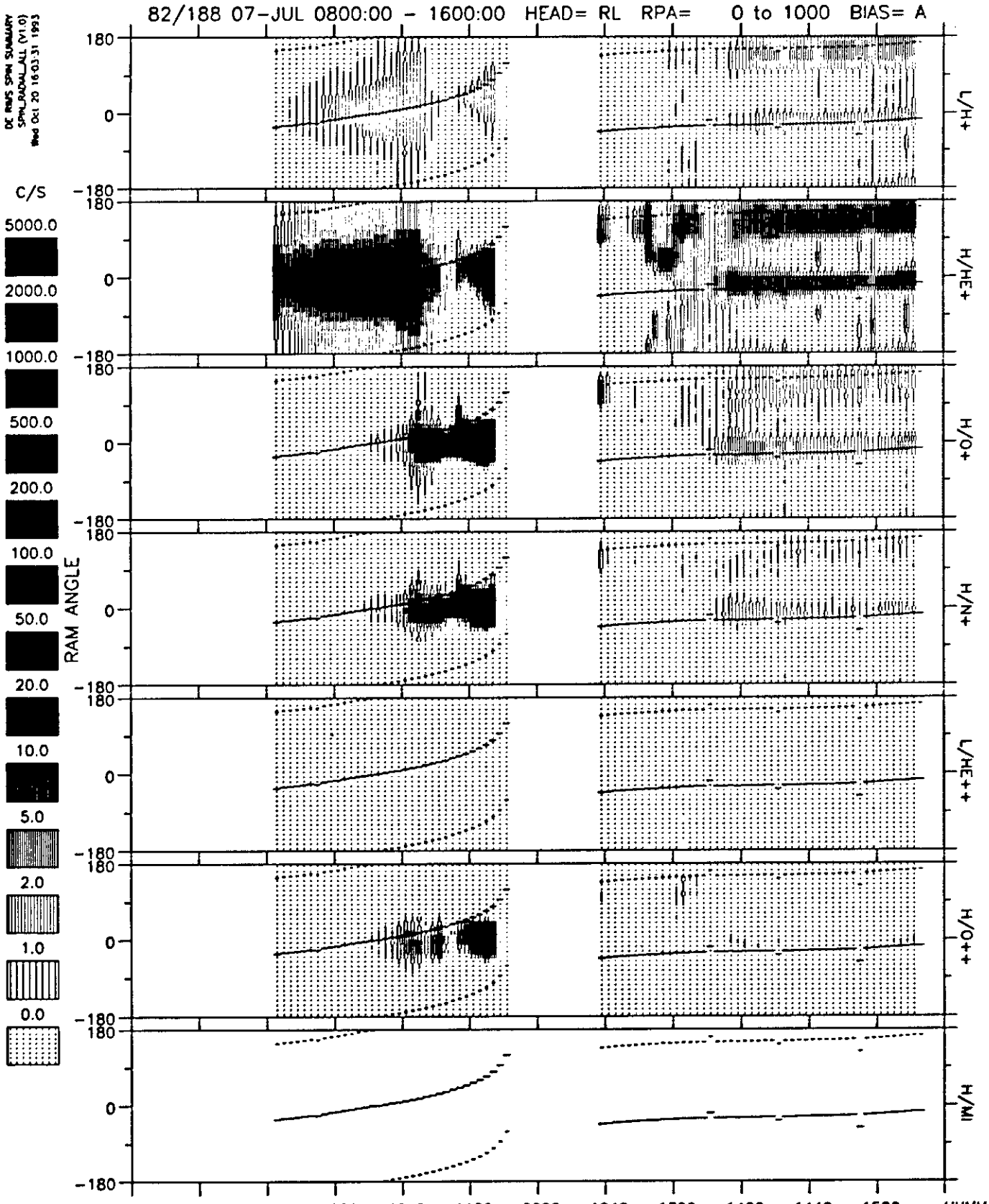
TIME	2240	2320	0000	0000	0120	0200	0000	0000	0000	0000	0520	HHMM
RE	4.5	4.2	3.5	0.0	1.1	2.0	0.0	0.0	0.0	0.0	4.6	RE
L	4.7	4.7	5.0	0.0	1.6	37.7	0.0	0.0	0.0	0.0	4.7	
MLT	16.0	15.9	15.6	0.0	4.5	21.4	0.0	0.0	0.0	0.0	15.8	HRS
MLAT	9.77	20.20	33.86	0.00	34.18	*****	0.00	0.00	0.00	0.00	*****	DEGS
INVLAT	62.6	62.6	63.4	0.0	37.3	80.6	0.0	0.0	0.0	0.0	62.6	DEGS



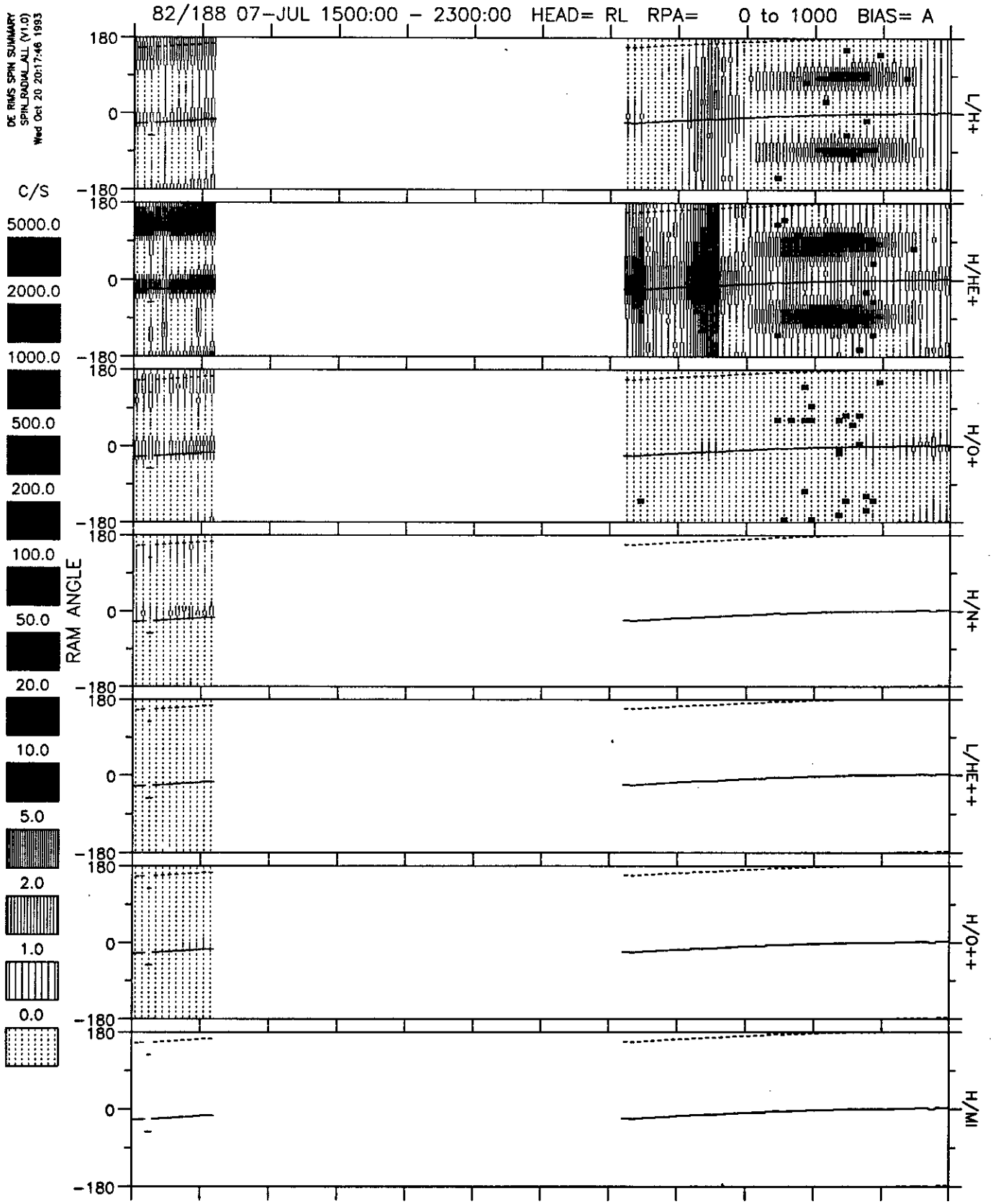
TIME	0555	0635	0715	0755	0835	0915	0955	1035	0000	0000	1235	HHMM
RE	4.3	3.8	2.9	1.6	1.5	2.8	3.7	4.3	0.0	0.0	4.4	RE
L	4.3	3.8	3.9	64.4	3.3	43.2	10.1	6.9	0.0	0.0	4.5	
MLT	15.6	15.5	15.4	15.1	3.6	14.8	15.0	15.1	0.0	0.0	15.4	HRS
MLAT	-2.00	10.48	30.17	78.55	*****	*****	*****	*****	0.00	0.00	-1.27	DEGS
INVLAT	61.1	59.4	59.5	82.8	56.9	81.2	71.7	67.6	0.0	0.0	61.7	DEGS



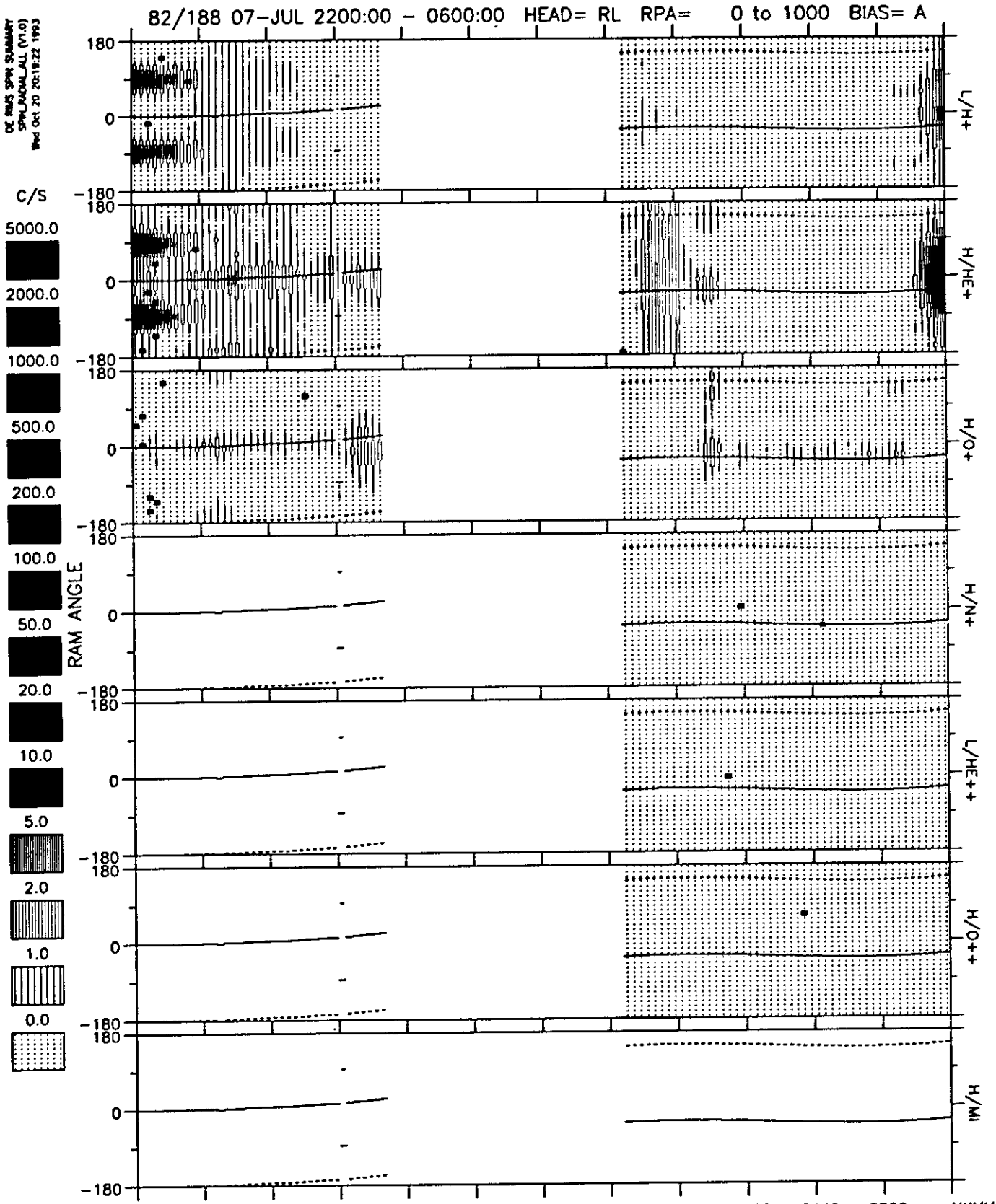
TIME	0000	1250	1330	1410	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	0.0	4.3	3.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	4.3	4.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	15.5	15.7	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	3.72	19.34	42.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	61.2	60.4	62.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



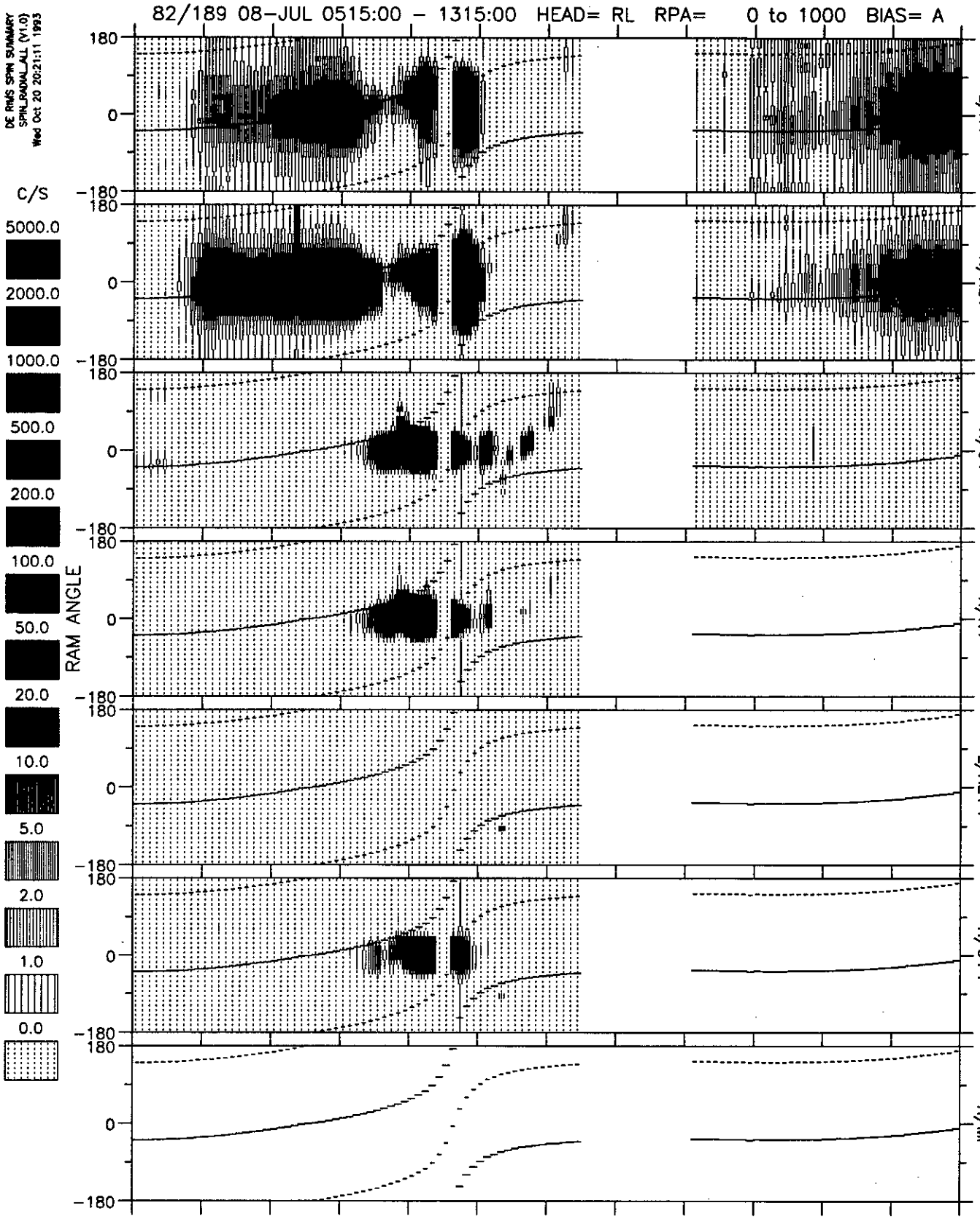
TIME	0000	0000	1000	1040	1120	0000	1240	1320	1400	1440	1520	HHMM
RE	0.0	0.0	3.7	2.8	1.5	0.0	2.8	3.8	4.3	4.6	4.7	RE
L	0.0	0.0	3.8	4.1	99.6	0.0	16.4	7.5	5.8	5.1	4.8	
MLT	0.0	0.0	15.4	15.7	20.0	0.0	13.8	14.6	15.0	15.2	15.4	HRS
MLAT	0.00	0.00	10.82	32.71	81.22	0.00	*****	*****	*****	*****	-3.52	DEGS
INVLAT	0.0	0.0	59.4	60.2	84.9	0.0	75.7	68.6	65.5	63.8	62.7	DEGS



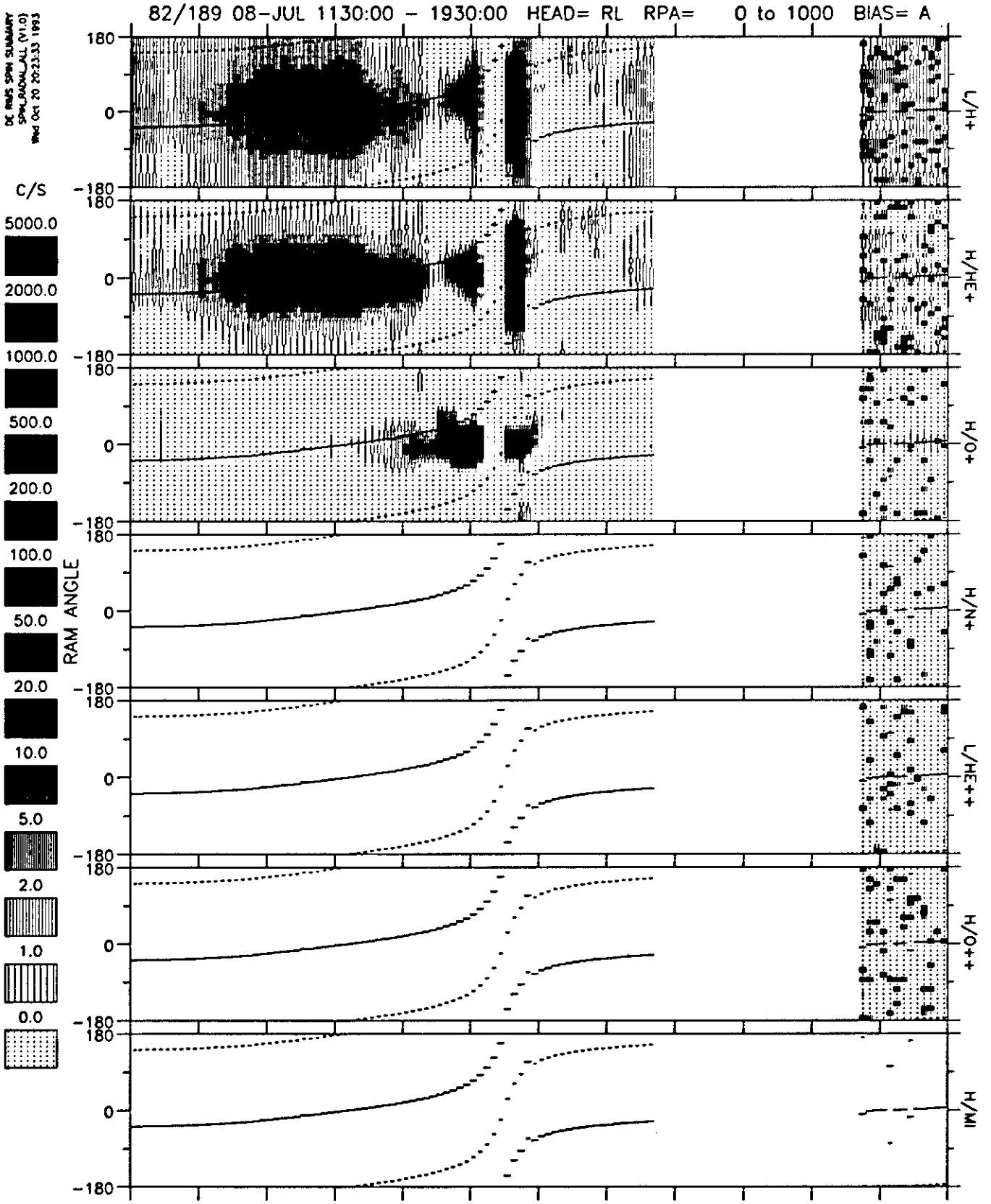
TIME	1540	0000	0000	0000	0000	0000	0000	2020	2100	2140	2220	HHMM
RE	4.6	0.0	0.0	0.0	0.0	0.0	0.0	3.9	4.4	4.7	4.6	RE
L	4.6	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.7	4.7	4.7	
MLT	15.5	0.0	0.0	0.0	0.0	0.0	0.0	15.9	16.0	16.0	15.9	HRS
MLAT	2.61	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-4.00	5.50	DEGS
INVLAT	62.3	0.0	0.0	0.0	0.0	0.0	0.0	63.3	62.7	62.6	62.5	DEGS



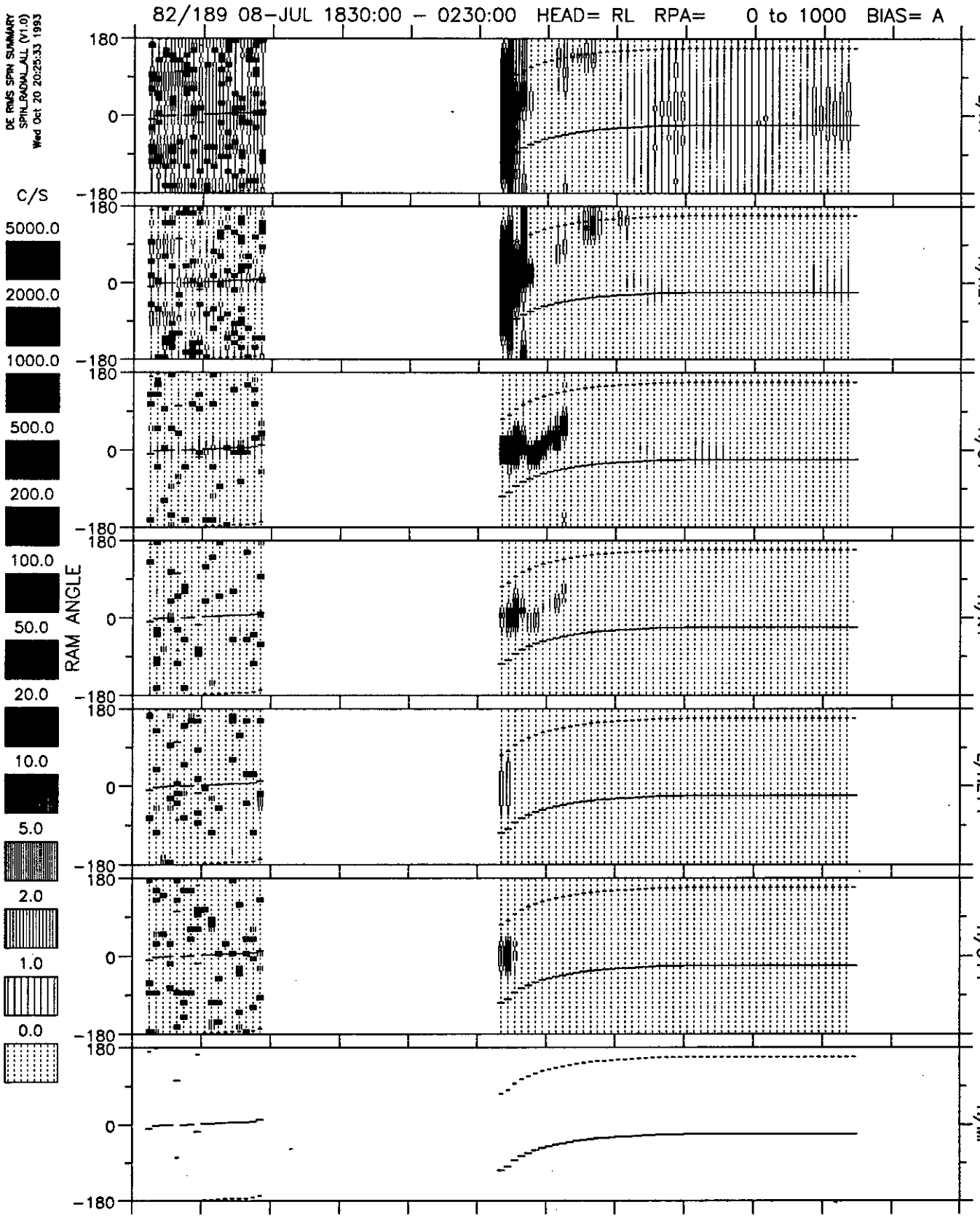
TIME	2240	2320	0000	0000	0000	0000	0000	0320	0400	0440	0520	HHMM
RE	4.5	4.1	3.4	0.0	0.0	0.0	0.0	4.1	4.5	4.7	4.6	RE
L	4.7	4.7	5.0	0.0	0.0	0.0	0.0	6.6	5.8	5.2	4.7	
MLT	15.9	15.7	15.5	0.0	0.0	0.0	0.0	16.2	16.0	15.8	15.6	HRS
MLAT	10.30	20.32	35.30	0.00	0.00	0.00	0.00	*****	*****	*****	*****	DEGS
INVLAT	62.5	62.5	63.4	0.0	0.0	0.0	0.0	67.1	65.4	64.0	62.4	DEGS



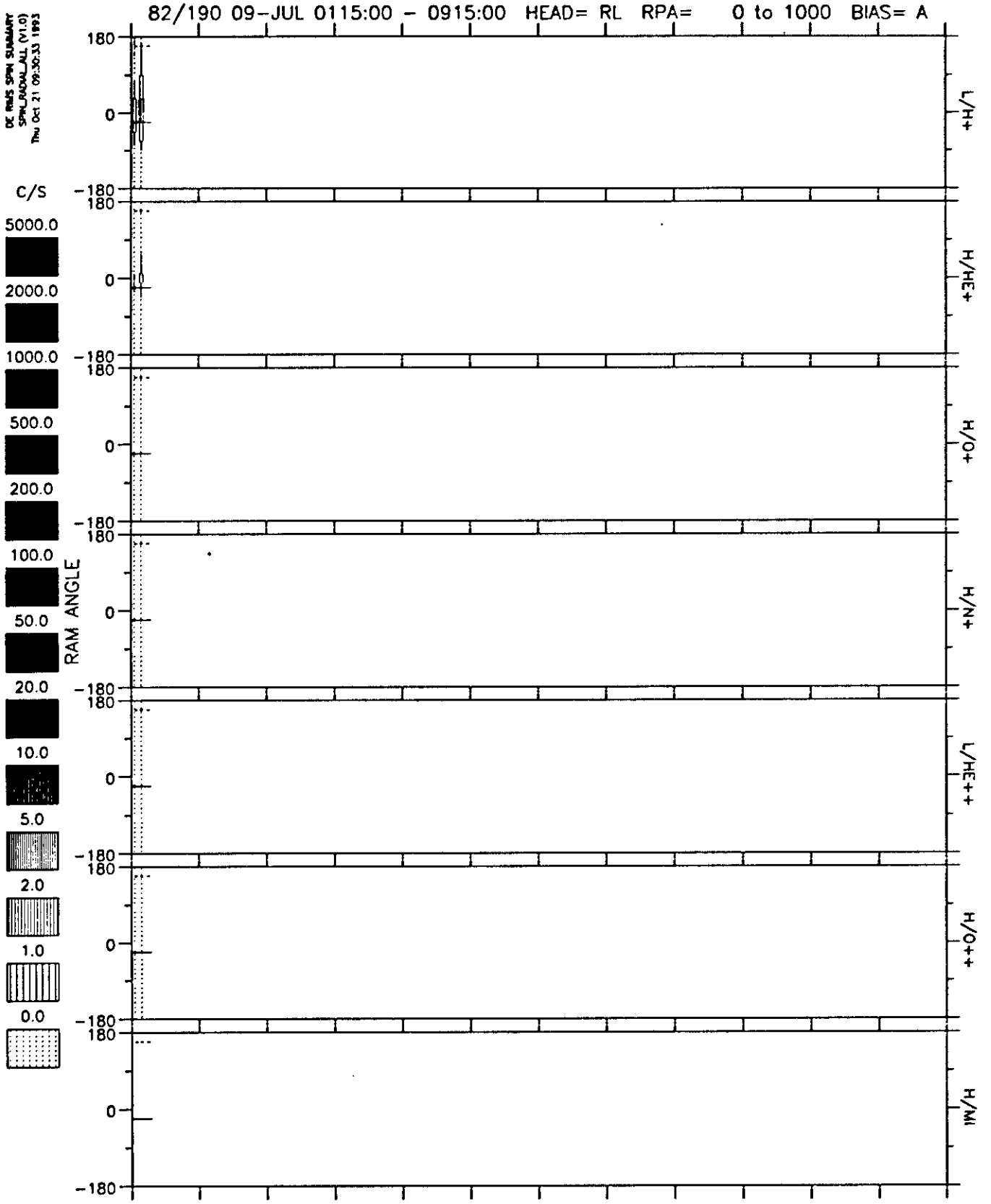
TIME	0555	0635	0715	0755	0835	0915	0000	0000	1115	1155	1235	HHMM
RE	4.3	3.7	2.7	1.4	1.6	2.9	0.0	0.0	4.6	4.6	4.4	RE
L	4.2	3.8	4.0	100.0	6.6	31.2	0.0	0.0	5.6	4.9	4.4	
MLT	15.5	15.4	15.3	5.6	3.5	14.7	0.0	0.0	15.0	15.1	15.3	HRS
MLAT	-1.32	11.77	33.19	88.33	*****	*****	0.00	0.00	*****	*****	-0.13	DEGS
INVLAT	60.9	59.1	59.9	86.4	67.2	79.7	0.0	0.0	65.0	63.1	61.6	DEGS



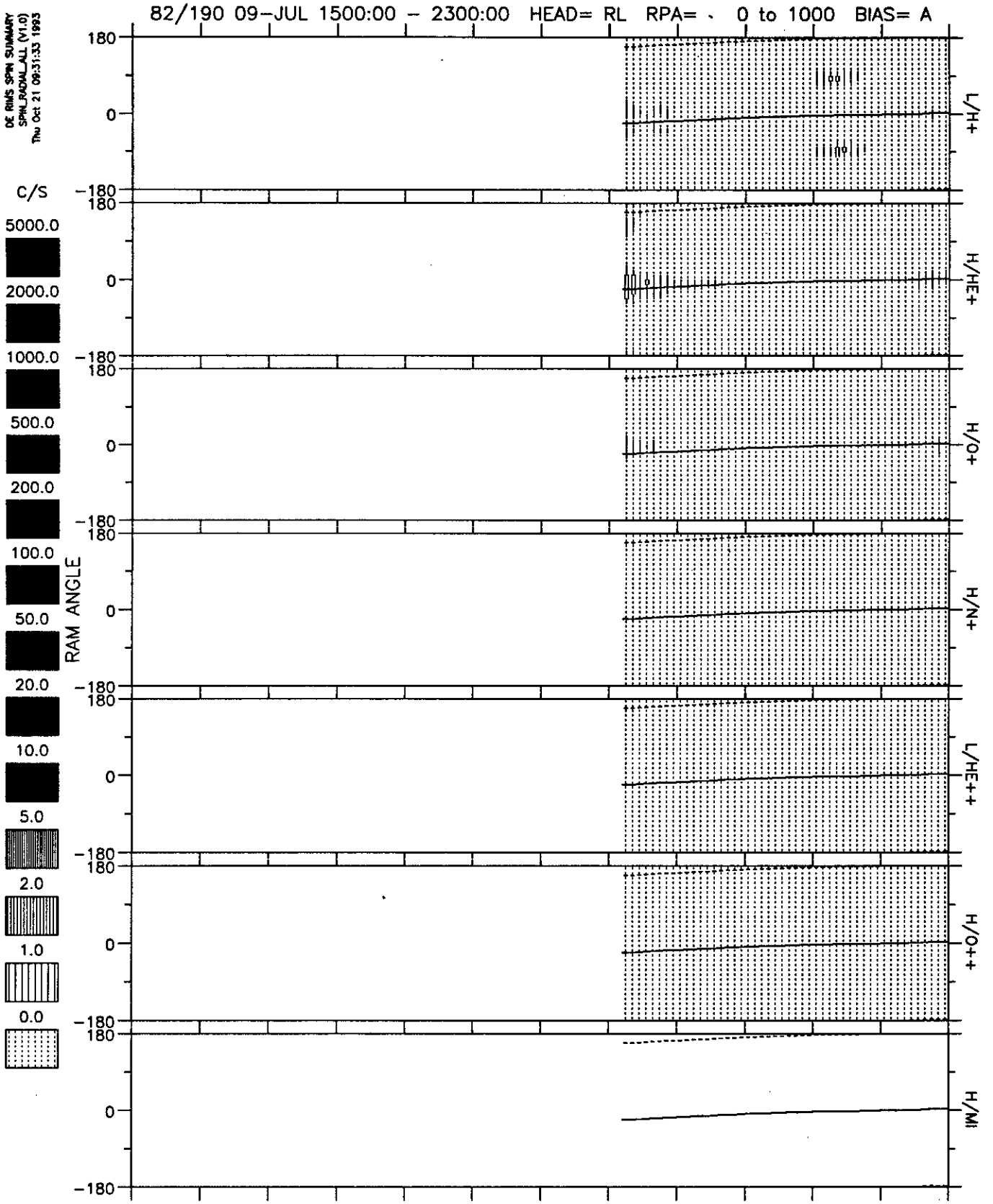
TIME	1210	1250	1330	1410	1450	1530	1610	0000	0000	0000	1850	HHMM
RE	4.6	4.2	3.6	2.6	1.3	1.8	3.0	0.0	0.0	0.0	4.6	RE
L	4.7	4.3	4.1	5.1	5.2	39.6	8.0	0.0	0.0	0.0	4.7	
MLT	15.2	15.3	15.6	16.2	2.0	7.9	14.6	0.0	0.0	0.0	15.8	HRS
MLAT	-8.07	5.02	21.20	46.08	59.96	*****	*****	0.00	0.00	0.00	5.51	DEGS
INVLAT	62.5	61.1	60.3	63.8	63.9	80.9	69.3	0.0	0.0	0.0	62.7	DEGS



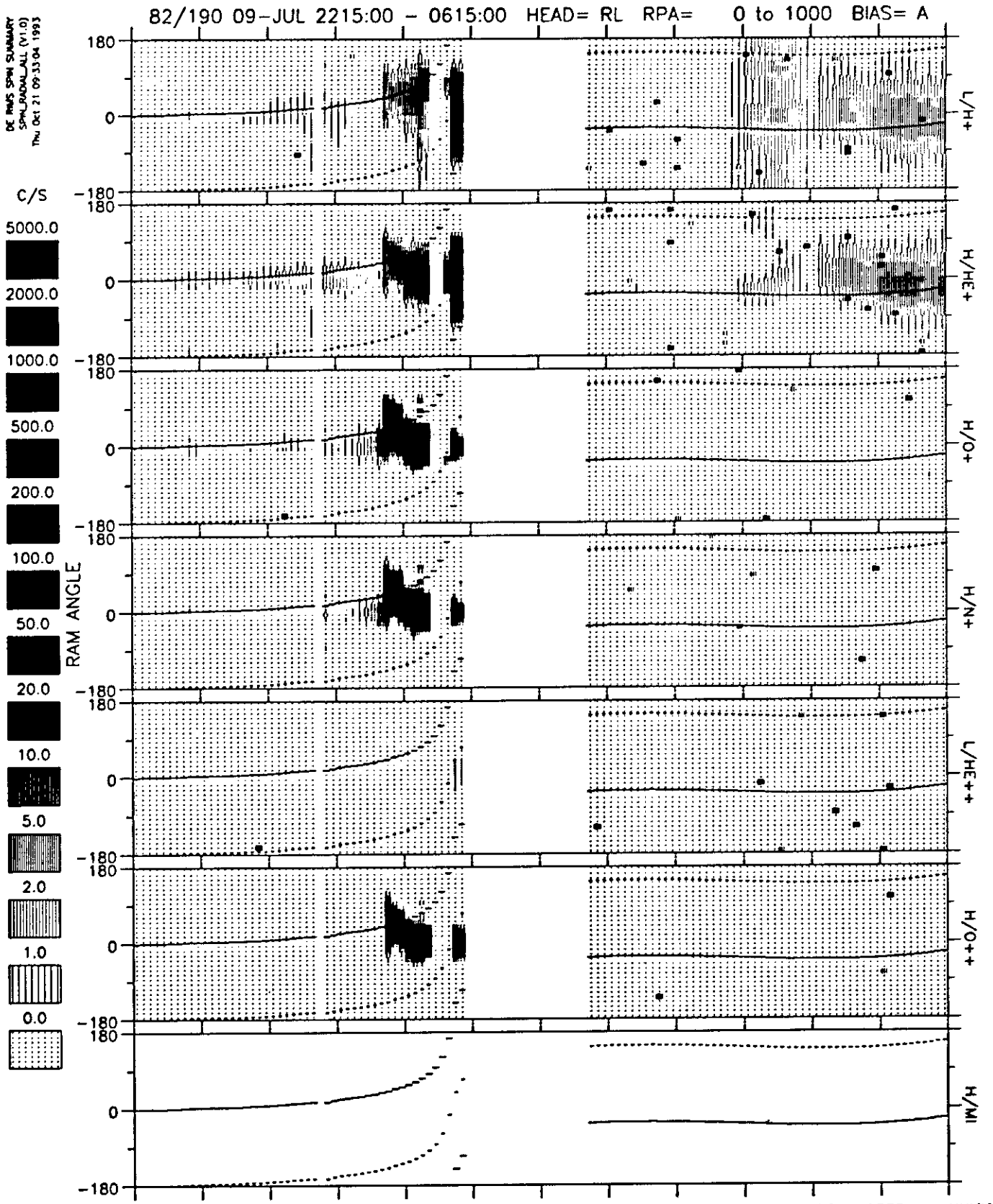
TIME	1910	0000	0000	0000	0000	2230	2310	2350	0030	0110	0000	HHMM
RE	4.5	0.0	0.0	0.0	0.0	2.1	3.3	4.0	4.5	4.7	0.0	RE
L	4.8	0.0	0.0	0.0	0.0	23.8	6.3	5.3	5.0	4.8	0.0	
MLT	15.8	0.0	0.0	0.0	0.0	17.5	16.4	16.2	16.0	15.9	0.0	HRS
MLAT	11.22	0.00	0.00	0.00	0.00	*****	*****	*****	*****	-9.89	0.00	DEGS
INVLAT	62.7	0.0	0.0	0.0	0.0	78.2	66.6	64.2	63.5	62.9	0.0	DEGS



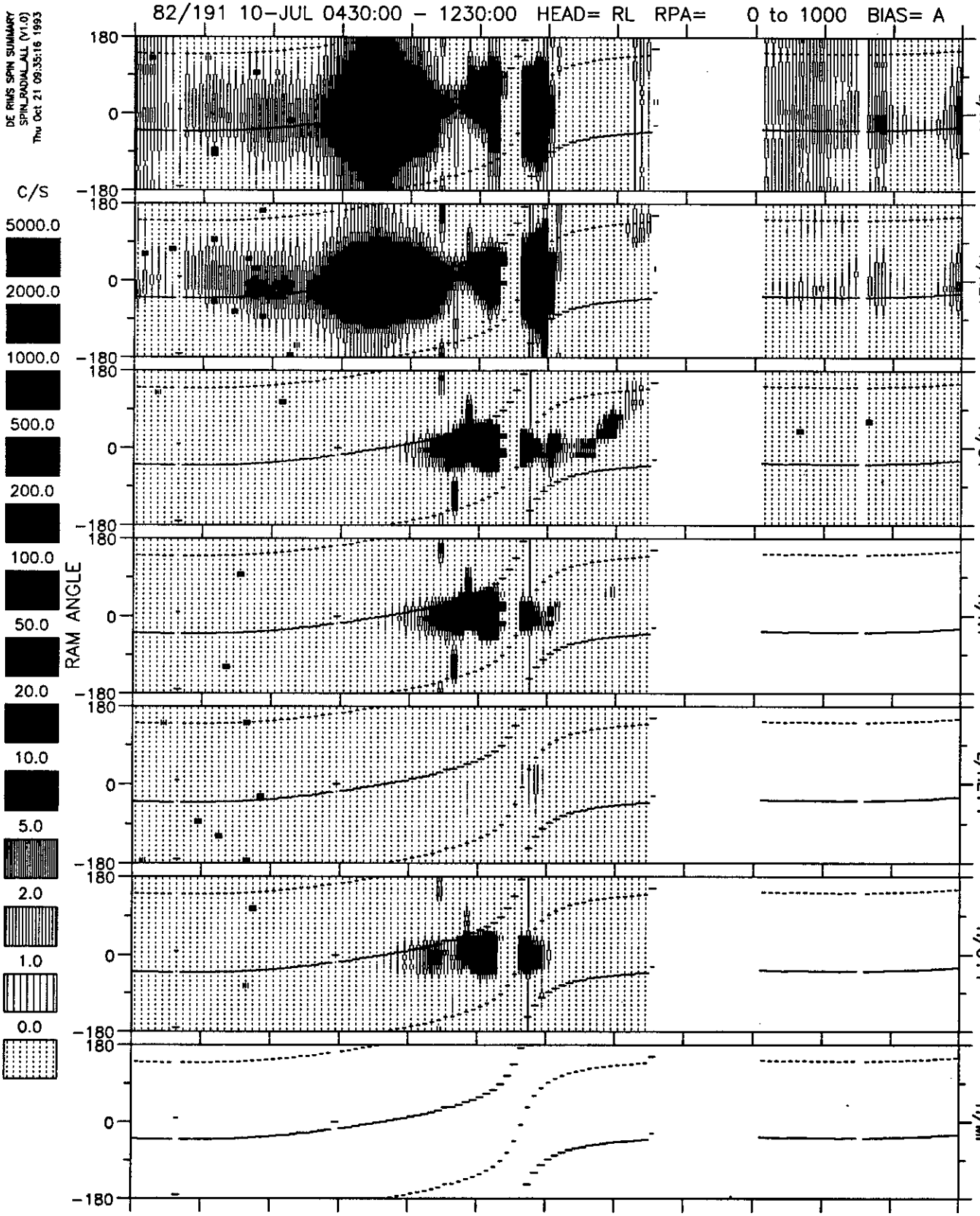
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



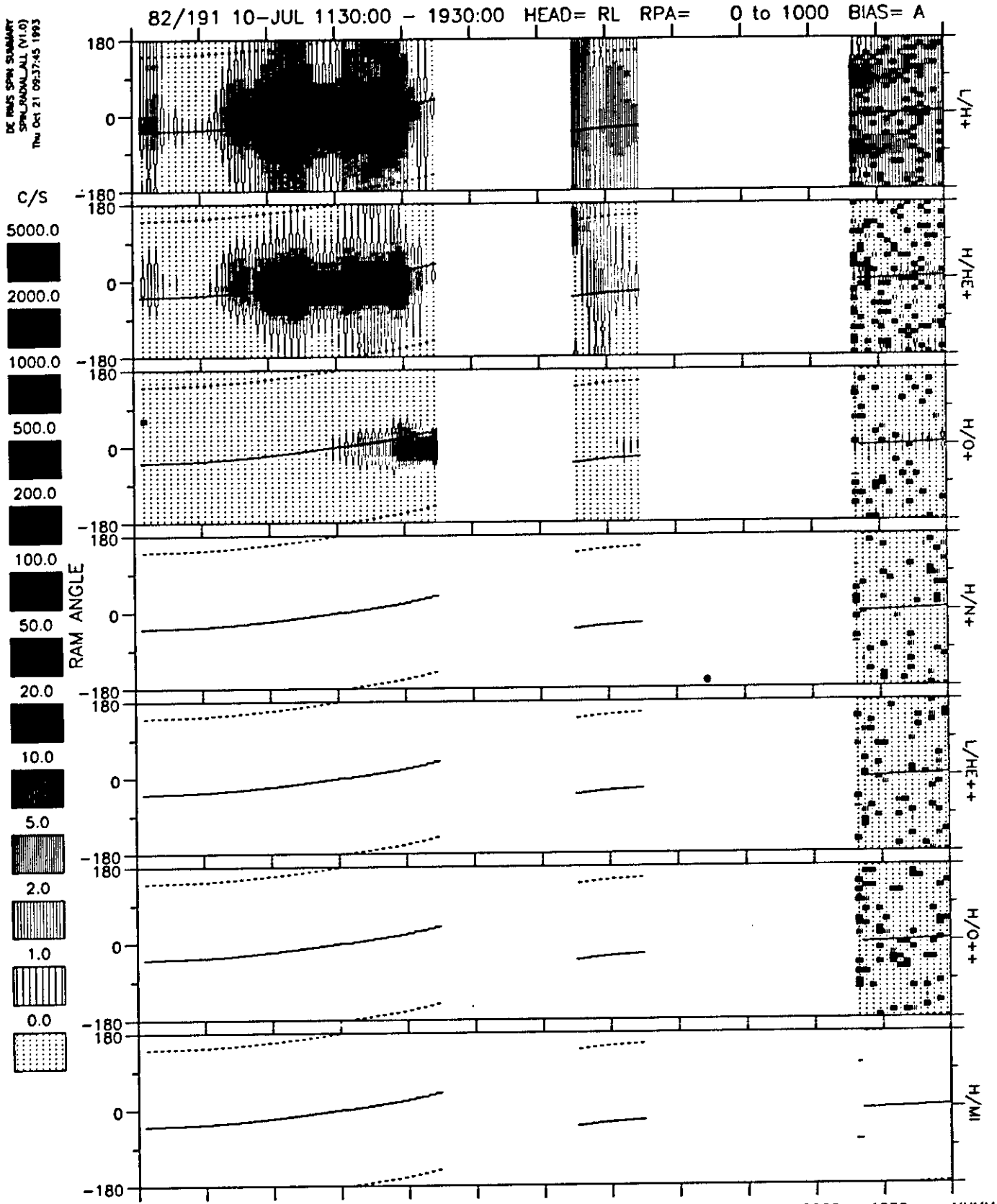
TIME	0000	0000	0000	0000	0000	0000	0000	2020	2100	2140	2220	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.5	4.7	4.6	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.8	4.7	4.7	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	15.9	15.9	15.8	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-3.44	6.01	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.3	62.7	62.6	62.5	DEGS



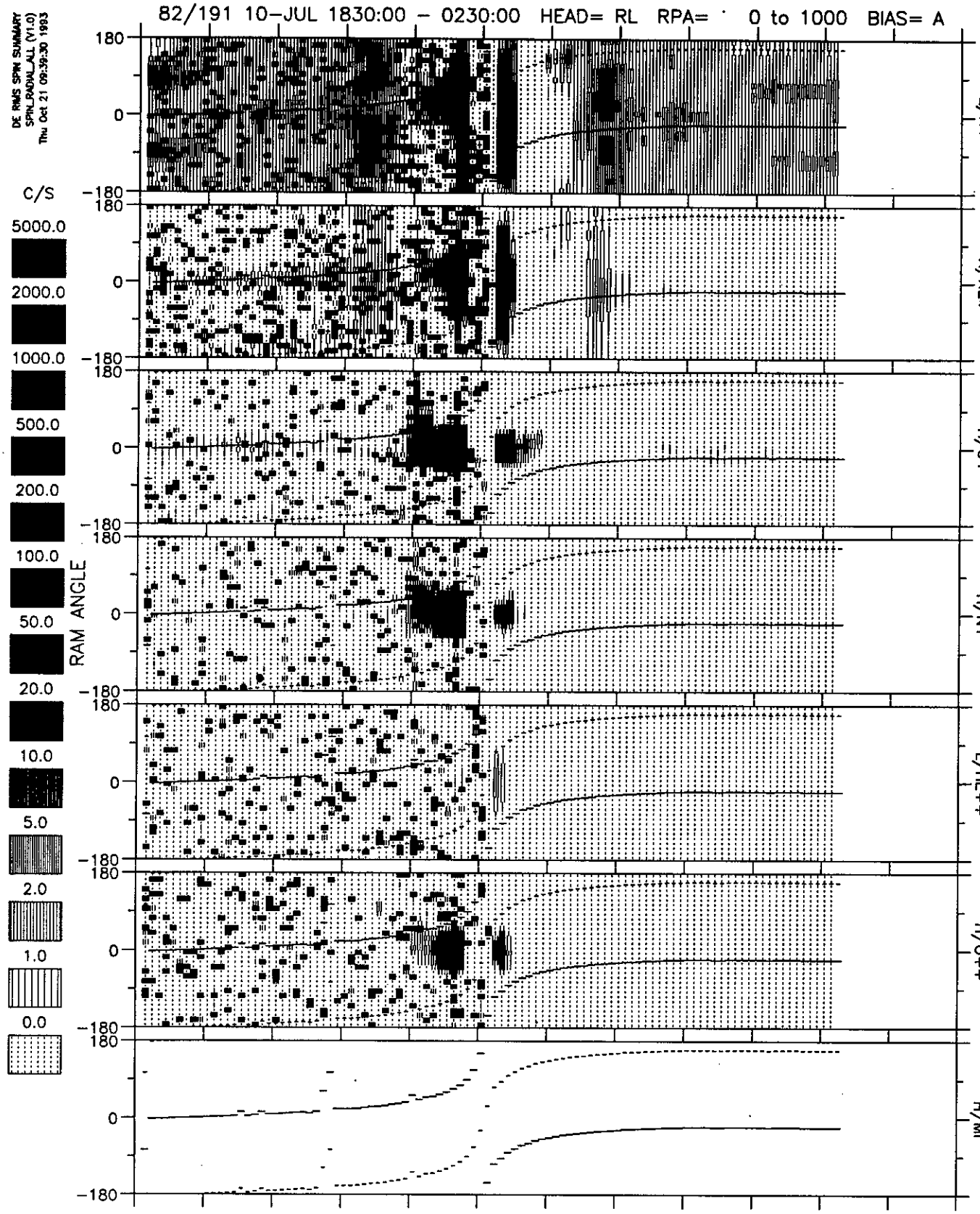
TIME	2255	2335	0015	0055	0000	0000	0255	0335	0415	0455	0535	HHMM
RE	4.3	3.8	2.8	1.5	0.0	0.0	3.7	4.3	4.6	4.7	4.4	RE
L	4.6	4.7	5.7	57.6	0.0	0.0	7.6	6.2	5.5	5.0	4.4	
MLT	15.7	15.5	15.1	8.2	0.0	0.0	16.3	16.0	15.7	15.6	15.4	HRS
MLAT	14.69	26.72	45.26	78.21	0.00	0.00	*****	*****	*****	*****	-5.99	DEGS
INVLAT	62.3	62.5	65.2	82.4	0.0	0.0	68.7	66.4	64.8	63.5	61.6	DEGS



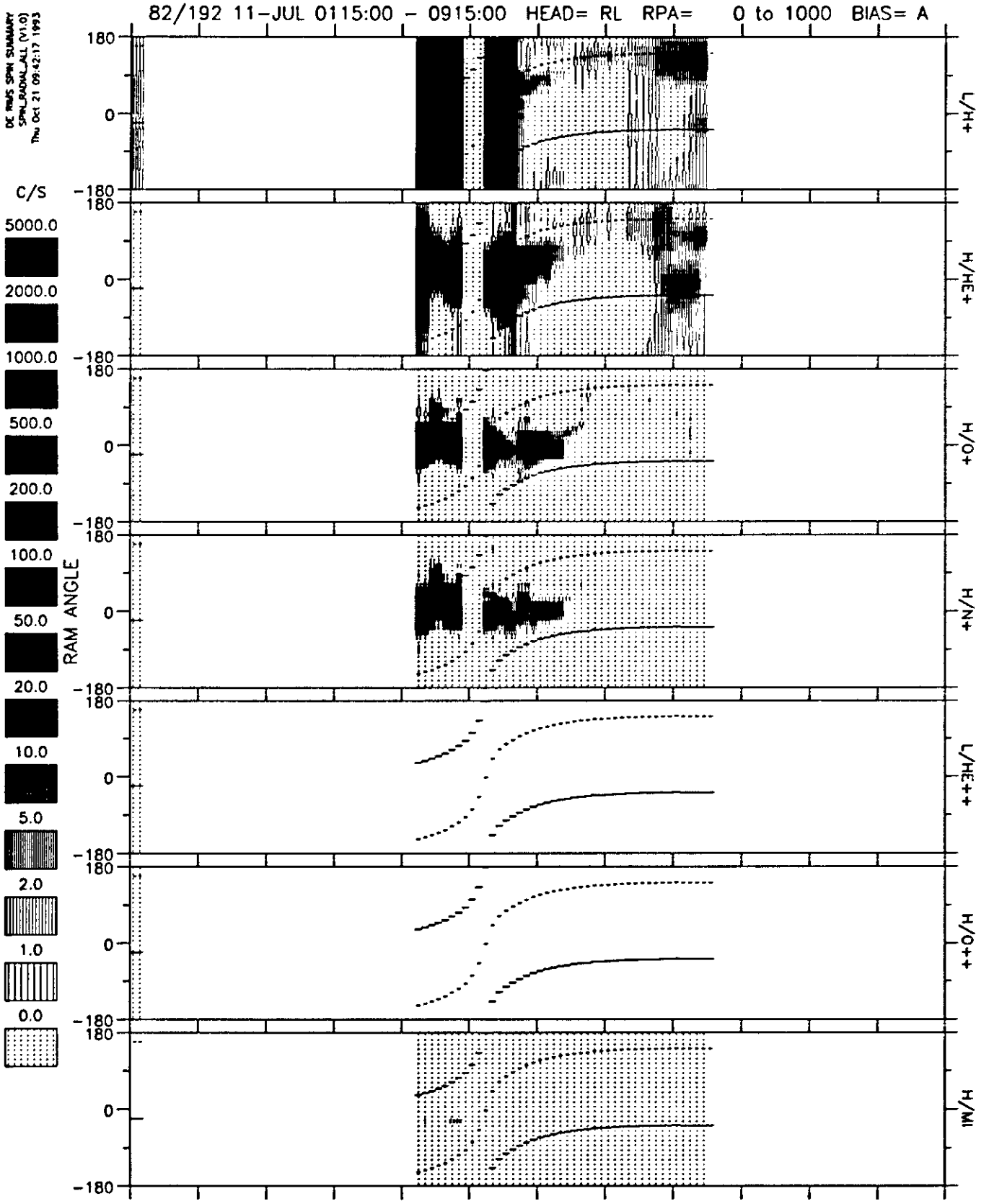
TIME	0510	0550	0630	0710	0750	0830	0910	0000	0000	1110	1150	HHMM
RE	4.6	4.3	3.7	2.7	1.4	1.6	2.9	0.0	0.0	4.6	4.6	RE
L	4.8	4.2	3.8	3.9	100.0	6.5	33.1	0.0	0.0	5.6	4.9	
MLT	15.5	15.4	15.3	15.2	6.3	3.4	14.5	0.0	0.0	14.9	15.0	HRS
MLAT	*****	-2.00	11.14	32.66	88.76	*****	*****	0.00	0.00	*****	*****	DEGS
INVLAT	62.7	60.9	59.0	59.6	86.8	66.8	80.0	0.0	0.0	65.1	63.2	DEGS



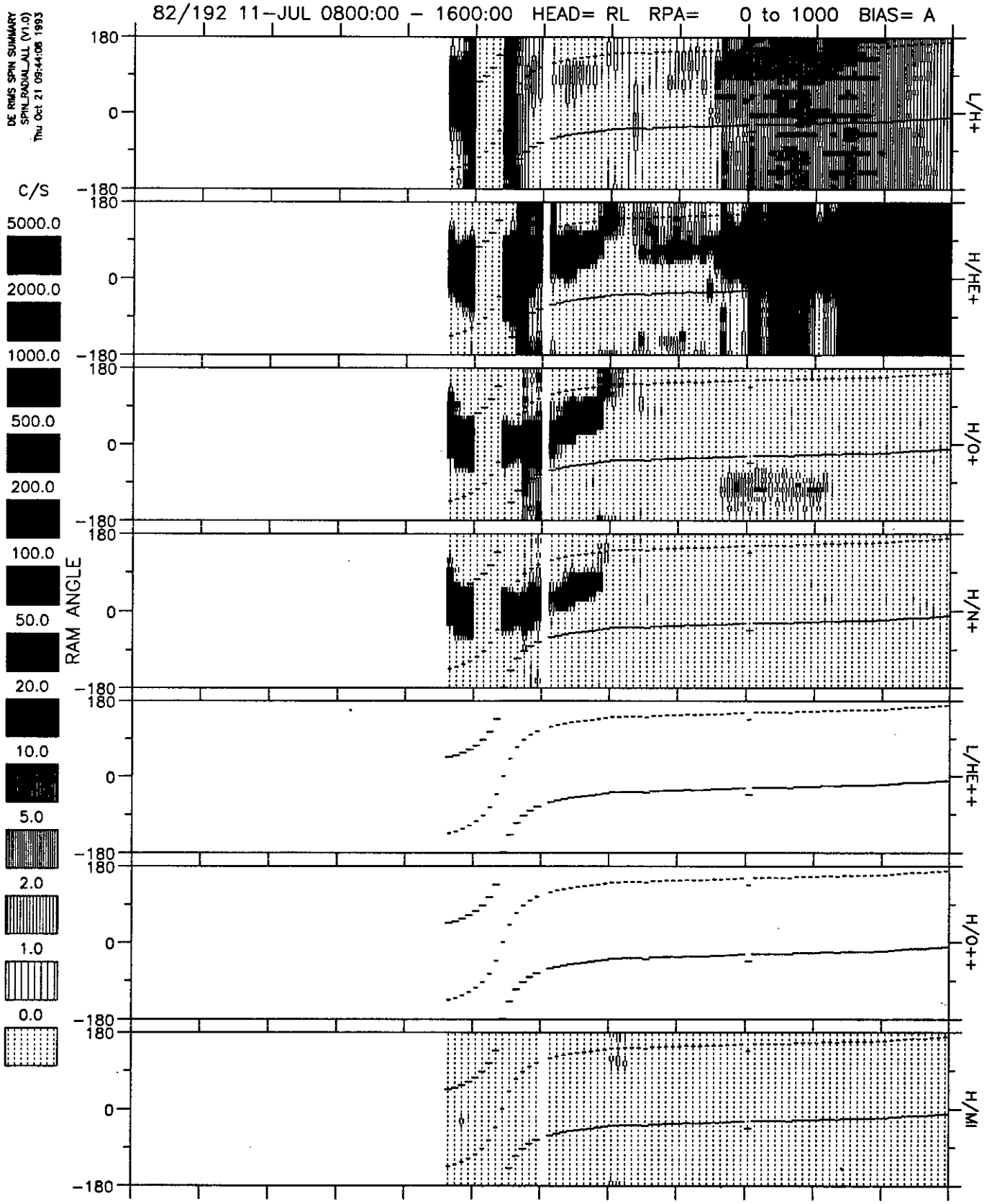
TIME	1210	1250	1330	1410	0000	0000	1610	0000	0000	0000	1850	HHMM
RE	4.6	4.2	3.5	2.4	0.0	0.0	3.2	0.0	0.0	0.0	4.6	RE
L	4.6	4.2	4.1	5.6	0.0	0.0	7.5	0.0	0.0	0.0	4.7	
MLT	15.1	15.2	15.5	16.1	0.0	0.0	14.6	0.0	0.0	0.0	15.6	HRS
MLAT	-7.02	6.34	23.24	50.28	0.00	0.00	•••••	0.00	0.00	0.00	6.37	DEGS
INVLAT	62.3	60.9	60.3	65.0	0.0	0.0	68.6	0.0	0.0	0.0	62.6	DEGS



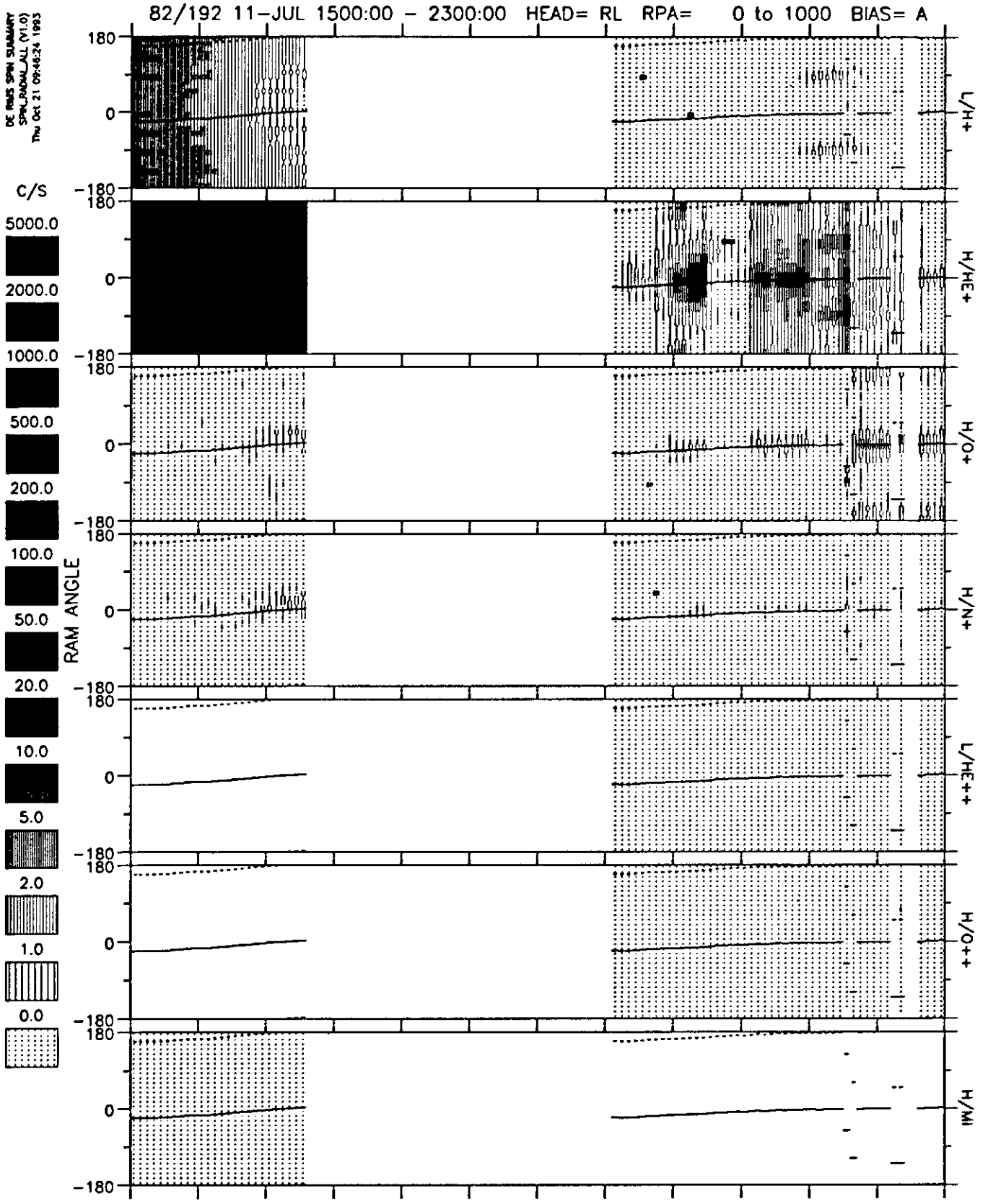
TIME	1910	1950	2030	2110	2150	2230	2310	2350	0030	0110	0000	HHMM
RE	4.5	4.0	3.3	2.1	1.1	2.3	3.4	4.1	4.5	4.7	0.0	RE
L	4.8	4.9	5.9	22.1	1.0	16.5	6.2	5.3	5.0	4.8	0.0	
MLT	15.7	15.7	15.7	15.1	3.7	17.0	16.3	16.1	15.9	15.8	0.0	HRS
MLAT	12.08	24.71	41.45	72.33	*****	*****	*****	*****	*****	-9.61	0.00	DEGS
INVLAT	62.7	63.3	65.6	77.7	10.1	75.8	66.4	64.3	63.5	62.8	0.0	DEGS



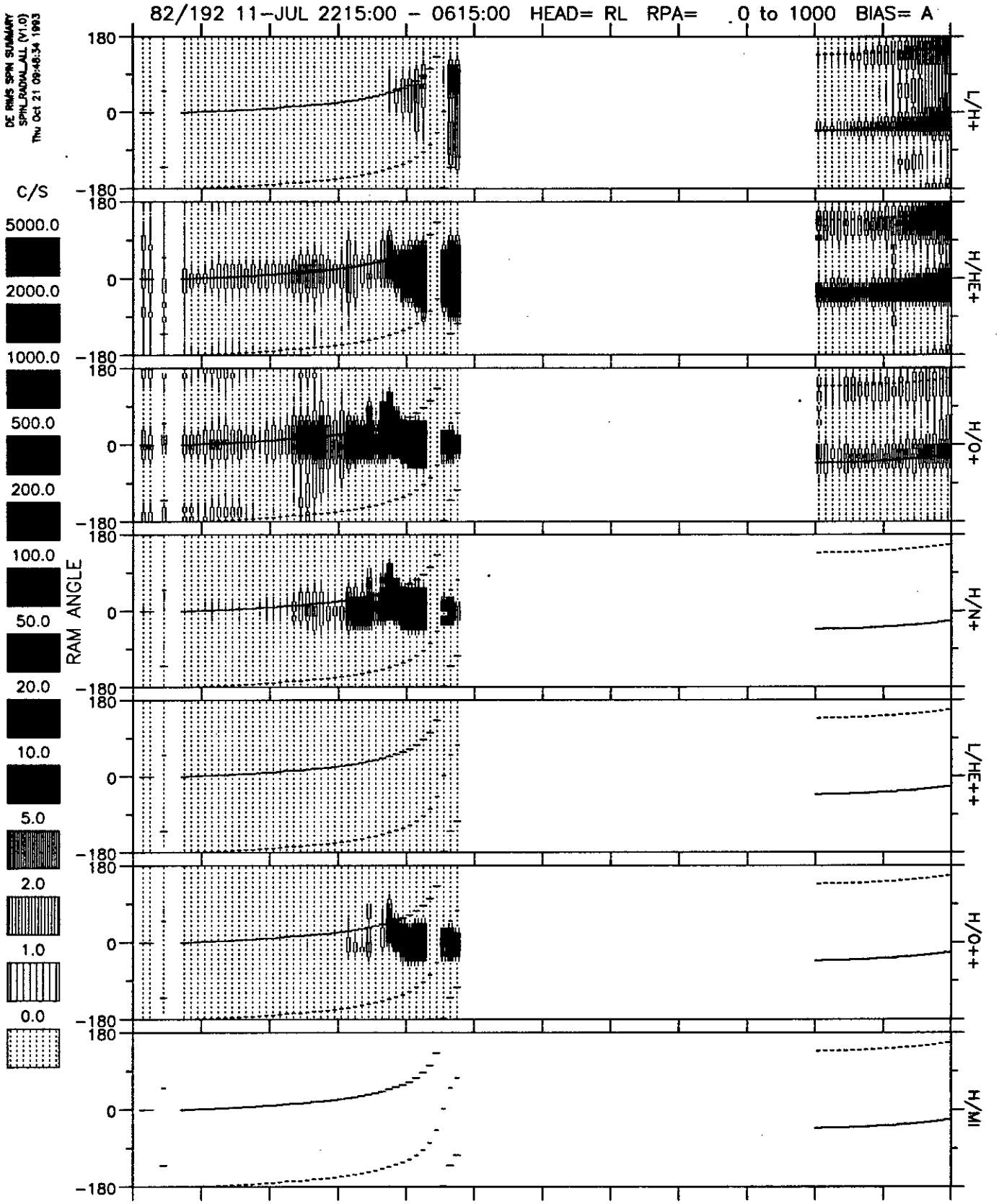
TIME	0000	0000	0000	0000	0435	0515	0555	0635	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	0.0	1.1	2.1	3.3	4.0	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	0.0	1.3	65.7	17.3	8.9	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	0.0	3.8	23.5	16.1	15.6	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	34.10	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	29.2	82.9	76.1	70.4	0.0	0.0	0.0	DEGS



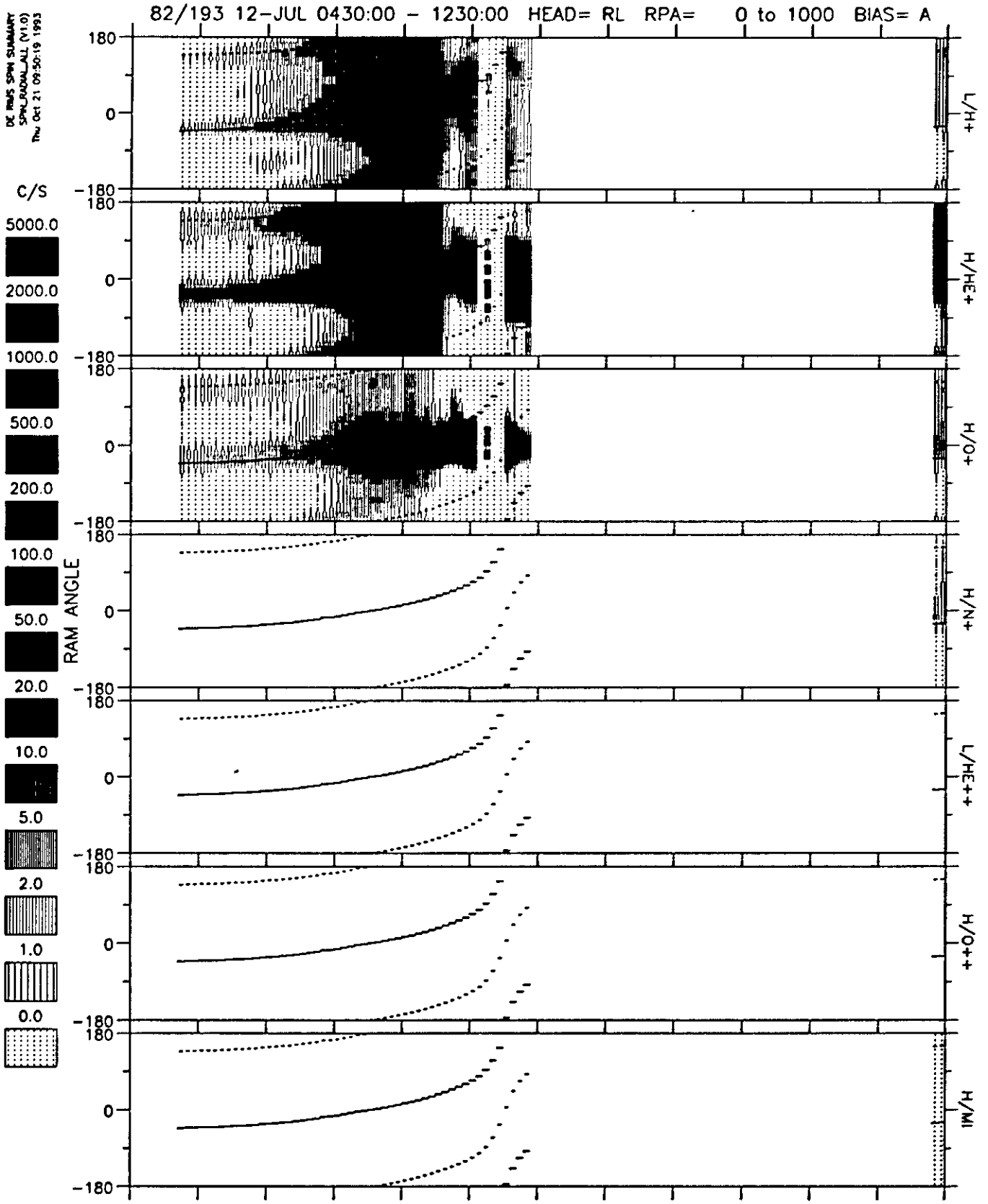
TIME	0000	0000	0000	0000	1120	0000	1240	1320	1400	1440	1520	HHMM
RE	0.0	0.0	0.0	0.0	1.2	0.0	3.1	3.9	4.4	4.7	4.6	RE
L	0.0	0.0	0.0	0.0	4.6	0.0	12.5	7.1	5.7	5.1	4.7	
MLT	0.0	0.0	0.0	0.0	2.1	0.0	13.8	14.4	14.7	15.0	15.2	HRS
MLAT	0.00	0.00	0.00	0.00	59.17	0.00	*****	*****	*****	*****	-1.40	DEGS
INVLAT	0.0	0.0	0.0	0.0	62.1	0.0	73.6	67.9	65.2	63.6	62.5	DEGS



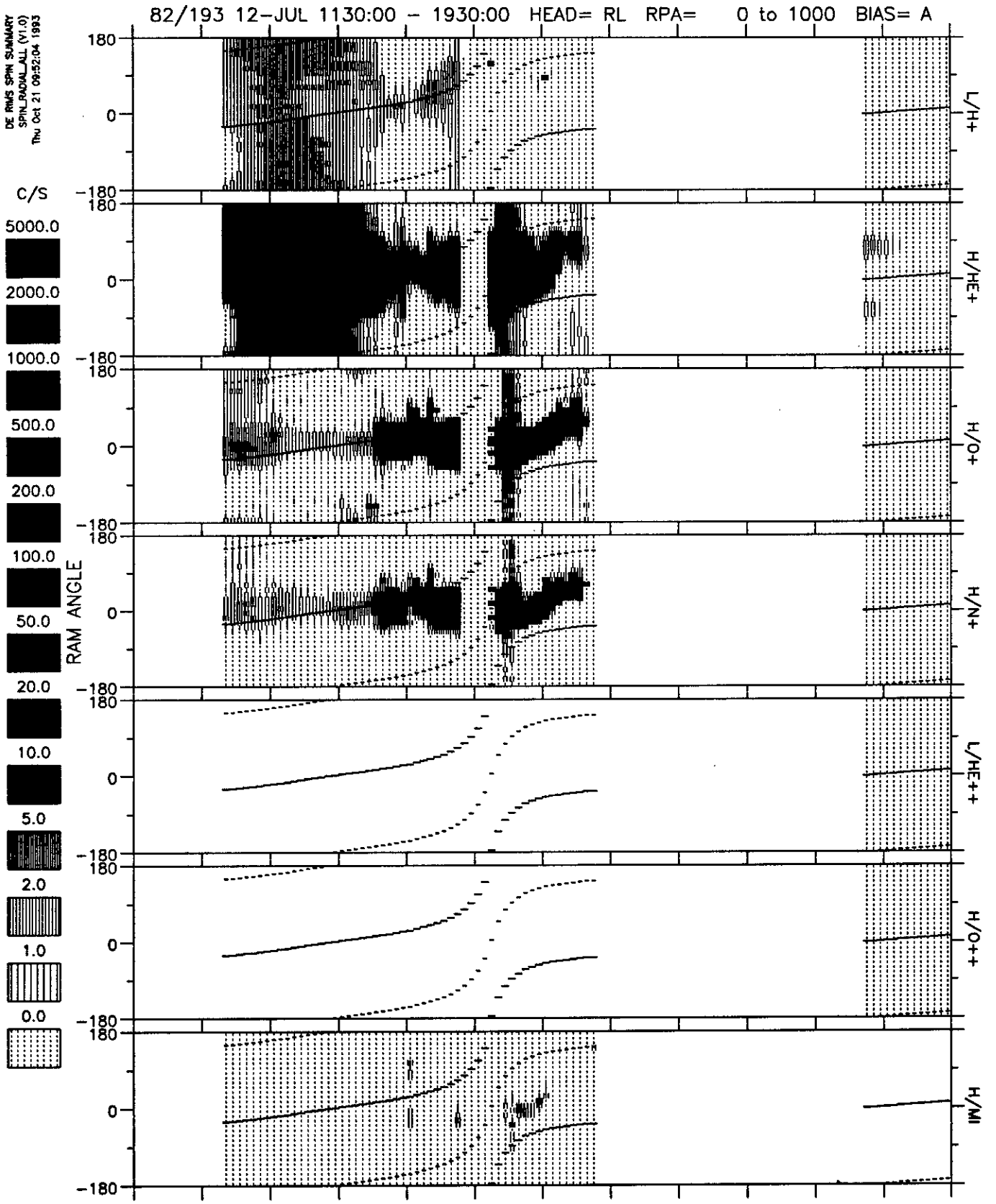
TIME	1540	1620	0000	0000	0000	0000	0000	2020	2100	2140	2220	HHMM
RE	4.5	4.1	0.0	0.0	0.0	0.0	0.0	4.1	4.5	4.7	4.6	RE
L	4.6	4.5	0.0	0.0	0.0	0.0	0.0	5.0	4.8	4.7	4.7	
MLT	15.3	15.5	0.0	0.0	0.0	0.0	0.0	15.7	15.7	15.7	15.6	HRS
MLAT	4.83	18.57	0.00	0.00	0.00	0.00	0.00	*****	*****	-2.94	6.50	DEGS
INVLAT	62.1	61.8	0.0	0.0	0.0	0.0	0.0	63.3	62.8	62.6	62.4	DEGS



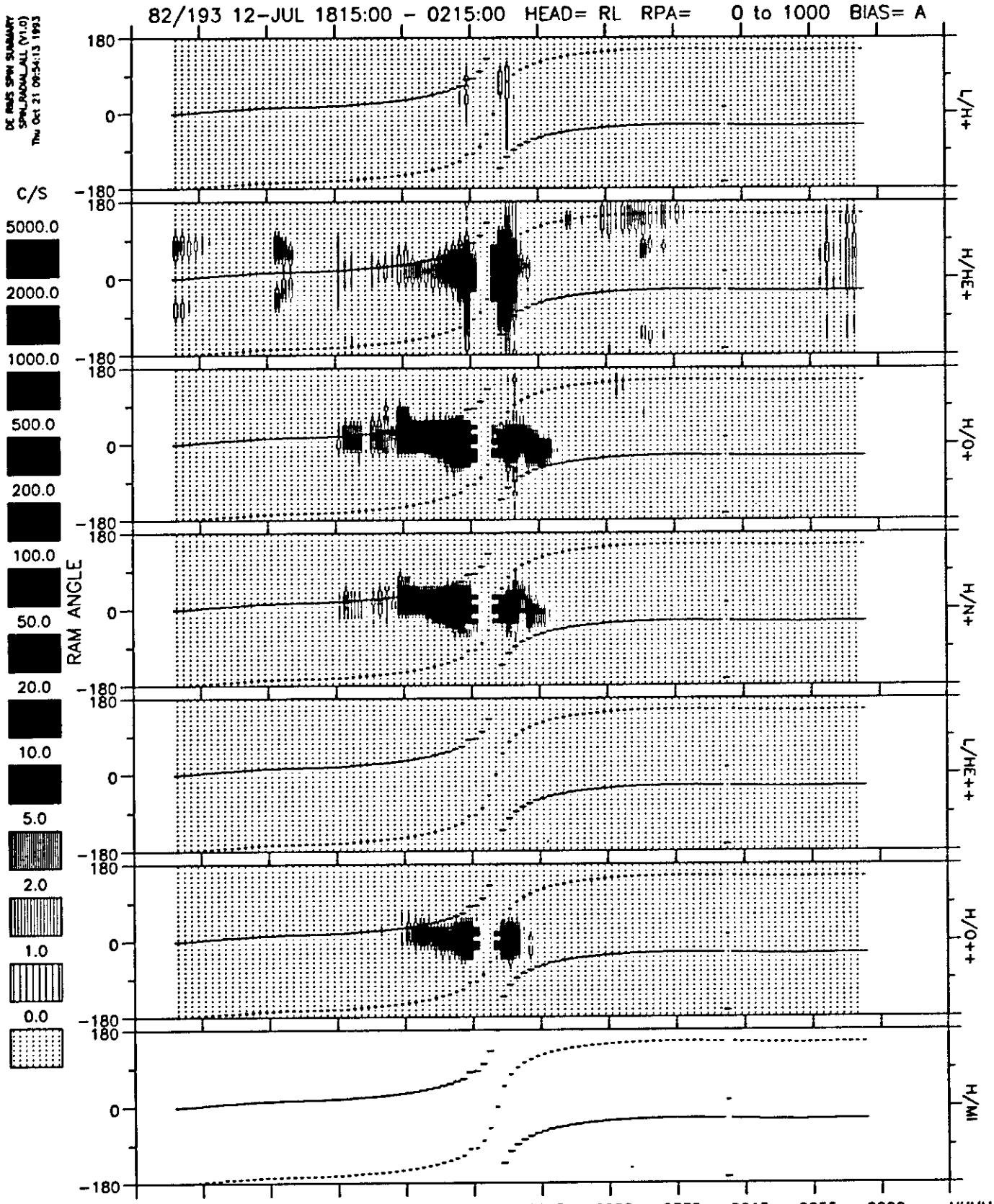
TIME	2255	2335	0015	0055	0000	0000	0000	0000	0000	0455	0535	HHMM
RE	4.3	3.7	2.7	1.4	0.0	0.0	0.0	0.0	0.0	4.6	4.4	RE
L	4.6	4.7	5.9	12.1	0.0	0.0	0.0	0.0	0.0	4.9	4.4	
MLT	15.5	15.3	14.8	5.6	0.0	0.0	0.0	0.0	0.0	15.4	15.3	HRS
MLAT	15.34	27.86	47.99	69.13	0.00	0.00	0.00	0.00	0.00	*****	-5.38	DEGS
INVLAT	62.2	62.4	65.8	73.3	0.0	0.0	0.0	0.0	0.0	63.2	61.4	DEGS



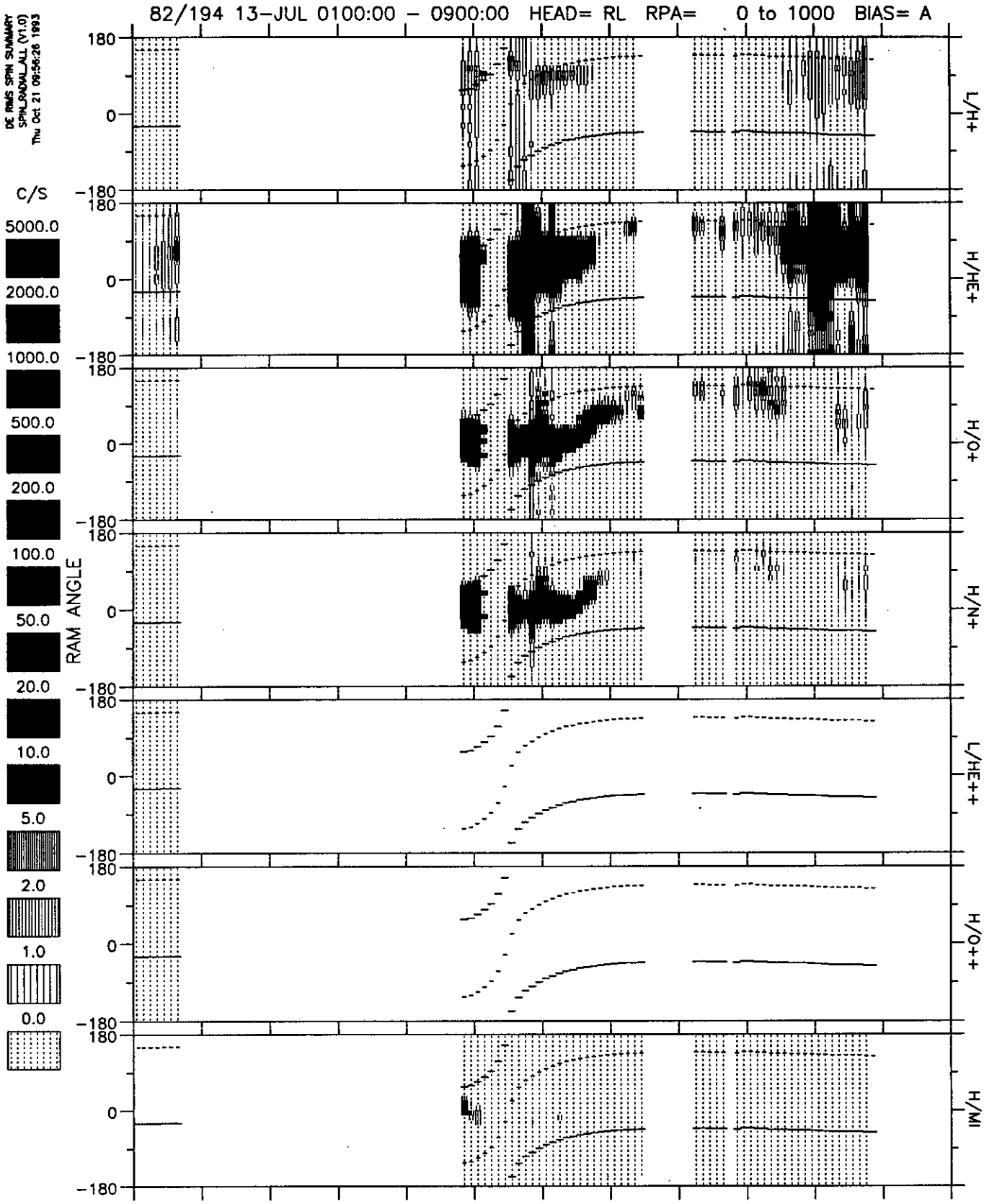
TIME	0510	0550	0630	0710	0750	0000	0000	0000	0000	0000	0000	HHMM
.RE	4.6	4.2	3.6	2.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	4.7	4.2	3.7	4.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	15.4	15.2	15.1	15.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	•••••	-1.26	12.53	36.04	72.21	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	62.5	60.6	58.7	60.2	73.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



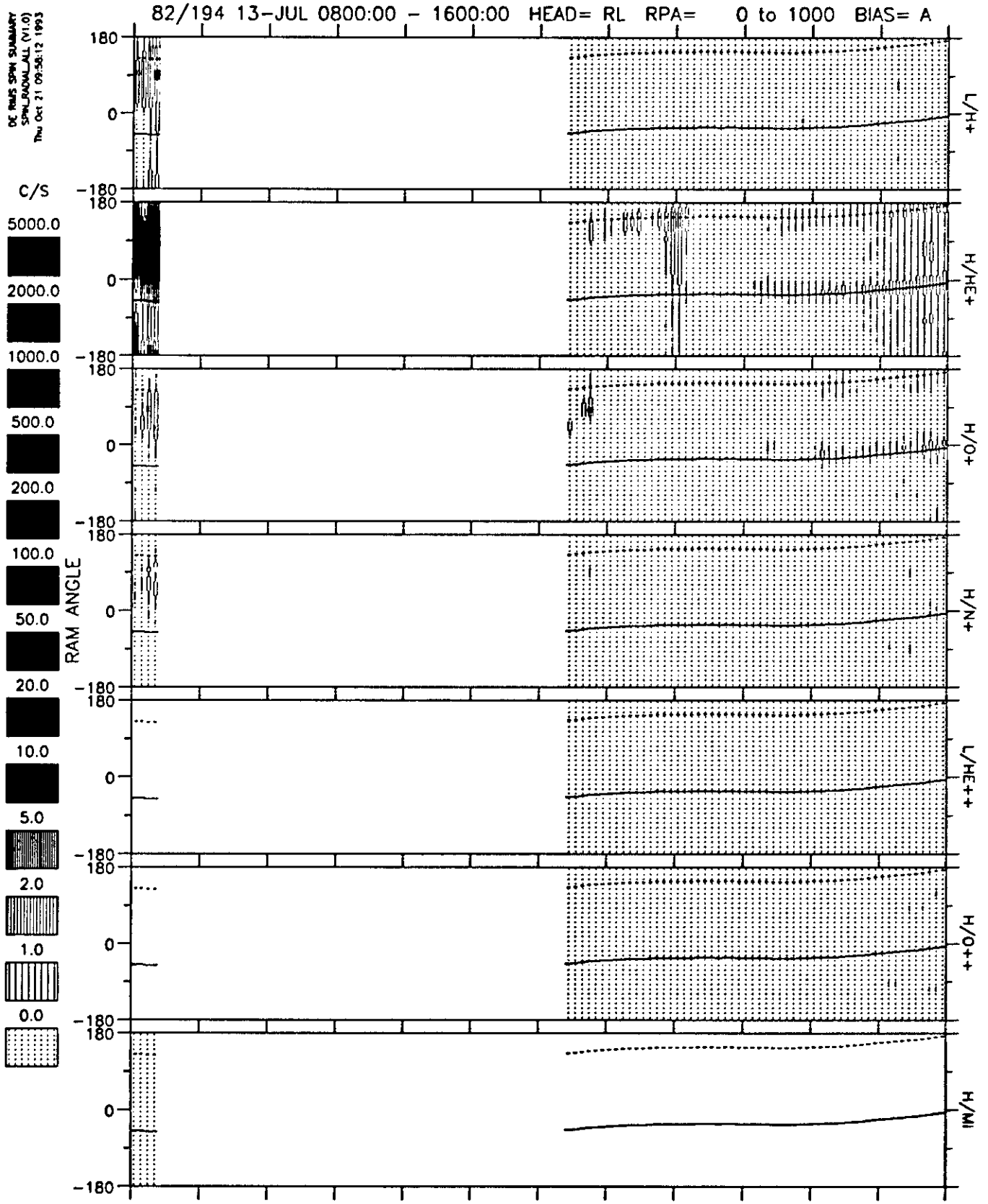
TIME	0000	1250	1330	1410	1450	1530	0000	0000	0000	0000	1850	HHMM
RE	0.0	4.1	3.4	2.3	1.1	2.2	0.0	0.0	0.0	0.0	4.6	RE
L	0.0	4.2	4.0	6.5	1.2	27.9	0.0	0.0	0.0	0.0	4.7	
MLT	0.0	15.1	15.4	16.2	2.8	12.1	0.0	0.0	0.0	0.0	15.5	HRS
MLAT	0.00	7.76	25.43	55.10	17.61	*****	0.00	0.00	0.00	0.00	7.20	DEGS
INVLAT	0.0	60.7	60.2	66.8	22.1	79.1	0.0	0.0	0.0	0.0	62.6	DEGS



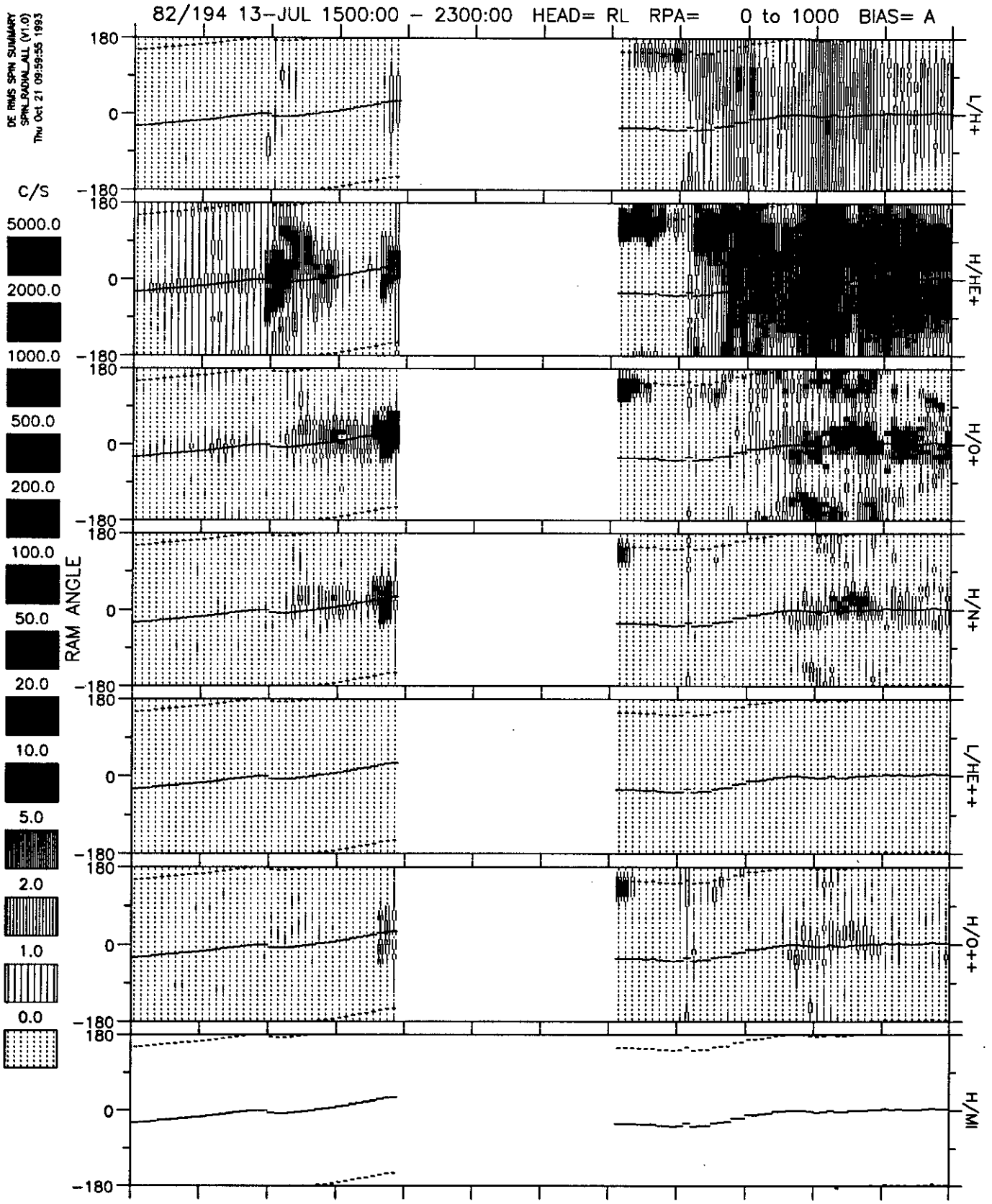
TIME	1855	1935	2015	2055	2135	2215	2255	2335	0015	0055	0000	HHMM
RE	4.6	4.2	3.5	2.4	1.2	2.0	3.2	4.0	4.4	4.7	0.0	RE
L	4.7	4.8	5.4	10.5	1.9	49.1	7.0	5.5	5.1	4.9	0.0	
MLT	15.5	15.6	15.5	15.3	3.9	18.5	16.2	16.0	15.8	15.7	0.0	HRS
MLAT	8.64	20.75	36.02	61.36	36.11	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	62.6	62.9	64.5	72.1	44.0	81.8	67.8	64.8	63.8	63.1	0.0	DEGS



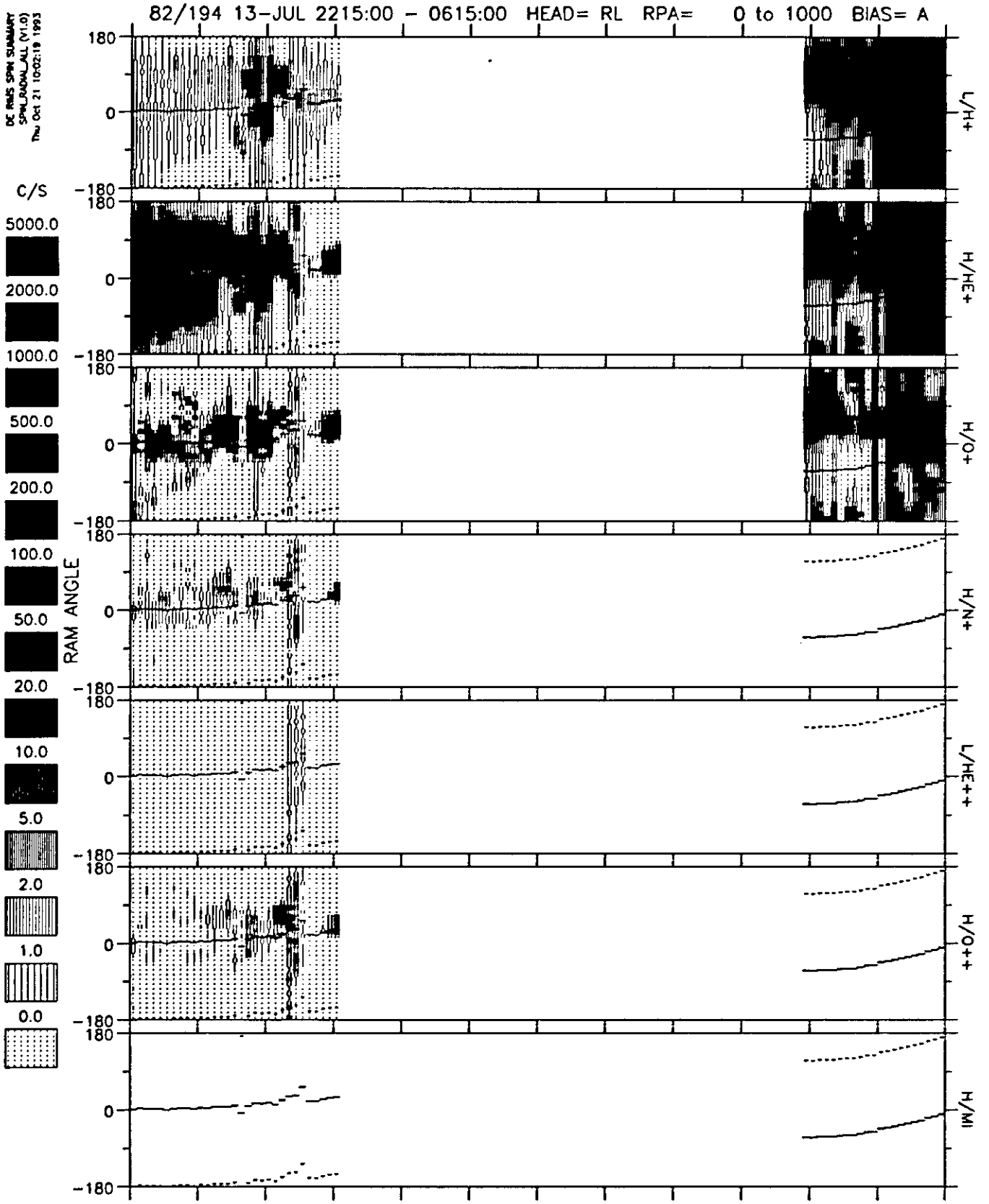
TIME	0000	0000	0000	0000	0420	0500	0540	0000	0700	0740	0000	HHMM
RE	0.0	0.0	0.0	0.0	1.3	1.8	3.0	0.0	4.4	4.6	0.0	RE
L	0.0	0.0	0.0	0.0	10.8	11.1	26.6	0.0	7.3	5.9	0.0	
MLT	0.0	0.0	0.0	0.0	5.3	1.8	16.3	0.0	15.2	15.1	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	72.66	*****	*****	0.00	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	72.3	72.5	78.8	0.0	68.2	65.7	0.0	DEGS



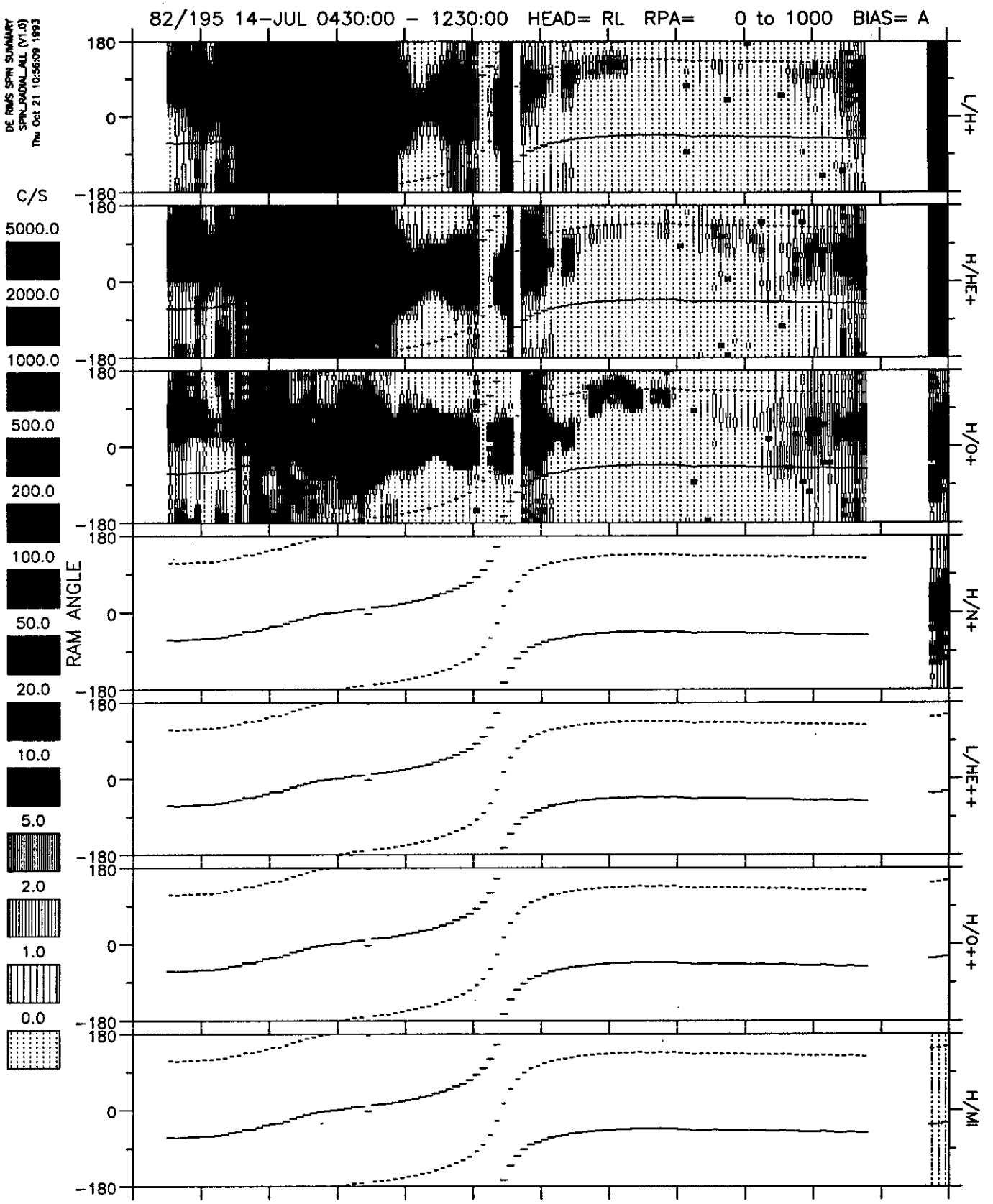
TIME	0000	0000	0000	0000	0000	0000	1240	1320	1400	1440	1520	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	3.2	4.0	4.5	4.7	4.6	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	11.4	6.9	5.6	5.0	4.7	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	13.8	14.3	14.6	14.8	15.1	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	•••••	•••••	•••••	•••••	-0.33	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	72.8	67.6	65.1	63.5	62.4	DEGS



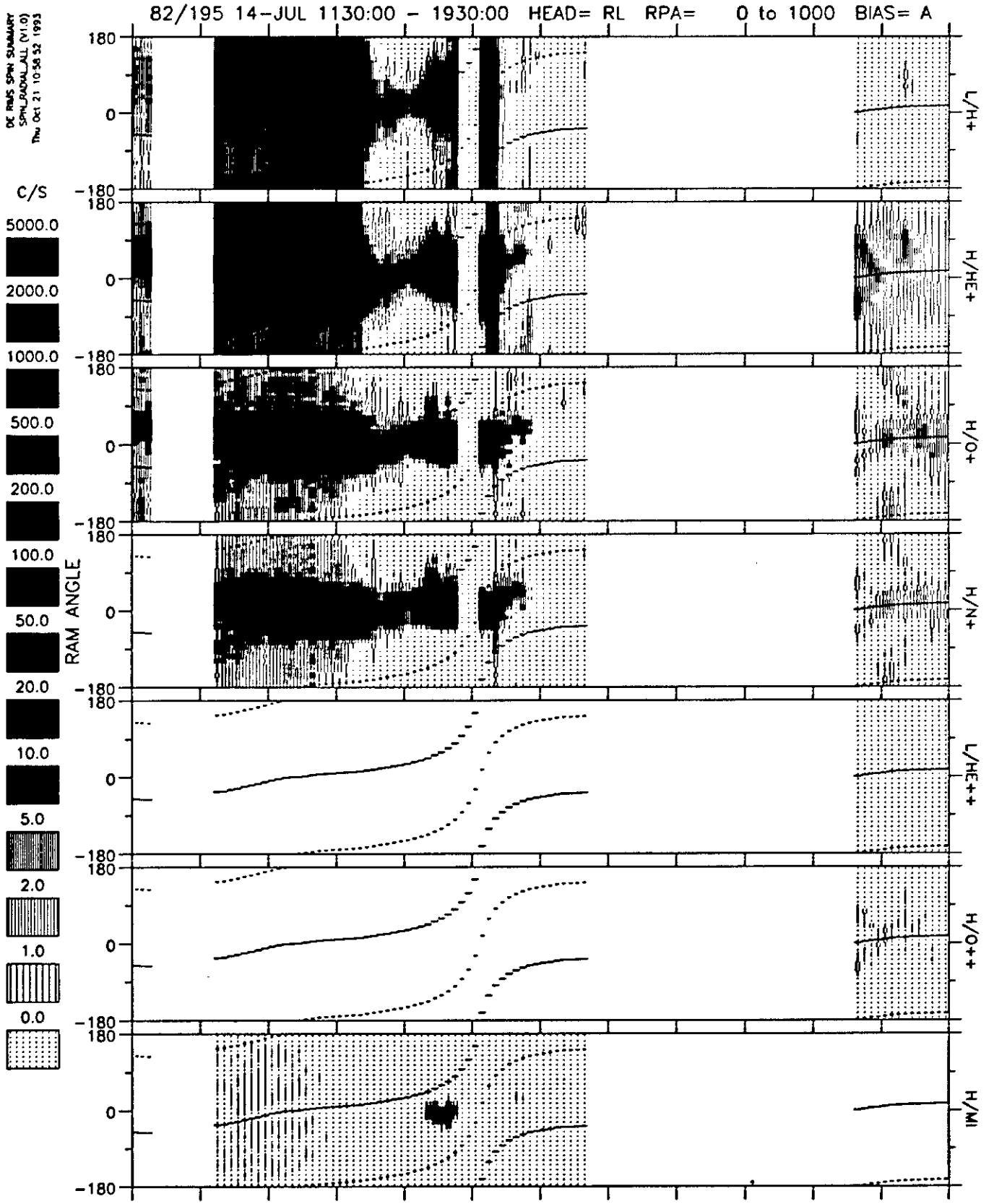
TIME	1540	1620	1700	0000	0000	0000	0000	2020	2100	2140	2220	HHMM
RE	4.5	4.0	3.3	0.0	0.0	0.0	0.0	4.1	4.5	4.7	4.5	RE
L	4.5	4.5	4.9	0.0	0.0	0.0	0.0	5.0	4.8	4.7	4.6	
MLT	15.2	15.4	15.6	0.0	0.0	0.0	0.0	15.6	15.6	15.6	15.5	HRS
MLAT	5.97	20.03	36.71	0.00	0.00	0.00	0.00	*****	*****	-2.41	7.03	DEGS
INVLAT	62.1	61.8	63.1	0.0	0.0	0.0	0.0	63.3	62.8	62.6	62.3	DEGS



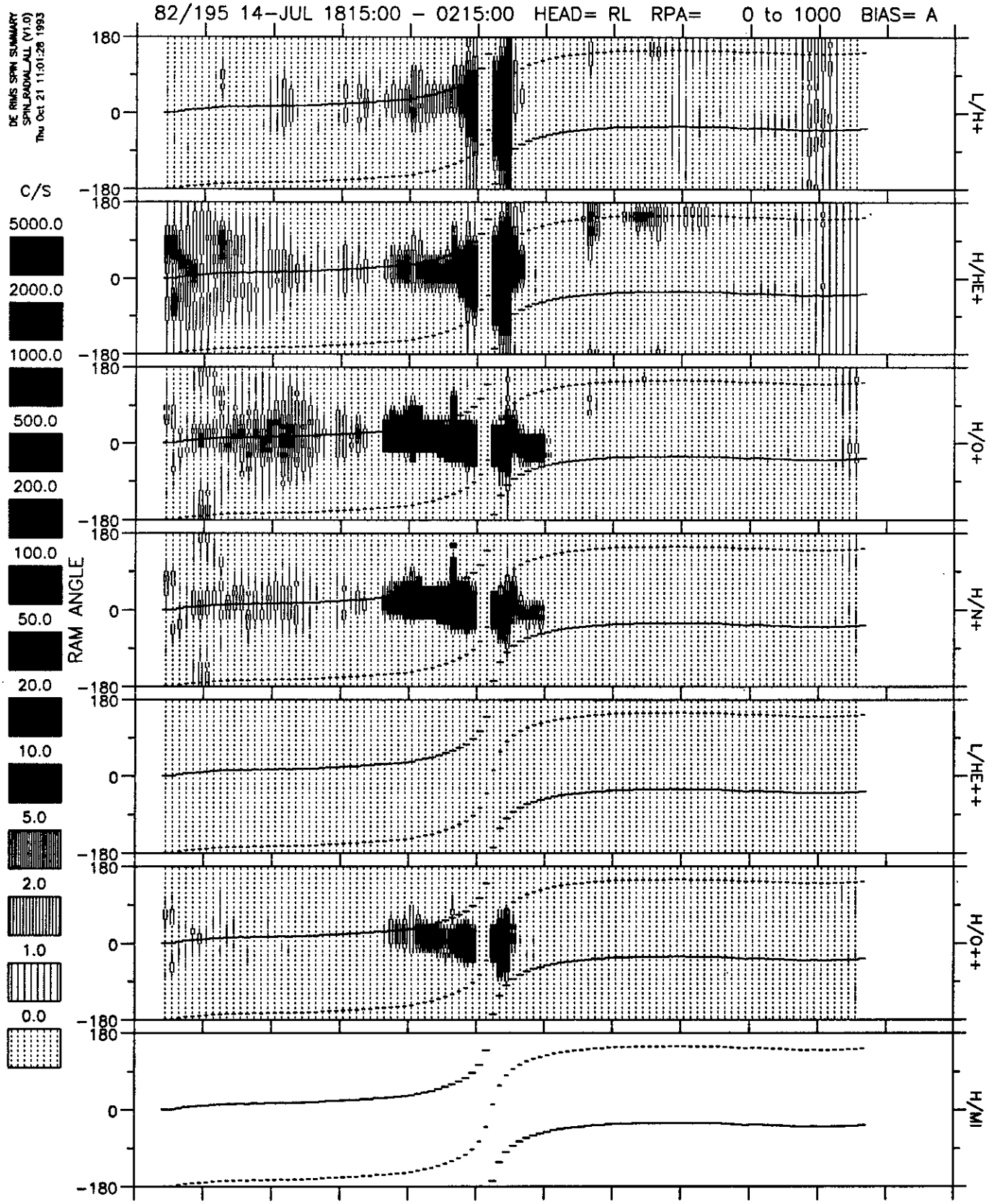
TIME	2255	2335	0015	0000	0000	0000	0000	0000	0000	0455	0535	HHMM
RE	4.2	3.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.3	RE
L	4.6	4.6	6.2	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.3	
MLT	15.4	15.2	14.6	0.0	0.0	0.0	0.0	0.0	0.0	15.3	15.1	HRS
MLAT	16.00	29.07	50.33	0.00	0.00	0.00	0.00	0.00	0.00	*****	-4.75	DEGS
INVLAT	62.1	62.3	66.4	0.0	0.0	0.0	0.0	0.0	0.0	63.1	61.1	DEGS



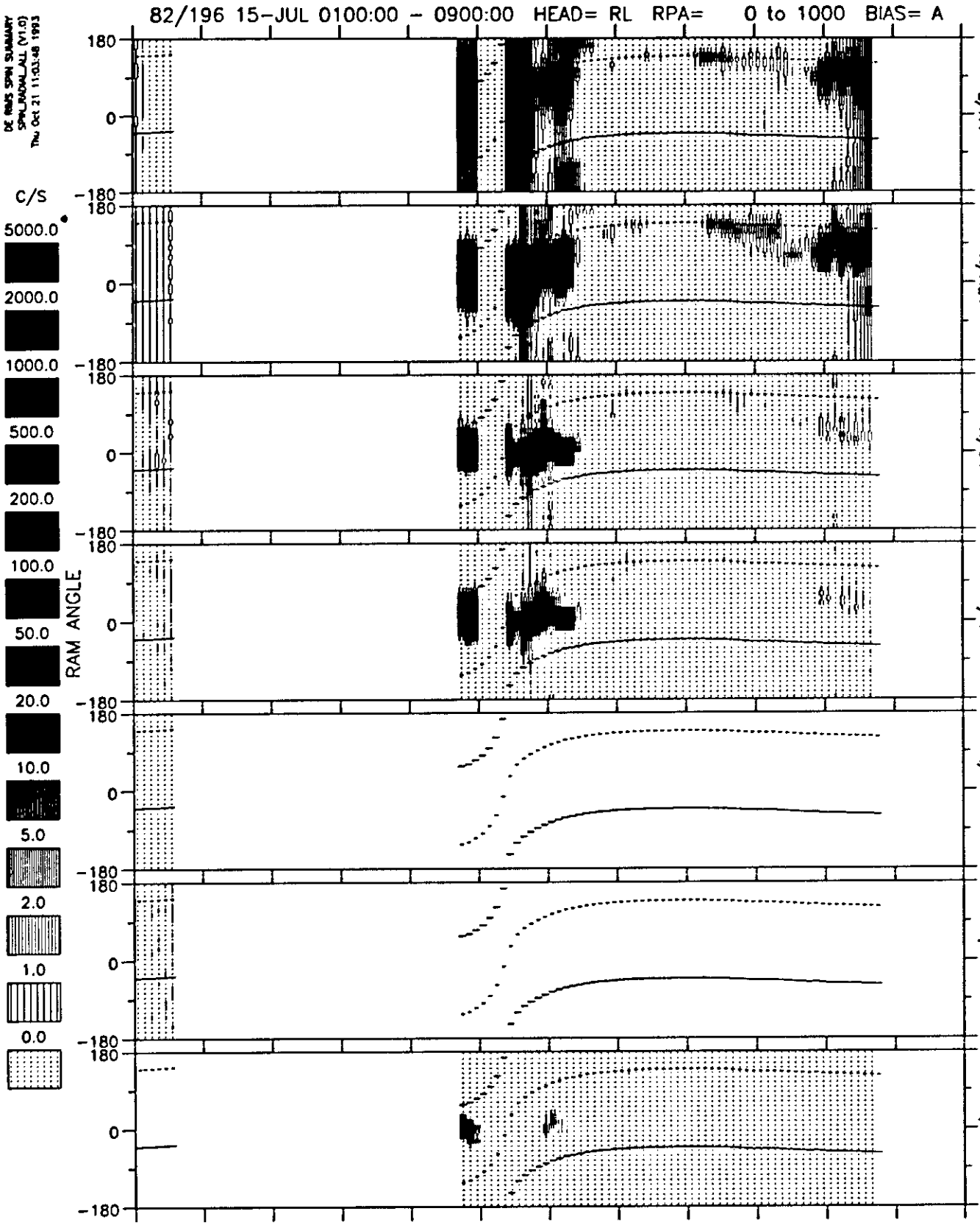
TIME	0510	0550	0630	0710	0750	0830	0910	0950	1030	1110	0000	HHMM
RE	4.5	4.2	3.5	2.4	1.1	2.0	3.2	4.0	4.5	4.7	0.0	RE
L	4.7	4.1	3.6	4.3	3.0	35.0	21.5	9.1	6.6	5.5	0.0	
MLT	15.2	15.1	15.0	14.9	3.0	3.6	14.3	14.5	14.6	14.6	0.0	HRS
MLAT	*****	-0.46	14.08	40.09	52.16	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	62.4	60.3	58.4	61.2	54.9	80.3	77.5	70.7	67.2	64.8	0.0	DEGS

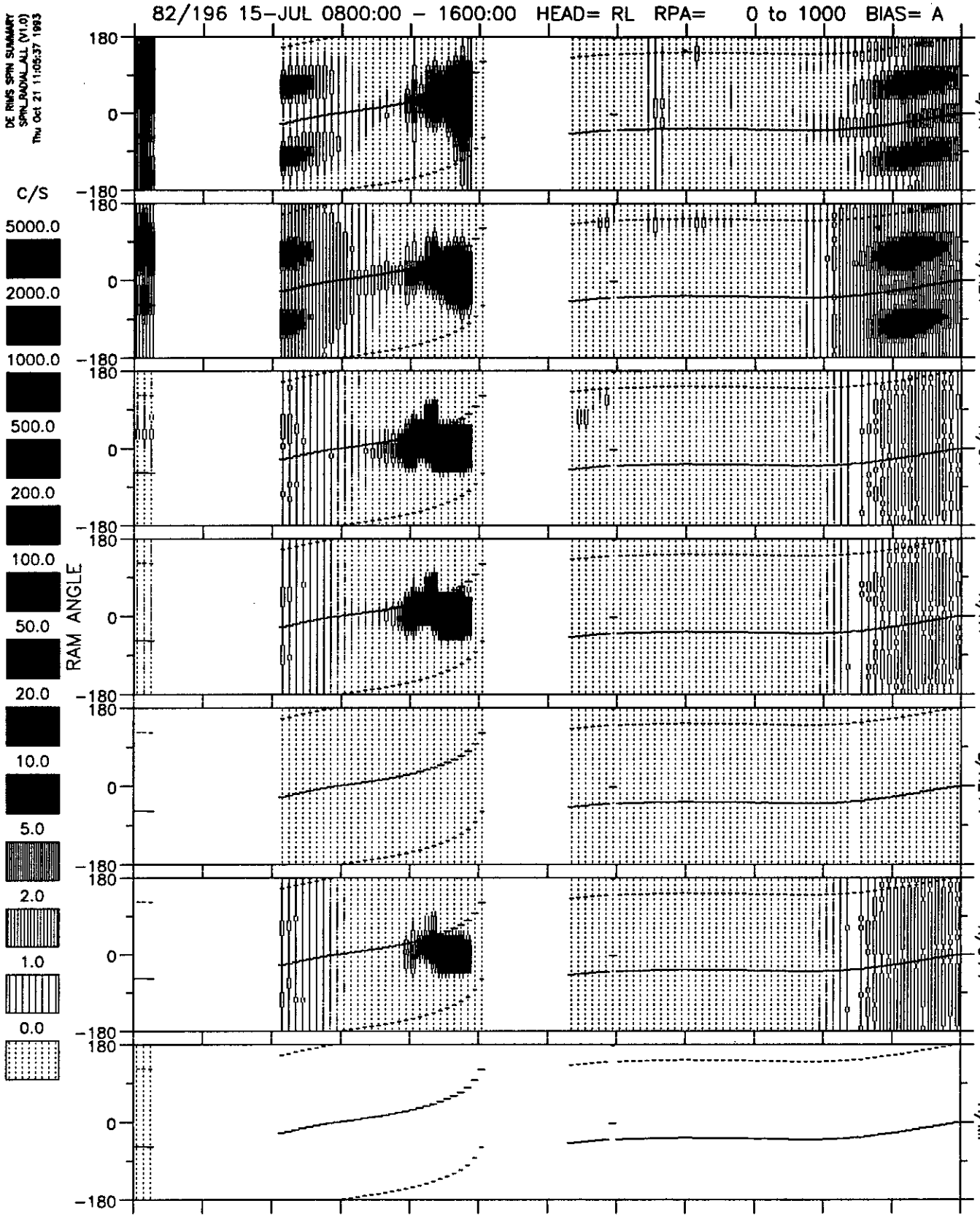


TIME	0000	1250	1330	1410	1450	1530	0000	0000	0000	0000	1850	HHMM
RE	0.0	4.0	3.3	2.1	1.1	2.3	0.0	0.0	0.0	0.0	4.6	RE
L	0.0	4.1	4.1	8.0	1.1	20.2	0.0	0.0	0.0	0.0	4.7	
MLT	0.0	15.0	15.3	16.4	3.0	12.8	0.0	0.0	0.0	0.0	15.4	HRS
MLAT	0.00	9.21	27.74	60.52	-6.52	•••••	0.00	0.00	0.00	0.00	8.06	DEGS
INVLAT	0.0	60.5	60.2	69.3	15.4	77.2	0.0	0.0	0.0	0.0	62.6	DEGS

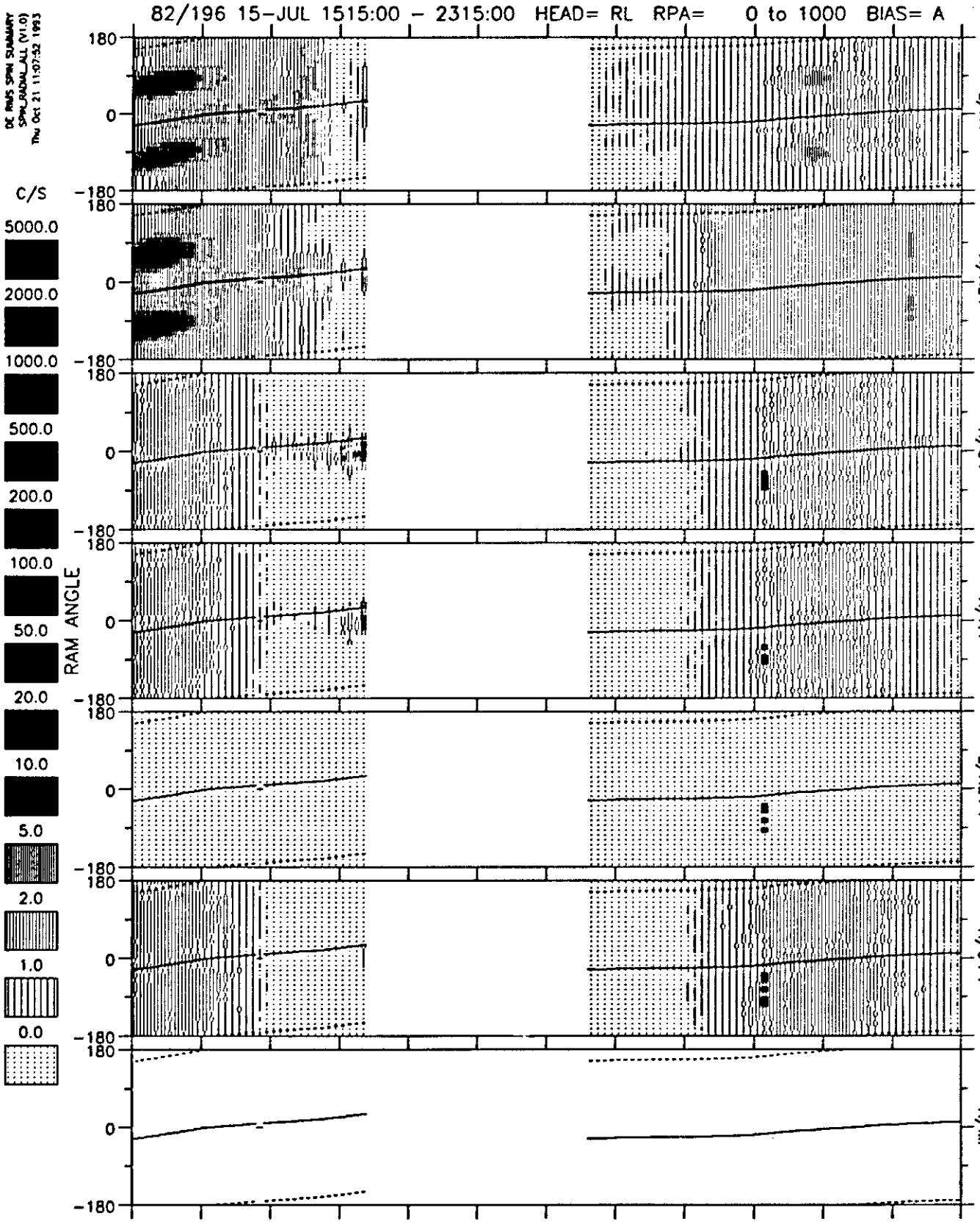


TIME	1855	1935	2015	2055	2135	2215	2255	2335	0015	0055	0000	HHMM
RE	4.5	4.1	3.4	2.3	1.1	2.1	3.3	4.0	4.5	4.7	0.0	RE
L	4.7	4.8	5.5	13.2	1.1	28.2	6.8	5.5	5.2	4.9	0.0	
MLT	15.4	15.4	15.4	15.0	3.6	17.3	16.1	15.8	15.7	15.5	0.0	HRS
MLAT	9.47	21.80	37.76	65.69	13.58	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	62.6	62.9	64.7	74.0	17.2	79.1	67.5	64.9	63.9	63.1	0.0	DEGS

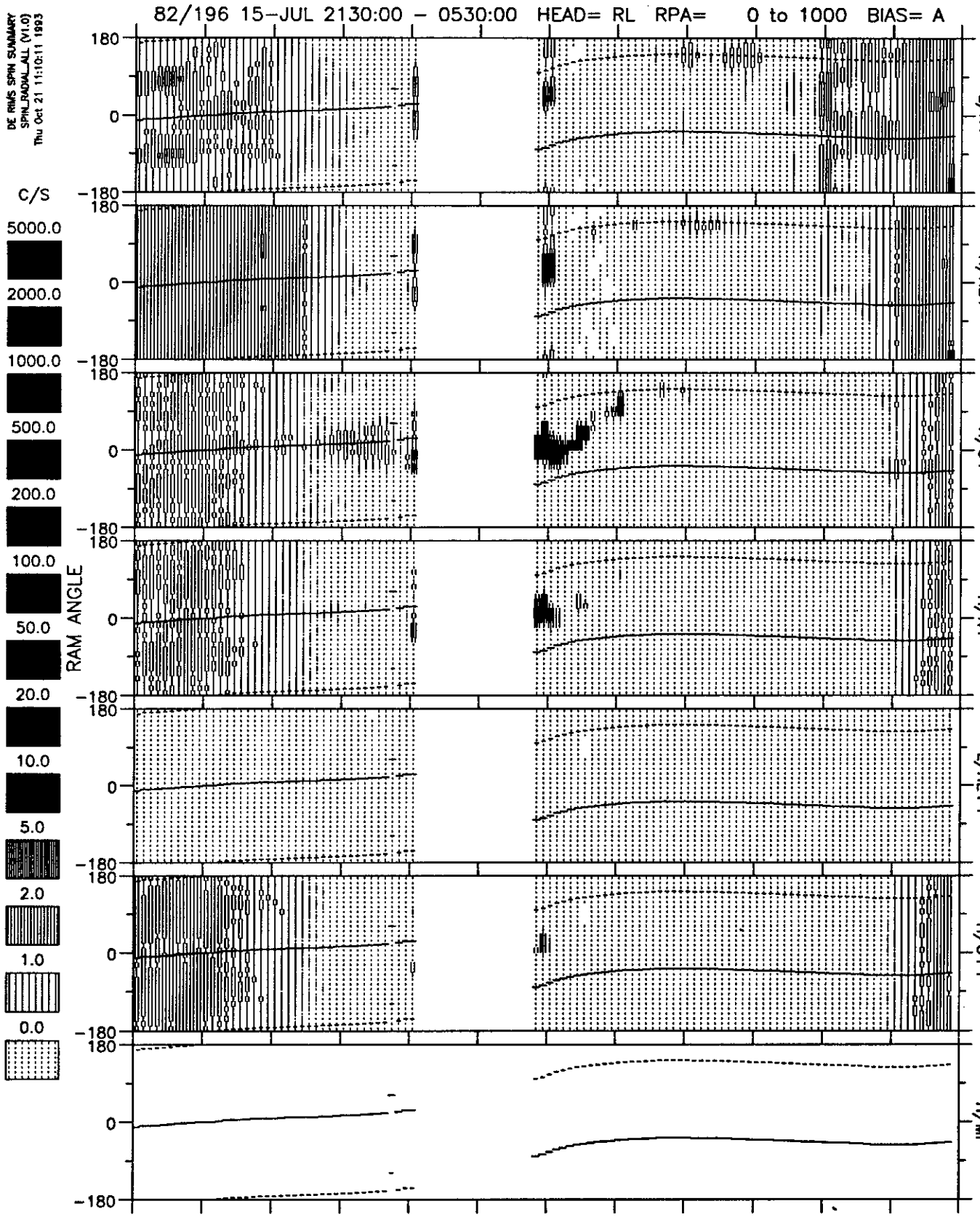

82/196 15-JUL 0100:00 - 0900:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Oct 21 11:03:48 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 0000 0000 0000 0000 0420 0500 0540 0620 0700 0740 0000 HHMM
RE 0.0 0.0 0.0 0.0 1.2 1.9 3.1 4.0 4.4 4.7 0.0 RE
L 0.0 0.0 0.0 0.0 2.9 23.9 22.8 9.9 7.2 5.9 0.0
MLT 0.0 0.0 0.0 0.0 4.0 1.1 16.0 15.3 15.1 14.9 0.0 HRS
MLAT 0.00 0.00 0.00 0.00 55.74 ***** ***** ***** ***** ***** 0.00 DEGS
INVLAT 0.0 0.0 0.0 0.0 53.9 78.2 77.9 71.5 68.1 65.6 0.0 DEGS



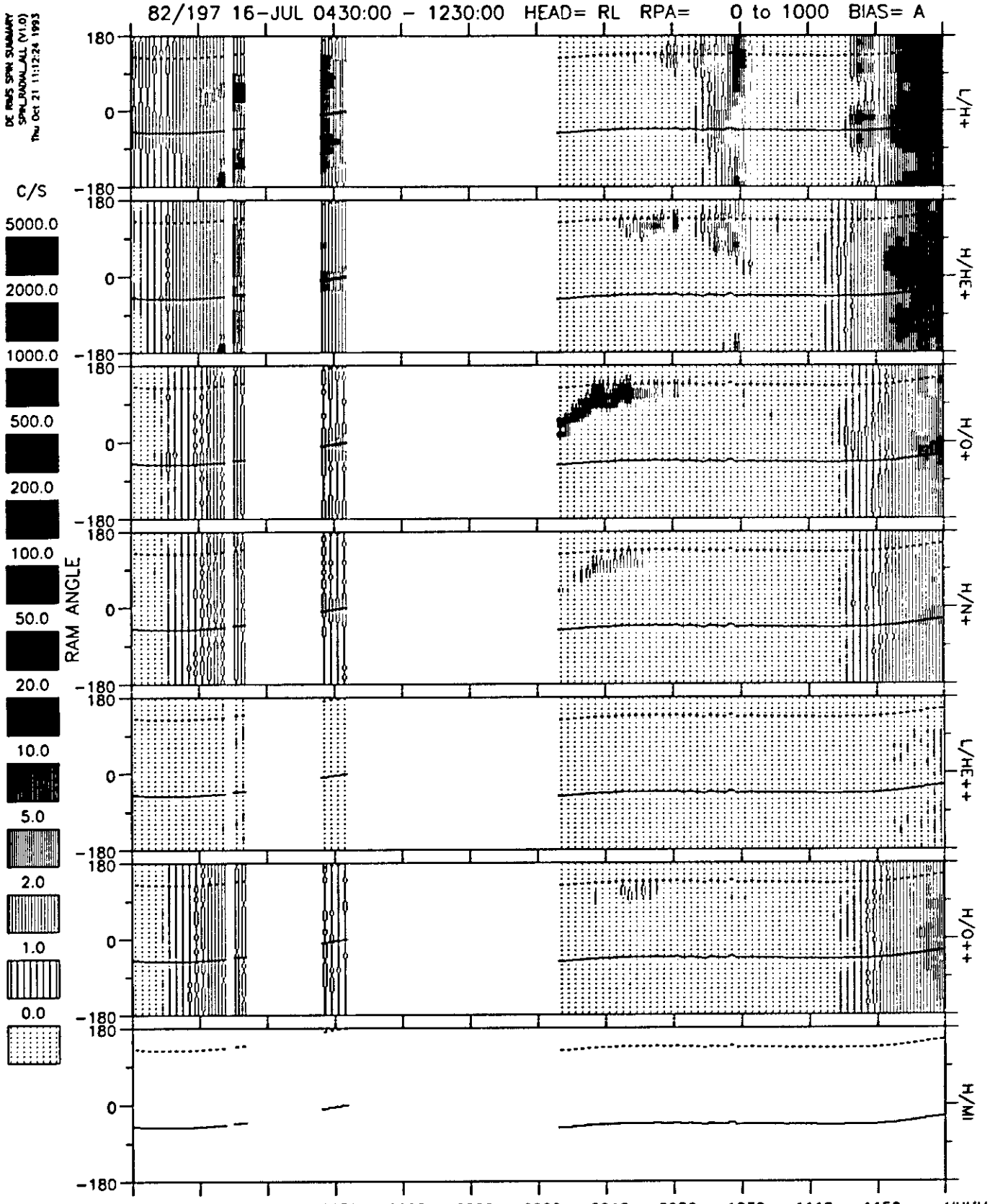
TIME	0000	0000	1000	1040	1120	0000	1240	1320	1400	1440	1520	HHMM
RE	0.0	0.0	3.3	2.2	1.1	0.0	3.4	4.1	4.5	4.7	4.6	RE
L	0.0	0.0	3.7	5.6	1.2	0.0	10.5	6.8	5.6	5.0	4.6	
MLT	0.0	0.0	15.0	15.5	2.6	0.0	13.7	14.2	14.5	14.7	14.9	HRS
MLAT	0.00	0.00	18.36	49.89	18.64	0.00	*****	*****	*****	*****	0.73	DEGS
INVLAT	0.0	0.0	58.5	64.9	22.2	0.0	72.0	67.4	65.0	63.4	62.3	DEGS



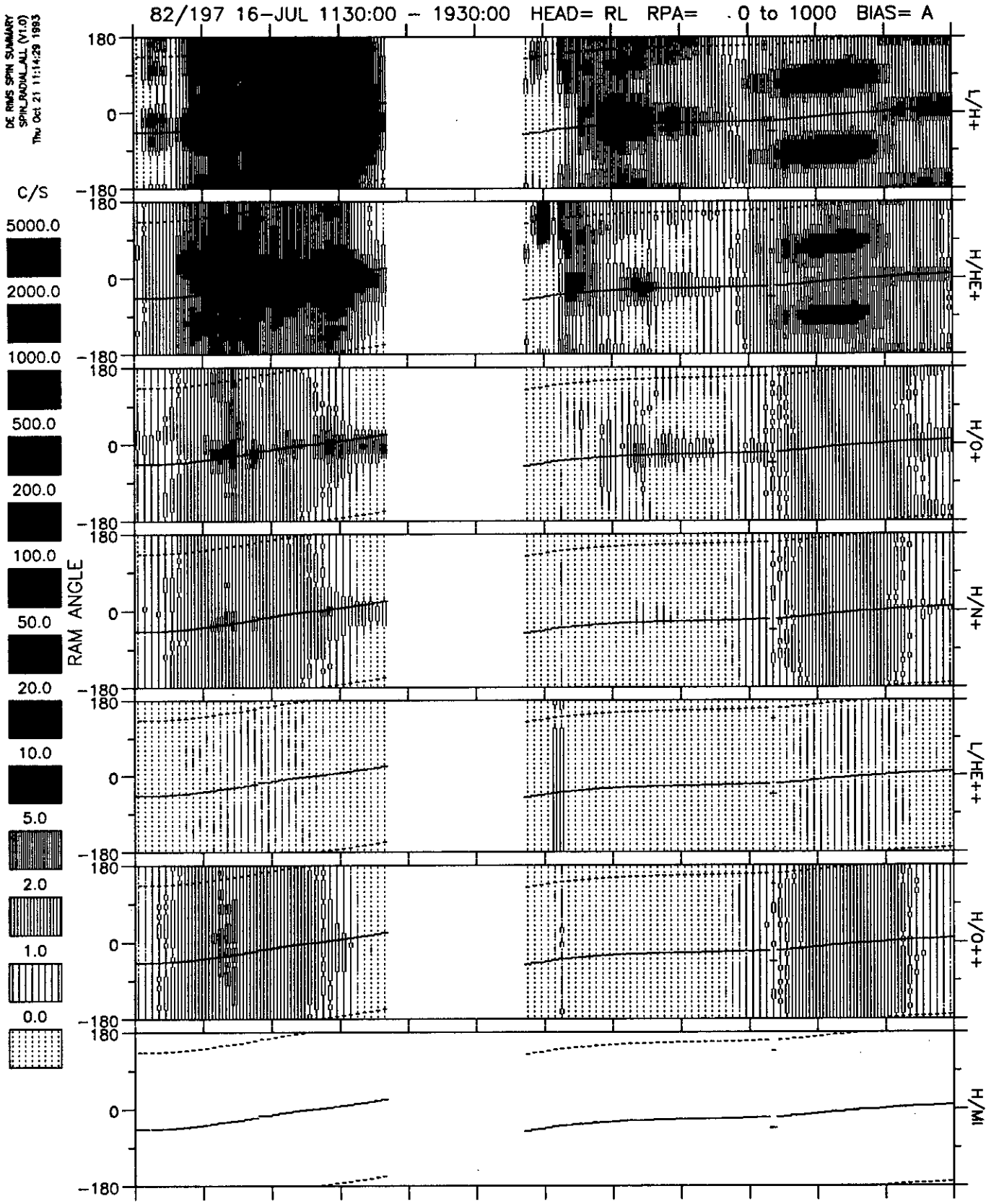
TIME	1555	1635	1715	0000	0000	0000	1955	2035	2115	2155	2235	HHMM
RE	4.3	3.6	2.7	0.0	0.0	0.0	3.8	4.4	4.6	4.6	4.4	RE
L	4.5	4.5	6.4	0.0	0.0	0.0	5.3	4.9	4.8	4.7	4.6	
MLT	15.1	15.3	15.7	0.0	0.0	0.0	15.4	15.5	15.5	15.4	15.3	HRS
MLAT	12.21	27.90	52.03	0.00	0.00	0.00	•••••	•••••	-7.85	1.59	11.31	DEGS
INVLAT	61.8	62.0	66.7	0.0	0.0	0.0	64.2	63.1	62.7	62.4	62.1	DEGS



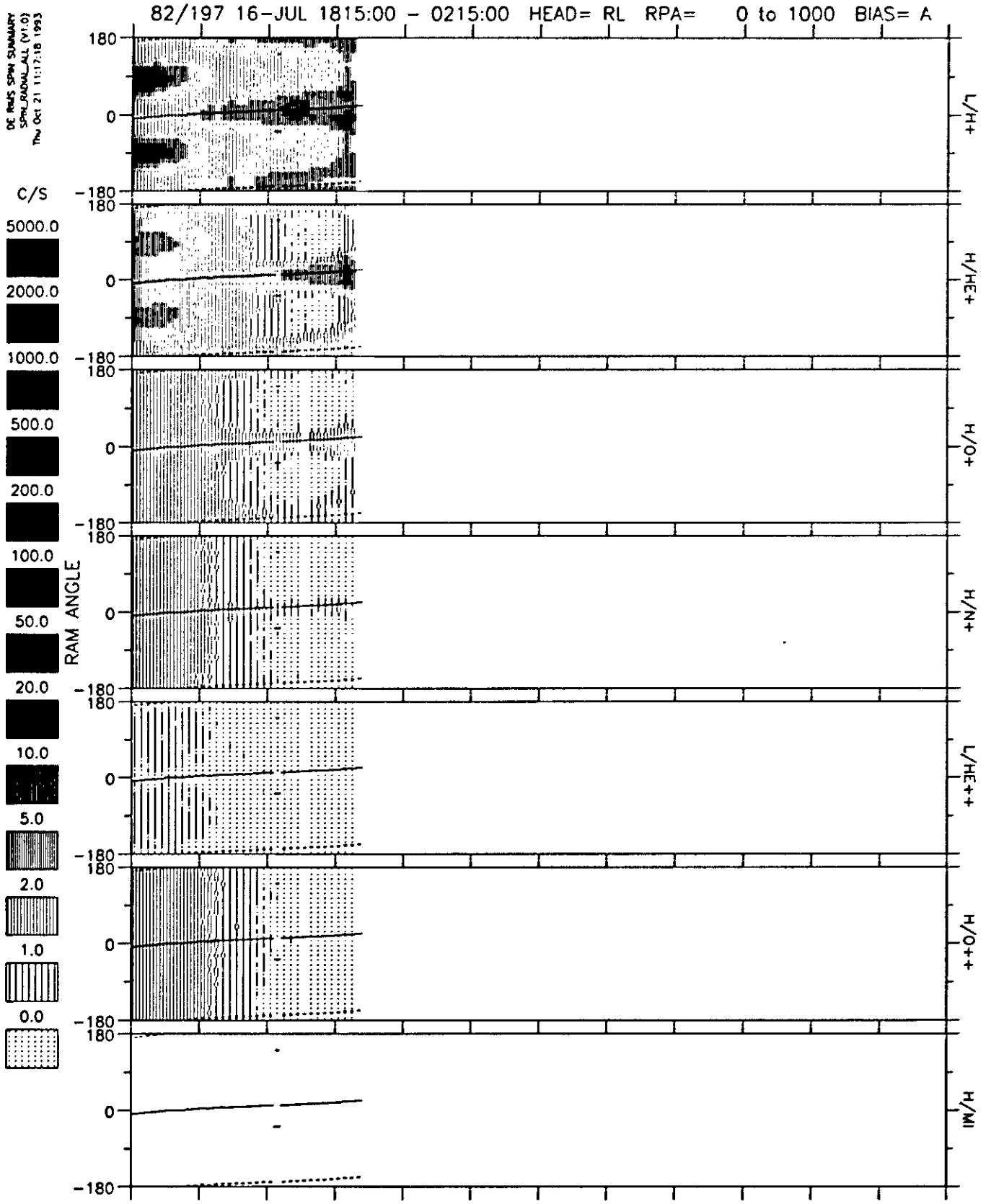
TIME	2210	2250	2330	0010	0000	0130	0210	0250	0330	0410	0450	HHMM
RE	4.6	4.2	3.5	2.6	0.0	1.9	3.0	3.9	4.4	4.6	4.6	RE
L	4.6	4.5	4.5	6.0	0.0	26.8	12.9	7.6	6.3	5.6	4.9	
MLT	15.4	15.2	15.0	14.6	0.0	23.3	16.6	15.8	15.5	15.3	15.1	HRS
MLAT	5.12	15.31	28.40	49.65	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	62.3	62.0	62.1	66.0	0.0	78.8	73.8	68.8	66.6	65.0	63.2	DEGS



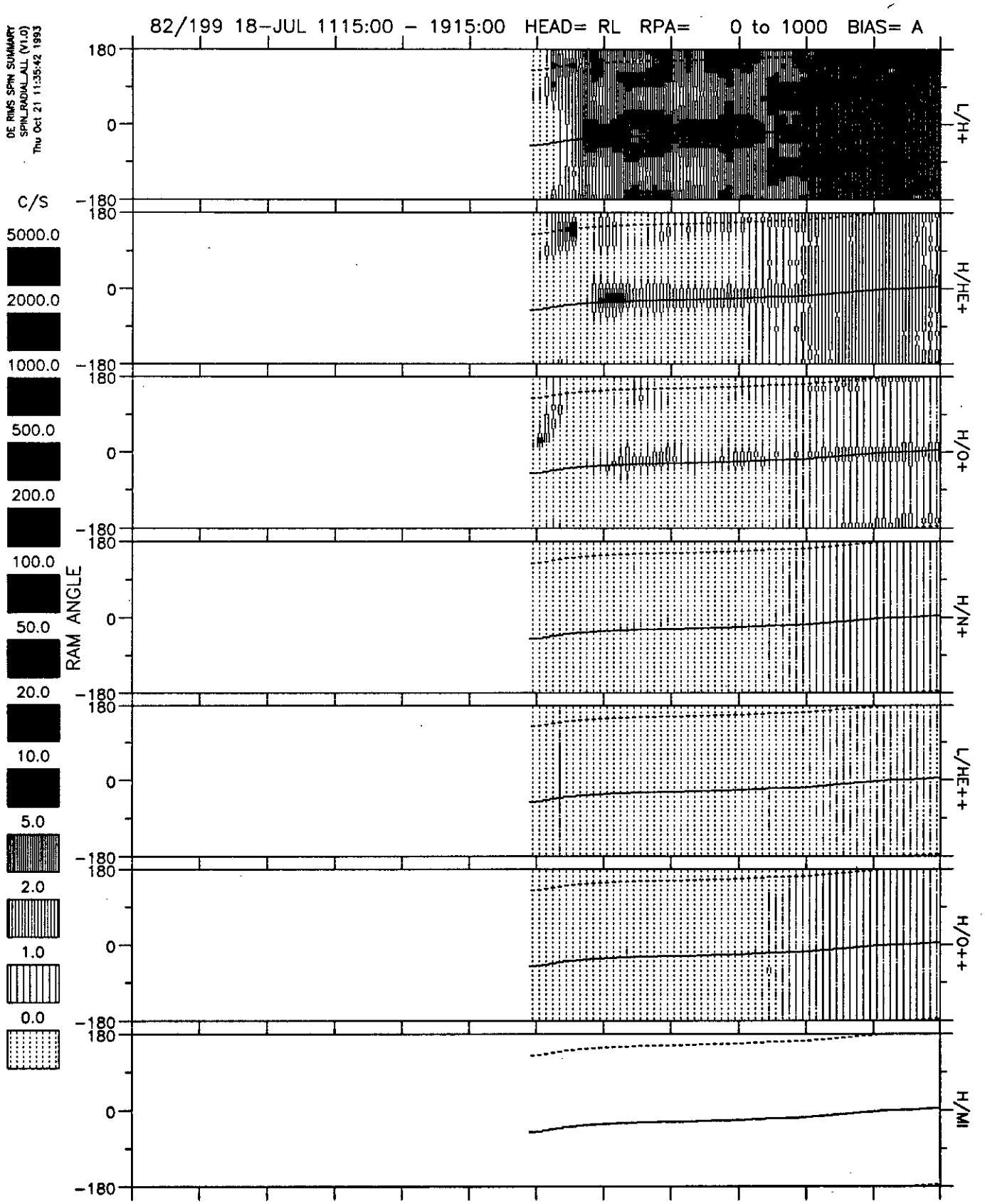
TIME	0510	0000	0630	0000	0000	0000	0910	0950	1030	1110	1150	HHMM
RE	4.5	0.0	3.3	0.0	0.0	0.0	3.3	4.1	4.5	4.7	4.6	RE
L	4.6	0.0	3.6	0.0	0.0	0.0	18.6	8.8	6.5	5.5	4.8	
MLT	15.1	0.0	14.9	0.0	0.0	0.0	14.2	14.3	14.4	14.5	14.6	HRS
MLAT	•••••	0.00	15.82	0.00	0.00	0.00	•••••	•••••	•••••	•••••	•••••	DEGS
INVLAT	62.2	0.0	58.1	0.0	0.0	0.0	76.6	70.3	67.0	64.8	62.7	DEGS



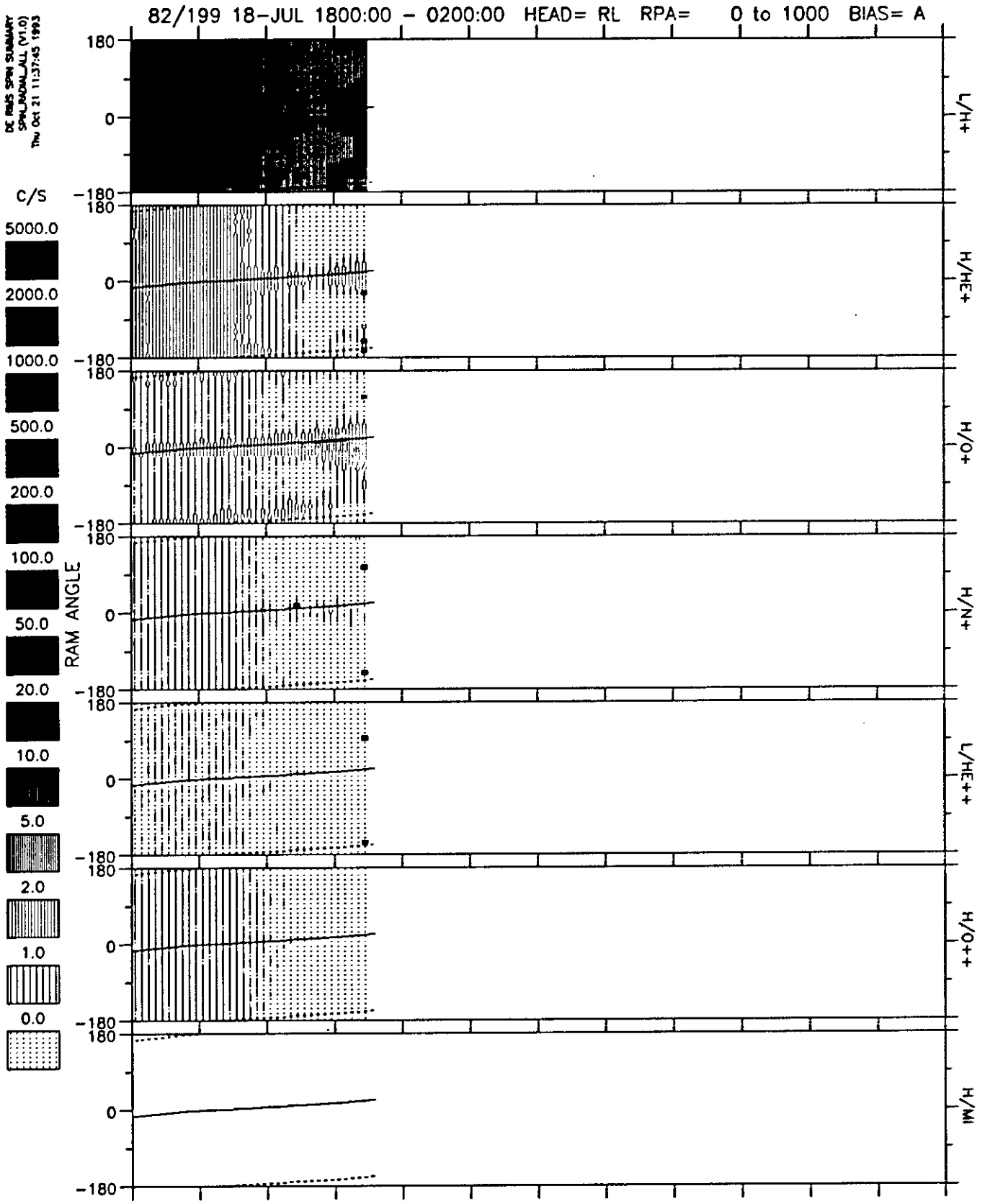
TIME	1210	1250	1330	0000	0000	1530	1610	1650	1730	1810	1850	HHMM
RE	4.4	3.9	3.1	0.0	0.0	2.5	3.5	4.2	4.6	4.7	4.5	RE
L	4.5	4.1	4.1	0.0	0.0	15.7	6.7	5.4	4.9	4.8	4.7	
MLT	14.7	14.9	15.2	0.0	0.0	13.1	14.4	14.8	15.0	15.1	15.2	HRS
MLAT	-3.65	10.75	30.30	0.00	0.00	*****	*****	*****	*****	-2.28	8.89	DEGS
INVLAT	61.8	60.3	60.3	0.0	0.0	75.4	67.2	64.4	63.3	62.7	62.5	DEGS



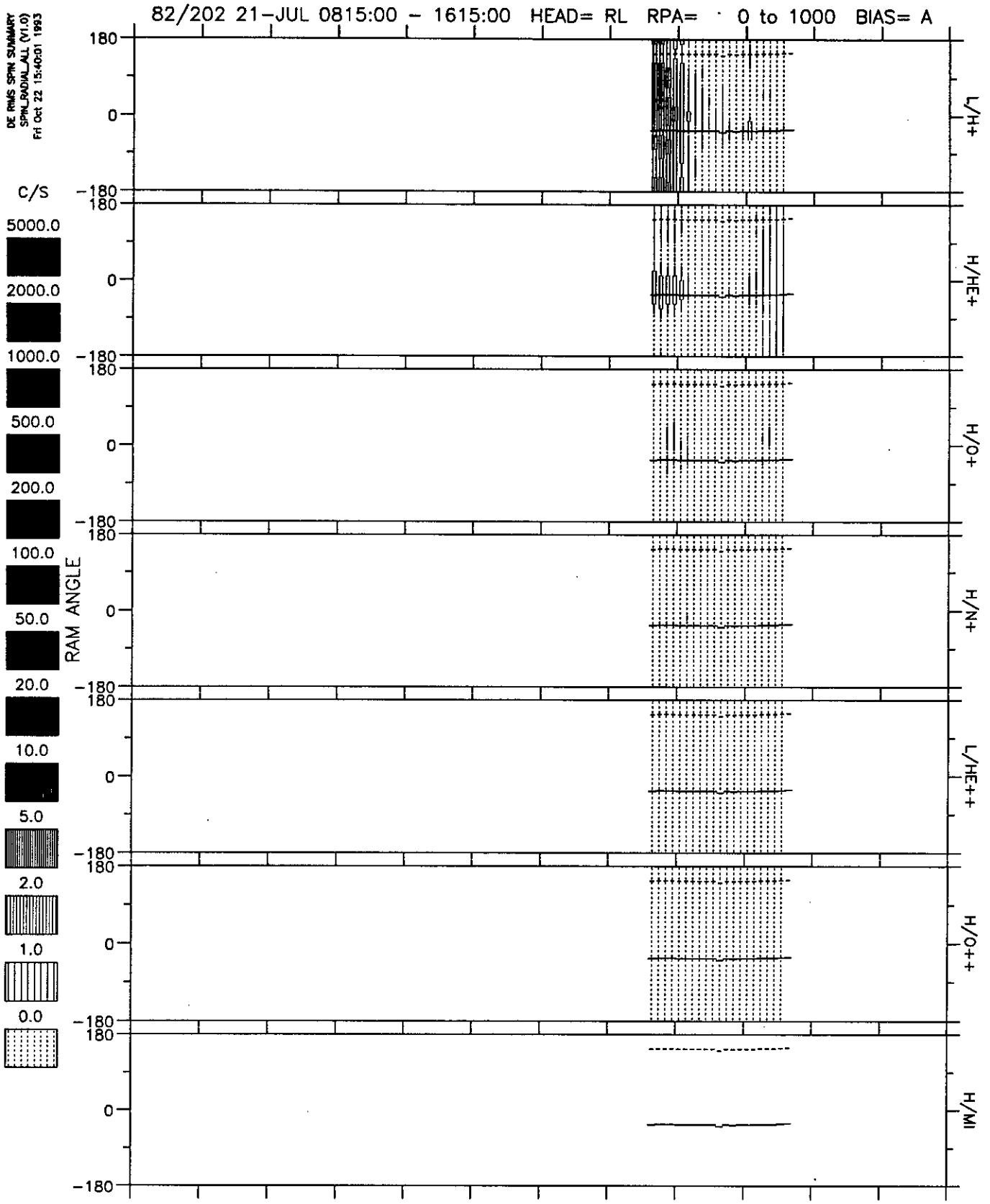
TIME	1855	1935	2015	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	4.5	4.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	4.7	4.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	15.2	15.3	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	10.36	22.90	39.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	62.5	62.9	64.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



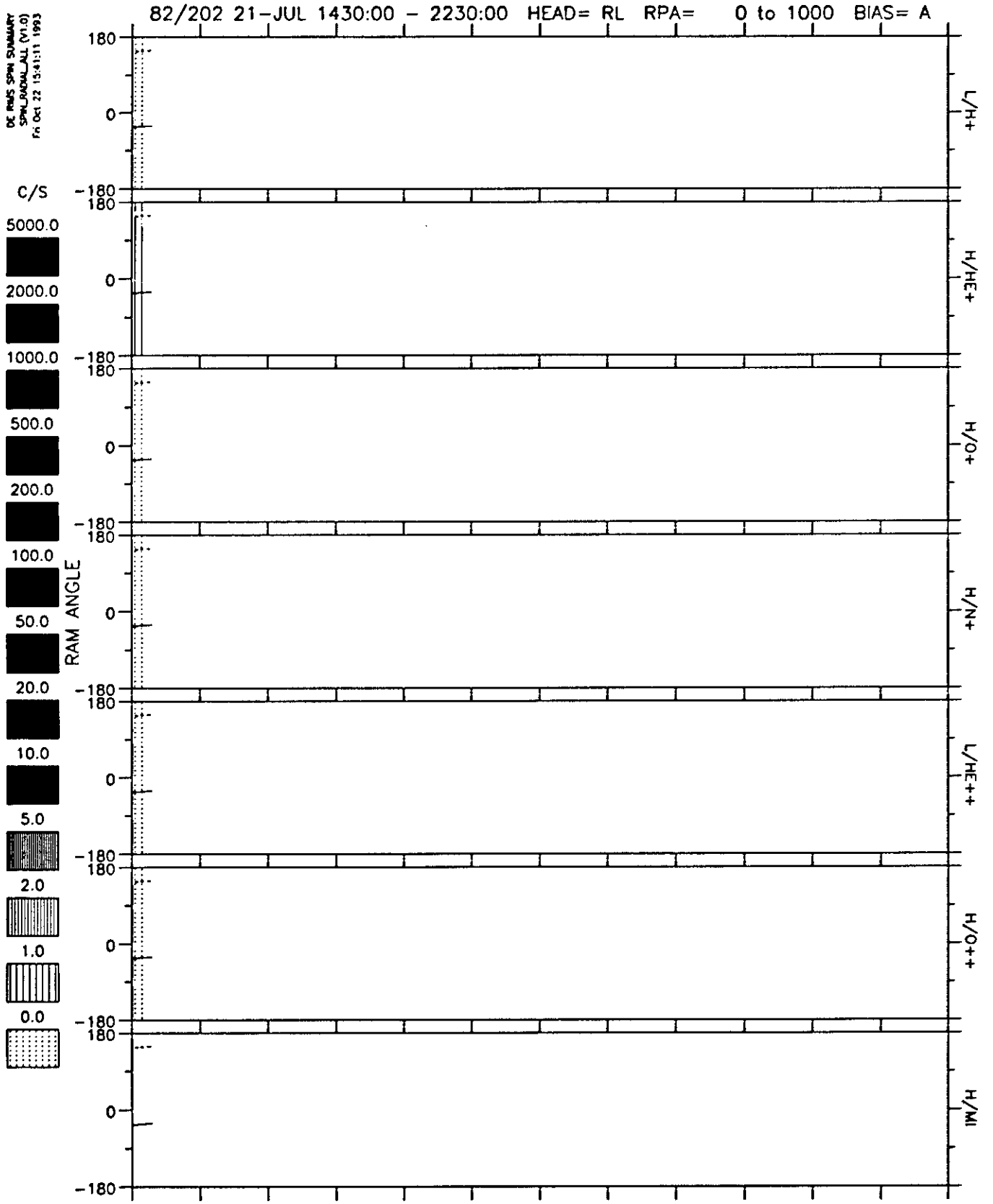
TIME	0000	0000	0000	0000	0000	1515	1555	1635	1715	1755	1835	HHMM
RE	0.0	0.0	0.0	0.0	0.0	2.2	3.3	4.1	4.5	4.7	4.6	RE
L	0.0	0.0	0.0	0.0	0.0	30.9	7.5	5.6	5.0	4.8	4.7	
MLT	0.0	0.0	0.0	0.0	0.0	11.5	14.1	14.5	14.8	15.0	15.1	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	-5.60	5.48	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	79.6	68.6	65.1	63.6	62.8	62.5	DEGS



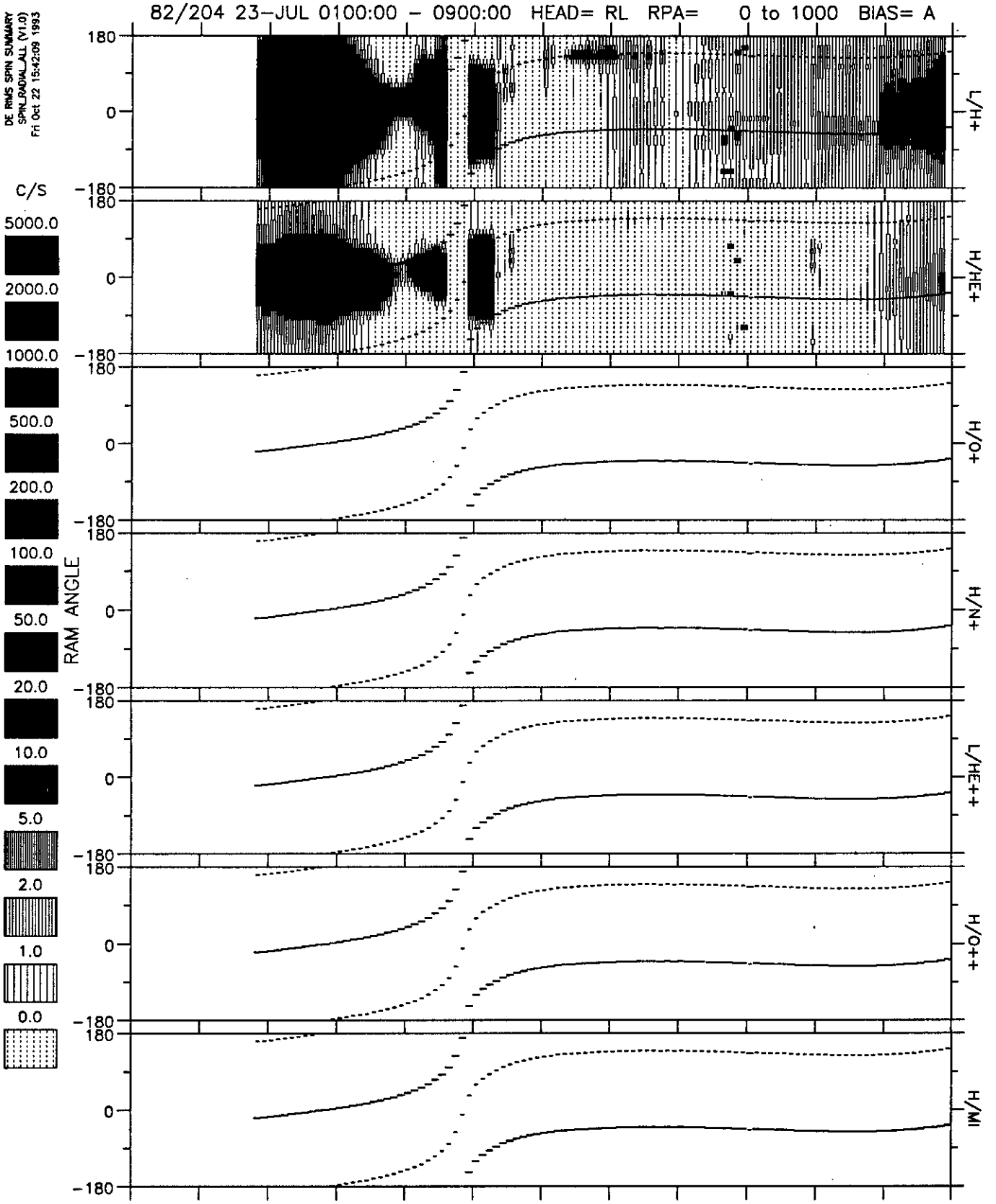
TIME	1840	1920	2000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	4.6	4.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	4.7	4.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	15.1	15.1	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	6.91	18.99	34.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	62.5	62.6	63.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



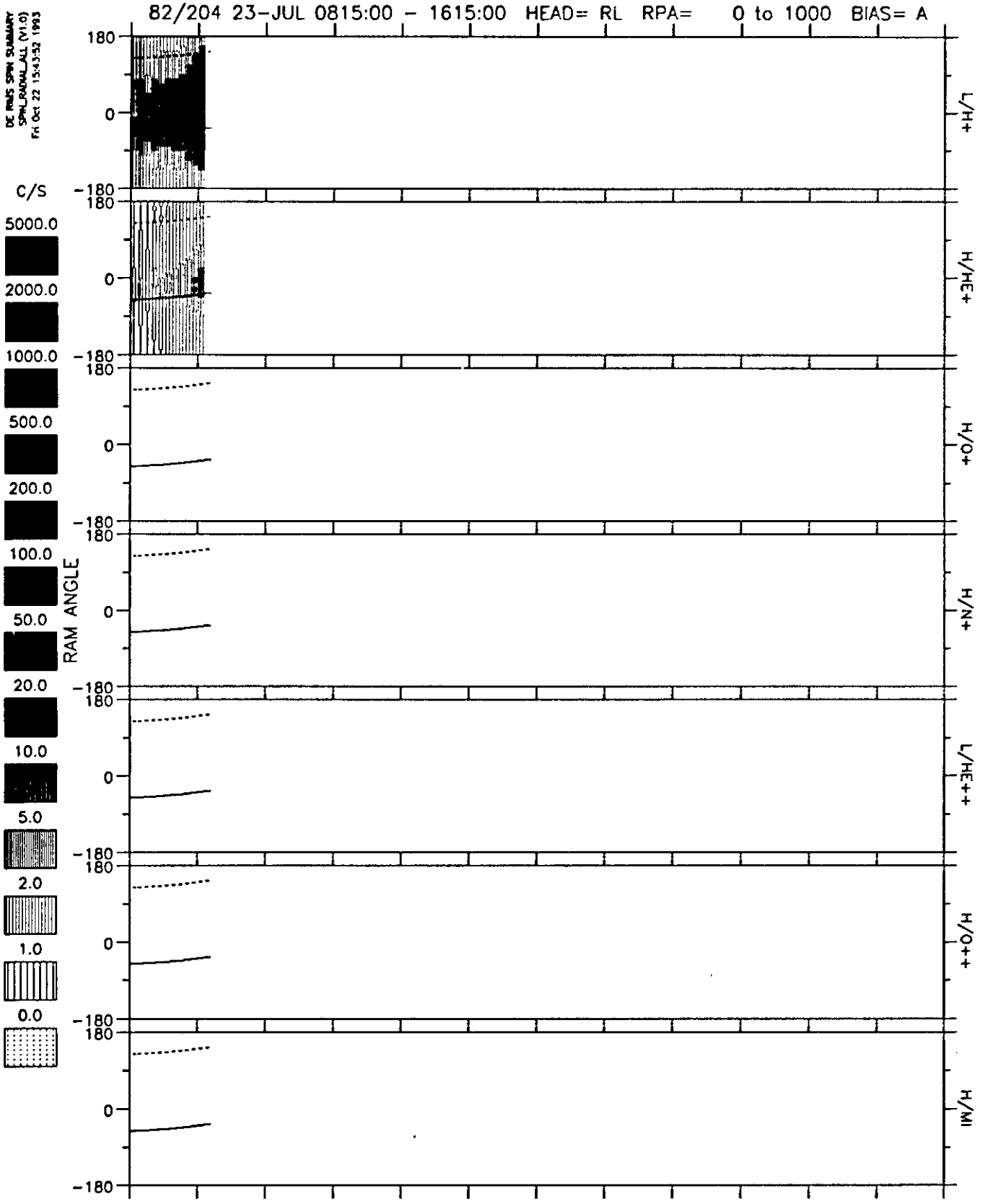
TIME	0000	0000	0000	0000	0000	0000	0000	1335	1415	0000	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.7	0.0	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.2	0.0	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	14.2	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.8	64.0	0.0	0.0	DEGS



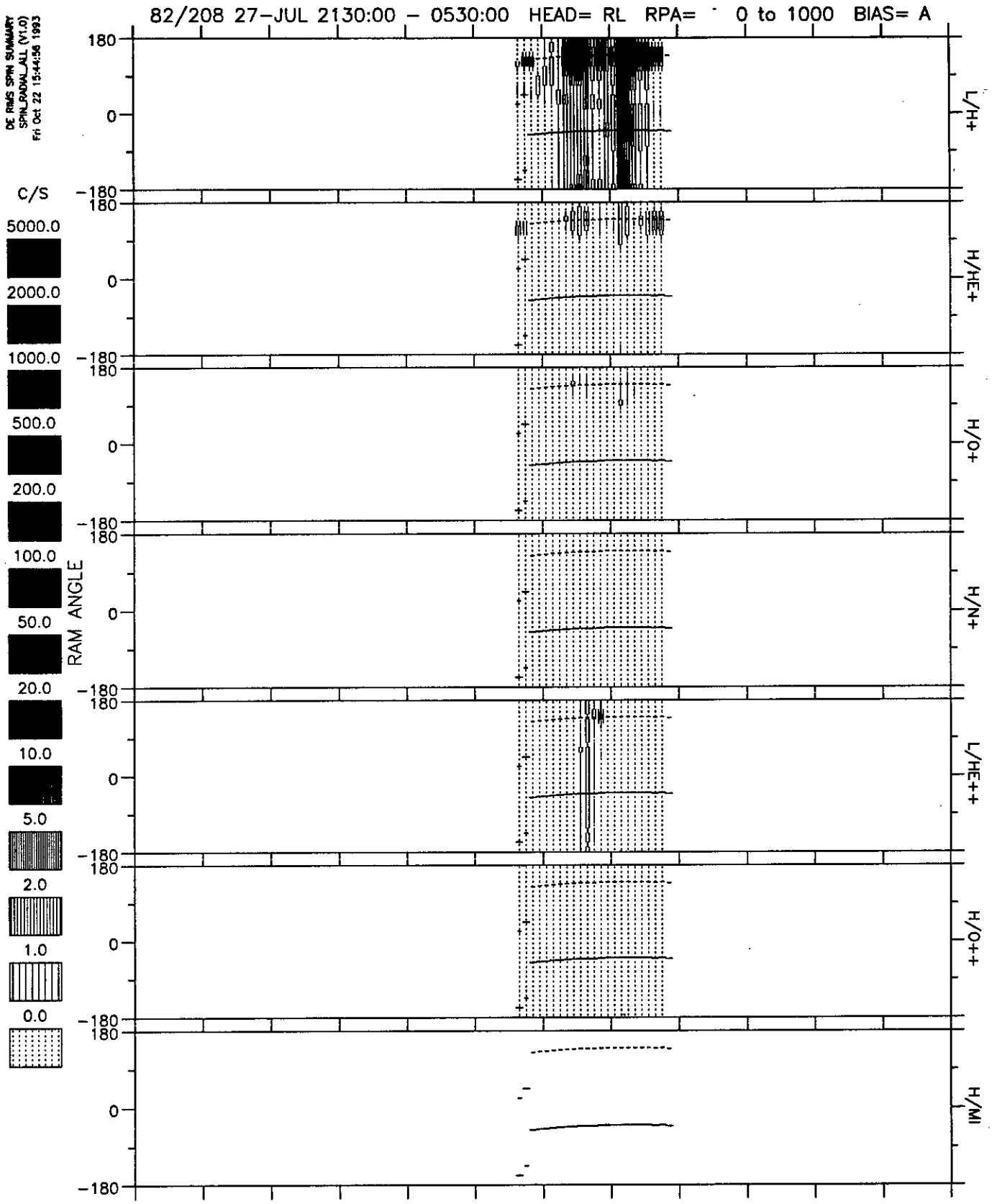
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



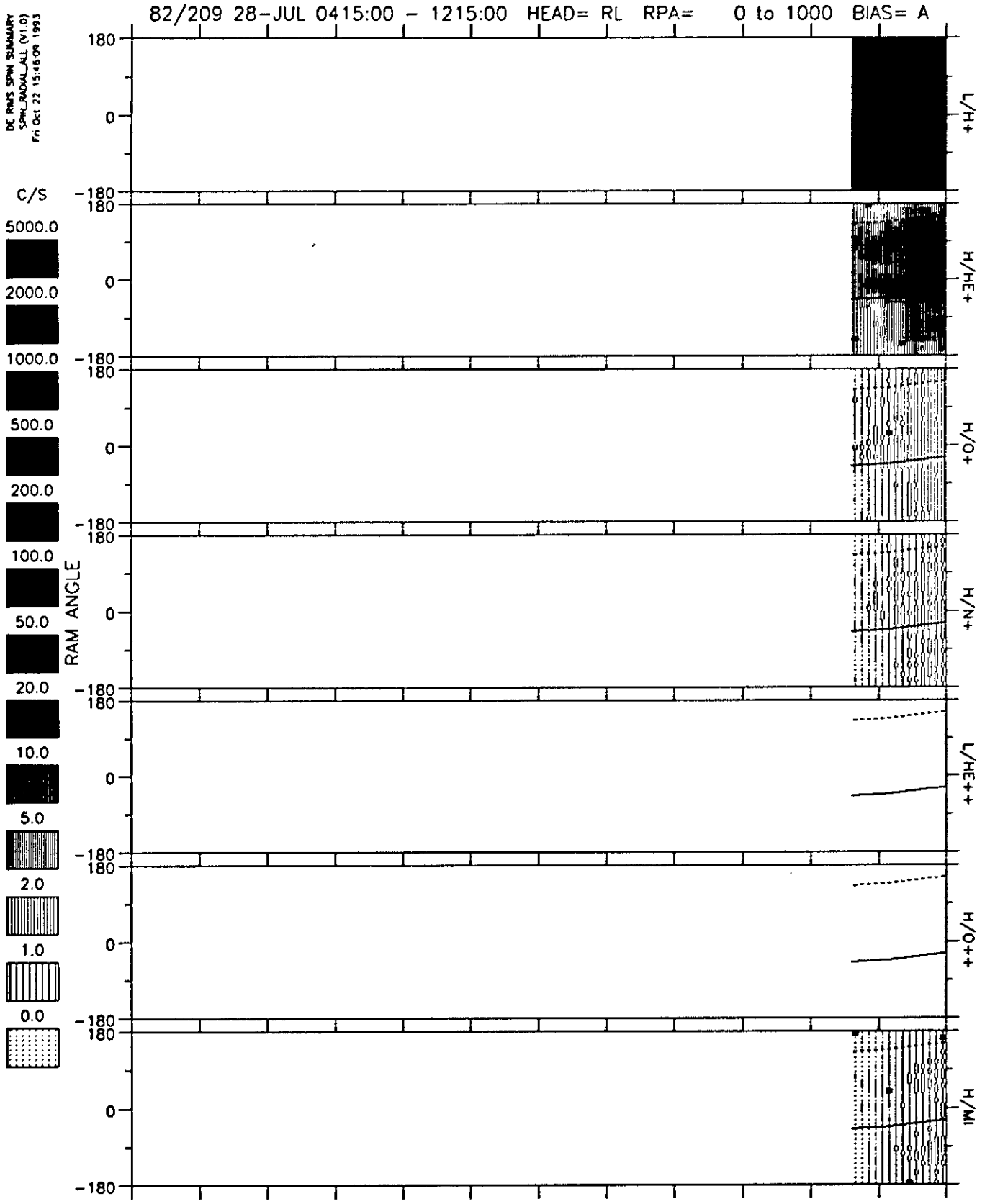
TIME	0000	0220	0300	0340	0420	0500	0540	0620	0700	0740	0820	HHMM
RE	0.0	3.9	3.0	1.8	1.3	2.6	3.6	4.2	4.6	4.7	4.5	RE
L	0.0	3.9	3.7	11.4	2.0	-0.0	15.6	9.1	6.8	5.6	4.7	
MLT	0.0	14.6	14.3	13.3	2.2	17.4	15.0	14.7	14.5	14.4	14.4	HRS
MLAT	0.00	9.73	26.53	65.06	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	59.6	58.7	72.8	44.6	-0.0	75.3	70.6	67.5	65.0	62.5	DEGS



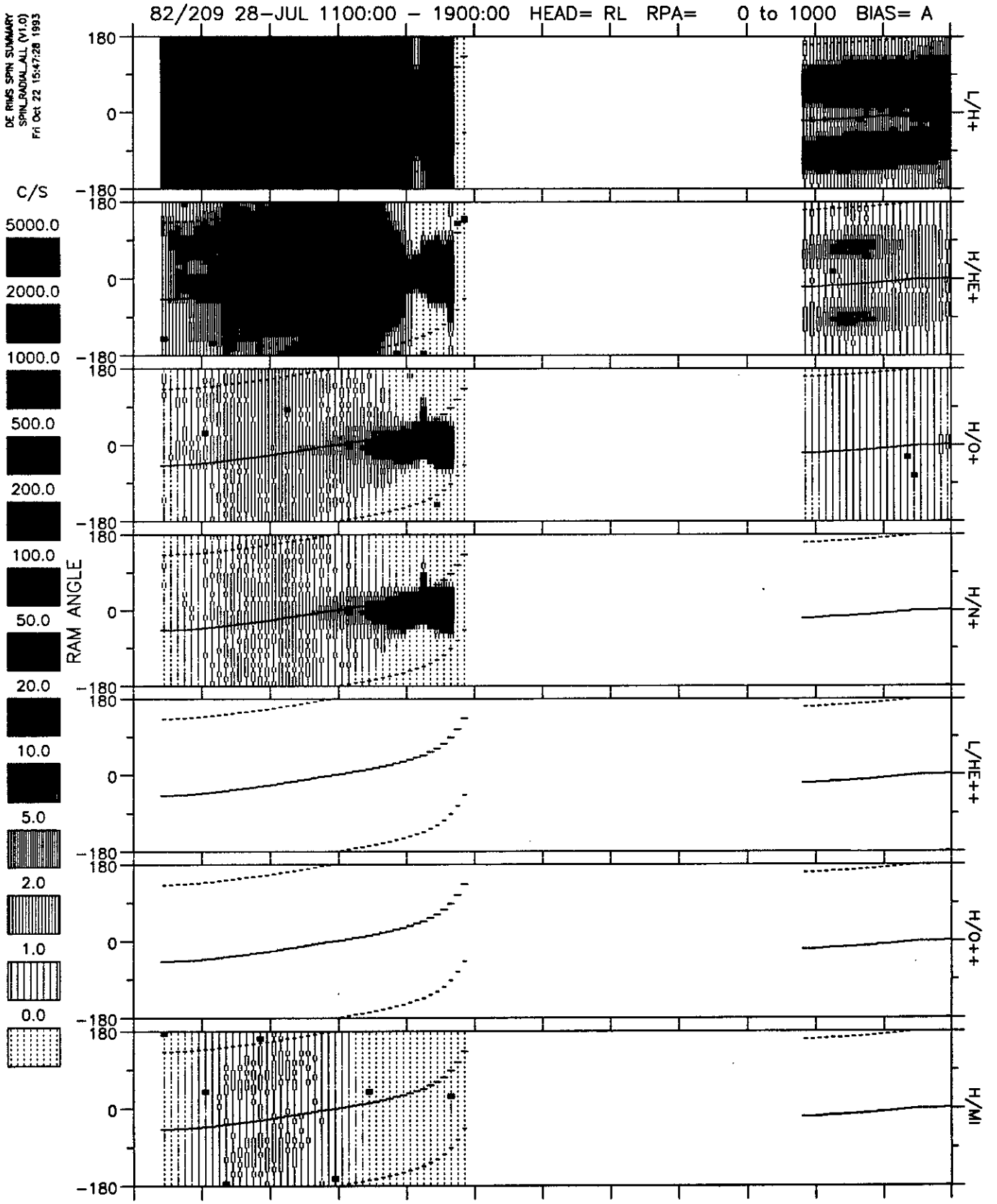
TIME	0855	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	-3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	60.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



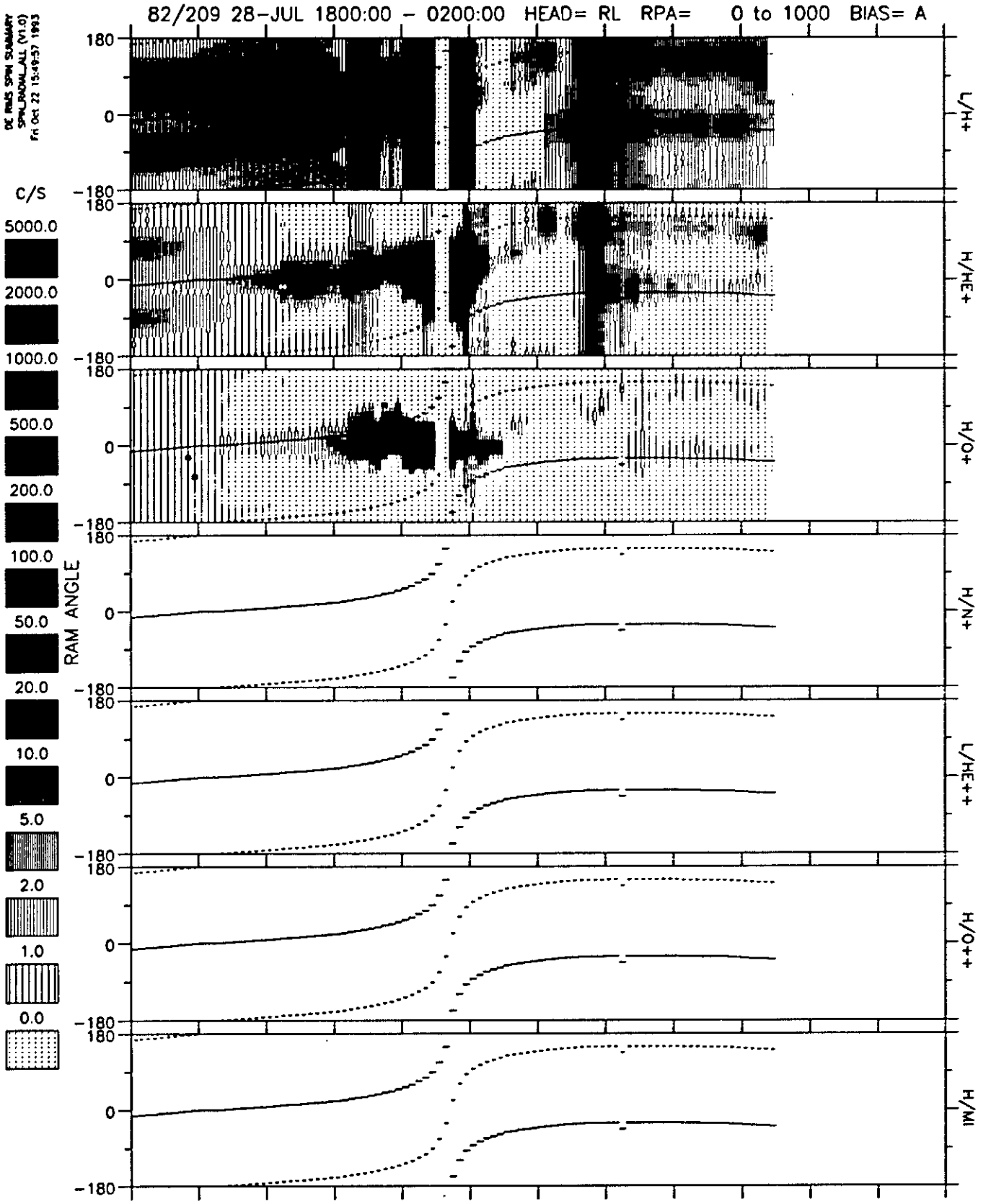
TIME	0000	0000	0000	0000	0000	0130	0210	0000	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	2.9	3.8	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	21.2	9.8	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	16.4	15.3	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	77.5	71.4	0.0	0.0	0.0	0.0	DEGS



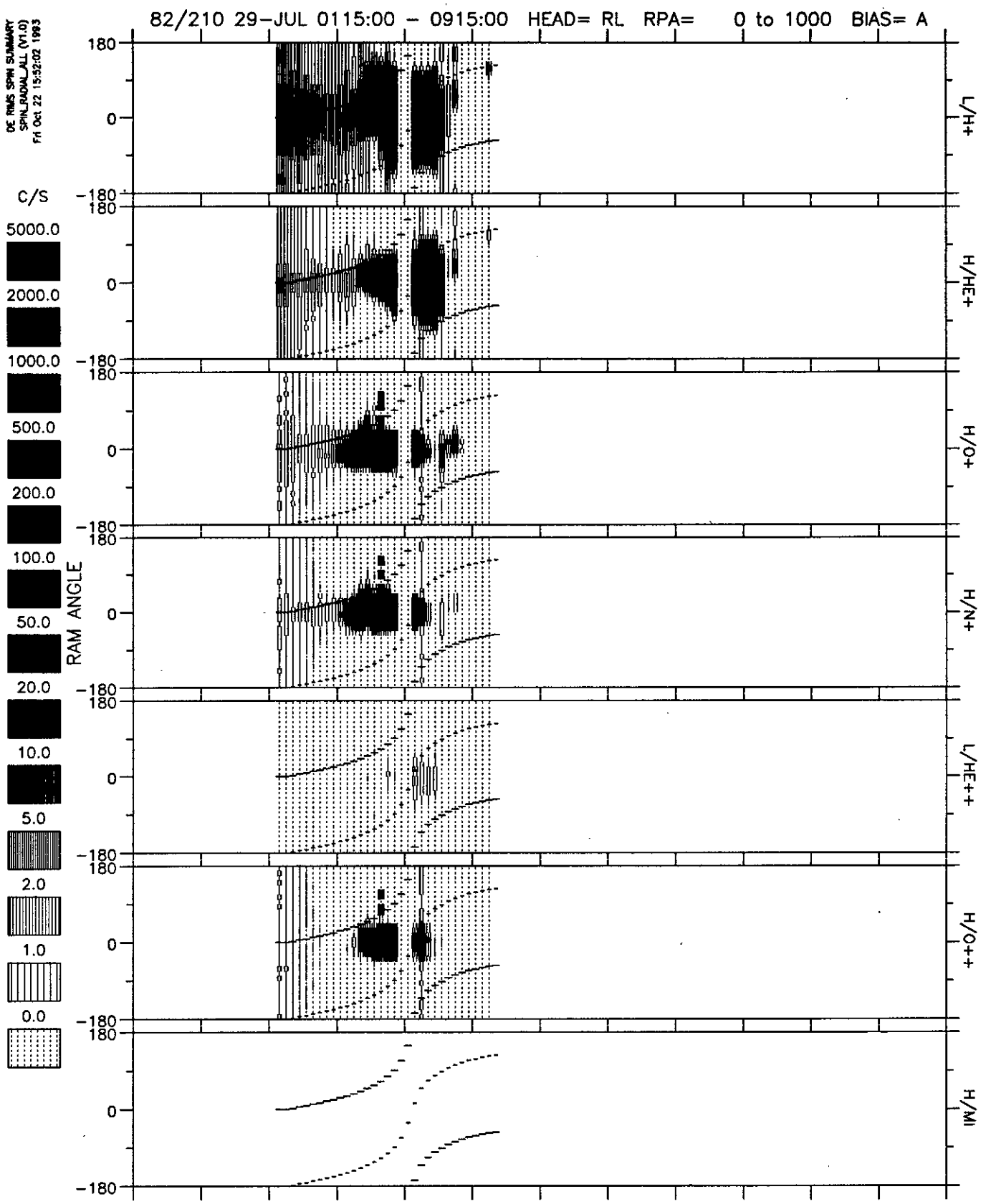
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	1135	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-8.04	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.2	DEGS



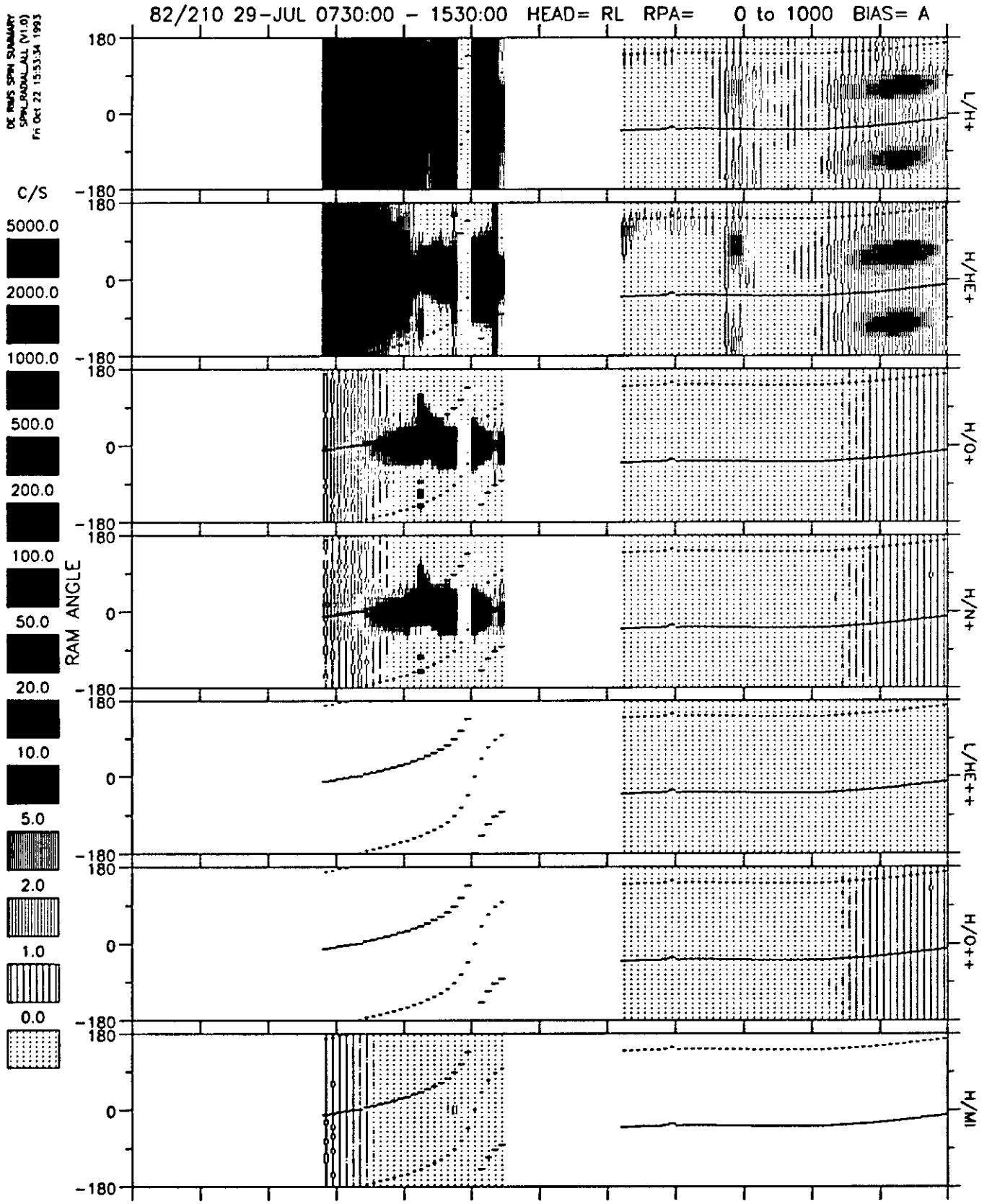
TIME	1140	1220	1300	1340	0000	0000	0000	0000	0000	1740	1820	HHMM
RE	4.4	3.9	3.1	1.9	0.0	0.0	0.0	0.0	0.0	4.7	4.5	RE
L	4.5	4.0	3.8	10.3	0.0	0.0	0.0	0.0	0.0	4.8	4.6	
MLT	13.9	14.1	14.4	15.8	0.0	0.0	0.0	0.0	0.0	14.3	14.4	HRS
MLAT	-6.38	8.17	28.07	66.11	0.00	0.00	0.00	0.00	0.00	-5.62	5.45	DEGS
INVLAT	61.9	60.0	59.4	71.8	0.0	0.0	0.0	0.0	0.0	62.8	62.3	DEGS



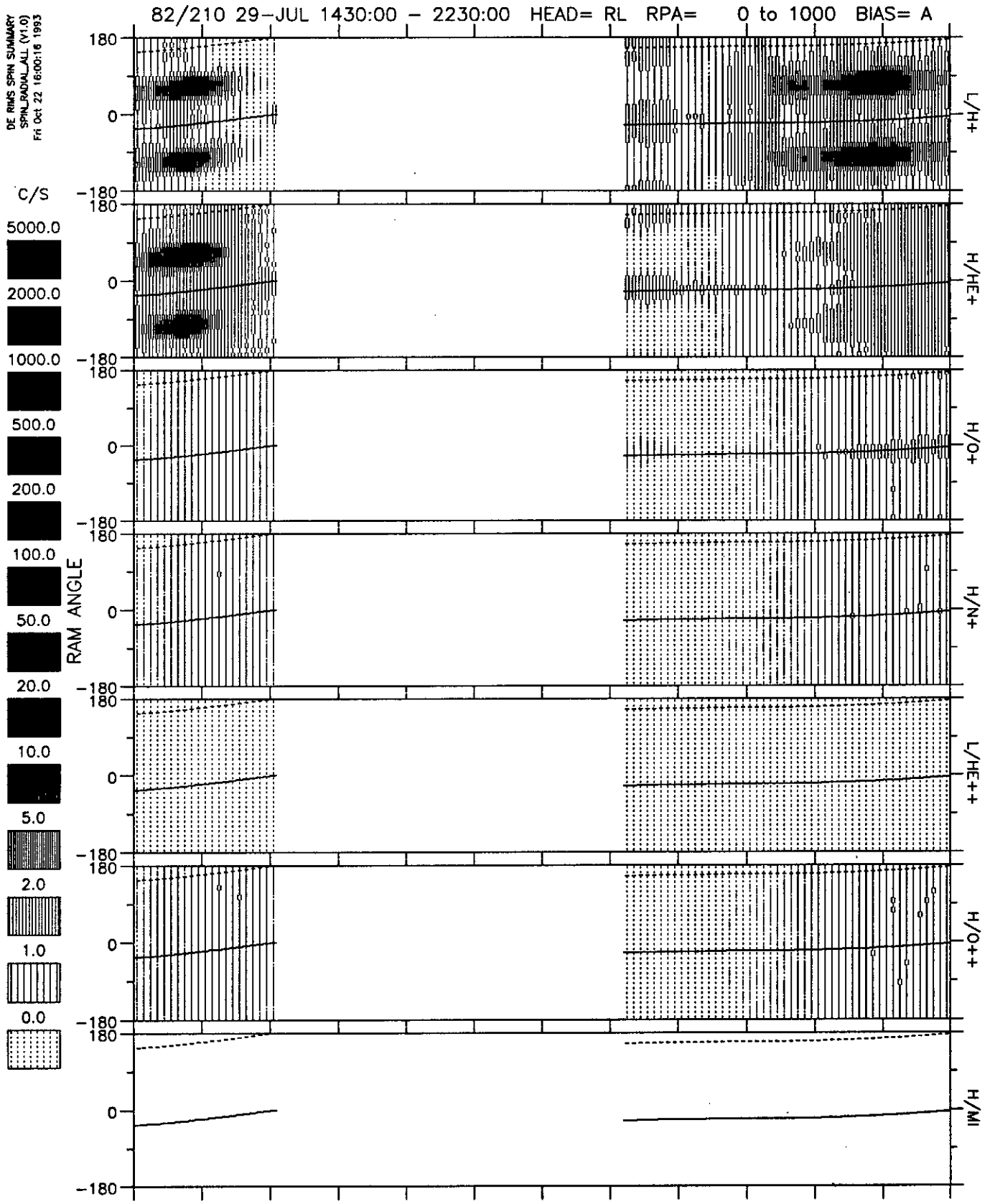
TIME	1840	1920	2000	2040	2120	2200	2240	2320	0000	0000	0000	HHMM
RE	4.3	3.8	2.8	1.5	1.5	2.8	3.7	4.3	4.6	0.0	0.0	RE
L	4.6	4.6	5.8	100.0	8.7	12.1	6.9	5.9	5.3	0.0	0.0	
MLT	14.4	14.4	14.3	5.6	1.5	15.6	15.1	14.9	14.7	0.0	0.0	HRS
MLAT	11.32	24.97	45.29	83.02	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	62.1	62.3	65.5	86.3	70.2	73.3	67.6	65.6	64.4	0.0	0.0	DEGS



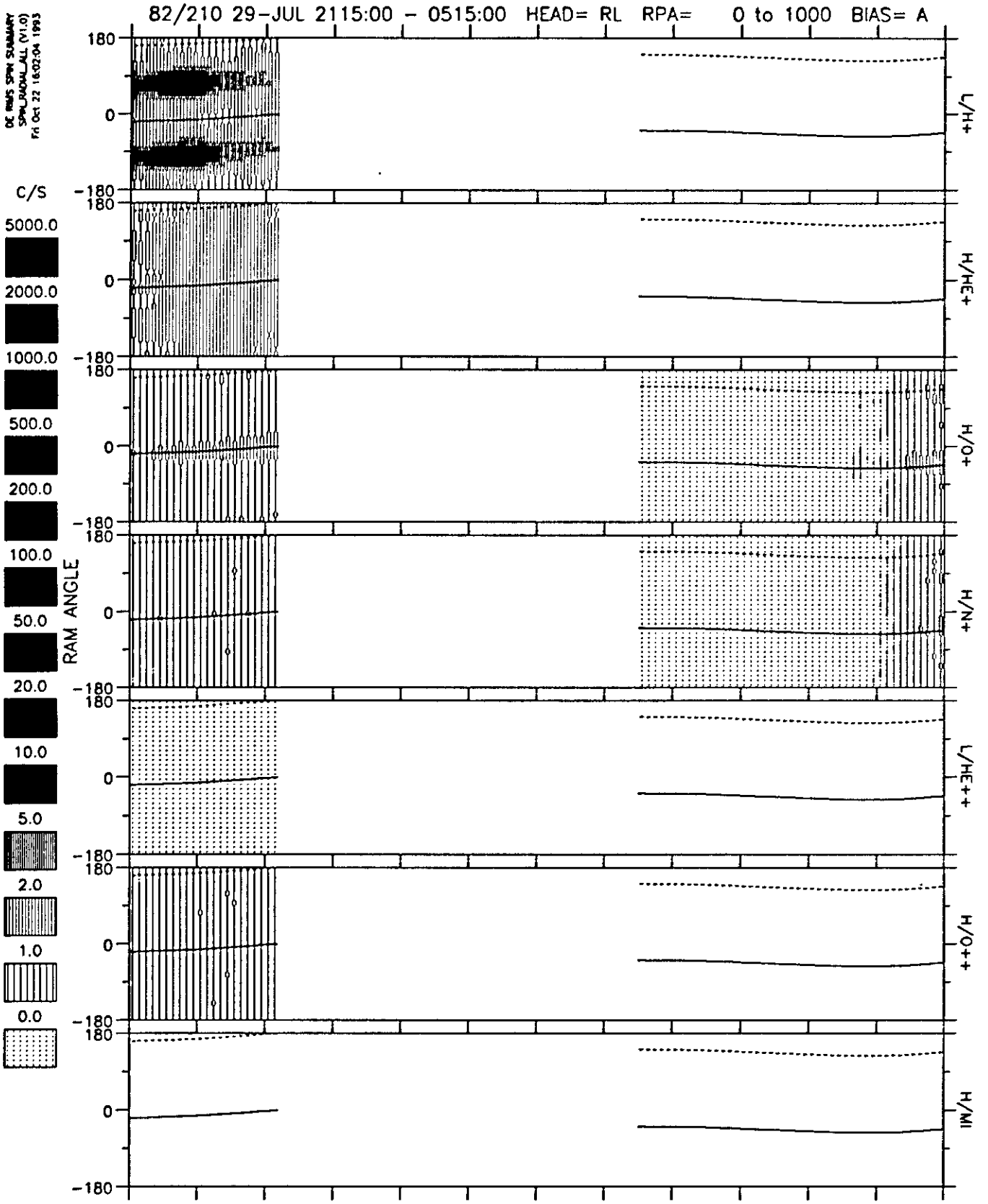
TIME	0000	0000	0315	0355	0435	0000	0000	0000	0000	0000	0000	HHMM
RE	0.0	0.0	2.1	1.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	5.1	1.1	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	13.5	2.3	22.4	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	49.51	8.64	*****	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	63.7	19.8	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



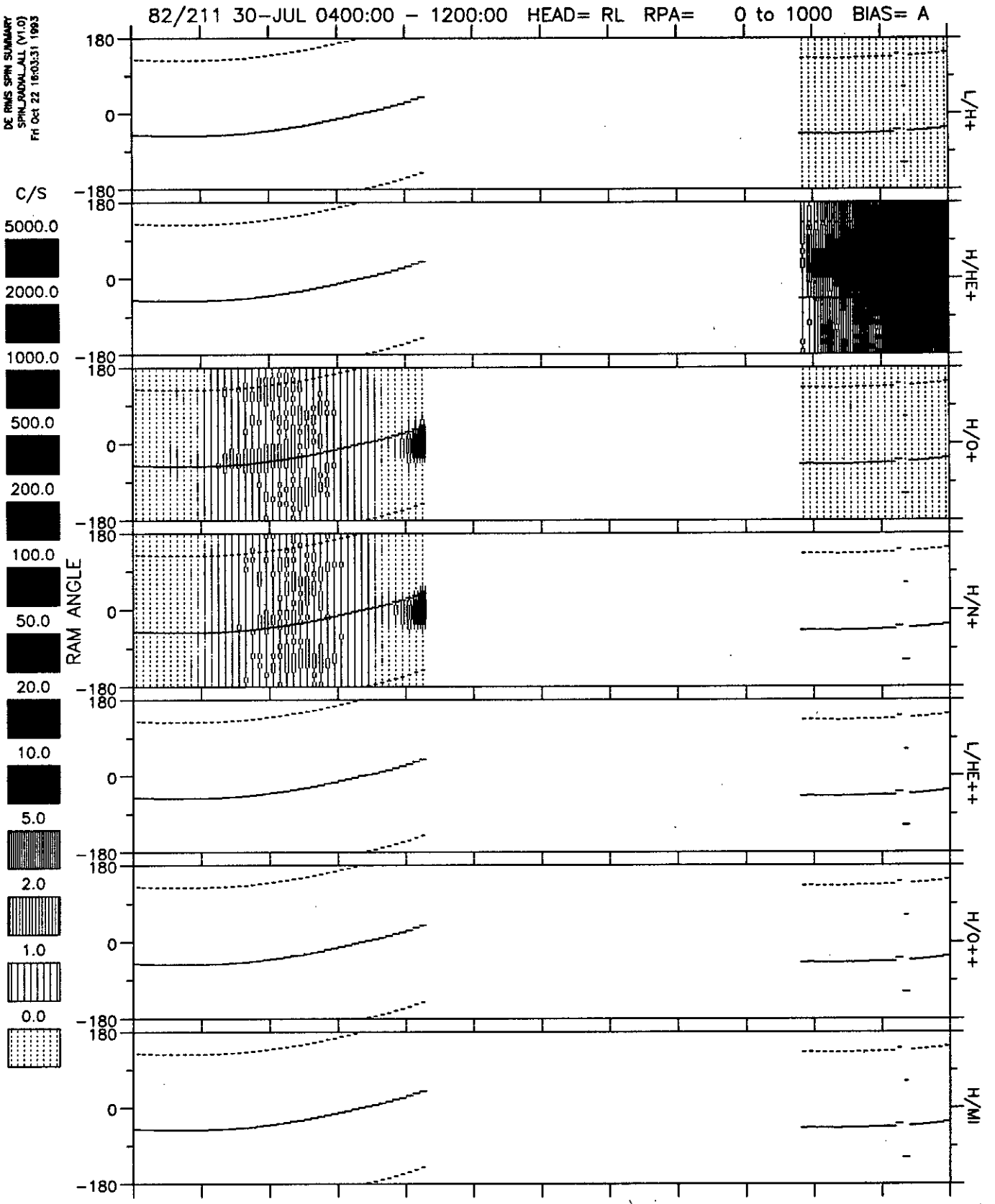
TIME	0000	0000	0930	1010	1050	0000	0000	1250	1330	1410	1450	HHMM
RE	0.0	0.0	3.1	1.9	1.2	0.0	0.0	4.2	4.6	4.7	4.5	RE
L	0.0	0.0	3.5	6.2	1.2	0.0	0.0	7.1	5.8	5.1	4.6	
MLT	0.0	0.0	14.2	14.8	2.1	0.0	0.0	13.3	13.5	13.8	14.0	HRS
MLAT	0.00	0.00	17.92	54.54	*****	0.00	0.00	*****	*****	*****	-0.97	DEGS
INVLAT	0.0	0.0	57.6	66.4	25.5	0.0	0.0	68.0	65.4	63.6	62.2	DEGS



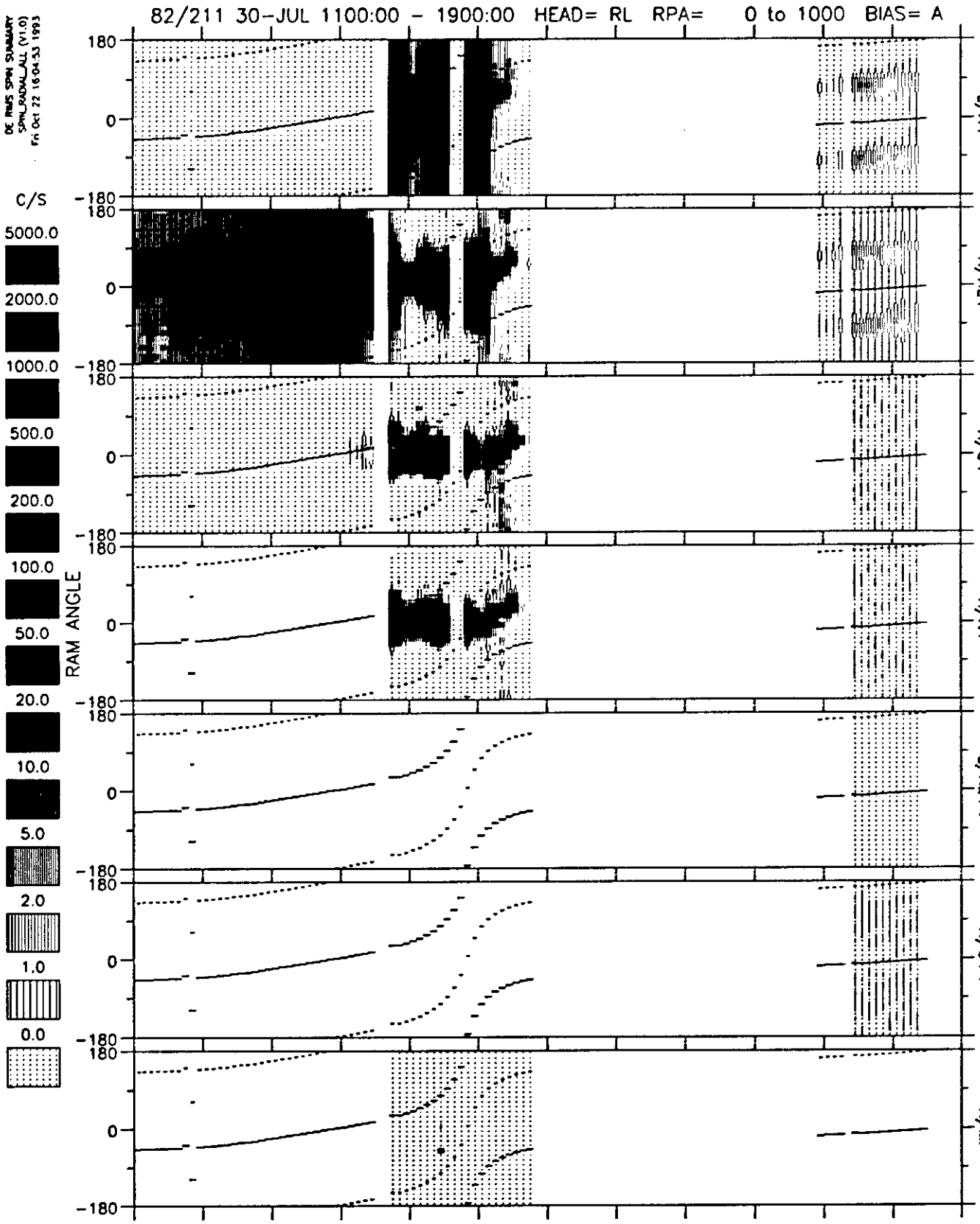
TIME	1510	1550	0000	0000	0000	0000	0000	1950	2030	2110	2150	HHMM
RE	4.4	3.8	0.0	0.0	0.0	0.0	0.0	4.3	4.6	4.7	4.5	RE
L	4.4	4.3	0.0	0.0	0.0	0.0	0.0	5.3	4.9	4.7	4.5	
MLT	14.1	14.2	0.0	0.0	0.0	0.0	0.0	14.5	14.5	14.5	14.4	HRS
MLAT	5.49	19.50	0.00	0.00	0.00	0.00	0.00	*****	*****	-5.52	3.91	DEGS
INVLAT	61.7	61.1	0.0	0.0	0.0	0.0	0.0	64.2	63.3	62.6	61.8	DEGS



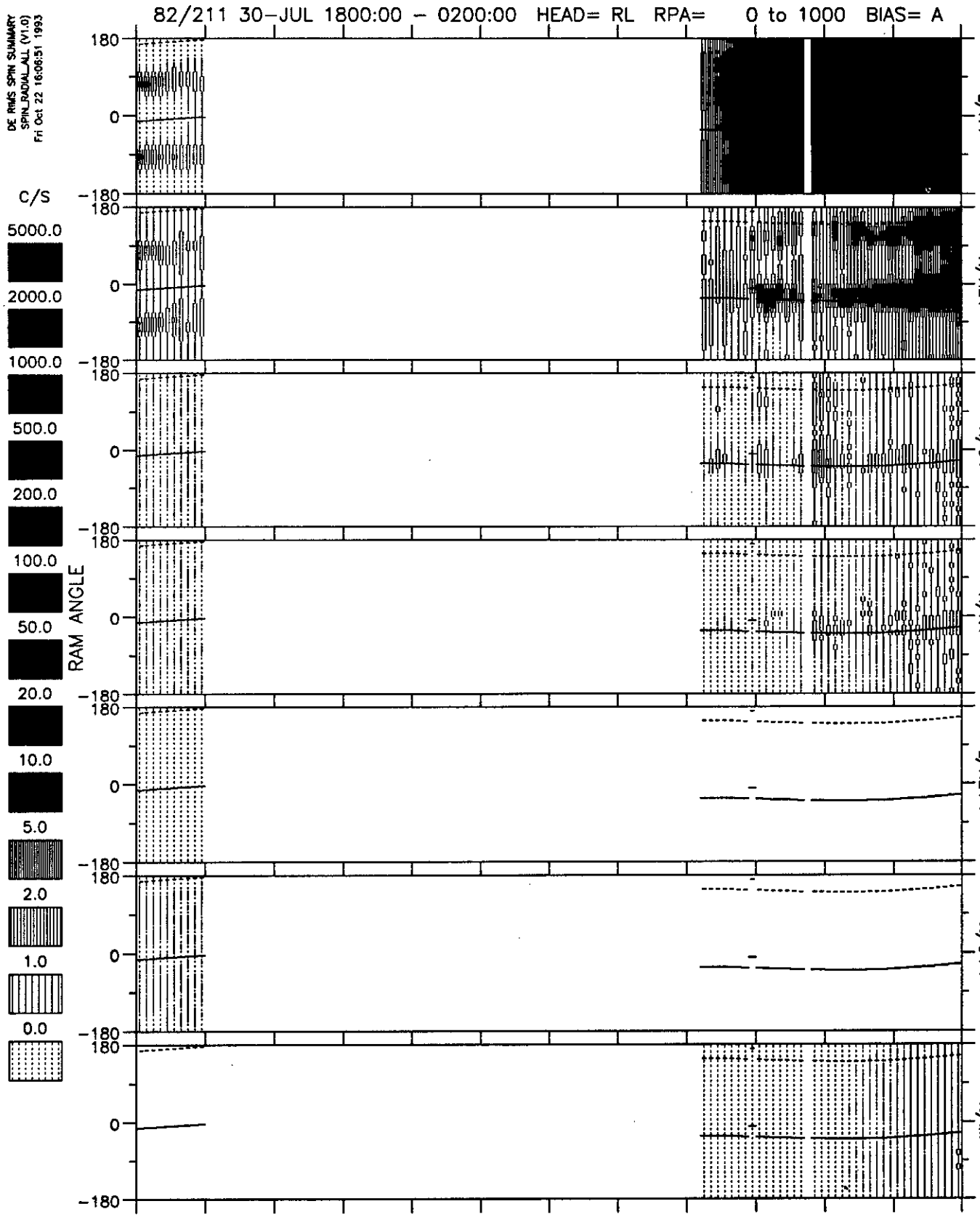
TIME	2155	2235	0000	0000	0000	0000	0000	0235	0315	0355	0435	HHMM
RE	4.4	3.9	0.0	0.0	0.0	0.0	0.0	4.2	4.6	4.7	4.5	RE
L	4.4	4.2	0.0	0.0	0.0	0.0	0.0	8.1	6.6	5.6	4.8	
MLT	14.4	14.2	0.0	0.0	0.0	0.0	0.0	14.8	14.6	14.4	14.2	HRS
MLAT	5.14	16.41	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	DEGS
INVLAT	61.7	60.8	0.0	0.0	0.0	0.0	0.0	69.4	67.1	65.1	62.8	DEGS



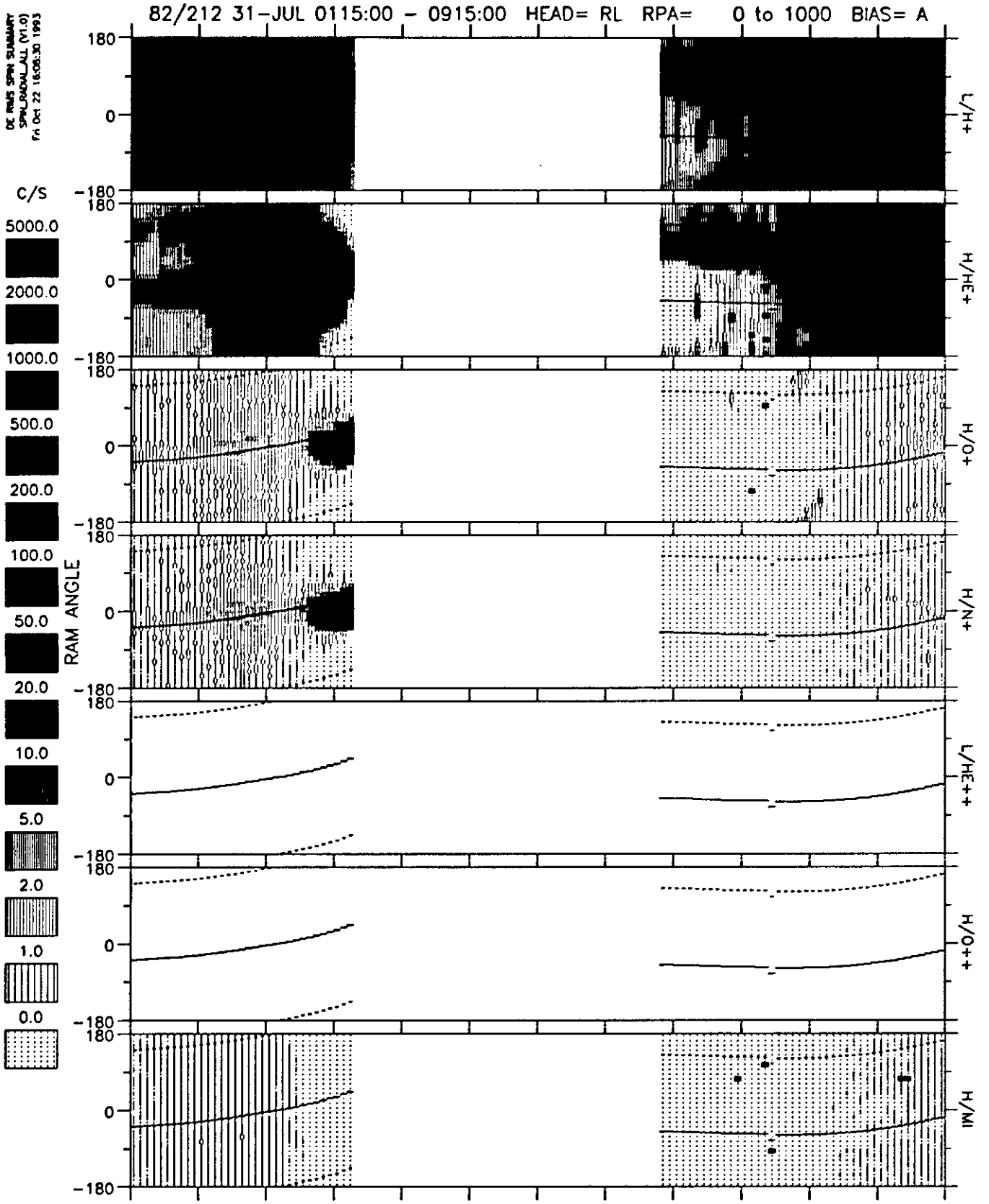
TIME	0440	0520	0600	0640	0000	0000	0000	0000	0000	1040	1120	HHMM
RE	4.5	4.0	3.2	2.0	0.0	0.0	0.0	0.0	0.0	4.7	4.5	RE
L	4.7	3.9	3.4	5.0	0.0	0.0	0.0	0.0	0.0	5.6	4.8	
MLT	14.2	14.1	14.0	14.0	0.0	0.0	0.0	0.0	0.0	13.6	13.7	HRS
MLAT	*****	-2.50	14.37	48.43	0.00	0.00	0.00	0.00	0.00	*****	*****	DEGS
INVLAT	62.4	59.6	57.0	63.5	0.0	0.0	0.0	0.0	0.0	65.1	62.8	DEGS



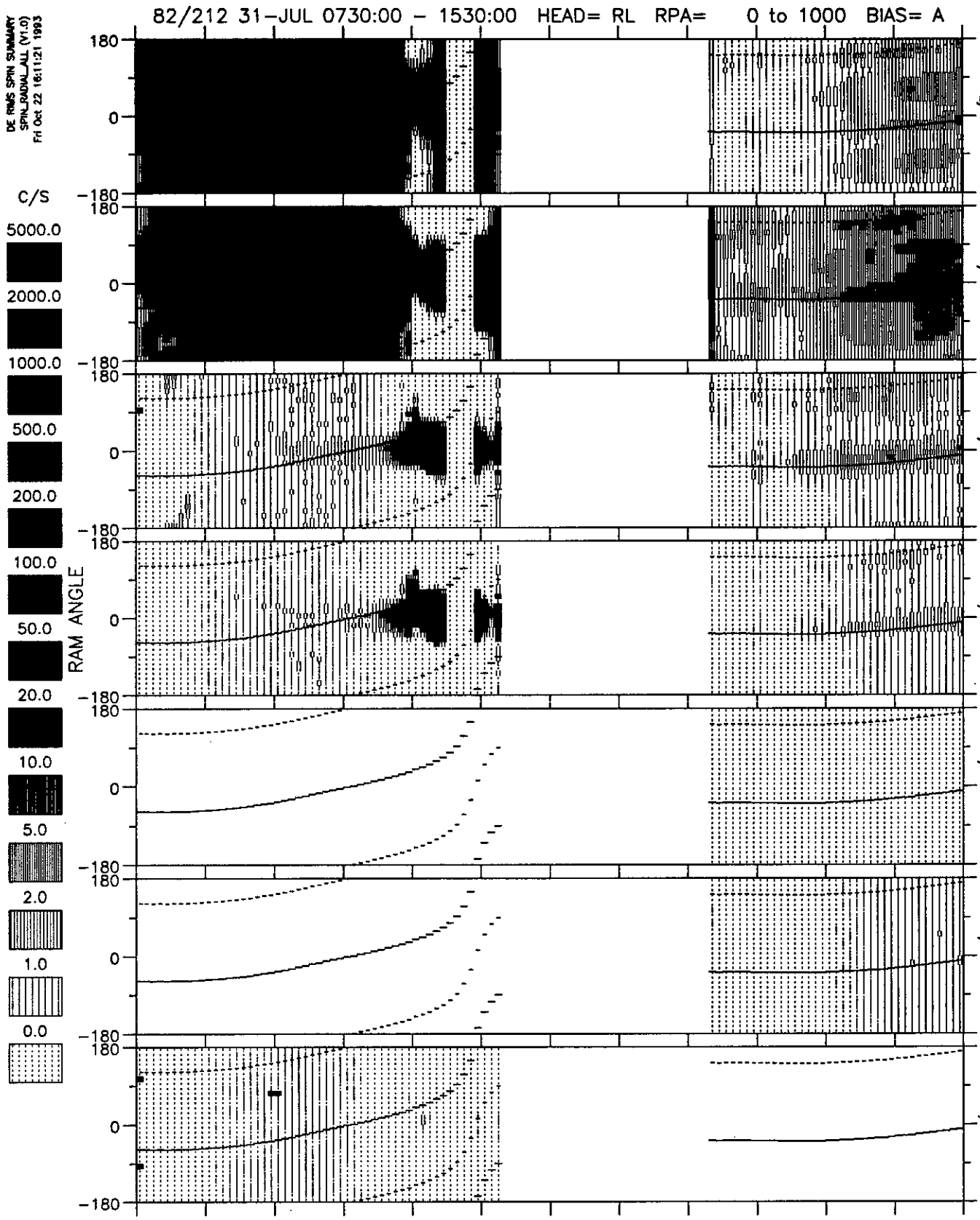
TIME	1140	1220	1300	1340	1420	0000	0000	0000	0000	1740	1820	HHMM
RE	4.4	3.8	3.0	1.7	1.4	0.0	0.0	0.0	0.0	4.7	4.5	RE
L	4.4	3.9	3.9	20.1	3.3	0.0	0.0	0.0	0.0	4.8	4.6	
MLT	13.8	14.0	14.3	16.7	2.7	0.0	0.0	0.0	0.0	14.1	14.2	HRS
MLAT	-5.17	9.83	30.90	73.61	•••••	0.00	0.00	0.00	0.00	-4.82	6.30	DEGS
INVLAT	61.7	59.8	59.4	77.1	56.8	0.0	0.0	0.0	0.0	62.8	62.2	DEGS



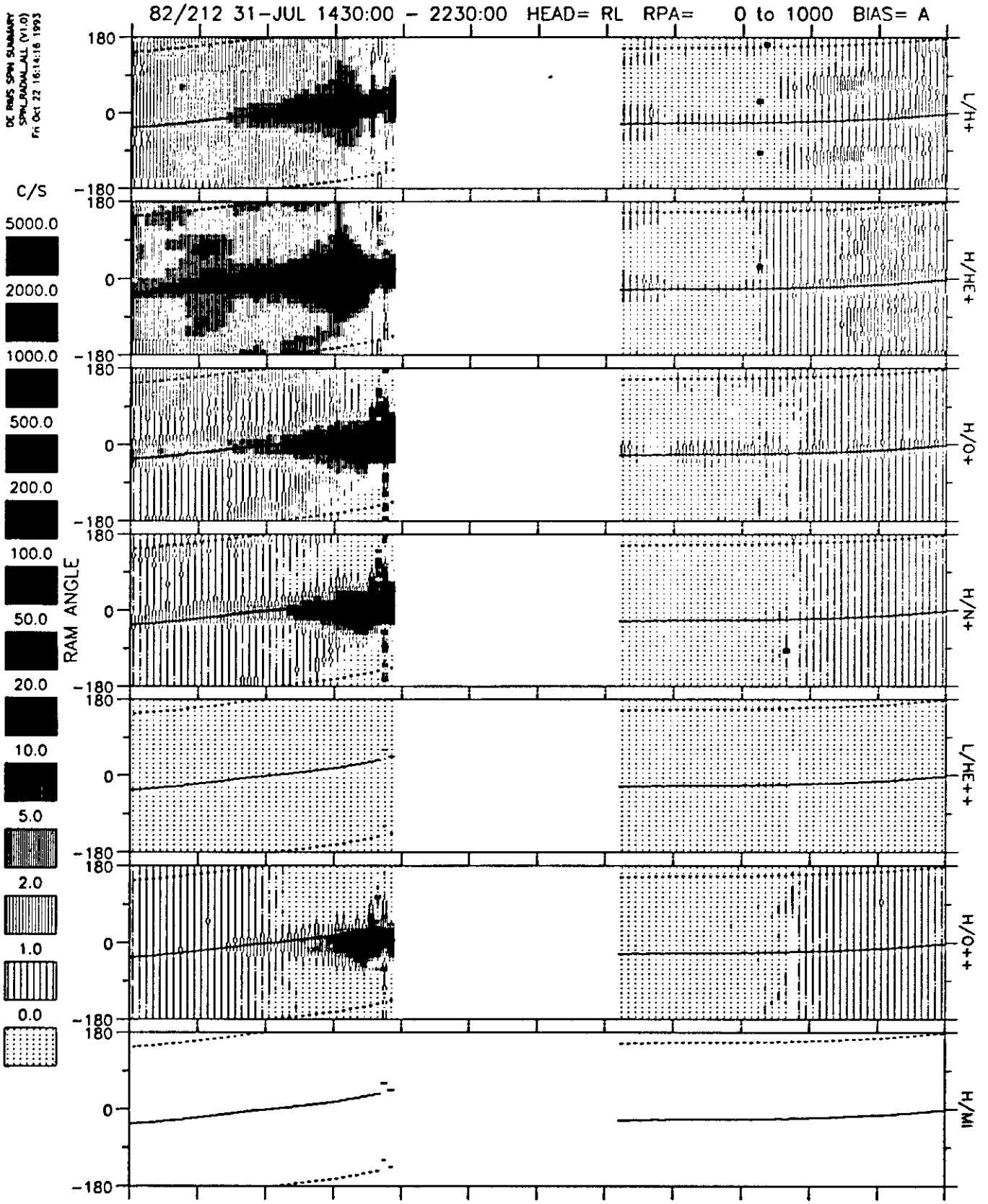
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0040	0120	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	4.4	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	4.9	4.4	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	14.4	14.3	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-4.11	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.4	63.1	61.4	DEGS



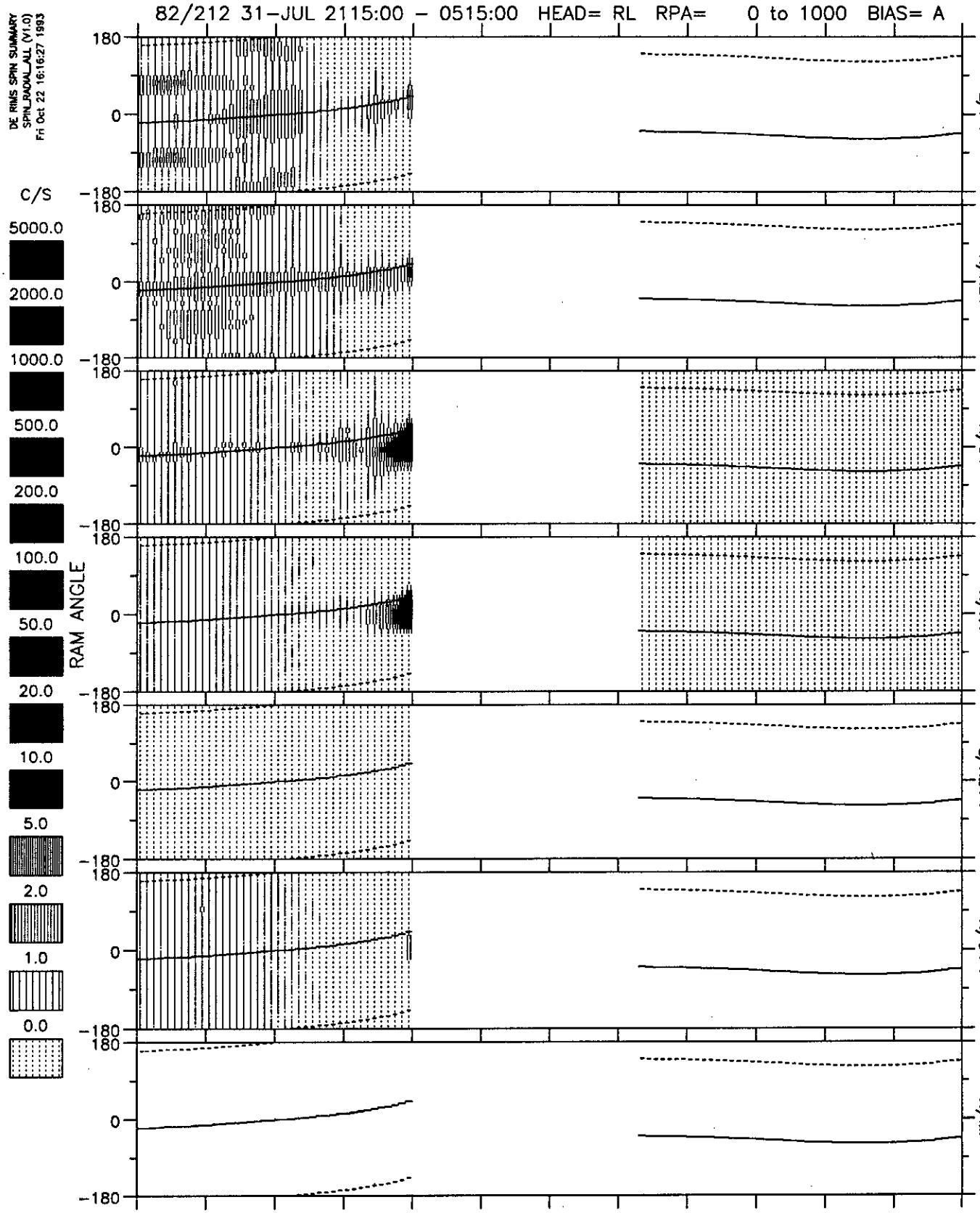
TIME	0155	0235	0315	0000	0000	0000	0000	0635	0715	0755	0835	HHMM
RE	3.9	3.1	1.9	0.0	0.0	0.0	0.0	4.6	4.7	4.5	4.1	RE
L	3.9	3.5	6.4	0.0	0.0	0.0	0.0	7.6	6.0	4.9	4.1	
MLT	14.1	13.9	13.2	0.0	0.0	0.0	0.0	14.0	13.9	13.8	13.9	HRS
MLAT	5.30	21.26	55.78	0.00	0.00	0.00	0.00	*****	*****	*****	-5.12	DEGS
INVLAT	59.6	57.8	66.8	0.0	0.0	0.0	0.0	68.7	65.9	63.1	60.3	DEGS



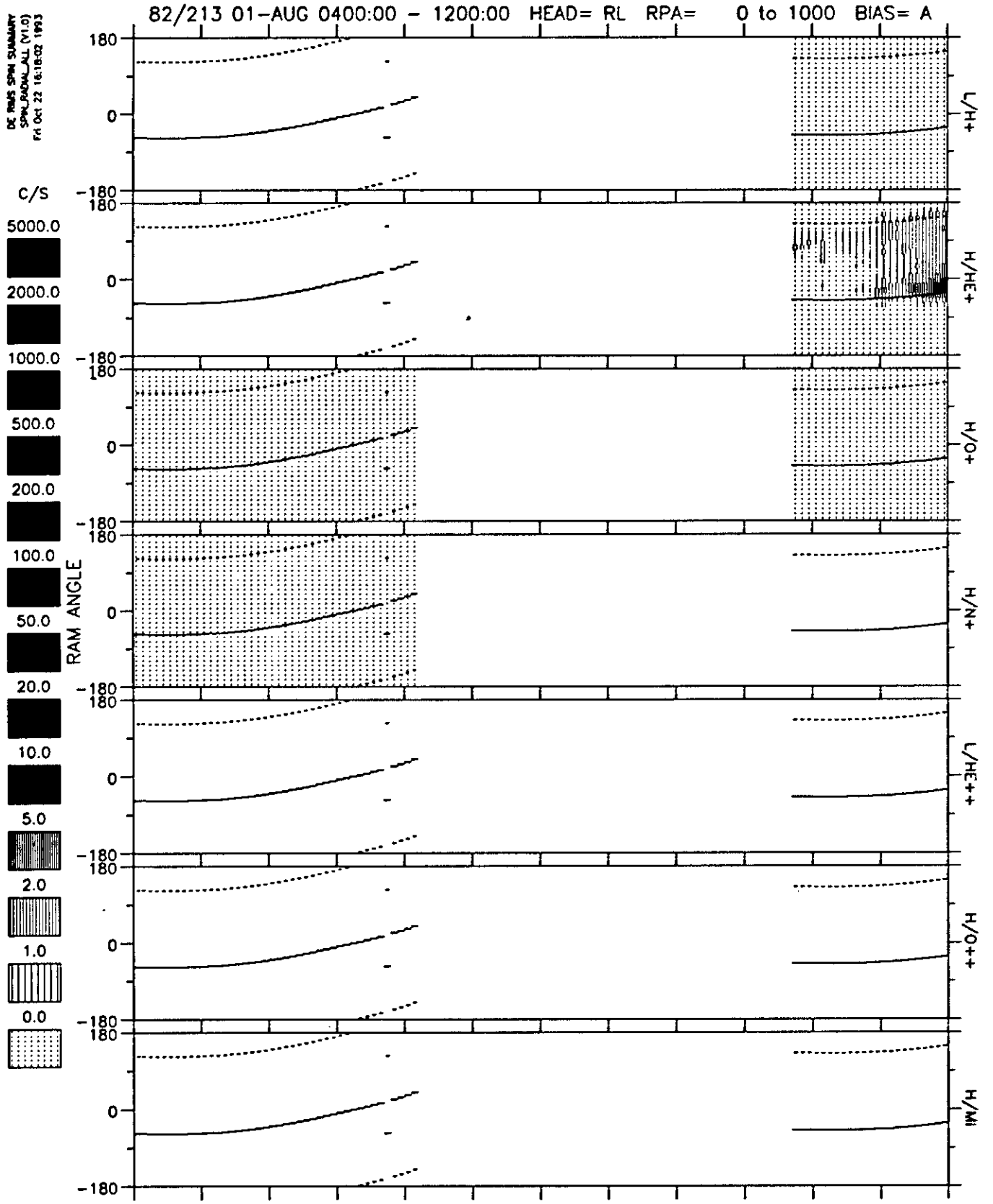
TIME	0810	0850	0930	1010	1050	0000	0000	0000	1330	1410	1450	HHMM
RE	4.4	3.9	3.0	1.8	1.3	0.0	0.0	0.0	4.6	4.7	4.5	RE
L	4.6	3.8	3.4	9.3	1.8	0.0	0.0	0.0	5.7	5.0	4.6	
MLT	13.8	13.9	14.1	15.1	2.3	0.0	0.0	0.0	13.4	13.6	13.8	HRS
MLAT	*****	0.57	20.64	62.54	*****	0.00	0.00	0.00	*****	*****	0.11	DEGS
INVLAT	62.1	59.2	57.4	70.9	42.5	0.0	0.0	0.0	65.3	63.5	62.1	DEGS



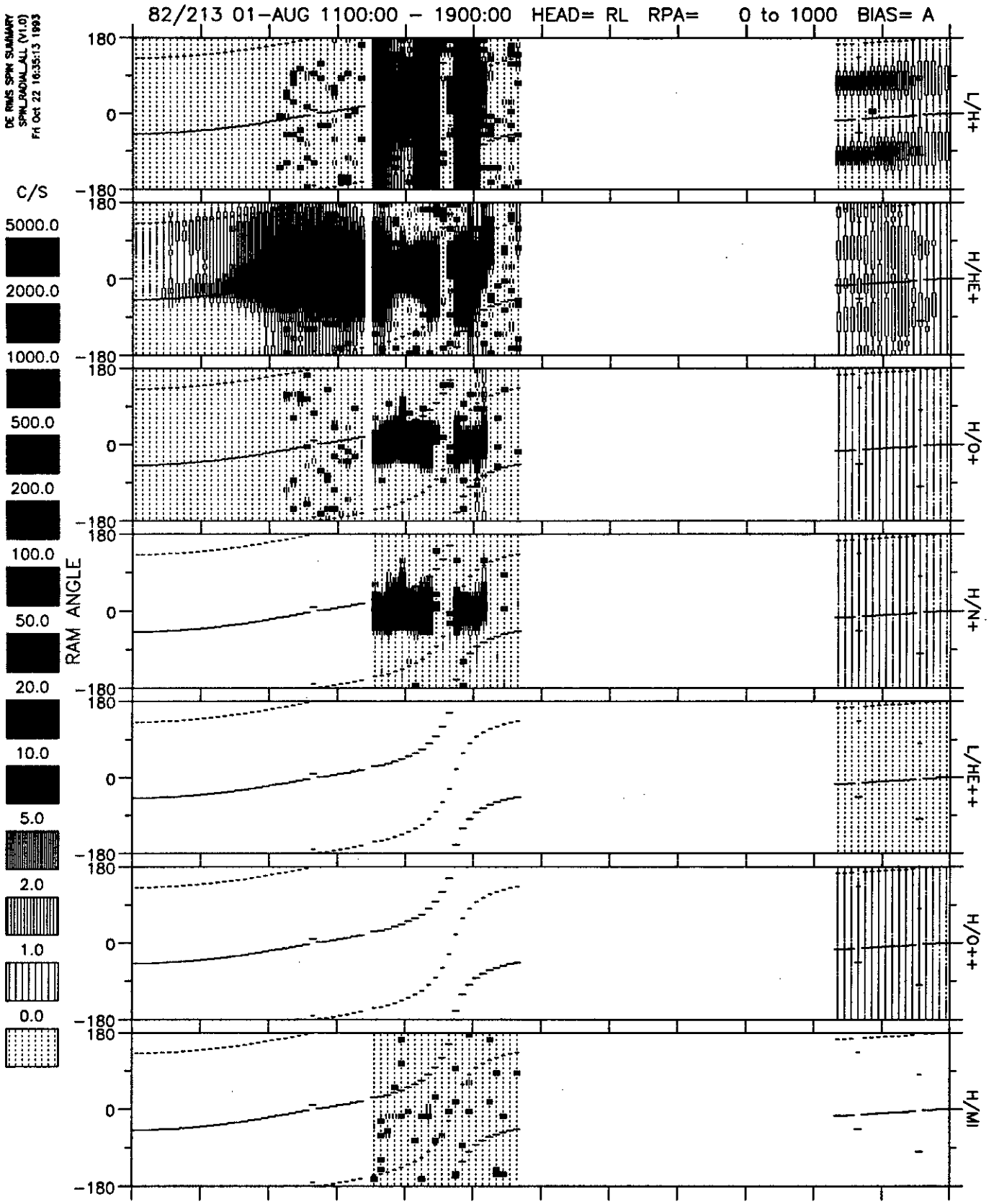
TIME	1510	1550	1630	0000	0000	0000	0000	1950	2030	2110	2150	HHMM
RE	4.3	3.7	2.8	0.0	0.0	0.0	0.0	4.3	4.6	4.6	4.4	RE
L	4.4	4.3	5.2	0.0	0.0	0.0	0.0	5.3	4.9	4.7	4.4	
MLT	13.9	14.1	14.4	0.0	0.0	0.0	0.0	14.4	14.4	14.4	14.3	HRS
MLAT	6.69	22.08	44.93	0.00	0.00	0.00	0.00	•••••	•••••	-5.05	4.46	DEGS
INVLAT	61.5	61.0	63.9	0.0	0.0	0.0	0.0	64.2	63.3	62.5	61.7	DEGS



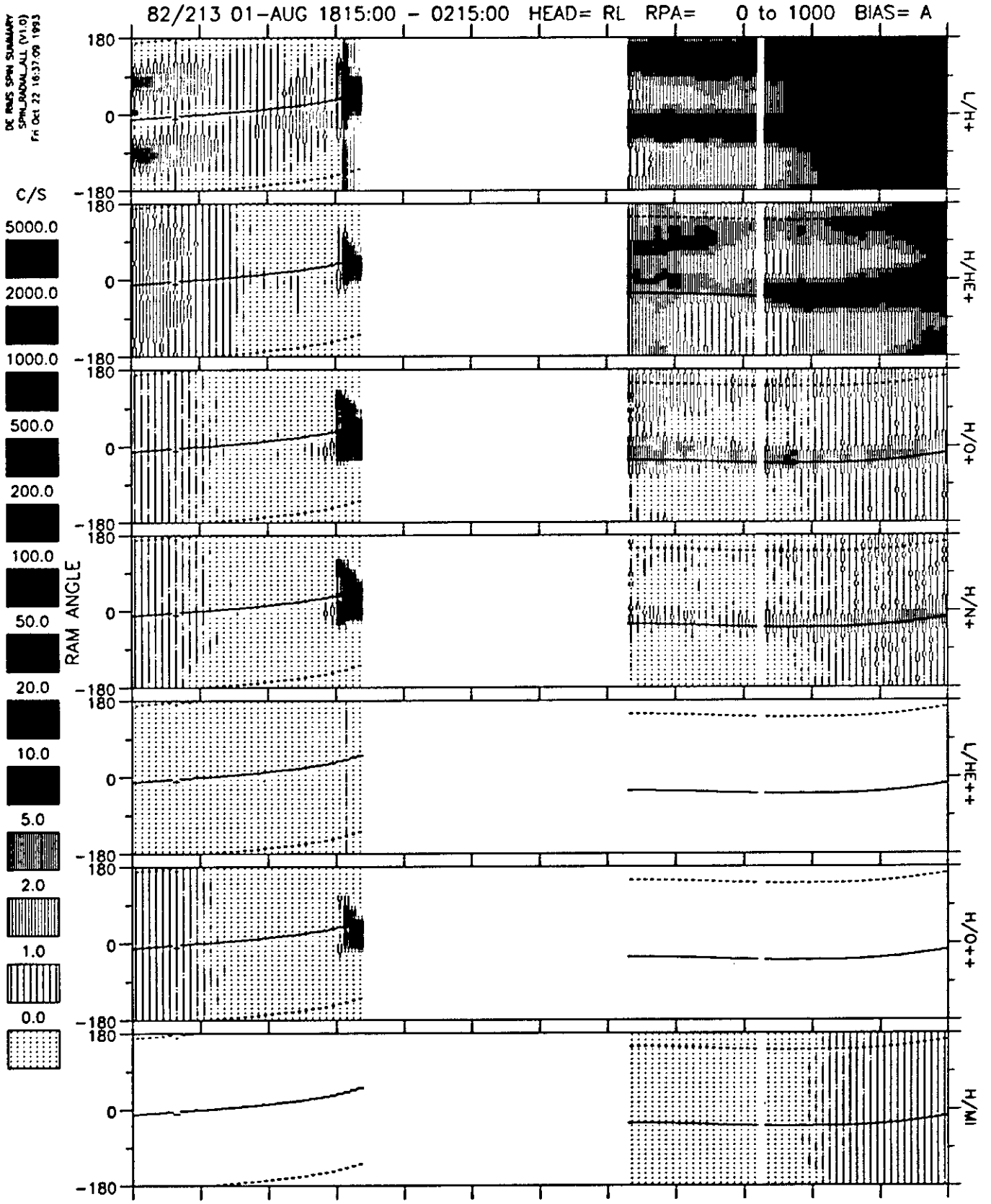
TIME	2155	2235	2315	0000	0000	0000	0000	0235	0315	0355	0435	HHMM
RE	4.4	3.8	2.9	0.0	0.0	0.0	0.0	4.3	4.6	4.7	4.5	RE
L	4.4	4.2	4.3	0.0	0.0	0.0	0.0	8.0	6.6	5.6	4.7	
MLT	14.3	14.1	13.8	0.0	0.0	0.0	0.0	14.7	14.4	14.2	14.1	HRS
MLAT	5.71	17.39	35.18	0.00	0.00	0.00	0.00	*****	*****	*****	*****	DEGS
INVLAT	61.5	60.6	61.1	0.0	0.0	0.0	0.0	69.3	67.1	64.9	62.5	DEGS



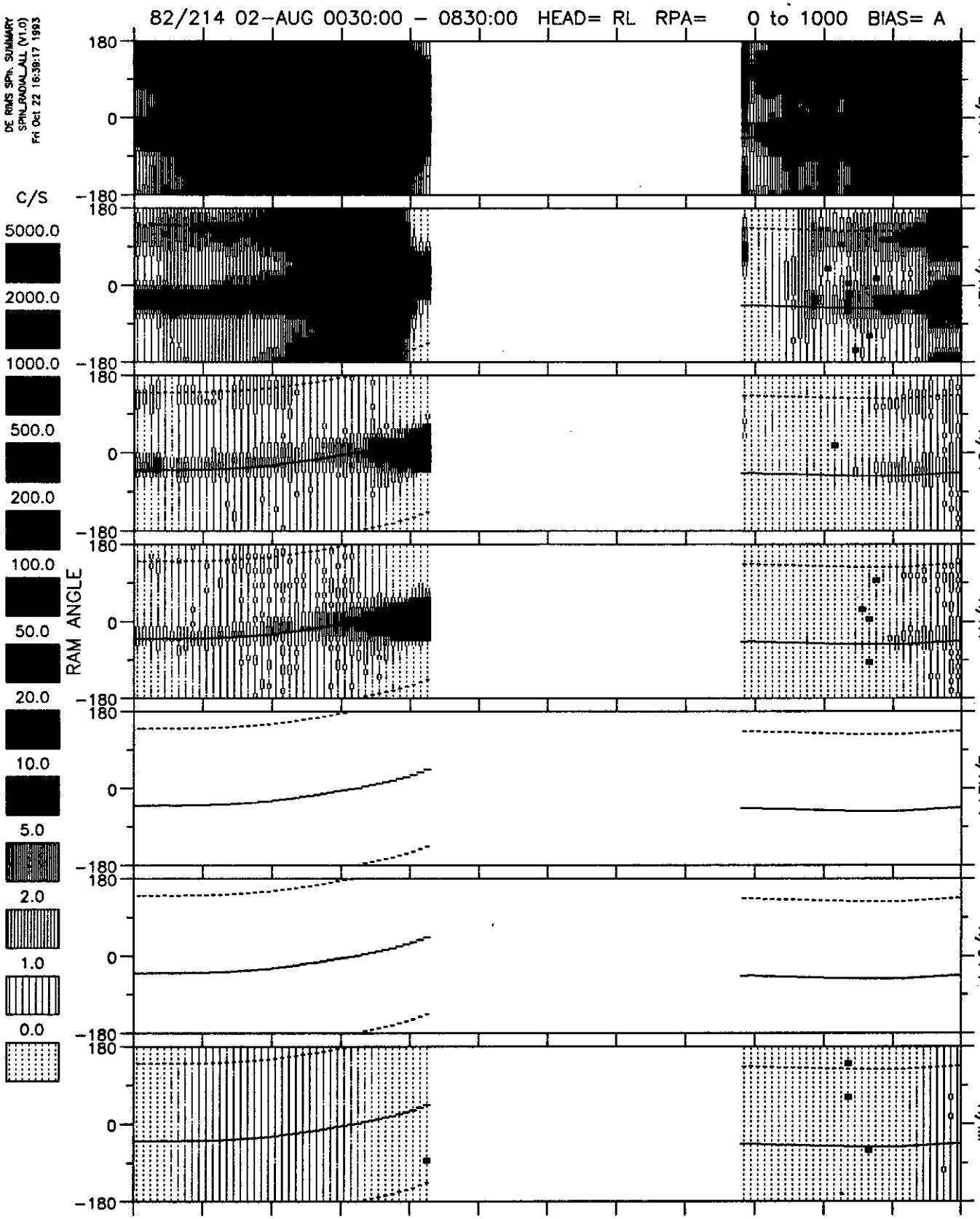
TIME	0440	0520	0600	0640	0000	0000	0000	0000	0000	1040	1120	HHMM
RE	4.4	3.9	3.1	1.8	0.0	0.0	0.0	0.0	0.0	4.7	4.5	RE
L	4.6	3.8	3.3	6.6	0.0	0.0	0.0	0.0	0.0	5.5	4.7	
MLT	14.1	13.9	13.9	13.9	0.0	0.0	0.0	0.0	0.0	13.5	13.6	HRS
MLAT	*****	-1.41	16.65	55.67	0.00	0.00	0.00	0.00	0.00	*****	*****	DEGS
INVLAT	62.2	59.3	56.7	67.2	0.0	0.0	0.0	0.0	0.0	64.9	62.6	DEGS



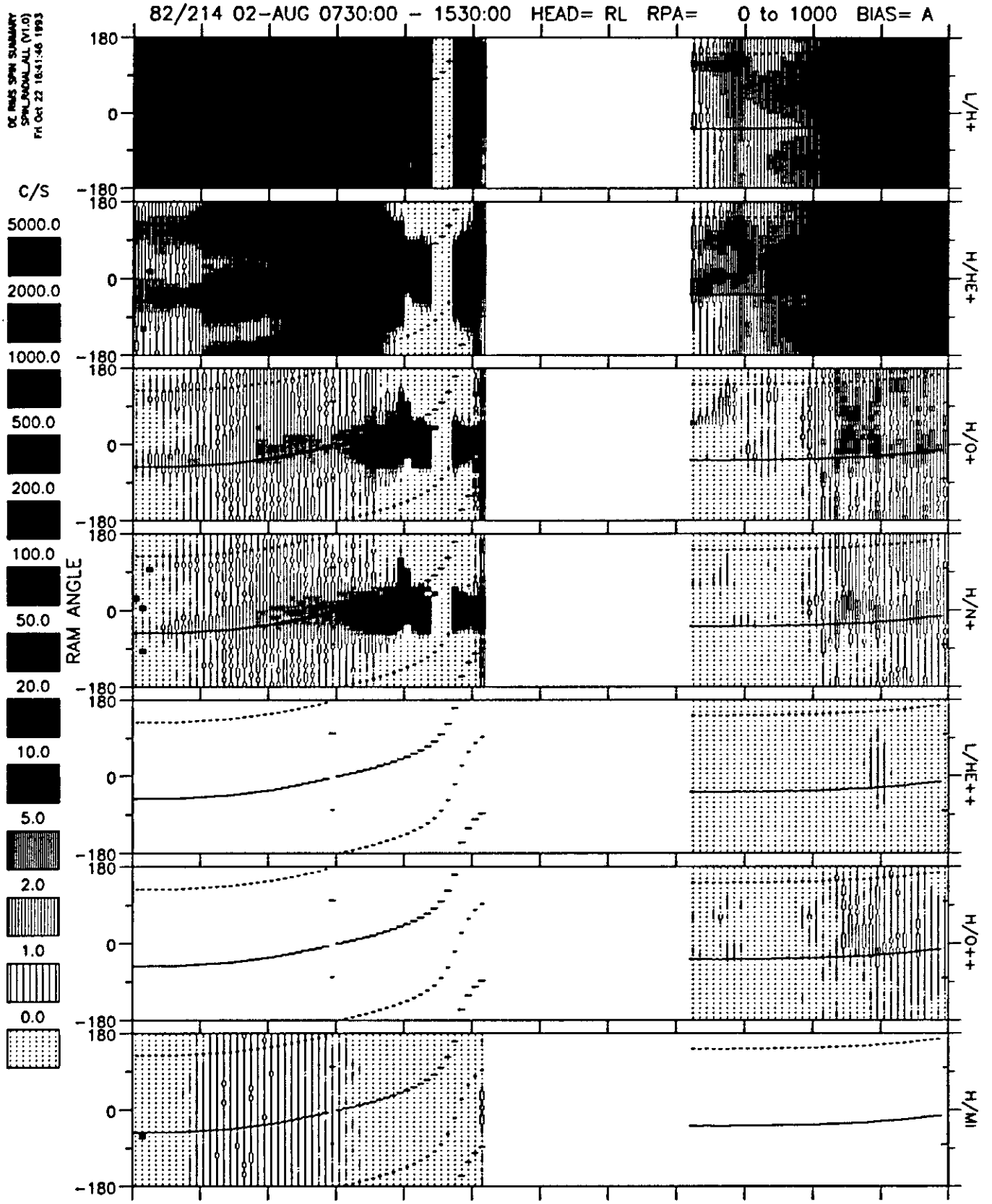
TIME	1140	1220	1300	1340	1420	0000	0000	0000	0000	0000	1820	HHMM
RE	4.3	3.7	2.8	1.5	1.5	0.0	0.0	0.0	0.0	0.0	4.4	RE
L	4.4	3.9	3.9	58.1	7.8	0.0	0.0	0.0	0.0	0.0	4.6	
MLT	13.7	13.9	14.2	19.6	3.1	0.0	0.0	0.0	0.0	0.0	14.1	HRS
MLAT	-3.94	11.45	34.14	78.87	*****	0.00	0.00	0.00	0.00	0.00	7.14	DEGS
INVLAT	61.4	59.5	59.7	82.4	68.9	0.0	0.0	0.0	0.0	0.0	62.1	DEGS



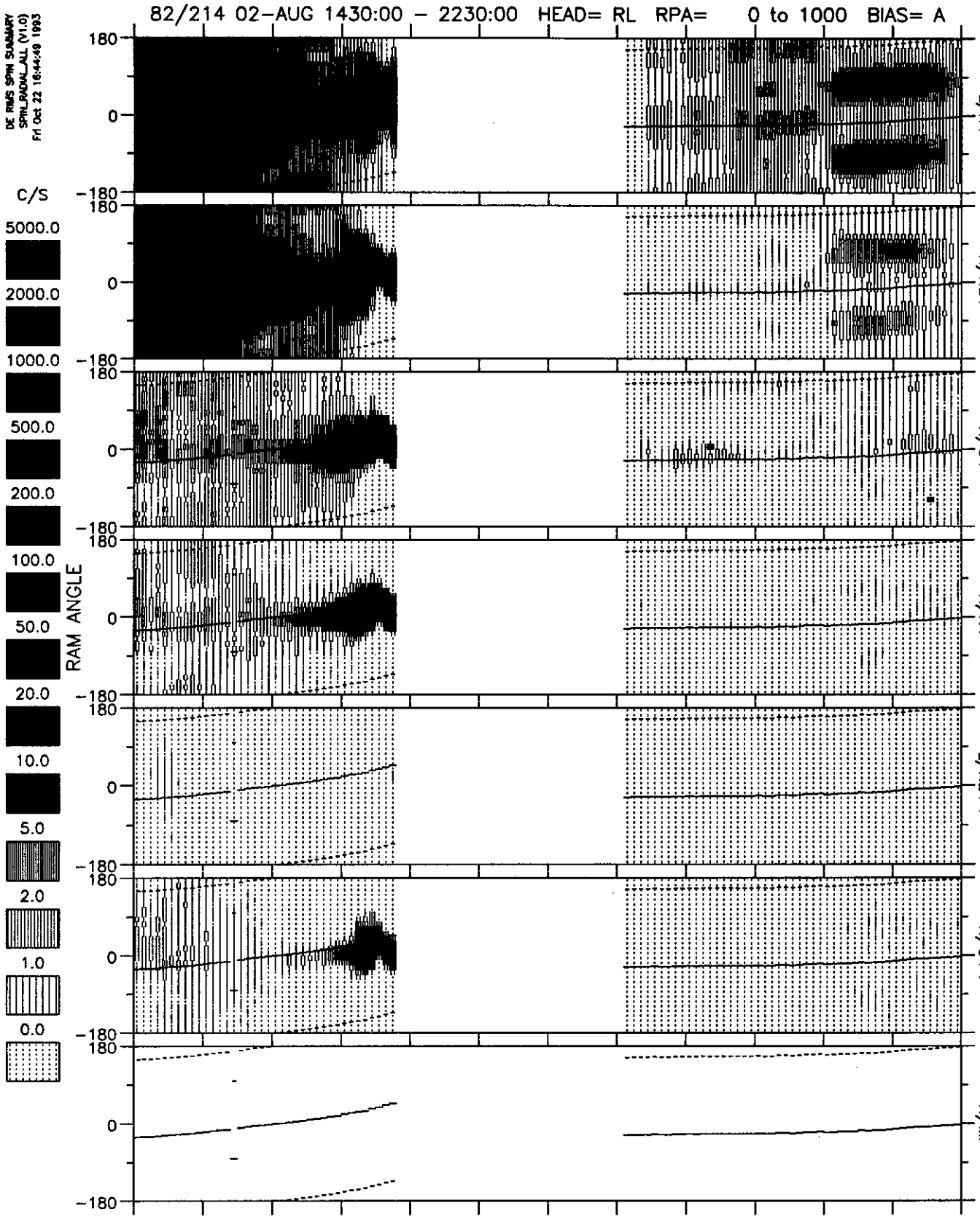
TIME	1855	1935	2015	0000	0000	0000	0000	2335	0015	0055	0135	HHMM
RE	4.0	3.2	2.0	0.0	0.0	0.0	0.0	4.5	4.7	4.5	4.2	RE
L	4.5	4.9	13.9	0.0	0.0	0.0	0.0	5.7	5.2	4.7	4.1	
MLT	14.1	14.1	13.5	0.0	0.0	0.0	0.0	14.6	14.4	14.2	14.1	HRS
MLAT	18.24	35.16	67.51	0.00	0.00	0.00	0.00	•••••	•••••	-9.39	0.25	DEGS
INVLAT	61.9	63.1	74.4	0.0	0.0	0.0	0.0	65.2	63.9	62.4	60.4	DEGS



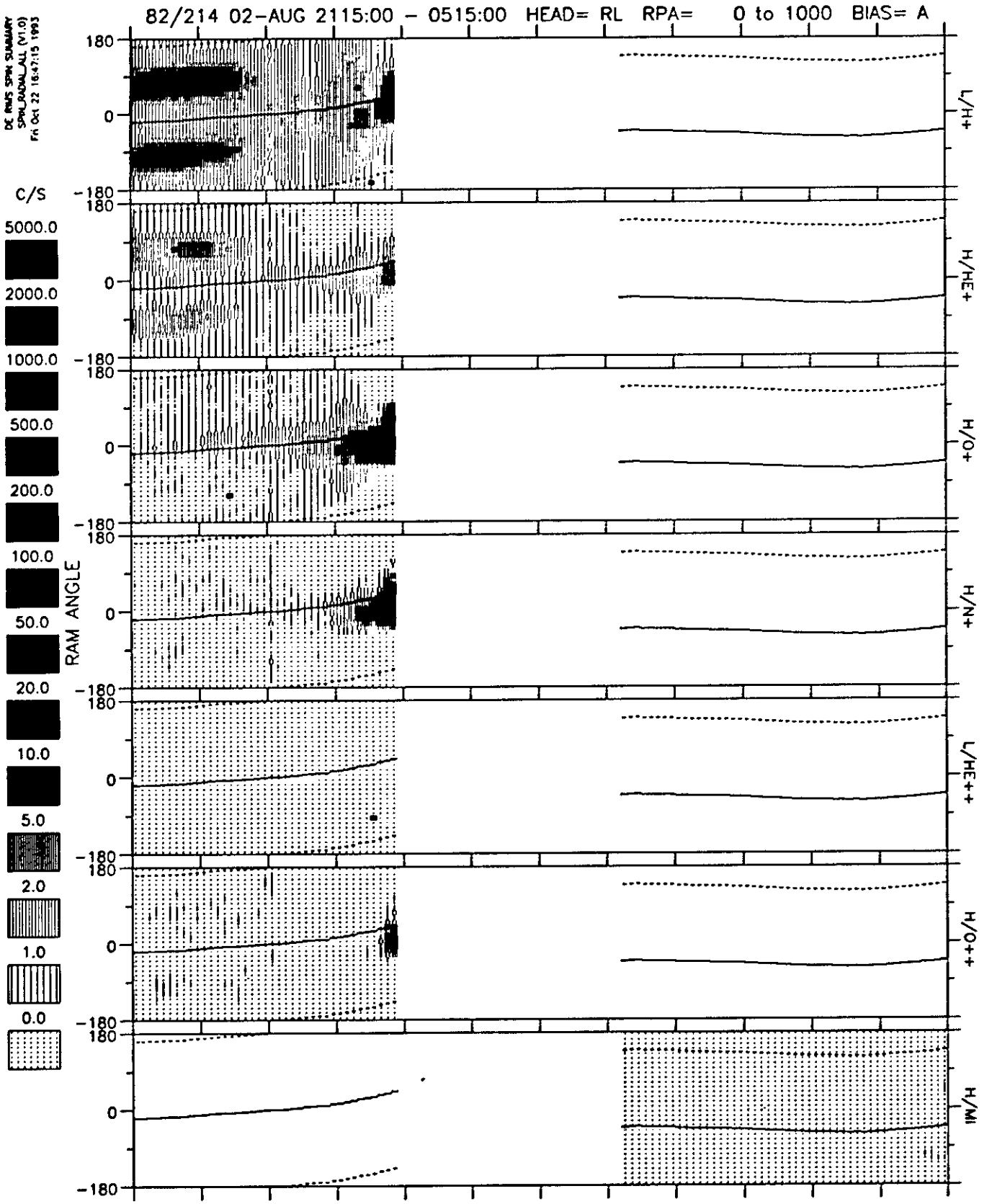
TIME	0110	0150	0230	0310	0000	0000	0000	0000	0630	0710	0750	HHMM
RE	4.4	3.9	3.1	1.9	0.0	0.0	0.0	0.0	4.6	4.7	4.5	RE
L	4.5	3.9	3.5	6.3	0.0	0.0	0.0	0.0	7.7	6.0	4.9	
MLT	14.2	14.0	13.8	13.1	0.0	0.0	0.0	0.0	13.9	13.8	13.7	HRS
MLAT	-6.34	4.60	20.63	55.43	0.00	0.00	0.00	0.00	*****	*****	*****	DEGS
INVLAT	61.8	59.6	57.6	66.5	0.0	0.0	0.0	0.0	68.9	66.0	63.2	DEGS



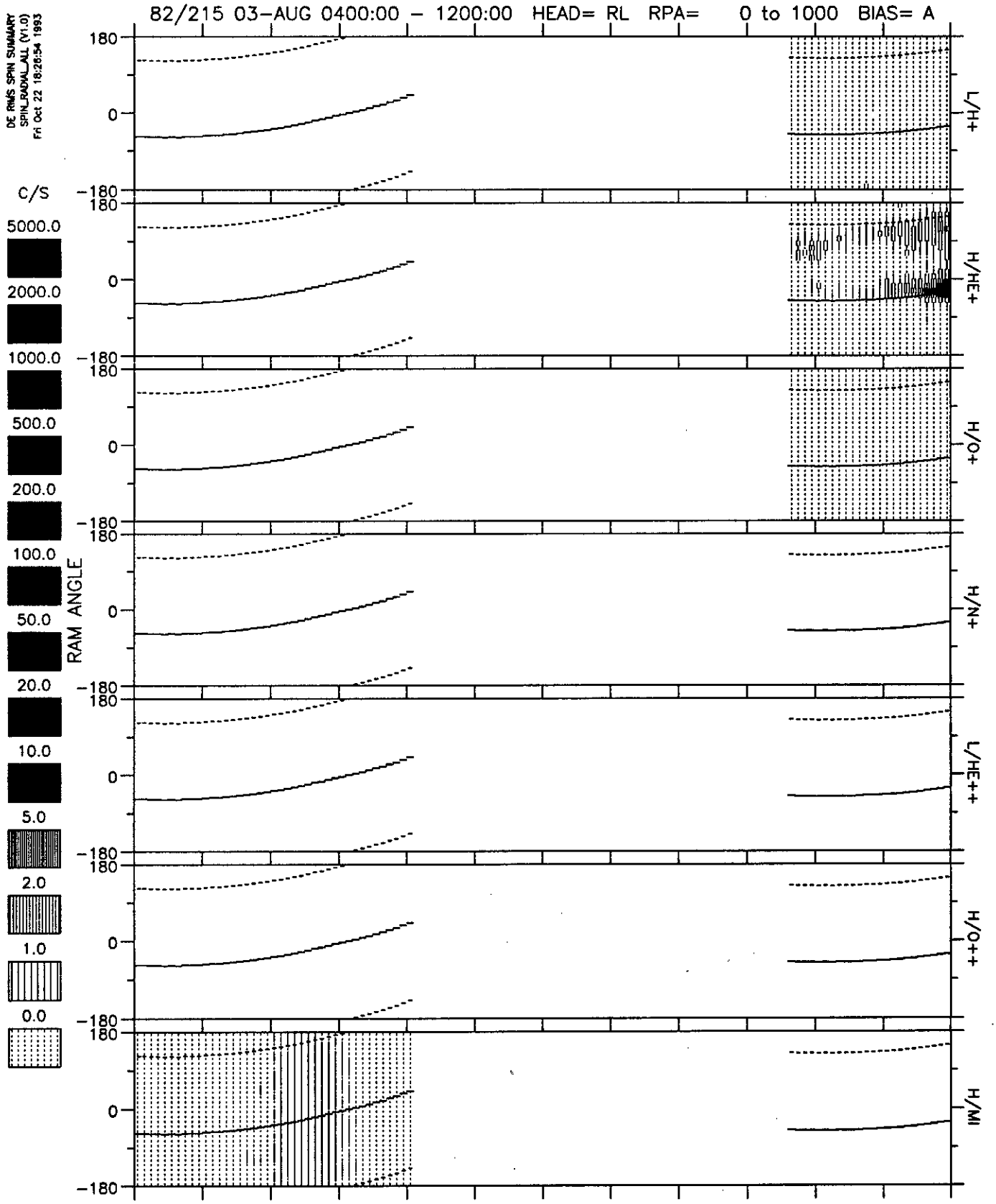
TIME	0810	0850	0930	1010	1050	0000	0000	0000	1330	1410	1450	HHMM
RE	4.3	3.8	2.9	1.6	1.5	0.0	0.0	0.0	4.6	4.7	4.4	RE
L	4.5	3.7	3.4	20.6	3.2	0.0	0.0	0.0	5.7	5.0	4.5	
MLT	13.7	13.8	14.0	15.8	2.5	0.0	0.0	0.0	13.3	13.5	13.7	HRS
MLAT	*****	2.11	23.60	71.81	*****	0.00	0.00	0.00	*****	*****	1.23	DEGS
INVLAT	61.8	58.9	57.3	77.2	55.8	0.0	0.0	0.0	65.2	63.4	61.9	DEGS



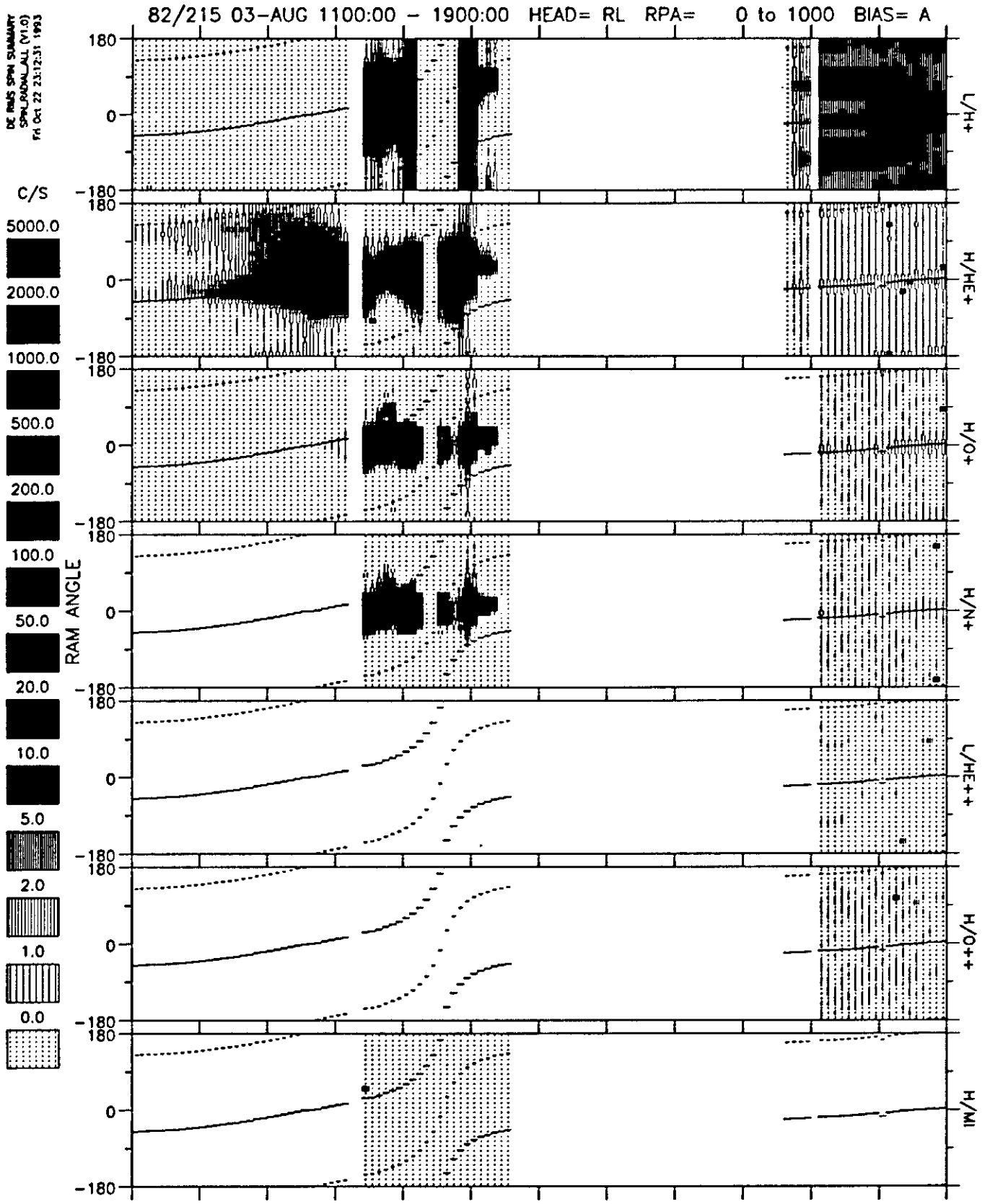
TIME	1510	1550	1630	0000	0000	0000	0000	1950	2030	2110	2150	HHMM
RE	4.2	3.6	2.6	0.0	0.0	0.0	0.0	4.4	4.6	4.6	4.4	RE
L	4.4	4.2	5.5	0.0	0.0	0.0	0.0	5.3	4.9	4.7	4.4	
MLT	13.8	14.0	14.3	0.0	0.0	0.0	0.0	14.3	14.3	14.2	14.1	HRS
MLAT	7.94	23.88	48.58	0.00	0.00	0.00	0.00	*****	*****	-4.60	5.02	DEGS
INVLAT	61.4	61.0	64.8	0.0	0.0	0.0	0.0	64.2	63.3	62.4	61.5	DEGS



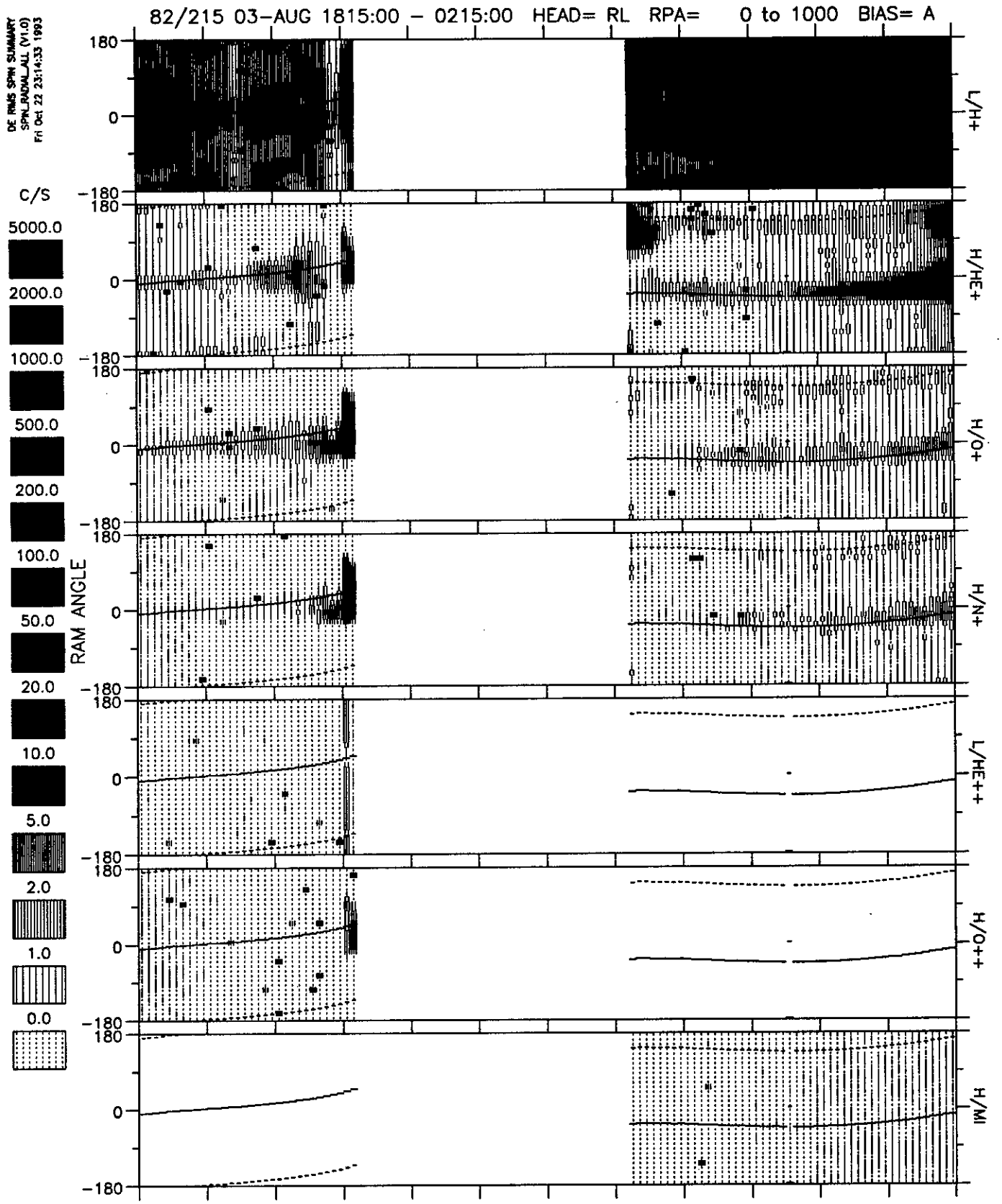
TIME	2155	2235	2315	0000	0000	0000	0000	0235	0315	0355	0435	HHMM
RE	4.3	3.8	2.8	0.0	0.0	0.0	0.0	4.3	4.6	4.6	4.4	RE
L	4.3	4.1	4.3	0.0	0.0	0.0	0.0	8.0	6.5	5.5	4.6	
MLT	14.1	14.0	13.6	0.0	0.0	0.0	0.0	14.5	14.3	14.1	13.9	HRS
MLAT	6.34	17.16	37.79	0.00	0.00	0.00	0.00	*****	*****	*****	*****	DEGS
INVLAT	61.4	60.4	61.3	0.0	0.0	0.0	0.0	69.3	67.0	64.8	62.3	DEGS



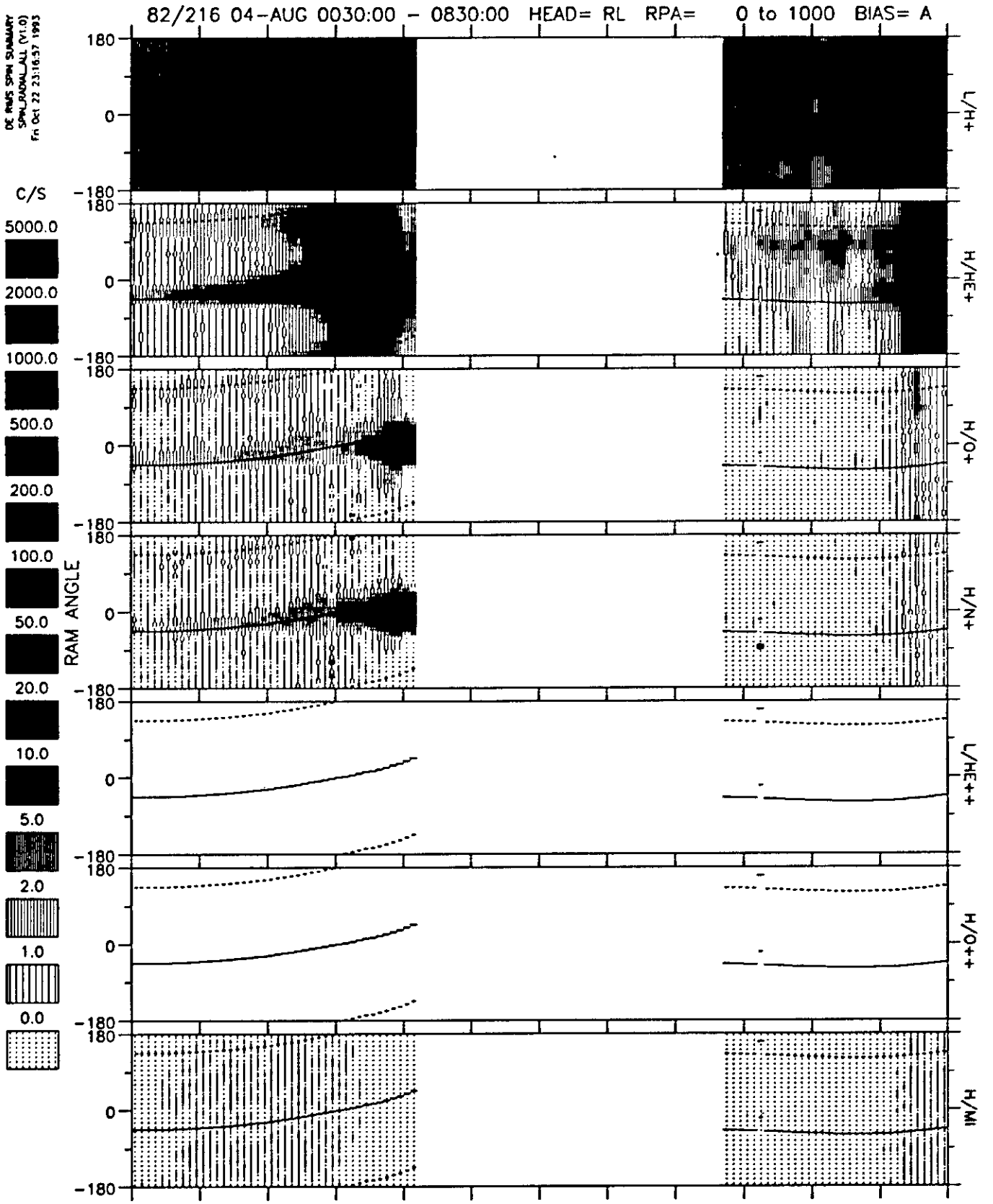
TIME	0440	0520	0600	0640	0000	0000	0000	0000	0000	1040	1120	HHMM
RE	4.4	3.8	2.9	1.7	0.0	0.0	0.0	0.0	0.0	4.7	4.5	RE
L	4.5	3.7	3.3	8.7	0.0	0.0	0.0	0.0	0.0	5.5	4.6	
MLT	13.9	13.8	13.8	13.8	0.0	0.0	0.0	0.0	0.0	13.4	13.5	HRS
MLAT	*****	-0.22	19.26	60.74	0.00	0.00	0.00	0.00	0.00	*****	-9.41	DEGS
INVLAT	61.9	58.8	56.4	70.1	0.0	0.0	0.0	0.0	0.0	64.7	62.3	DEGS



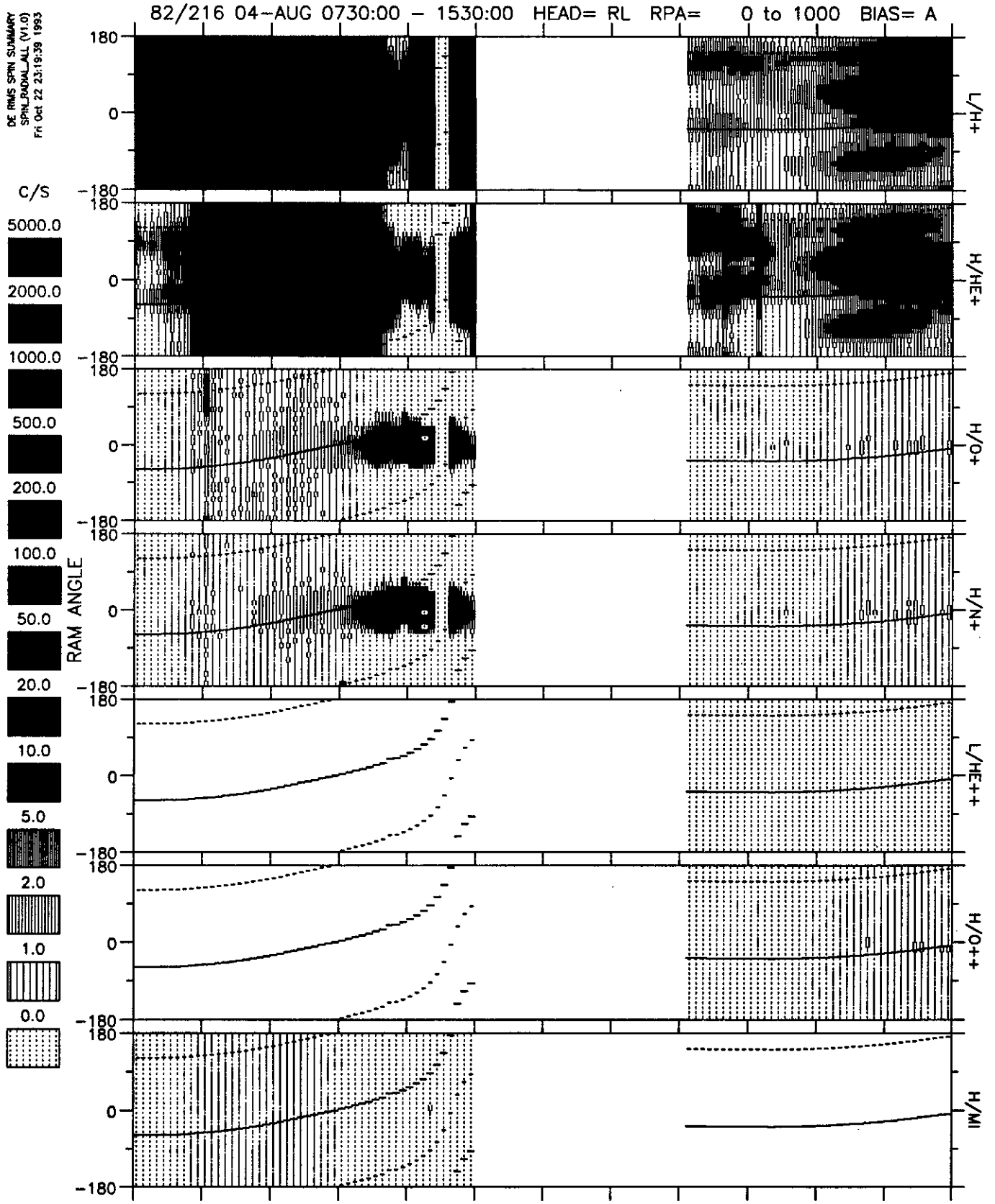
TIME	1140	1220	1300	1340	1420	0000	0000	0000	0000	0000	1820	HHMM
RE	4.3	3.6	2.7	1.3	1.7	0.0	0.0	0.0	0.0	0.0	4.4	RE
L	4.3	3.8	4.0	19.9	19.6	0.0	0.0	0.0	0.0	0.0	4.5	
MLT	13.6	13.8	14.2	23.1	3.8	0.0	0.0	0.0	0.0	0.0	14.0	HRS
MLAT	-2.63	13.42	37.70	72.54	•••••	0.00	0.00	0.00	0.00	0.00	8.02	DEGS
INVLAT	61.2	59.2	60.1	76.9	76.9	0.0	0.0	0.0	0.0	0.0	62.0	DEGS



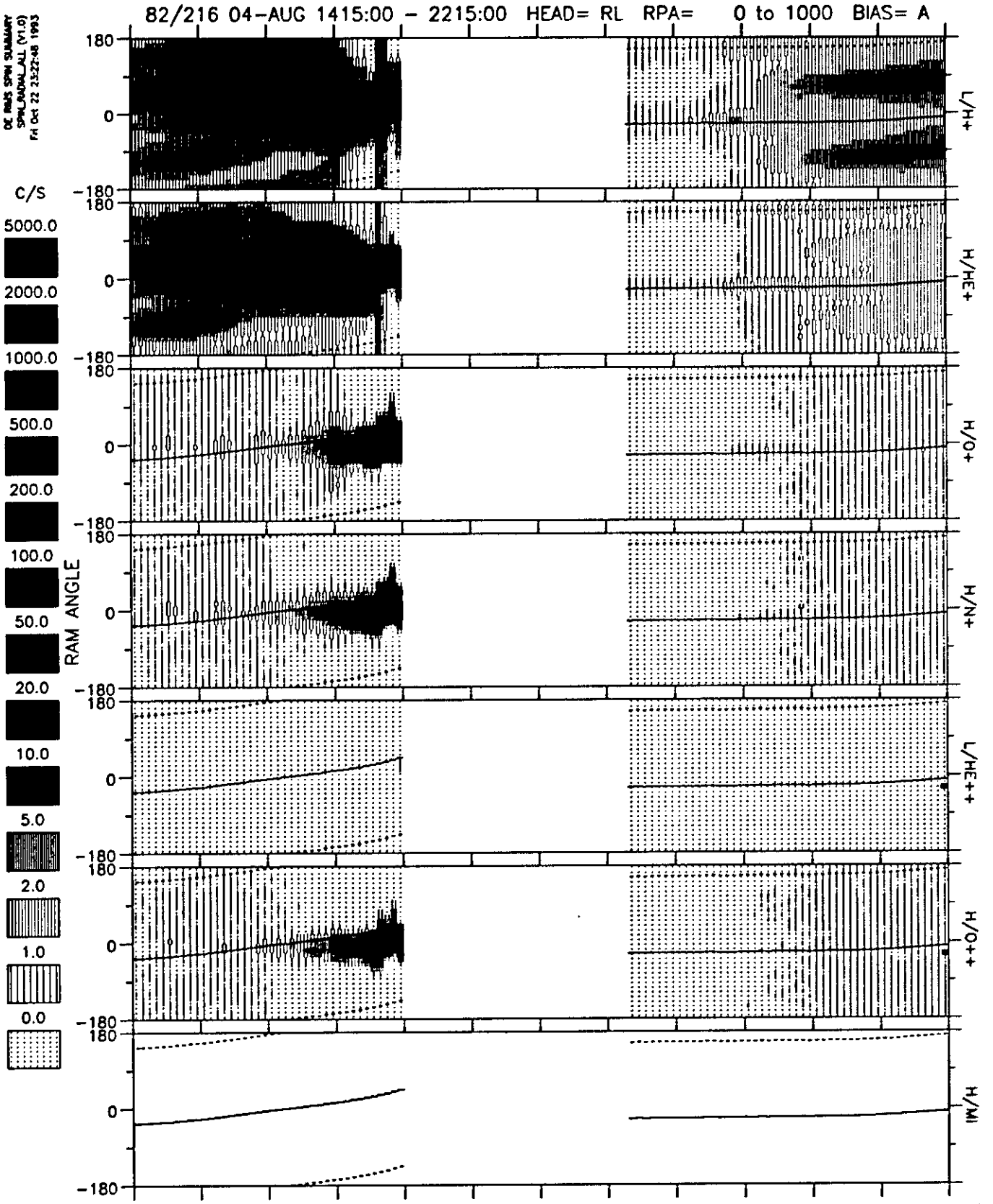
TIME	1855	1935	2015	0000	0000	0000	0000	2335	0015	0055	0135	HHMM
RE	3.9	3.1	1.9	0.0	0.0	0.0	0.0	4.6	4.7	4.5	4.1	RE
L	4.5	4.9	24.5	0.0	0.0	0.0	0.0	5.7	5.2	4.6	4.0	
MLT	14.0	13.9	12.9	0.0	0.0	0.0	0.0	14.4	14.3	14.1	13.9	HRS
MLAT	19.41	37.33	74.06	0.00	0.00	0.00	0.00	*****	*****	-9.03	0.91	DEGS
INVLAT	61.8	63.3	78.3	0.0	0.0	0.0	0.0	65.2	63.9	62.2	60.1	DEGS



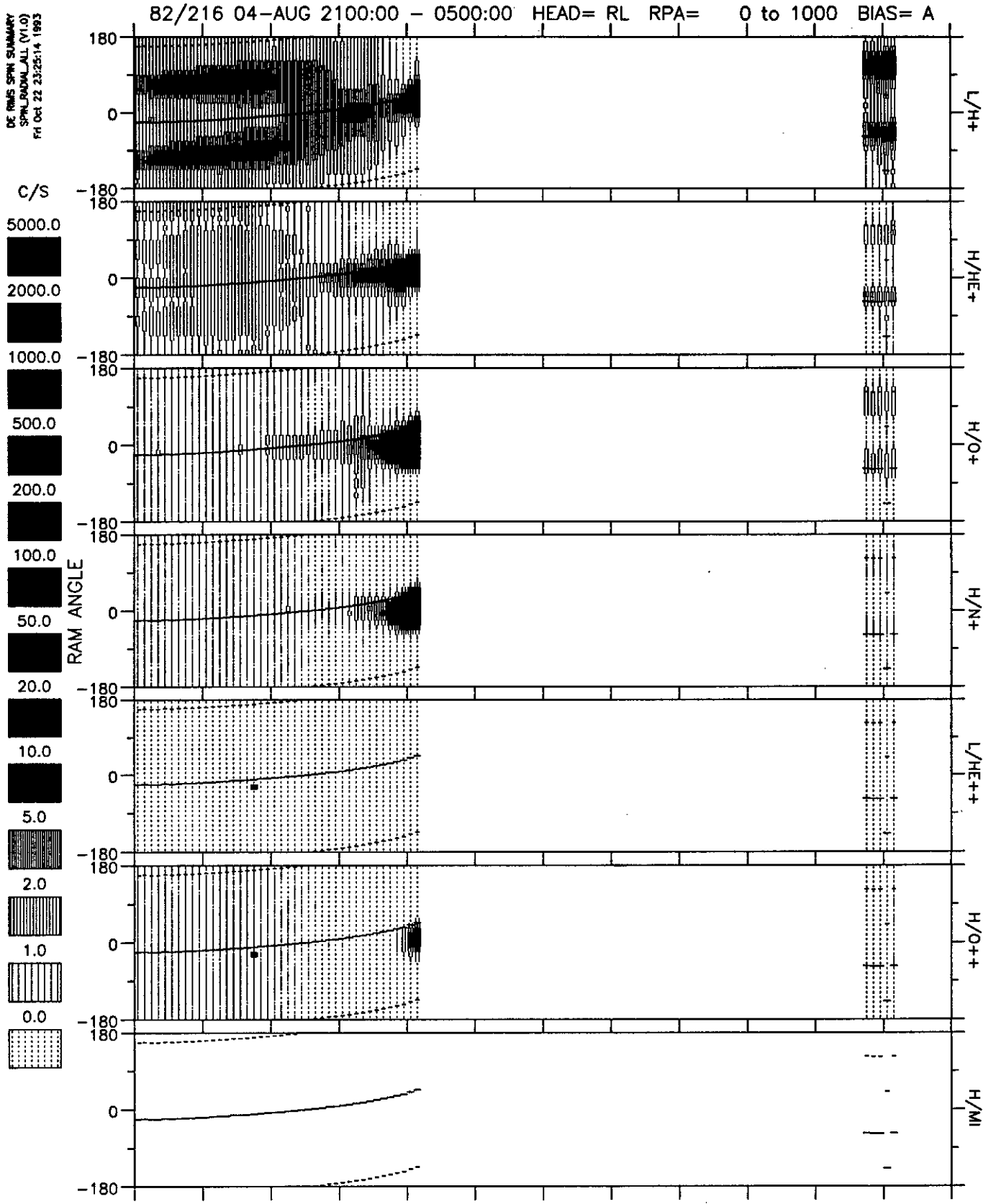
TIME	0110	0150	0230	0310	0000	0000	0000	0000	0630	0710	0750	HHMM
RE	4.4	3.8	3.0	1.7	0.0	0.0	0.0	0.0	4.6	4.7	4.5	RE
L	4.4	3.8	3.4	9.8	0.0	0.0	0.0	0.0	7.6	5.9	4.8	
MLT	14.0	13.8	13.6	12.7	0.0	0.0	0.0	0.0	13.7	13.6	13.6	HRS
MLAT	-5.56	5.52	22.84	63.38	0.00	0.00	0.00	0.00	*****	*****	*****	DEGS
INVLAT	61.5	59.2	57.4	71.3	0.0	0.0	0.0	0.0	68.7	65.8	62.9	DEGS



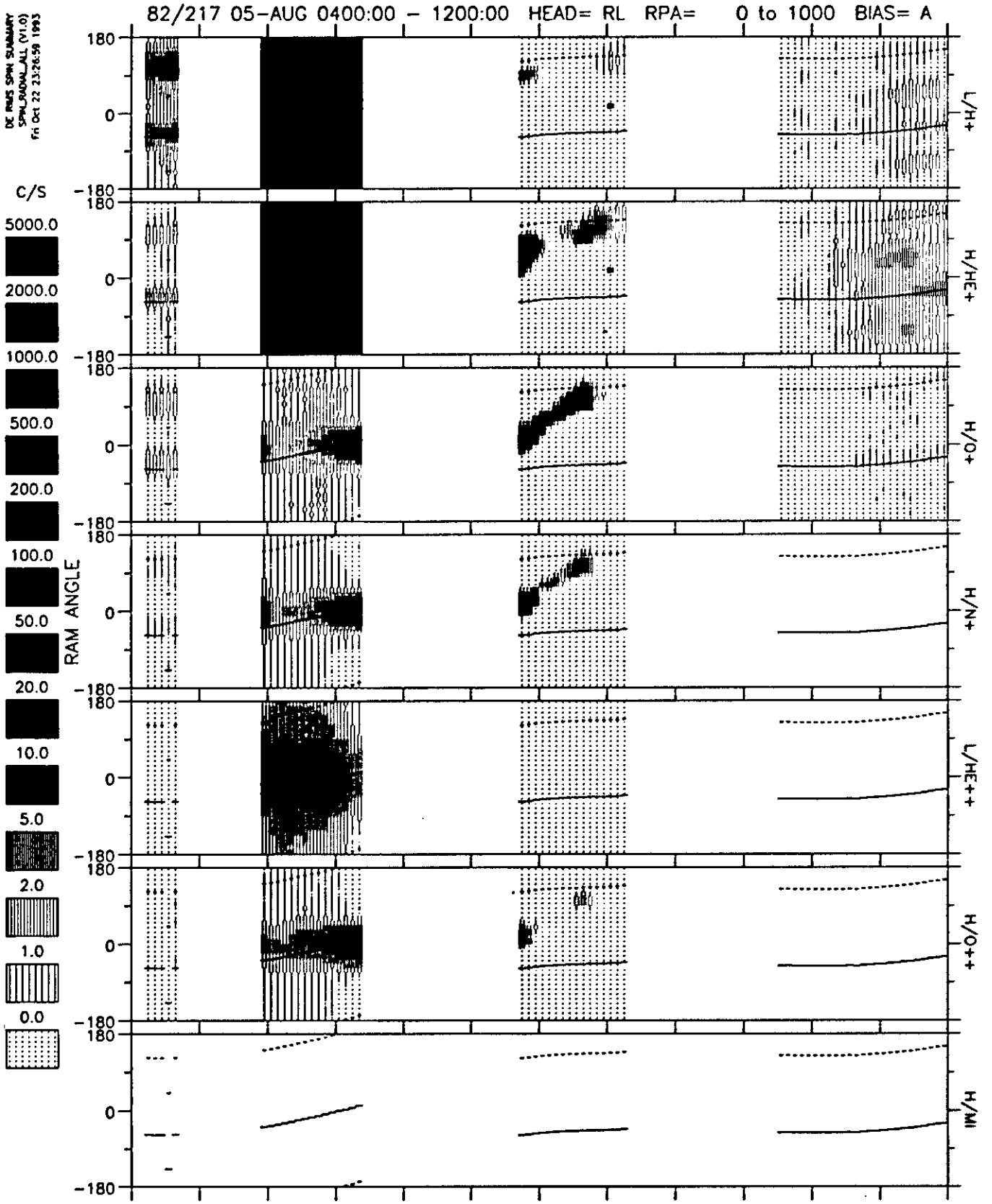
TIME	0810	0850	0930	1010	0000	0000	0000	0000	1330	1410	1450	HHMM
RE	4.3	3.7	2.7	1.4	0.0	0.0	0.0	0.0	4.6	4.6	4.4	RE
L	4.4	3.7	3.4	93.3	0.0	0.0	0.0	0.0	5.6	4.9	4.5	
MLT	13.6	13.7	13.9	18.7	0.0	0.0	0.0	0.0	13.2	13.4	13.6	HRS
MLAT	*****	3.82	27.00	80.26	0.00	0.00	0.00	0.00	*****	*****	2.41	DEGS
INVLAT	61.5	58.5	57.4	84.1	0.0	0.0	0.0	0.0	65.0	63.2	61.8	DEGS



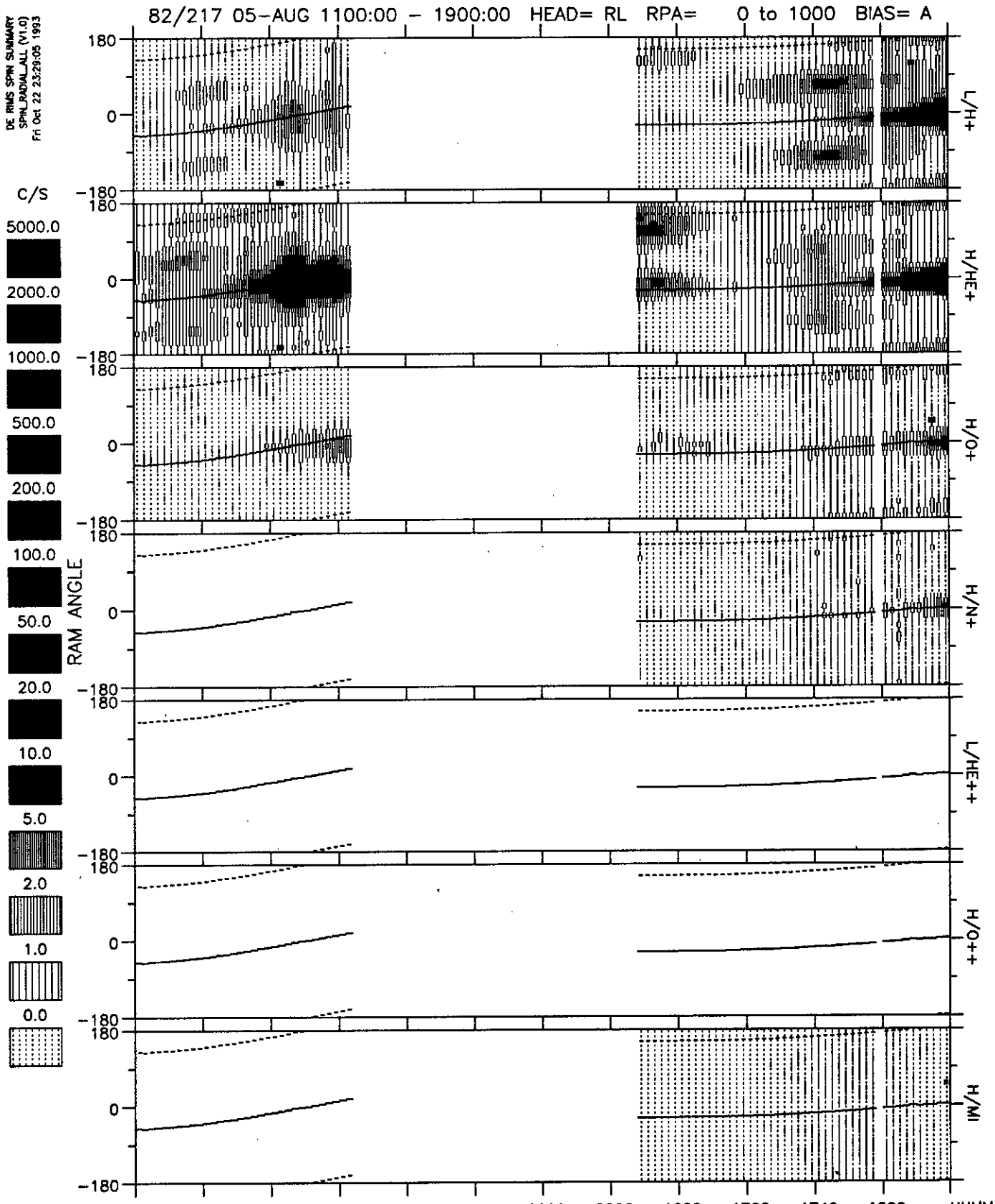
TIME	1455	1535	1615	0000	0000	0000	0000	1935	2015	2055	2135	HHMM
RE	4.3	3.8	2.9	0.0	0.0	0.0	0.0	4.3	4.6	4.7	4.4	RE
L	4.4	4.2	4.8	0.0	0.0	0.0	0.0	5.5	5.0	4.8	4.5	.
MLT	13.6	13.8	14.1	0.0	0.0	0.0	0.0	14.1	14.1	14.1	14.0	HRS
MLAT	4.04	18.97	40.44	0.00	0.00	0.00	0.00	*****	*****	-7.58	1.81	DEGS
INVLAT	61.6	60.8	62.7	0.0	0.0	0.0	0.0	64.7	63.6	62.7	61.7	DEGS



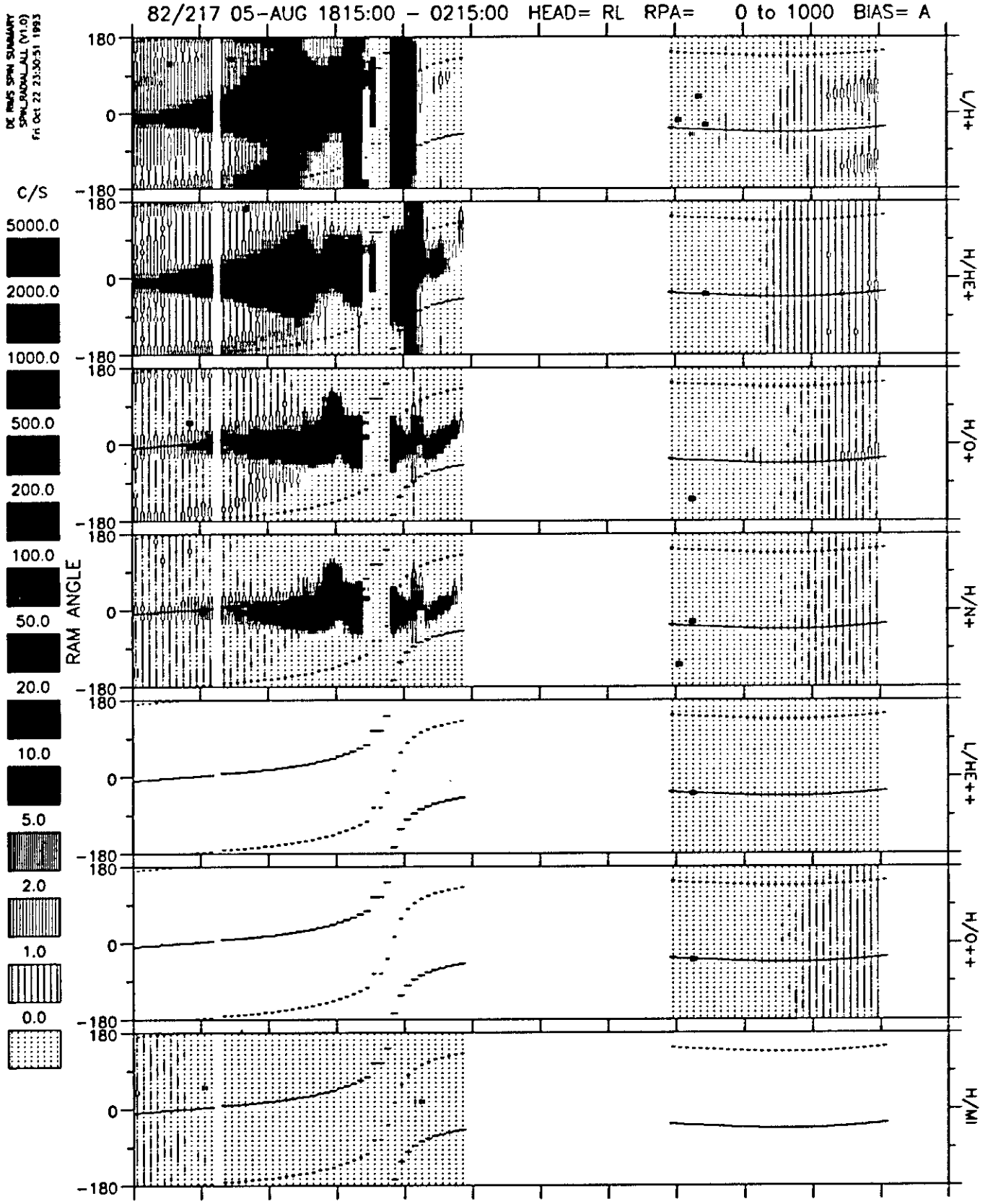
TIME	2140	2220	2300	2340	0000	0000	0000	0000	0000	0000	0420	HHMM
RE	4.4	3.9	3.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	4.5	RE
L	4.4	4.1	4.1	12.9	0.0	0.0	0.0	0.0	0.0	0.0	4.9	
MLT	14.0	13.9	13.6	12.1	0.0	0.0	0.0	0.0	0.0	0.0	13.8	HRS
MLAT	3.07	14.37	31.09	67.59	0.00	0.00	0.00	0.00	0.00	0.00	*****	DEGS
INVLAT	61.6	60.4	60.3	73.8	0.0	0.0	0.0	0.0	0.0	0.0	63.0	DEGS



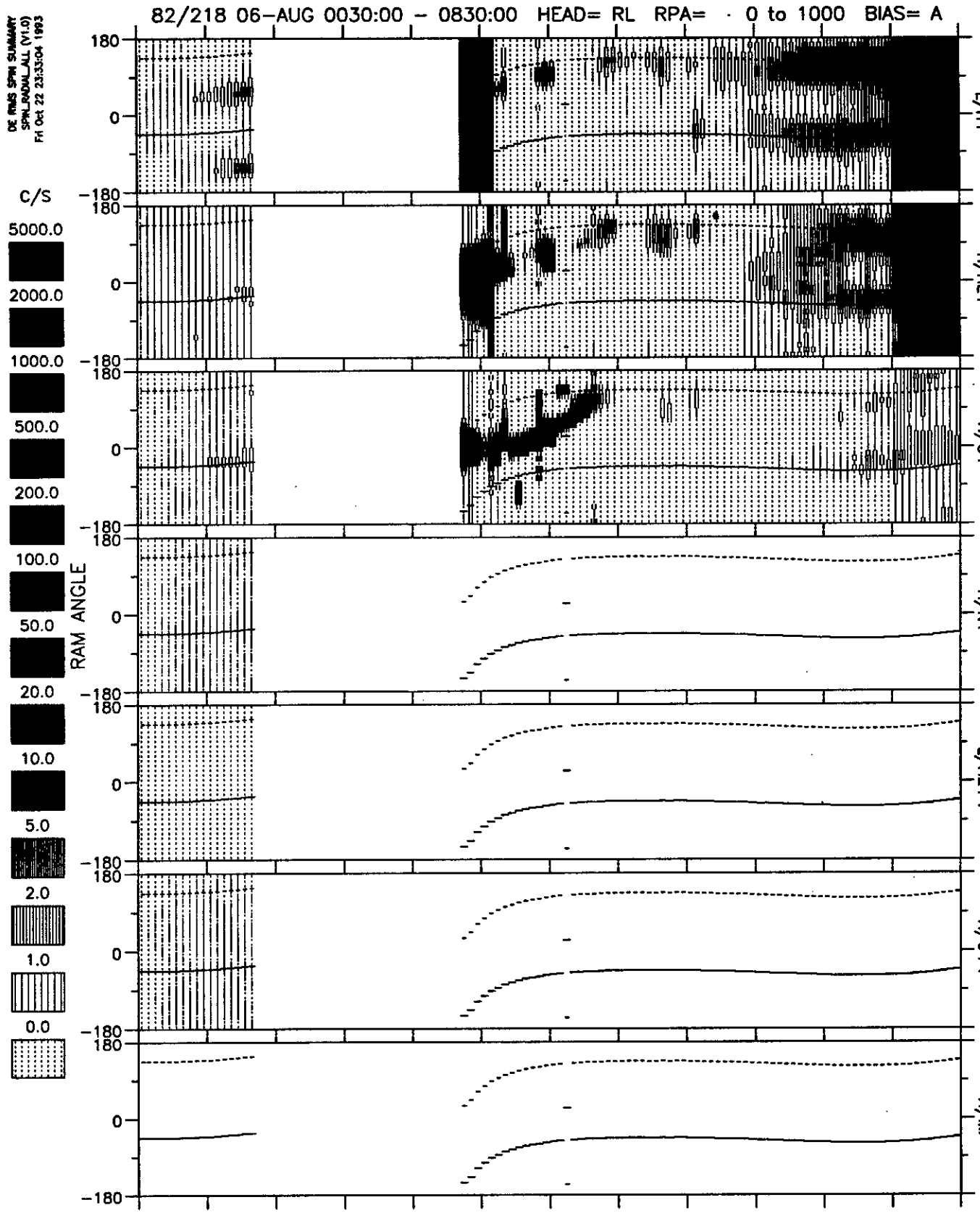
TIME	0000	0520	0600	0000	0000	0800	0840	0000	0000	1040	1120	HHMM
RE	0.0	3.7	2.8	0.0	0.0	2.9	3.8	0.0	0.0	4.6	4.4	RE
L	0.0	3.6	3.2	0.0	0.0	100.0	15.3	0.0	0.0	5.4	4.6	
MLT	0.0	13.7	13.6	0.0	0.0	11.5	12.8	0.0	0.0	13.2	13.4	HRS
MLAT	0.00	1.08	22.17	0.00	0.00	•••••	•••••	0.00	0.00	•••••	-8.19	DEGS
INVLAT	0.0	58.4	56.3	0.0	0.0	84.6	75.2	0.0	0.0	64.5	62.1	DEGS



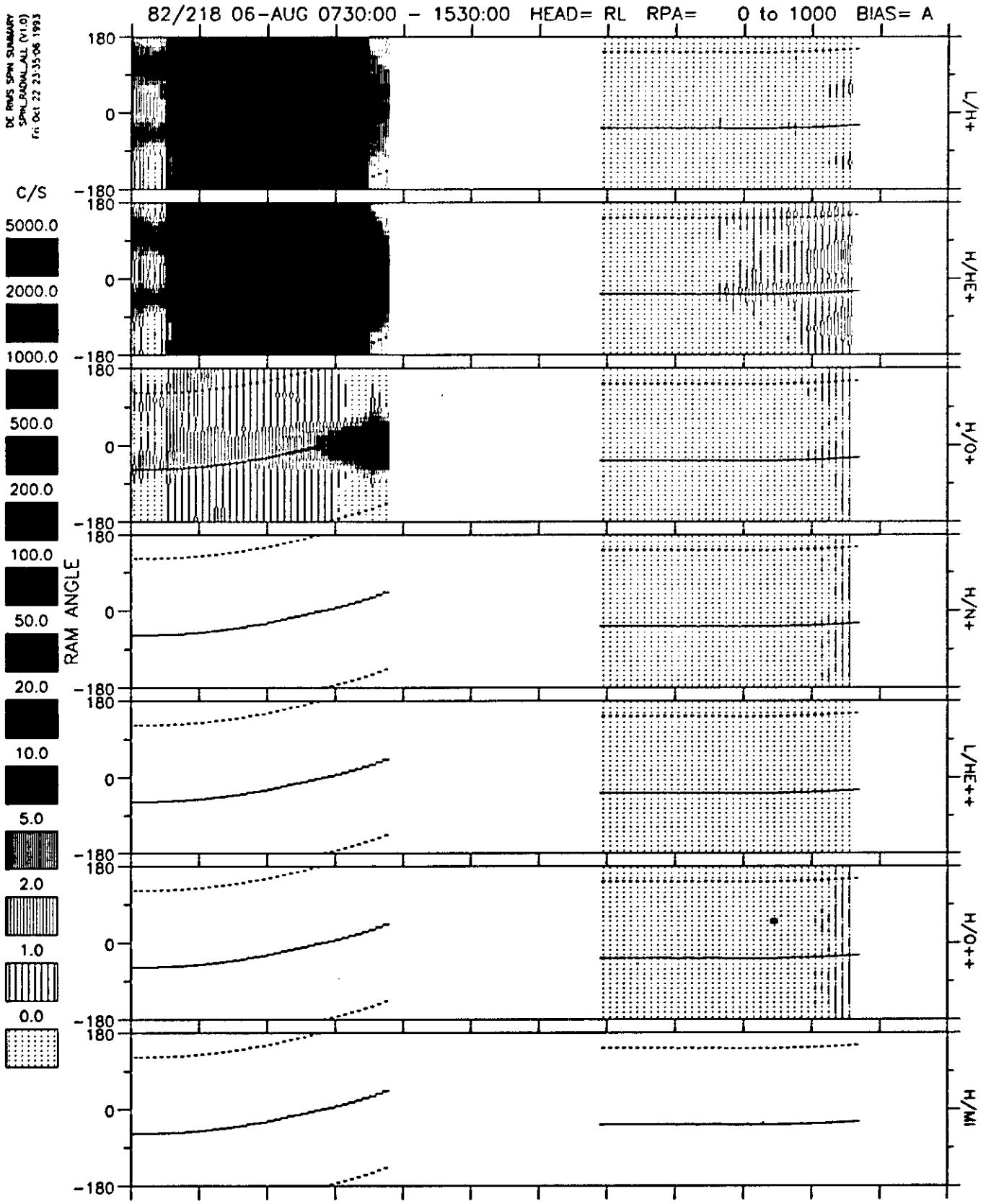
TIME	1140	1220	1300	0000	0000	0000	0000	1620	1700	1740	1820	HHMM
RE	4.2	3.5	2.5	0.0	0.0	0.0	0.0	4.4	4.7	4.6	4.3	RE
L	4.2	3.8	4.2	0.0	0.0	0.0	0.0	5.5	5.0	4.7	4.5	
MLT	13.5	13.7	14.2	0.0	0.0	0.0	0.0	13.5	13.6	13.8	13.8	HRS
MLAT	-1.24	15.47	41.85	0.00	0.00	0.00	0.00	*****	*****	-2.46	8.93	DEGS
INVLAT	60.9	59.0	60.8	0.0	0.0	0.0	0.0	64.8	63.4	62.5	61.8	DEGS



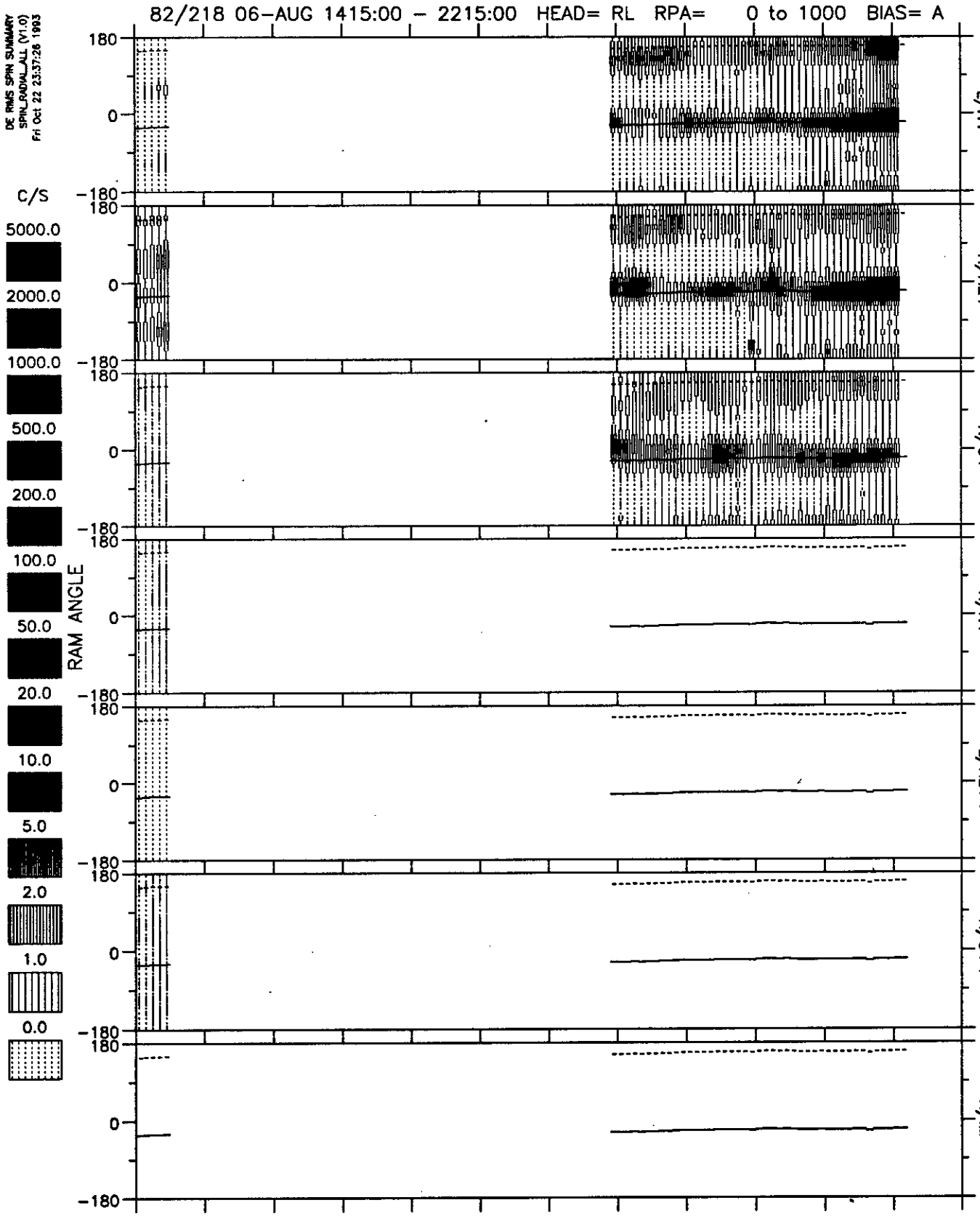
TIME	1855	1935	2015	2055	0000	0000	0000	2335	0015	0055	0135	HHMM
RE	3.8	3.0	1.7	1.4	0.0	0.0	0.0	4.6	4.7	4.5	4.0	RE
L	4.4	5.1	83.3	3.6	0.0	0.0	0.0	5.7	5.1	4.5	4.0	
MLT	13.8	13.7	11.3	1.4	0.0	0.0	0.0	14.3	14.1	13.9	13.8	HRS
MLAT	20.68	39.79	81.58	*****	0.00	0.00	0.00	*****	*****	-8.64	0.79	DEGS
INVLAT	61.7	63.6	83.7	58.3	0.0	0.0	0.0	65.2	63.8	62.0	60.0	DEGS



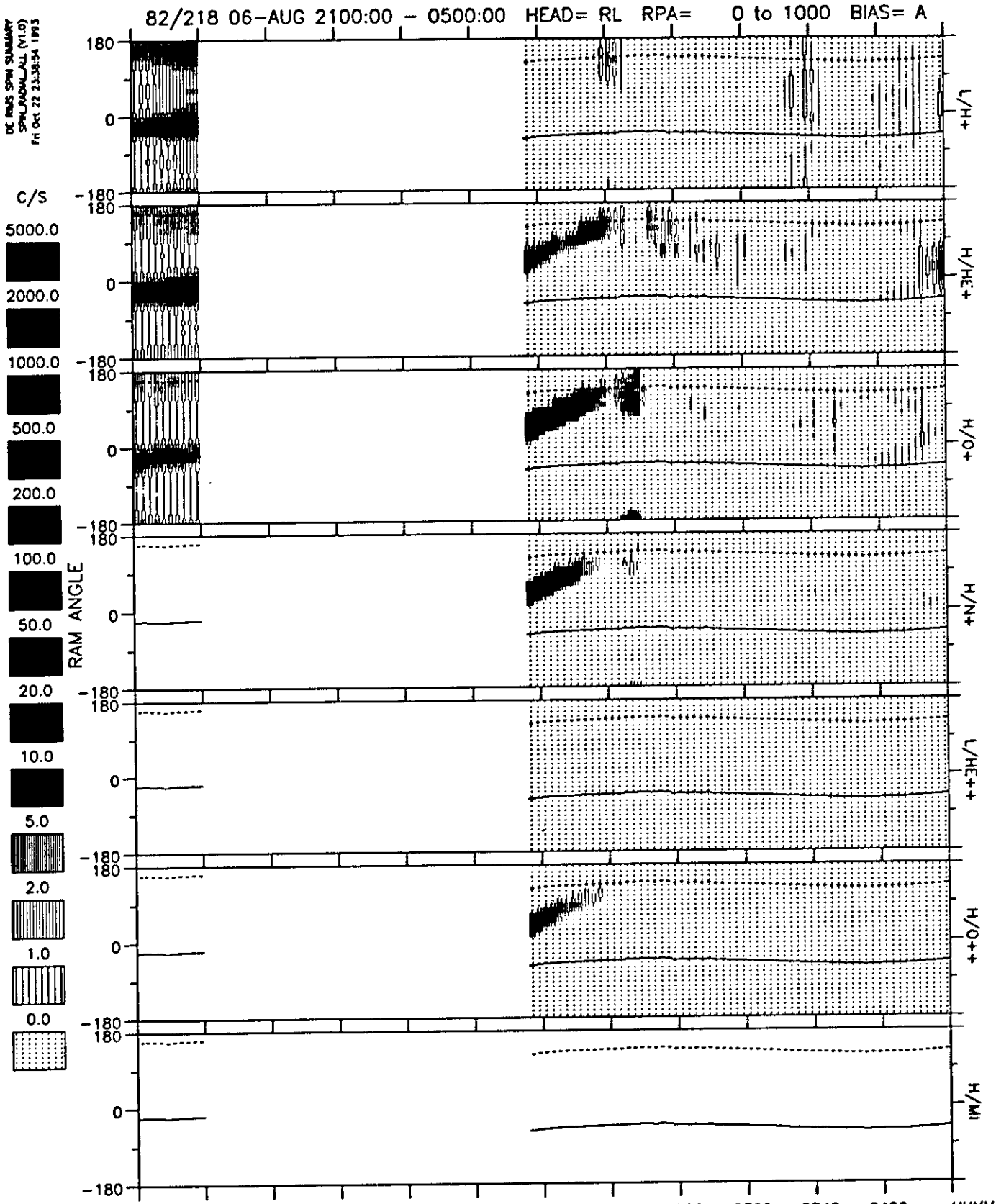
TIME	0110	0000	0000	0000	0350	0430	0510	0550	0630	0710	0750	HHMM
RE	4.3	0.0	0.0	0.0	1.5	2.8	3.7	4.3	4.6	4.7	4.4	RE
L	4.3	0.0	0.0	0.0	3.0	100.0	18.9	10.4	7.5	5.9	4.7	
MLT	13.9	0.0	0.0	0.0	1.2	16.3	14.1	13.7	13.6	13.5	13.5	HRS
MLAT	-5.07	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	61.3	0.0	0.0	0.0	55.0	85.9	76.7	71.9	68.5	65.6	62.7	DEGS

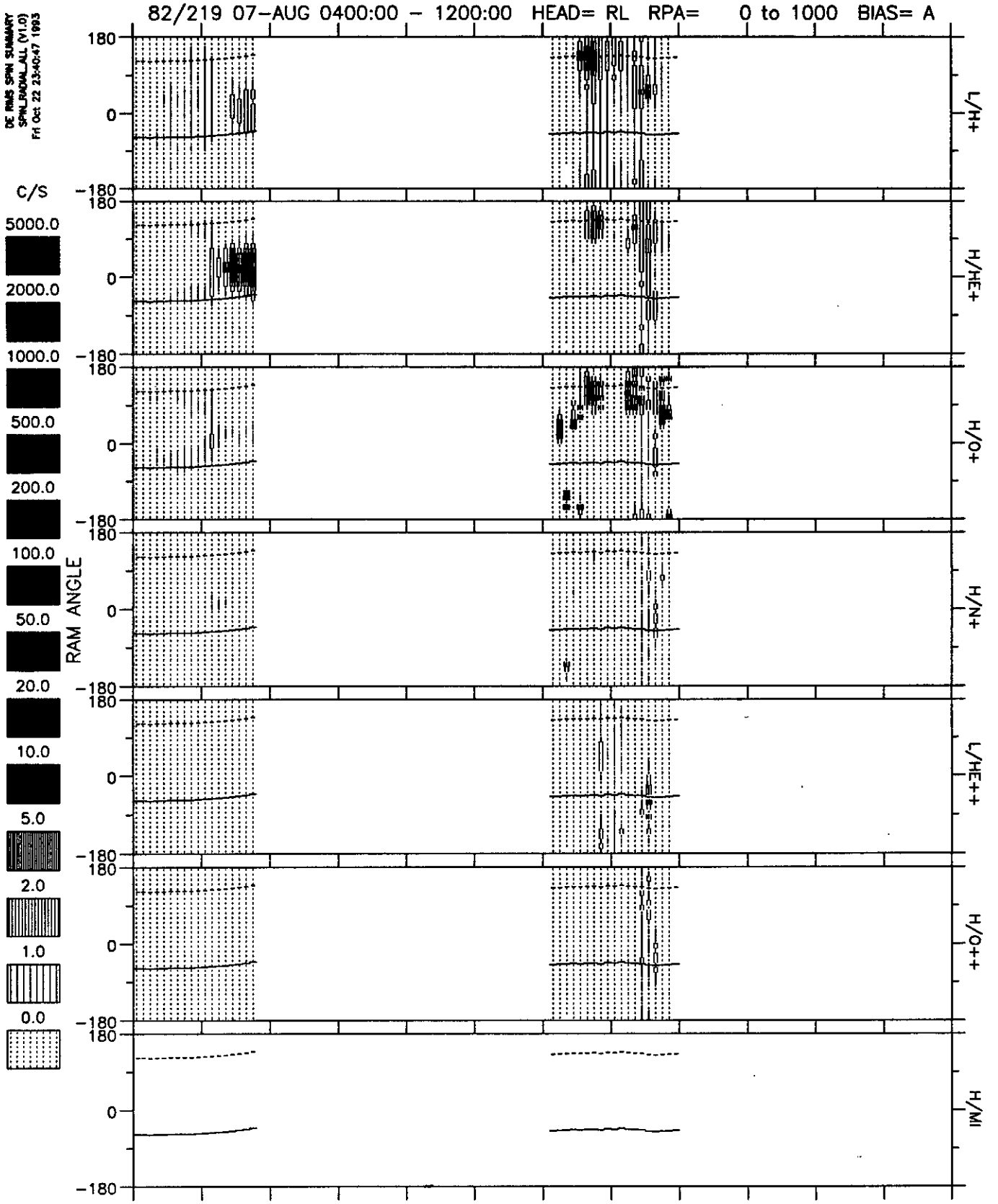


TIME	0810	0850	0930	0000	0000	0000	1210	1250	1330	1410	0000	HHMM
RE	4.2	3.6	2.6	0.0	0.0	0.0	3.9	4.4	4.6	4.6	0.0	RE
L	4.3	3.6	3.5	0.0	0.0	0.0	9.1	6.6	5.5	4.9	0.0	
MLT	13.5	13.6	13.9	0.0	0.0	0.0	12.5	12.9	13.1	13.3	0.0	HRS
MLAT	*****	5.60	30.76	0.00	0.00	0.00	*****	*****	*****	-9.05	0.00	DEGS
INVLAT	61.1	58.1	57.8	0.0	0.0	0.0	70.6	67.1	64.8	63.1	0.0	DEGS

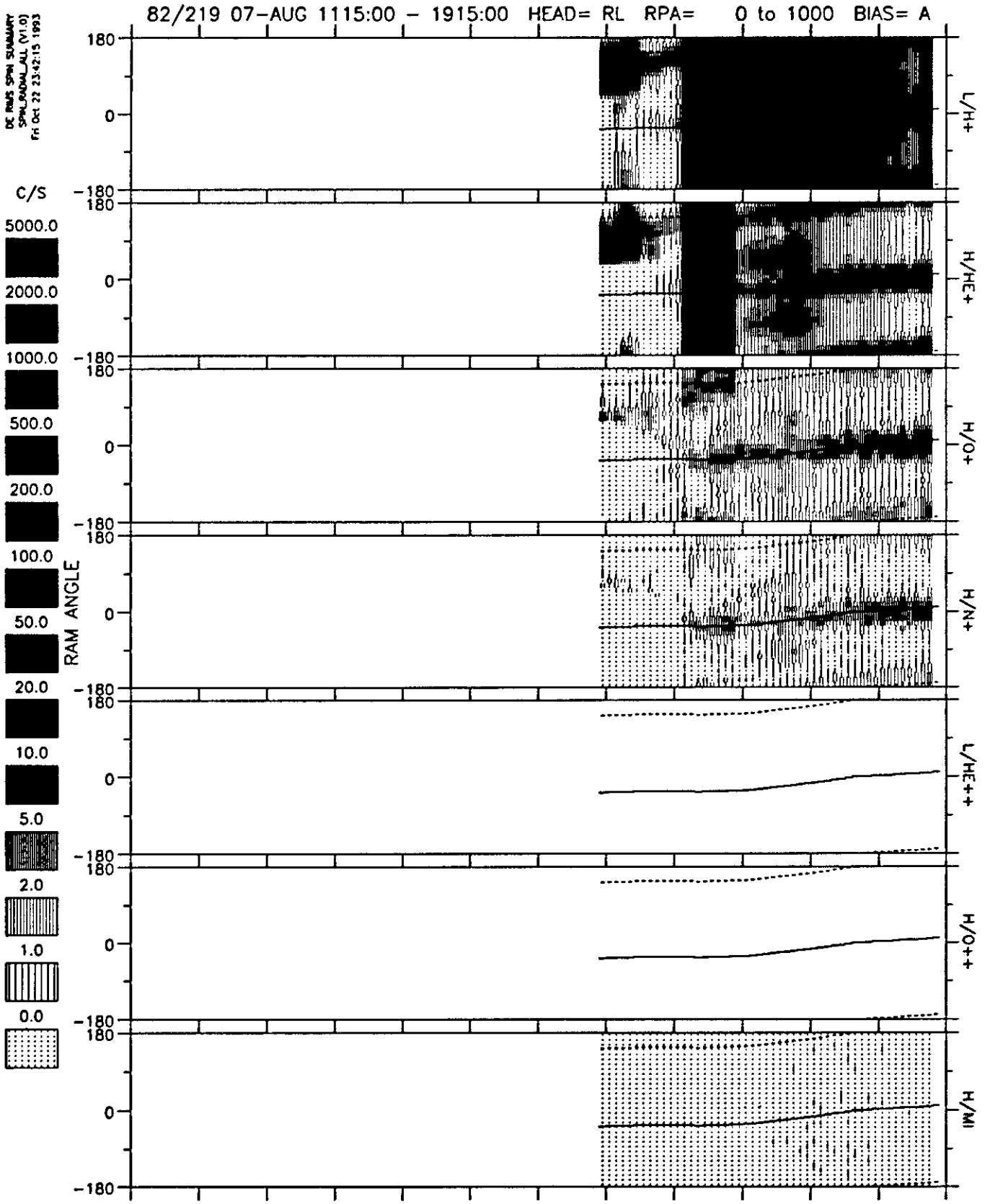


TIME	0000	0000	0000	0000	0000	0000	1855	1935	2015	2055	2135	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	3.8	4.4	4.6	4.6	4.4	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	6.4	5.5	5.0	4.7	4.4	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	13.9	14.0	14.0	14.0	13.9	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-7.10	2.36	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	66.7	64.7	63.6	62.6	61.6	DEGS

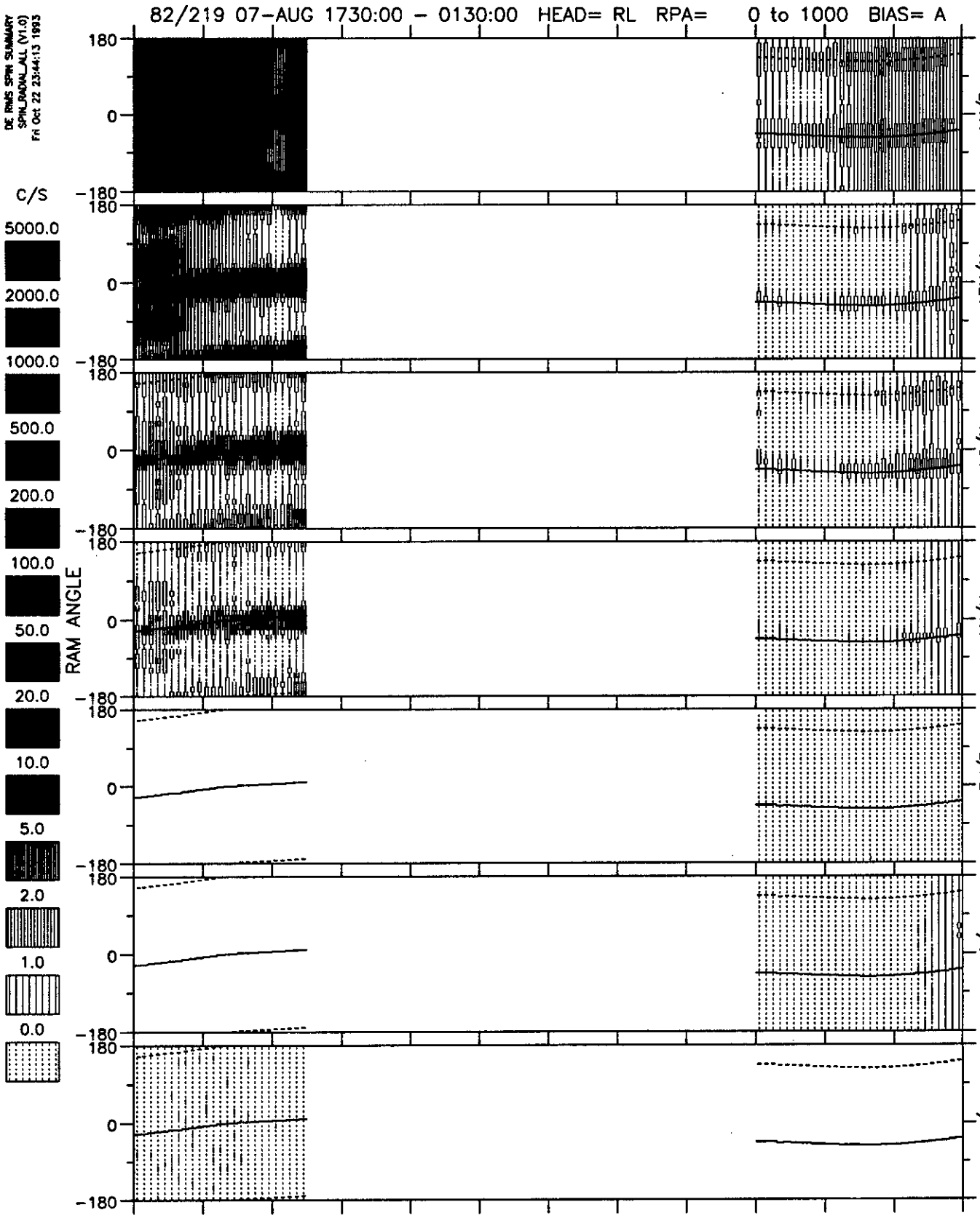

82/218 06-AUG 2100:00 - 0500:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RIMS SPIN SUMMARY
SPN_RADIAL_ALL (V1.0)
Fri Oct 22 23:38:54 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M+
TIME 0000 0000 0000 0000 0000 0100 0140 0220 0300 0340 0420 HHMM
RE 0.0 0.0 0.0 0.0 0.0 2.8 3.7 4.3 4.6 4.7 4.4 RE
L 0.0 0.0 0.0 0.0 0.0 34.0 12.4 8.6 6.9 5.8 4.8
MLT 0.0 0.0 0.0 0.0 0.0 16.5 14.8 14.3 14.0 13.8 13.7 HRS
MLAT 0.00 0.00 0.00 0.00 0.00 ***** ***** ***** ***** ***** ***** DEGS
INVLAT 0.0 0.0 0.0 0.0 0.0 80.1 73.5 70.1 67.7 65.4 62.8 DEGS



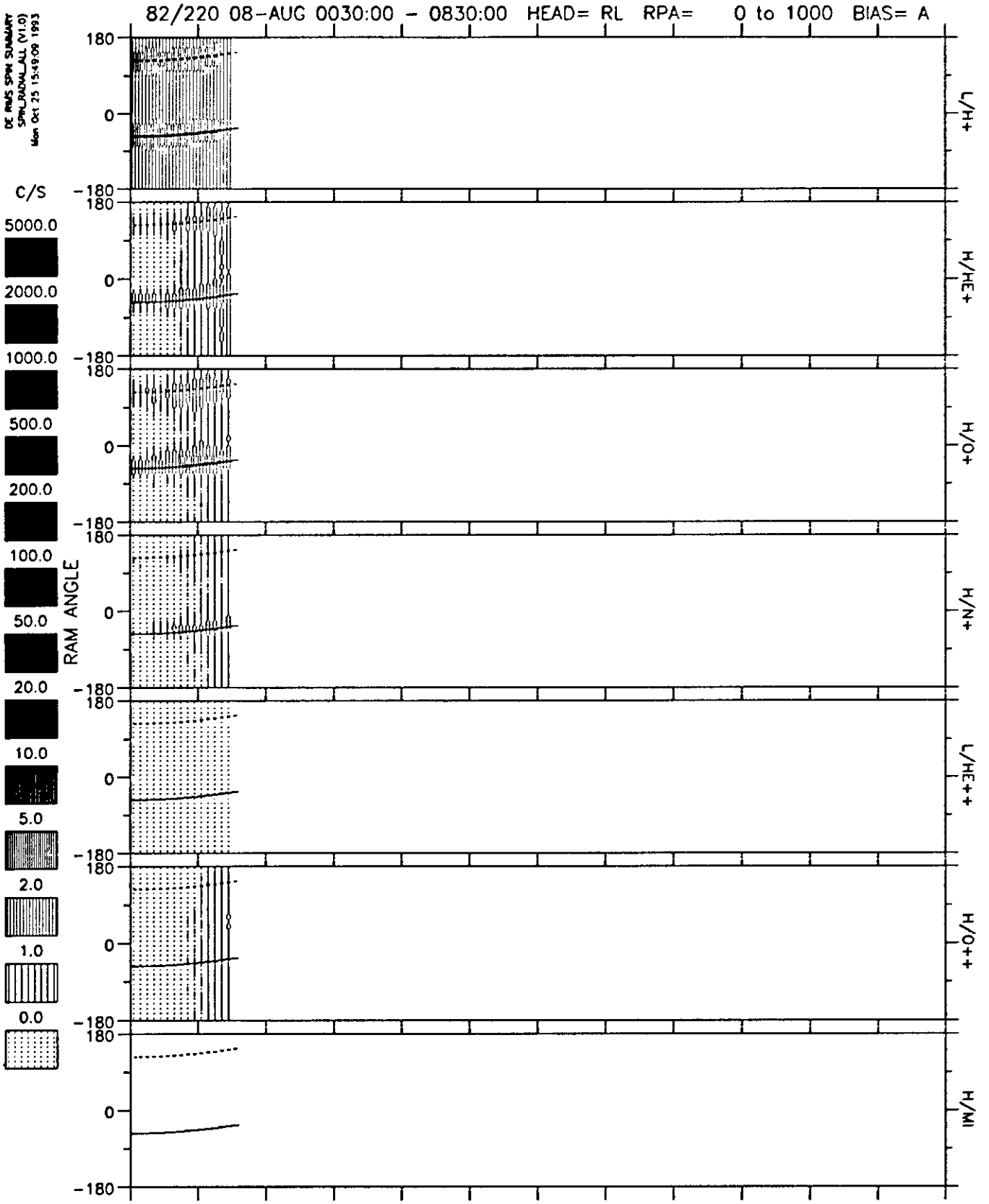
TIME	0440	0000	0000	0000	0000	0000	0840	0000	0000	0000	0000	HHMM
RE	4.2	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	RE
L	4.3	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	0.0	
MLT	13.6	0.0	0.0	0.0	0.0	0.0	12.7	0.0	0.0	0.0	0.0	HRS
MLAT	*****	0.00	0.00	0.00	0.00	0.00	*****	0.00	0.00	0.00	0.00	DEGS
INVLAT	61.3	0.0	0.0	0.0	0.0	0.0	74.7	0.0	0.0	0.0	0.0	DEGS



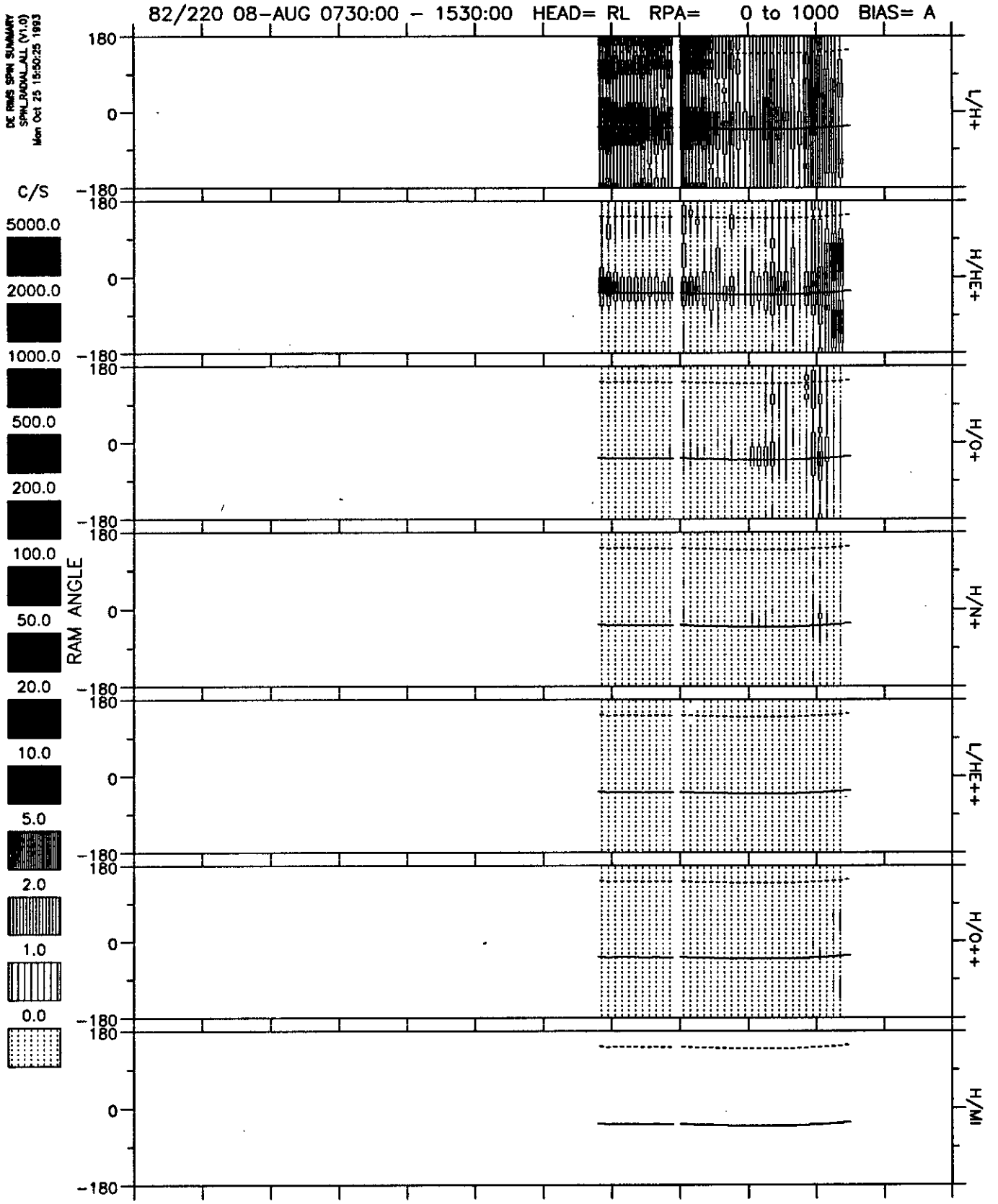
TIME	0000	0000	0000	0000	0000	0000	1555	1635	1715	1755	1835	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.6	4.7	4.5	4.1	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.2	4.8	4.6	4.4	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	13.2	13.4	13.6	13.7	13.7	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	•••••	•••••	-8.47	2.51	14.72	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	65.9	64.1	63.0	62.1	61.6	DEGS



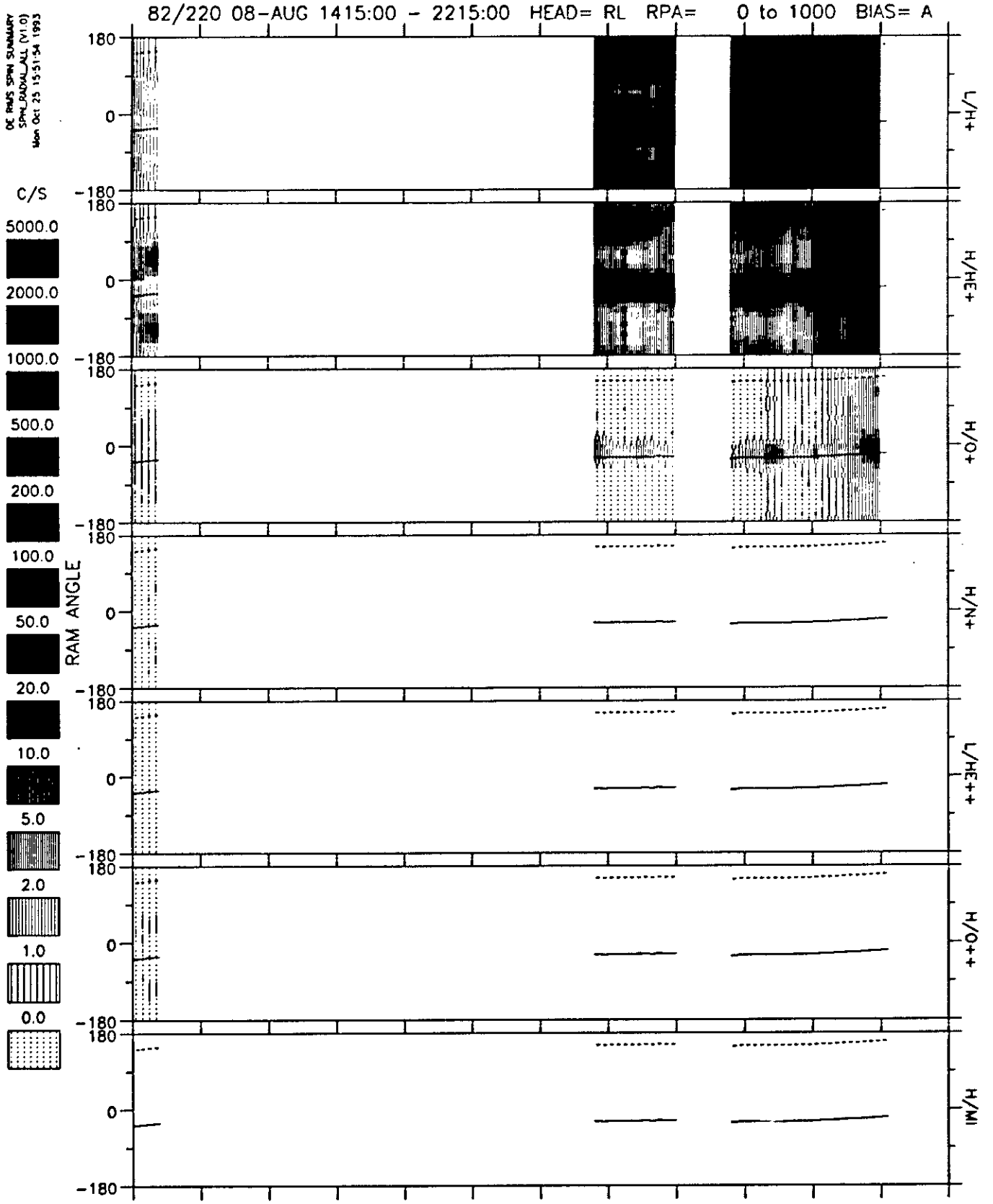
TIME	1810	1850	0000	0000	0000	0000	0000	0000	2330	0010	0050	HHMM
RE	4.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.7	4.5	RE
L	4.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.2	4.6	
MLT	13.7	13.7	0.0	0.0	0.0	0.0	0.0	0.0	14.2	14.0	13.8	HRS
MLAT	6.87	20.09	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-9.37	DEGS
INVLAT	61.9	61.5	0.0	0.0	0.0	0.0	0.0	0.0	65.3	63.9	62.1	DEGS



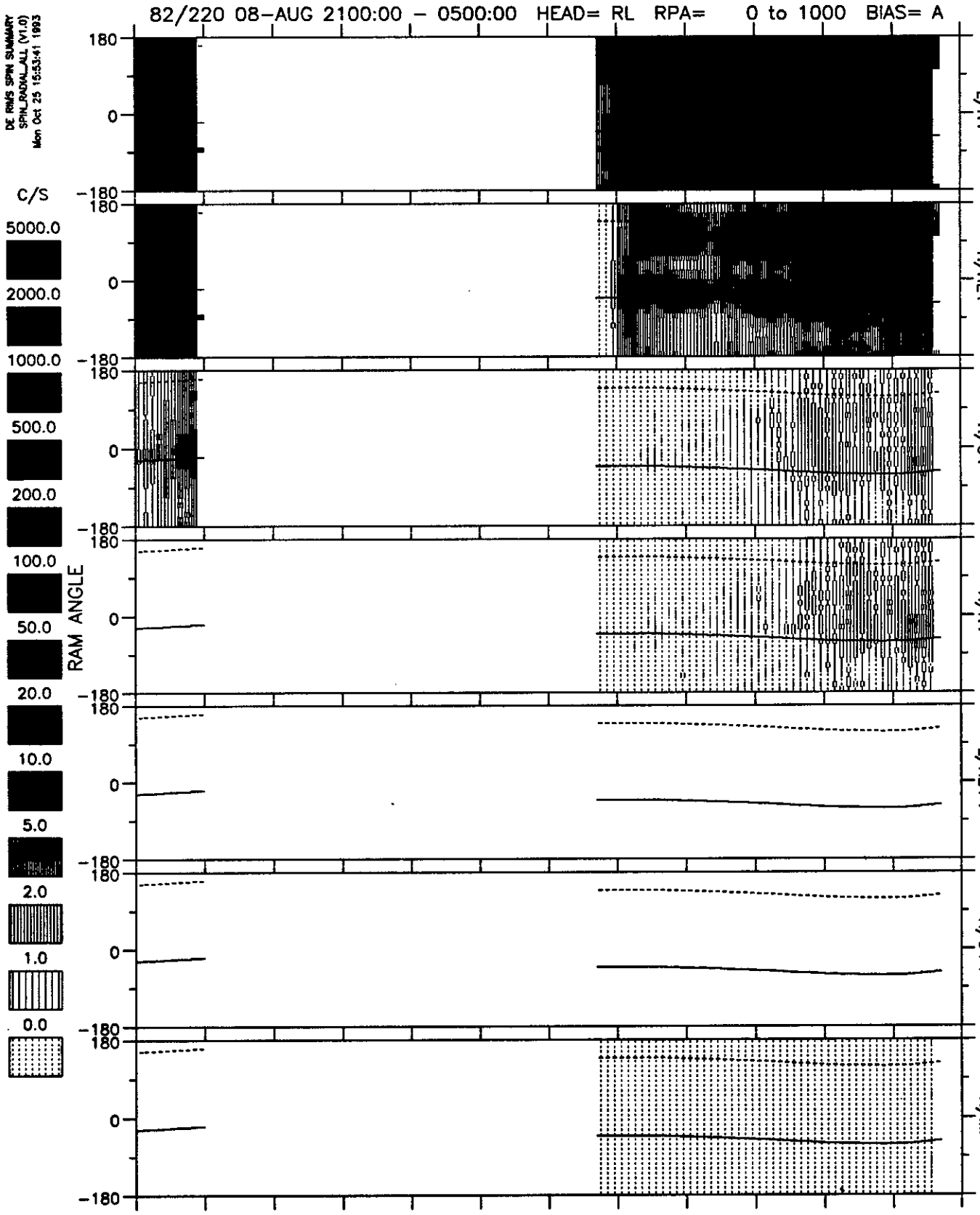
TIME	0110	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	-4.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	61.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



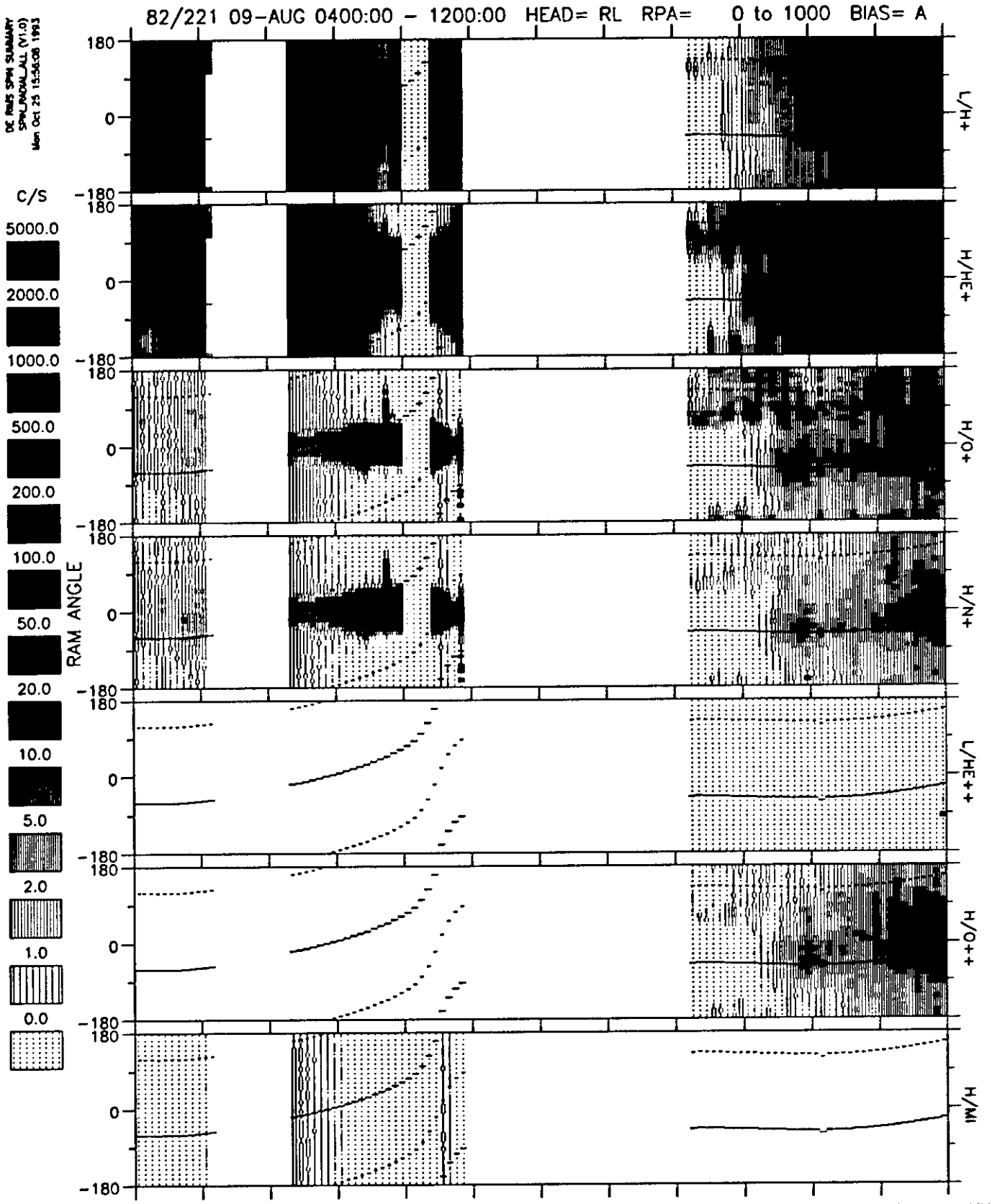
TIME	0000	0000	0000	0000	0000	0000	1210	1250	1330	1410	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.5	4.7	4.6	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	8.7	6.5	5.5	4.8	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	12.5	12.8	13.0	13.2	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-7.96	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	70.2	66.9	64.7	62.9	0.0	DEGS



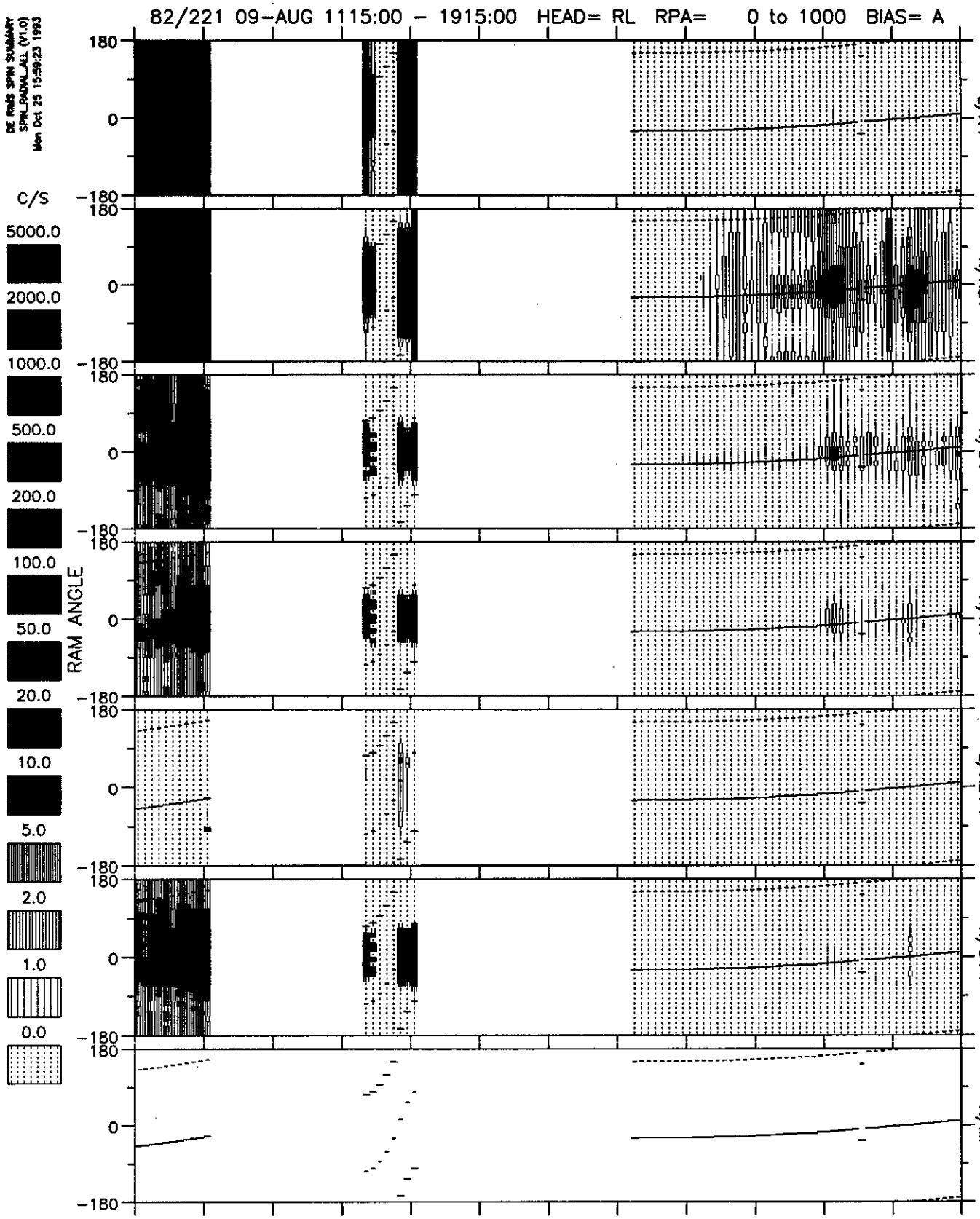
TIME	0000	0000	0000	0000	0000	0000	1855	0000	2015	2055	2135	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	4.6	4.6	4.4	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	5.0	4.7	4.4	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	13.9	13.8	13.8	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	0.00	*****	-6.65	2.17	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	66.5	0.0	63.5	62.5	61.5	DEGS



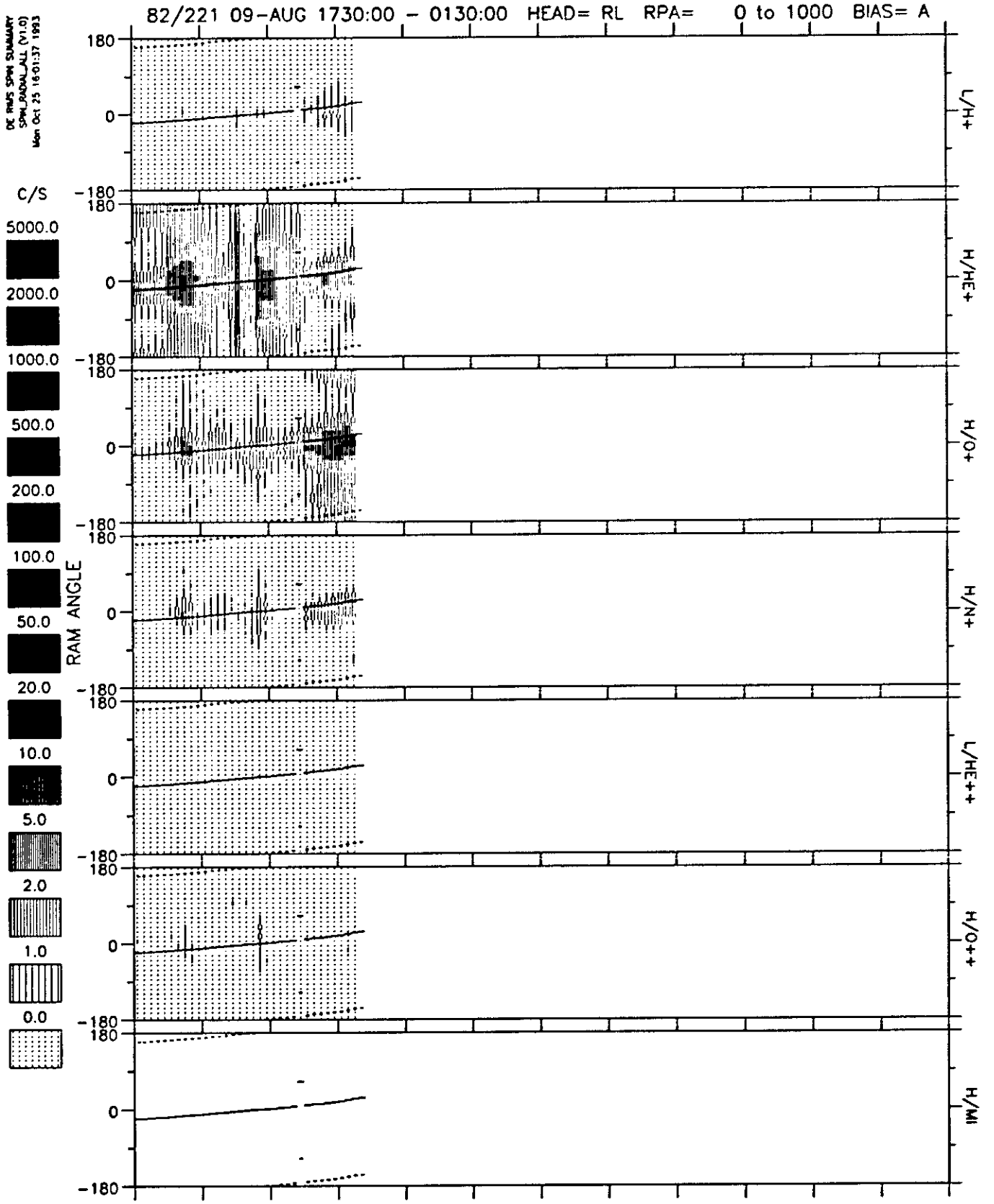
TIME	0000	0000	0000	0000	0000	0000	0140	0220	0300	0340	0420	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	3.8	4.4	4.6	4.6	4.4	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	12.1	8.6	6.9	5.7	4.7	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	14.6	14.2	13.9	13.7	13.6	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	73.3	70.0	67.6	65.2	62.5	DEGS



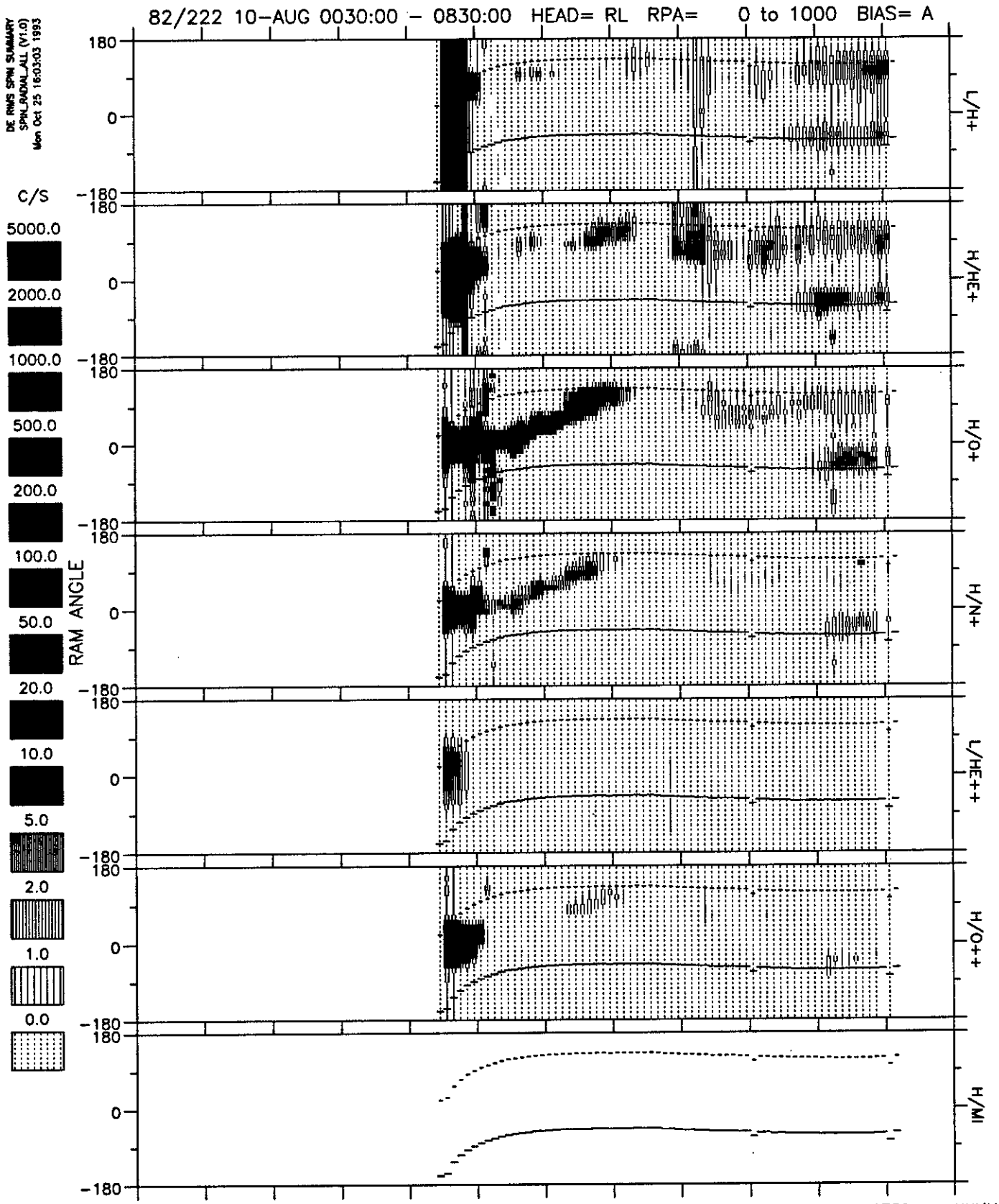
TIME	0440	0000	0600	0640	0000	0000	0000	0000	1000	1040	1120	HHMM
RE	4.2	0.0	2.5	1.2	0.0	0.0	0.0	0.0	4.7	4.6	4.3	RE
L	4.2	0.0	3.3	9.4	0.0	0.0	0.0	0.0	6.4	5.2	4.4	
MLT	13.5	0.0	13.4	1.1	0.0	0.0	0.0	0.0	12.9	13.0	13.2	HRS
MLAT	•••••	0.00	29.41	69.36	0.00	0.00	0.00	0.00	•••••	•••••	-5.66	DEGS
INVLAT	60.9	0.0	56.7	70.8	0.0	0.0	0.0	0.0	66.7	64.0	61.5	DEGS



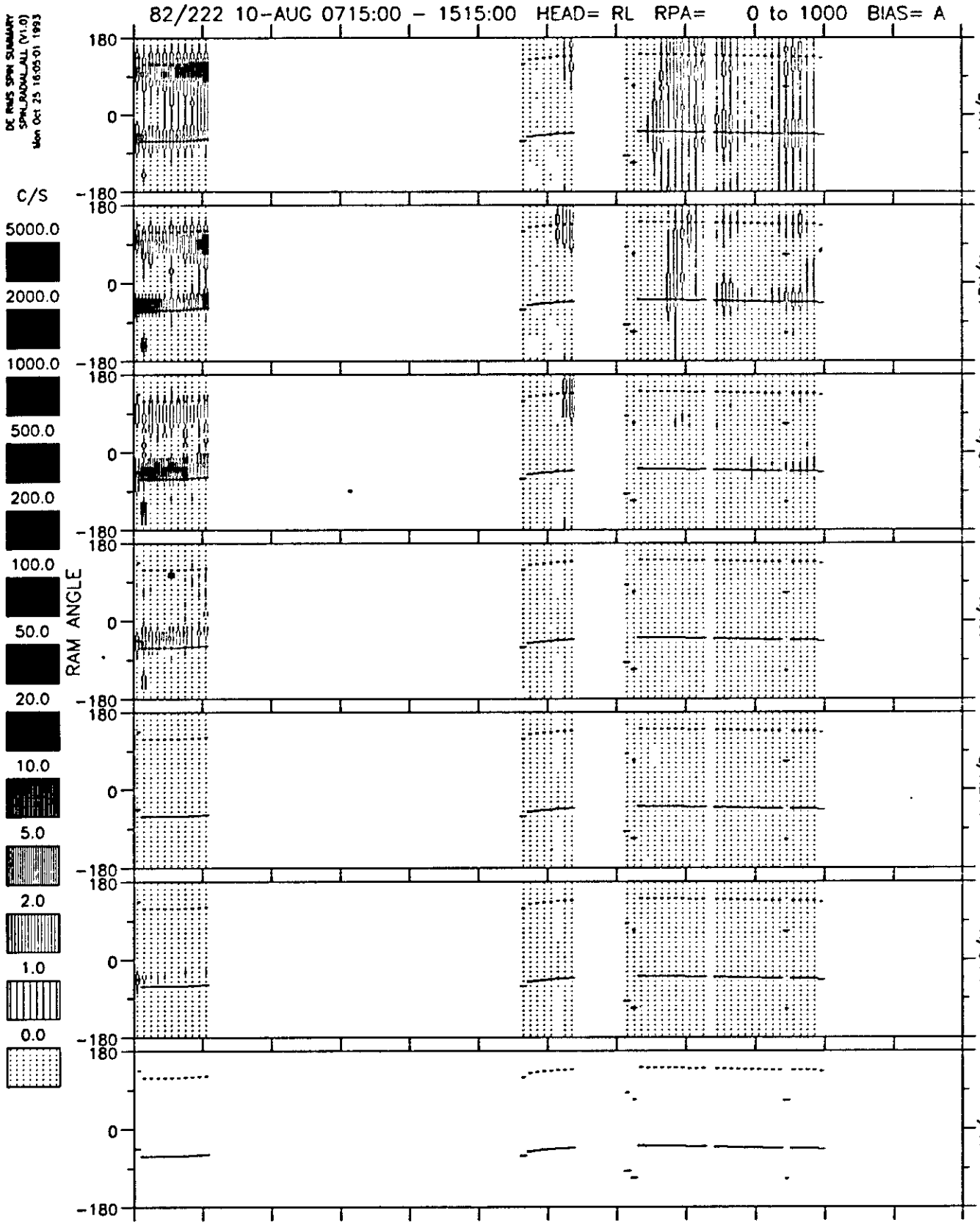
TIME	1155	0000	0000	1355	0000	0000	0000	1635	1715	1755	1835	HHMM
RE	3.8	0.0	0.0	1.4	0.0	0.0	0.0	4.6	4.7	4.5	4.0	RE
L	3.9	0.0	0.0	3.5	0.0	0.0	0.0	5.2	4.8	4.5	4.4	
MLT	13.3	0.0	0.0	2.0	0.0	0.0	0.0	13.3	13.5	13.5	13.6	HRS
MLAT	7.67	0.00	0.00	*****	0.00	0.00	0.00	*****	-7.65	3.38	15.88	DEGS
INVLAT	59.5	0.0	0.0	57.4	0.0	0.0	0.0	64.0	62.9	62.0	61.4	DEGS



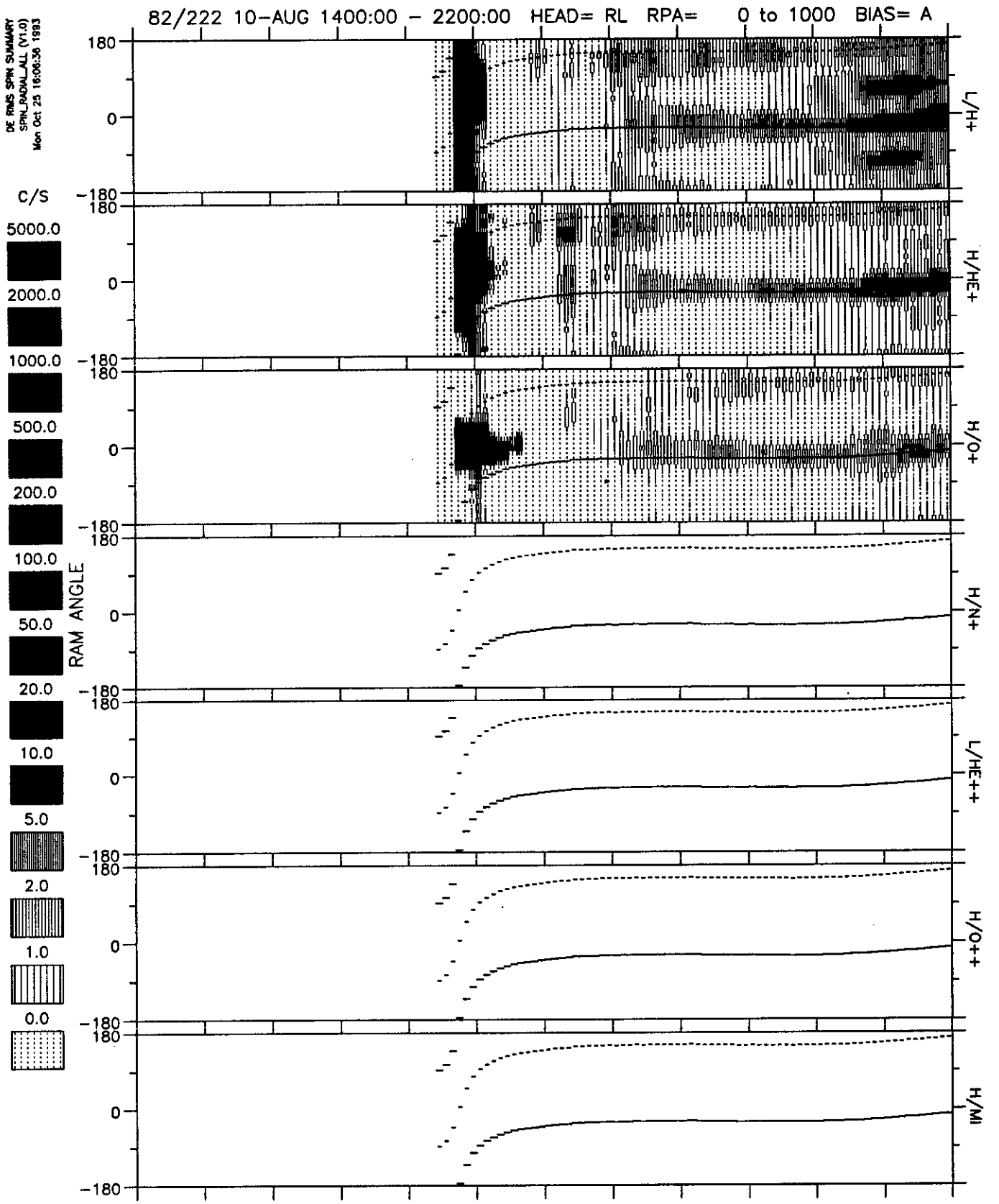
TIME	1810	1850	1930	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	4.3	3.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	4.5	4.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	13.6	13.6	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	7.77	21.43	42.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	61.7	61.4	63.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



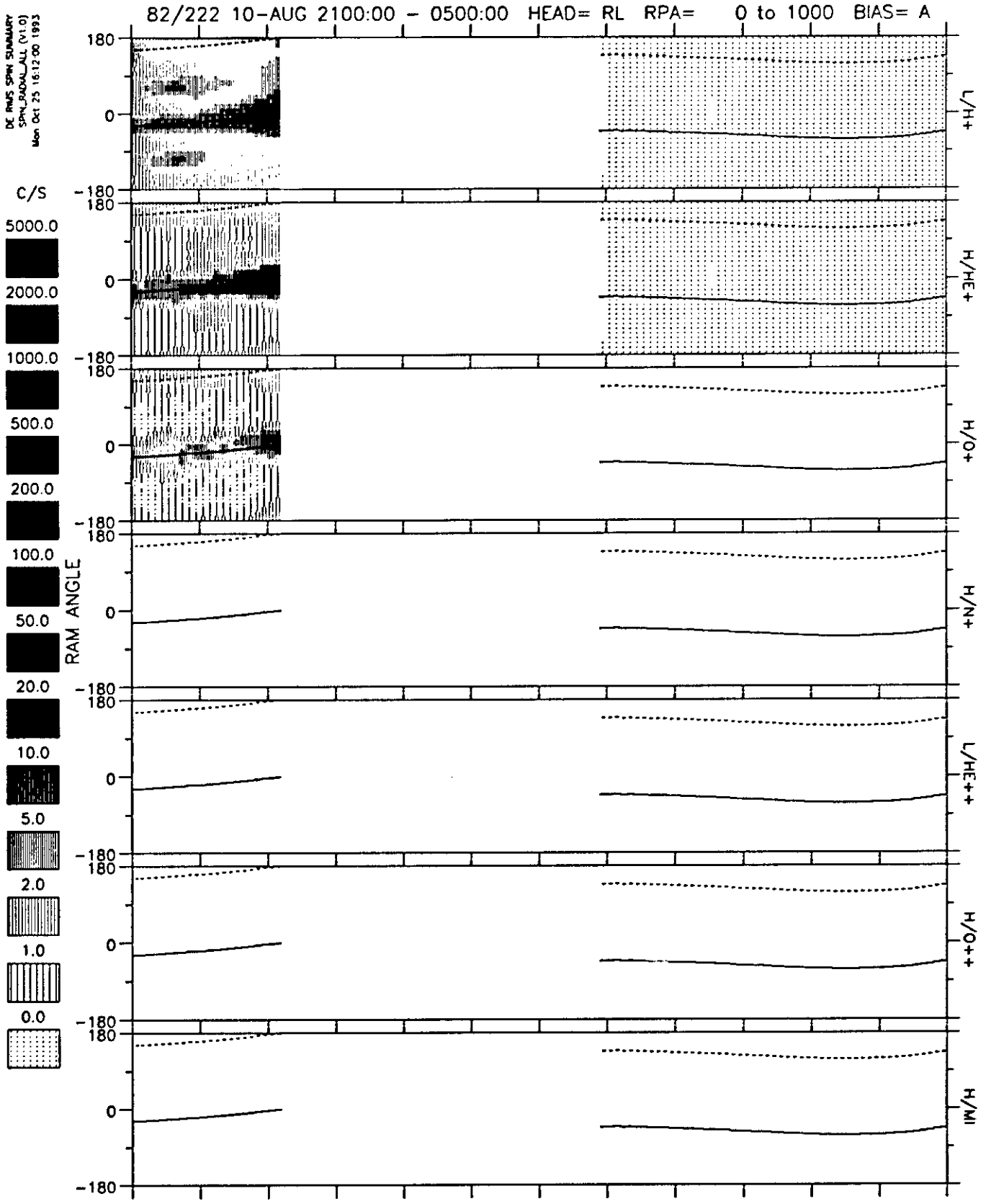
TIME	0000	0000	0000	0000	0350	0430	0510	0550	0630	0710	0750	HHMM
RE	0.0	0.0	0.0	0.0	1.9	3.1	3.9	4.4	4.6	4.6	4.3	RE
L	0.0	0.0	0.0	0.0	8.6	83.7	16.8	9.9	7.2	5.7	4.5	
MLT	0.0	0.0	0.0	0.0	0.6	14.8	13.7	13.4	13.3	13.2	13.2	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	70.0	83.7	75.9	71.4	68.1	65.1	62.0	DEGS



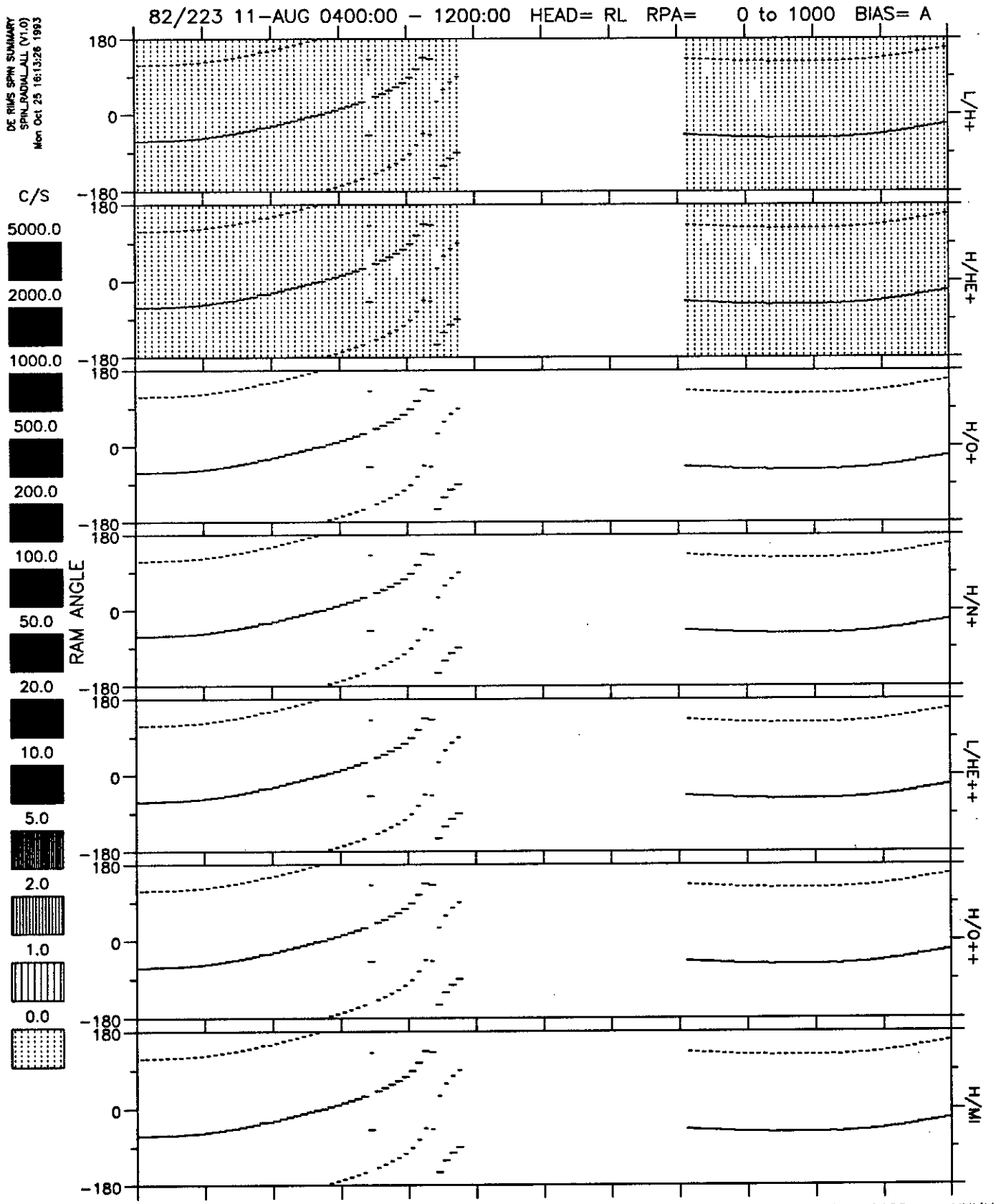
TIME	0755	0000	0000	0000	0000	1115	0000	1235	1315	0000	0000	HHMM
RE	4.3	0.0	0.0	0.0	0.0	2.9	0.0	4.4	4.6	0.0	0.0	RE
L	4.5	0.0	0.0	0.0	0.0	26.2	0.0	7.0	5.7	0.0	0.0	
MLT	13.2	0.0	0.0	0.0	0.0	10.8	0.0	12.6	12.8	0.0	0.0	HRS
MLAT	•••••	0.00	0.00	0.00	0.00	•••••	0.00	•••••	•••••	0.00	0.00	DEGS
INVLAT	61.8	0.0	0.0	0.0	0.0	78.7	0.0	67.8	65.3	0.0	0.0	DEGS



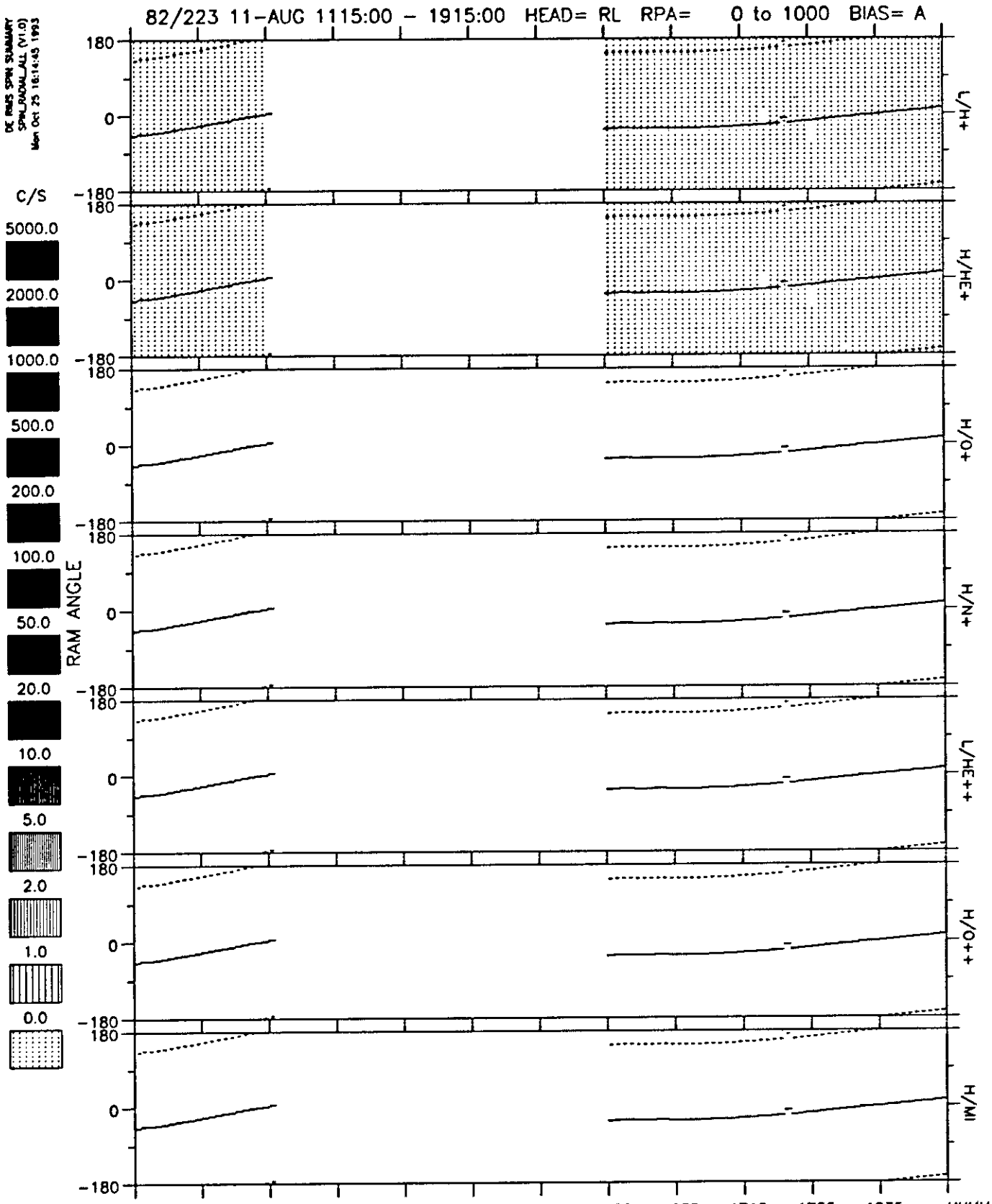
TIME	0000	0000	0000	0000	1720	1800	1840	1920	2000	2040	2120	HHMM
RE	0.0	0.0	0.0	0.0	1.5	2.8	3.7	4.3	4.6	4.7	4.4	RE
L	0.0	0.0	0.0	0.0	7.6	13.7	6.8	5.7	5.2	4.8	4.4	
MLT	0.0	0.0	0.0	0.0	1.7	13.5	13.7	13.7	13.8	13.7	13.6	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	-9.62	-0.25	DEGS
INVLAT	0.0	0.0	0.0	0.0	68.7	74.3	67.5	65.2	63.9	62.8	61.7	DEGS



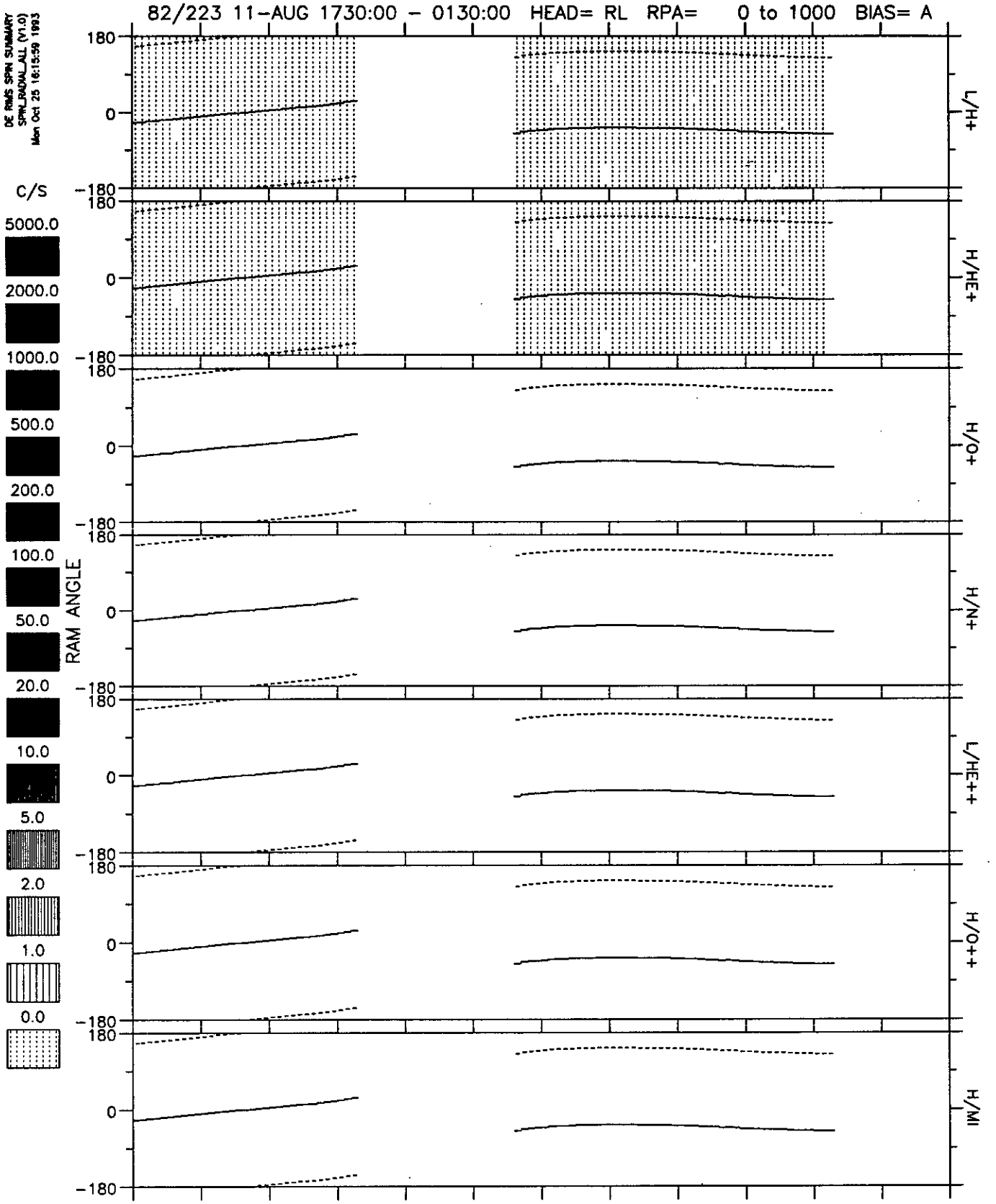
TIME	2140	2220	0000	0000	0000	0000	0140	0220	0300	0340	0420	HHMM
RE	4.2	3.6	0.0	0.0	0.0	0.0	3.9	4.4	4.6	4.6	4.3	RE
L	4.3	3.9	0.0	0.0	0.0	0.0	11.8	8.5	6.8	5.6	4.6	
MLT	13.6	13.4	0.0	0.0	0.0	0.0	14.4	14.0	13.8	13.6	13.4	HRS
MLAT	4.89	17.62	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	DEGS
INVLAT	61.0	59.6	0.0	0.0	0.0	0.0	73.1	70.0	67.5	65.1	62.2	DEGS



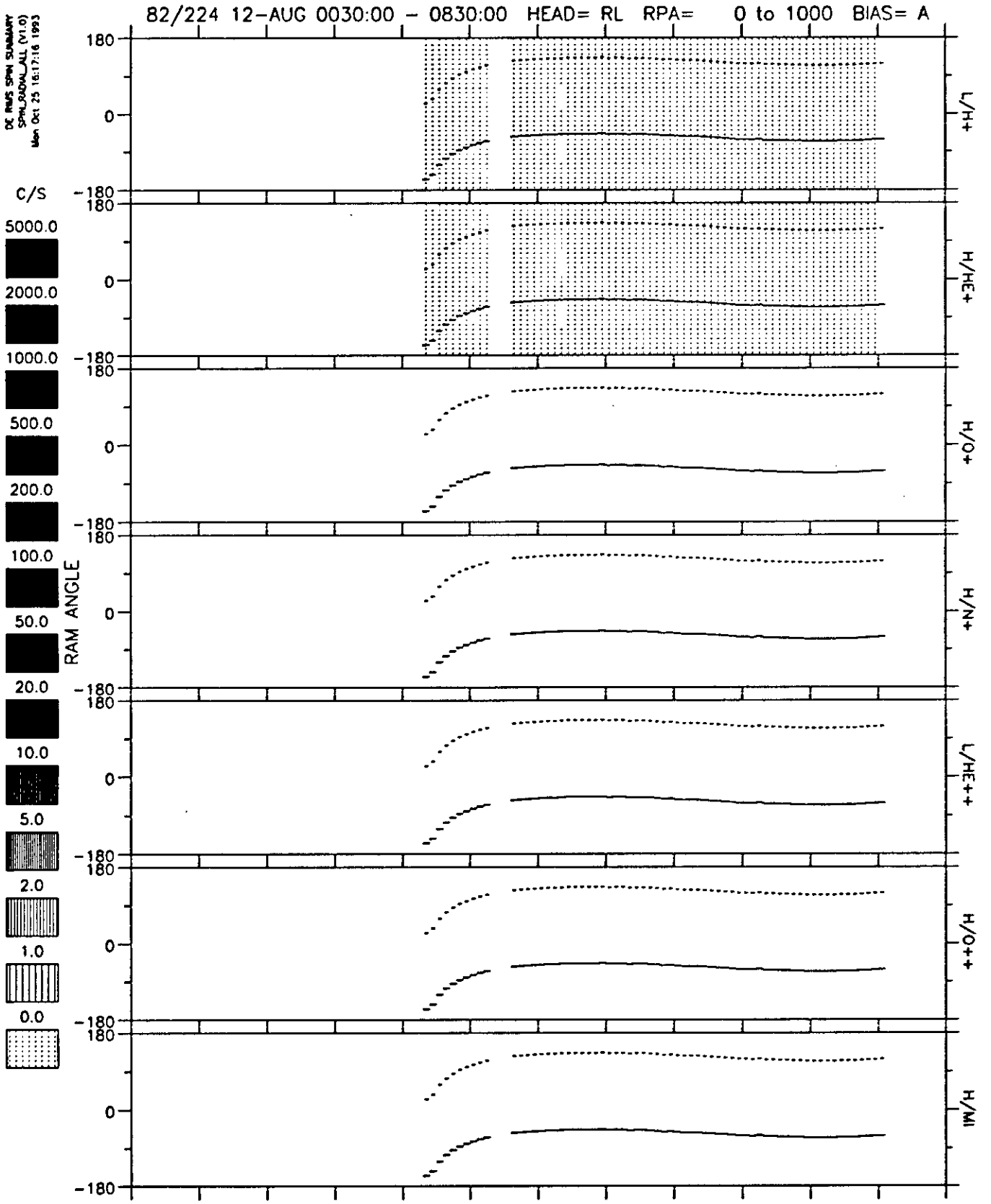
TIME	0440	0520	0600	0640	0000	0000	0000	0000	1000	1040	1120	HHMM
RE	4.1	3.4	2.3	1.1	0.0	0.0	0.0	0.0	4.7	4.6	4.2	RE
L	4.1	3.4	3.5	2.3	0.0	0.0	0.0	0.0	6.3	5.1	4.3	
MLT	13.4	13.3	13.3	1.1	0.0	0.0	0.0	0.0	12.8	12.9	13.1	HRS
MLAT	-9.53	5.91	34.09	45.89	0.00	0.00	0.00	0.00	*****	*****	-4.35	DEGS
INVLAT	60.6	57.0	57.5	49.3	0.0	0.0	0.0	0.0	66.4	63.8	61.2	DEGS



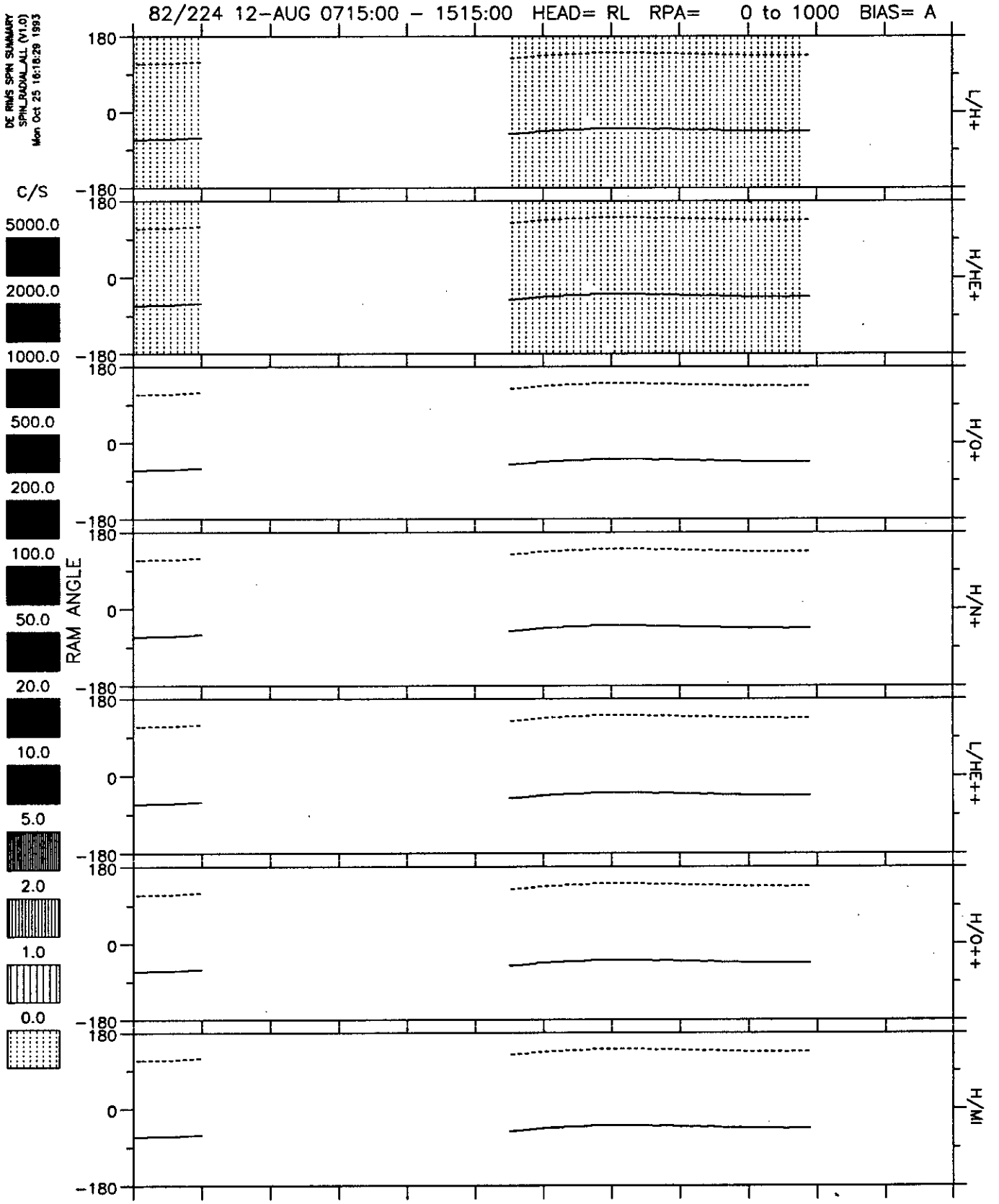
TIME	1155	1235	0000	0000	0000	0000	1555	1635	1715	1755	1835	HHMM
RE	3.7	2.9	0.0	0.0	0.0	0.0	4.3	4.6	4.6	4.4	3.9	RE
L	3.8	3.7	0.0	0.0	0.0	0.0	5.9	5.2	4.8	4.5	4.3	
MLT	13.2	13.5	0.0	0.0	0.0	0.0	13.0	13.2	13.3	13.4	13.4	HRS
MLAT	9.57	29.63	0.00	0.00	0.00	0.00	•••••	•••••	-6.89	4.22	17.05	DEGS
INVLAT	59.2	58.5	0.0	0.0	0.0	0.0	65.6	64.0	62.8	61.9	61.3	DEGS



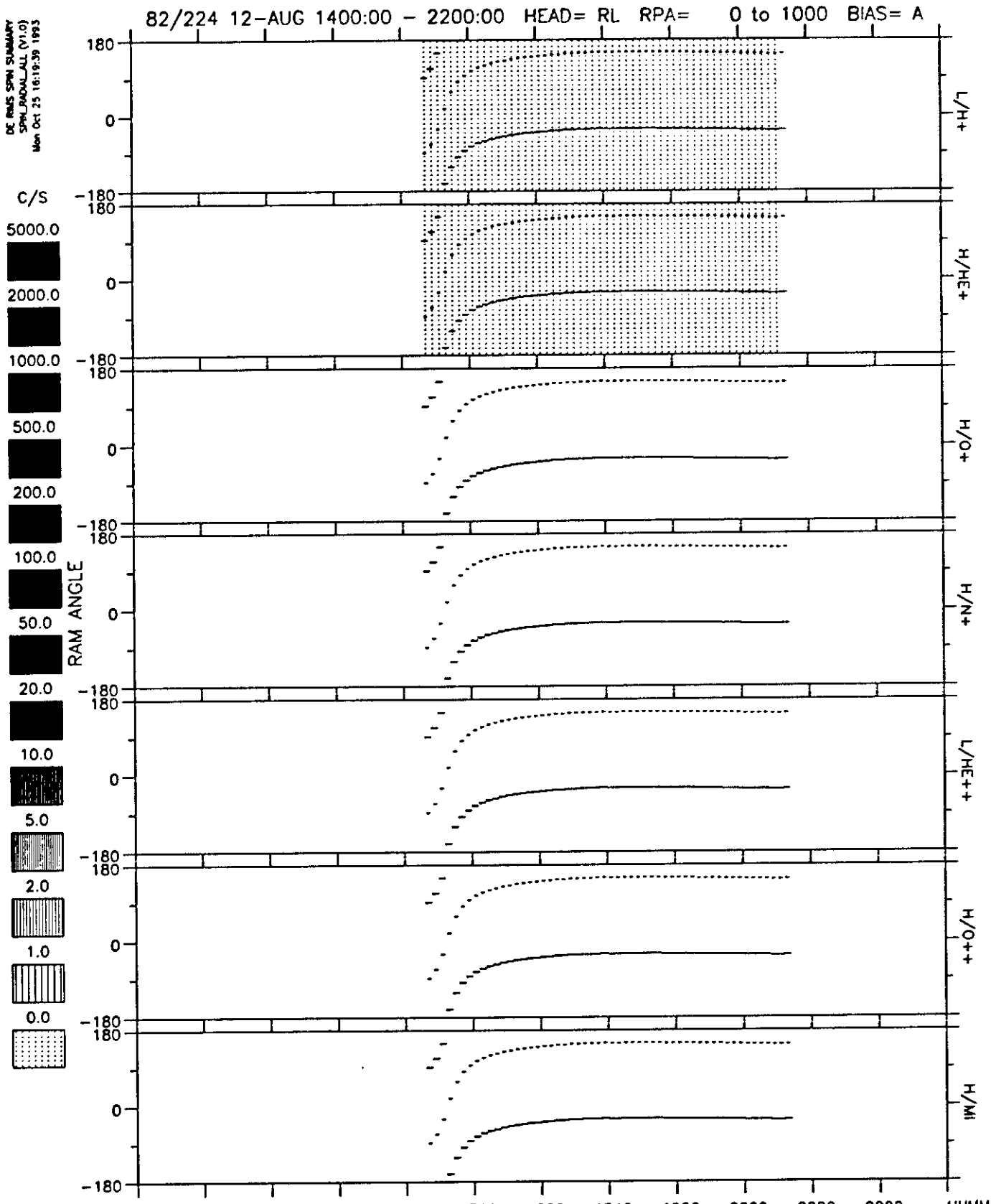
TIME	1810	1850	1930	0000	0000	2130	2210	2250	2330	0010	0000	HHMM
RE	4.3	3.6	2.6	0.0	0.0	3.0	3.8	4.4	4.6	4.6	0.0	RE
L	4.4	4.3	5.4	0.0	0.0	13.8	7.9	6.5	5.7	5.1	0.0	
MLT	13.4	13.4	13.2	0.0	0.0	14.8	14.3	14.0	13.9	13.7	0.0	HRS
MLAT	8.74	22.90	45.20	0.00	0.00	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	61.6	61.3	64.5	0.0	0.0	74.4	69.2	66.9	65.3	63.7	0.0	DEGS



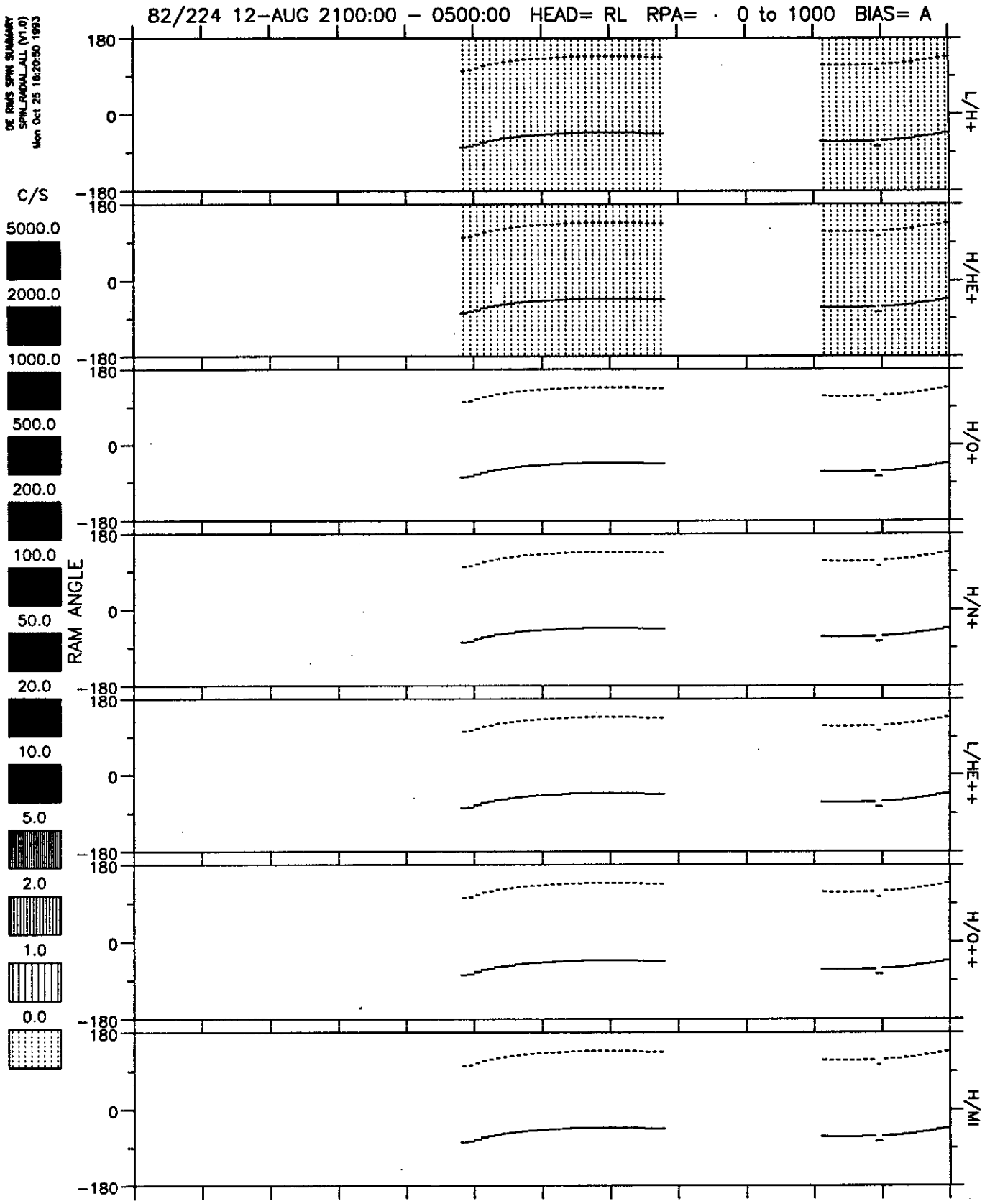
TIME	0000	0000	0000	0000	0350	0430	0510	0550	0630	0710	0750	HHMM
RE	0.0	0.0	0.0	0.0	2.1	3.2	4.0	4.5	4.7	4.6	4.3	RE
L	0.0	0.0	0.0	0.0	15.7	62.1	15.9	9.6	7.1	5.5	4.5	
MLT	0.0	0.0	0.0	0.0	0.2	14.4	13.5	13.3	13.1	13.1	13.1	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	75.4	82.7	75.5	71.2	67.9	64.9	61.9	DEGS

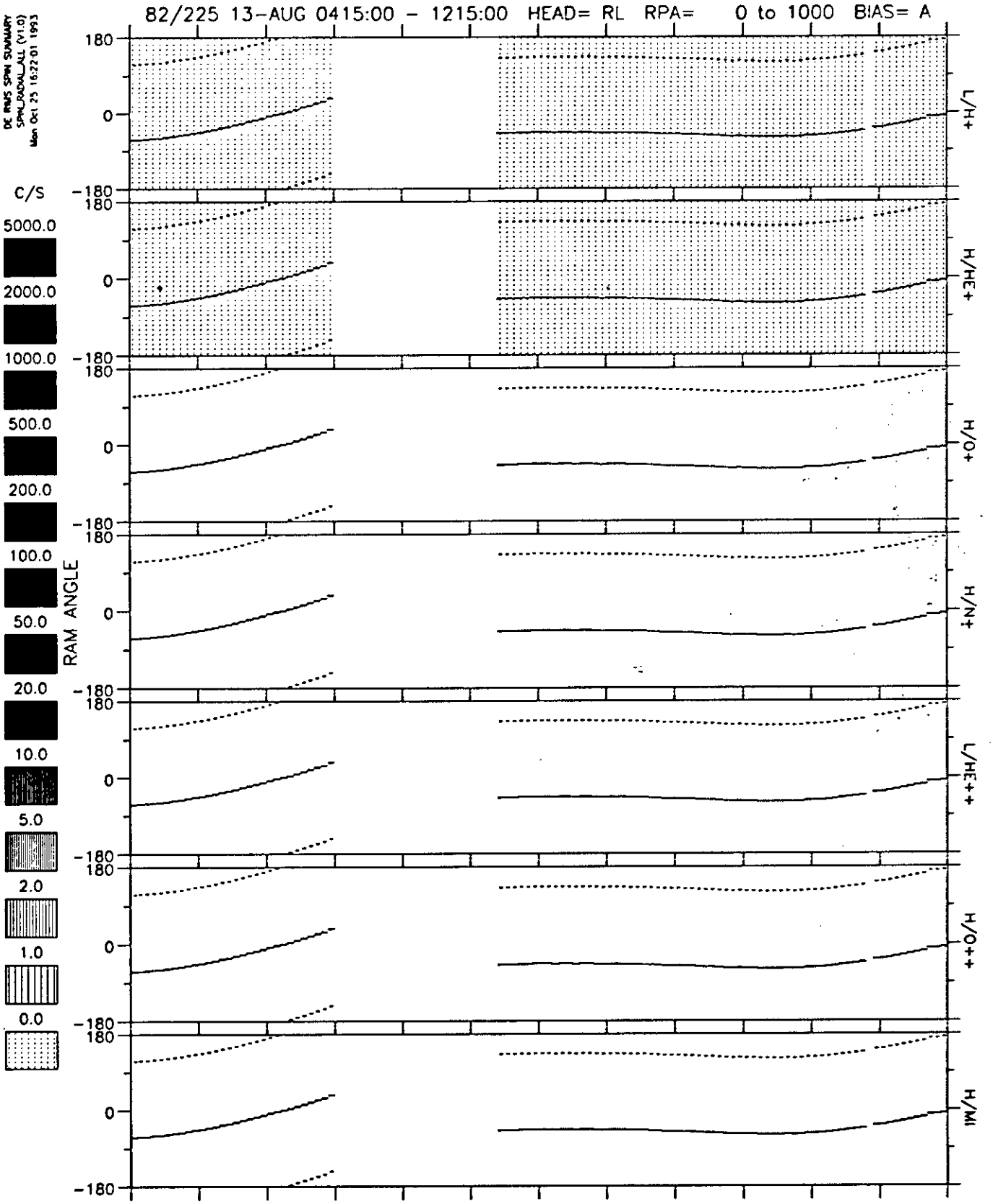


TIME	0000	0000	0000	0000	0000	1115	1155	1235	1315	0000	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	3.1	3.9	4.4	4.6	0.0	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	21.6	9.5	6.8	5.6	0.0	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	11.1	12.1	12.5	12.7	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	77.6	71.1	67.5	65.1	0.0	0.0	DEGS

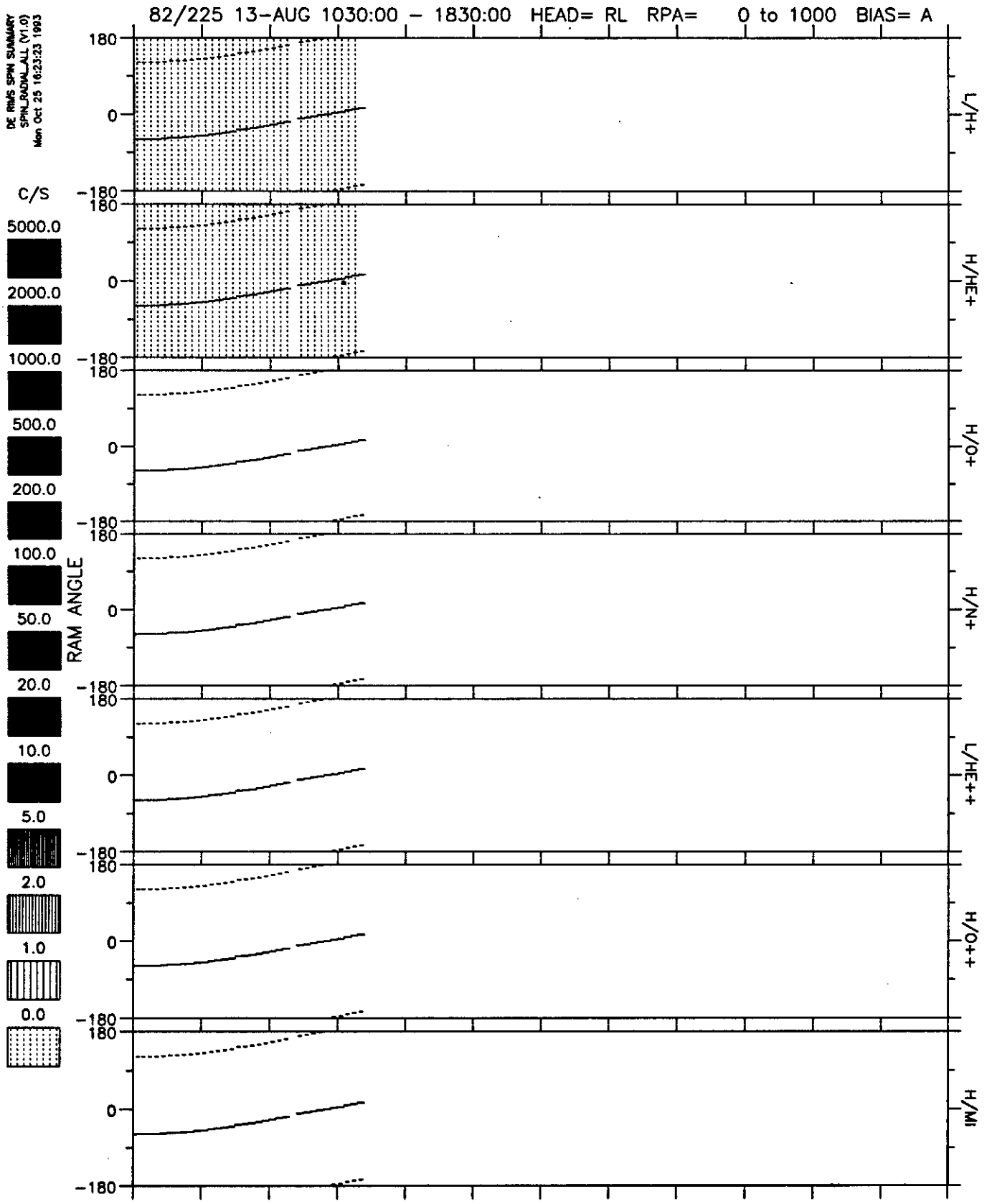


TIME	0000	0000	0000	0000	1720	1800	1840	1920	2000	0000	0000	HHMM
RE	0.0	0.0	0.0	0.0	1.7	2.9	3.8	4.4	4.6	0.0	0.0	RE
L	0.0	0.0	0.0	0.0	27.5	11.9	6.7	5.7	5.2	0.0	0.0	
MLT	0.0	0.0	0.0	0.0	1.7	13.4	13.6	13.6	13.6	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	79.0	73.2	67.3	65.1	63.9	0.0	0.0	DEGS

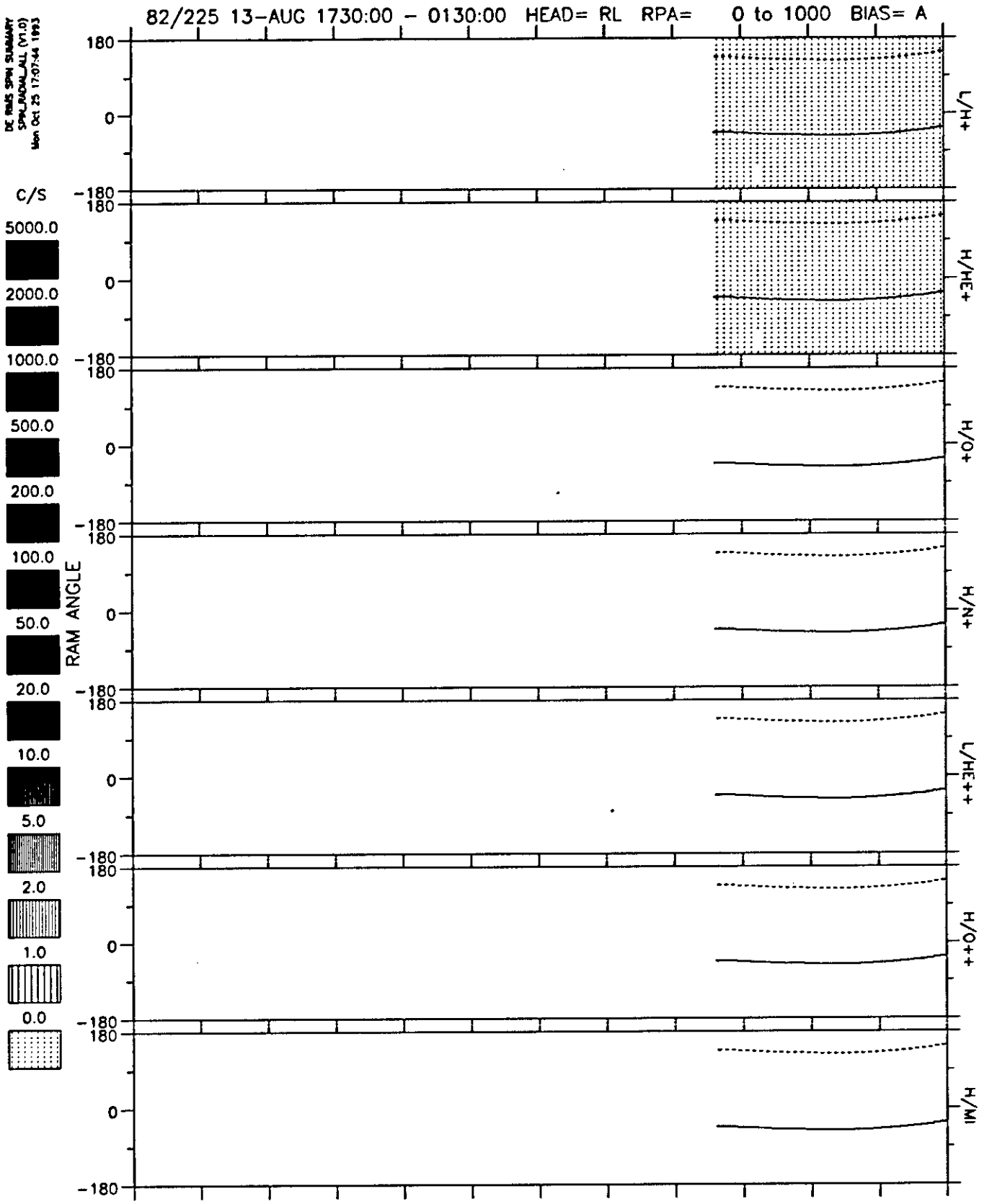

82/224 12-AUG 2100:00 – 0500:00 HEAD= RL RPA= · 0 to 1000 BIAS= A
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Oct 25 16:20:50 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 0000 0000 0000 0000 0020 0100 0140 0000 0000 0000 0420 HHMM
RE 0.0 0.0 0.0 0.0 2.0 3.2 4.0 0.0 0.0 0.0 4.3 RE
L 0.0 0.0 0.0 0.0 18.7 23.4 11.6 0.0 0.0 0.0 4.5
MLT 0.0 0.0 0.0 0.0 22.7 15.2 14.2 0.0 0.0 0.0 13.3 HRS
MLAT 0.00 0.00 0.00 0.00 ***** ***** ***** 0.00 0.00 0.00 ***** DEGS
INVLAT 0.0 0.0 0.0 0.0 76.6 78.1 72.9 0.0 0.0 0.0 61.9 DEGS



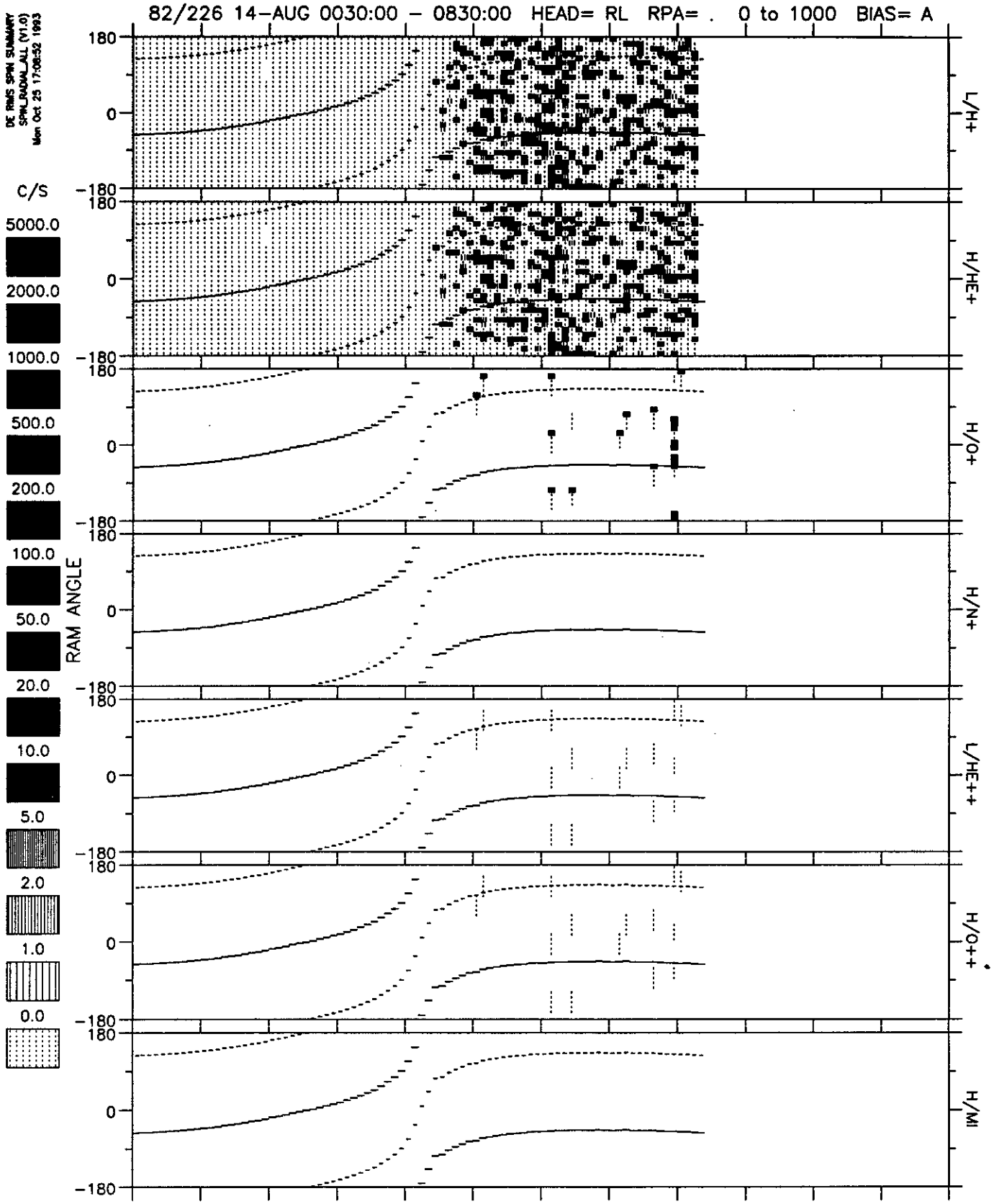
TIME	0455	0535	0000	0000	0000	0815	0855	0935	1015	1055	1135	HHMM
RE	3.8	2.9	0.0	0.0	0.0	3.7	4.3	4.6	4.7	4.4	4.0	RE
L	3.7	3.1	0.0	0.0	0.0	19.6	10.0	7.1	5.7	4.7	4.0	
MLT	13.2	13.2	0.0	0.0	0.0	12.2	12.5	12.6	12.7	12.9	13.0	HRS
MLAT	-3.23	16.70	0.00	0.00	0.00	*****	*****	*****	*****	*****	2.76	DEGS
INVLAT	58.8	55.6	0.0	0.0	0.0	76.9	71.6	68.0	65.2	62.6	60.0	DEGS



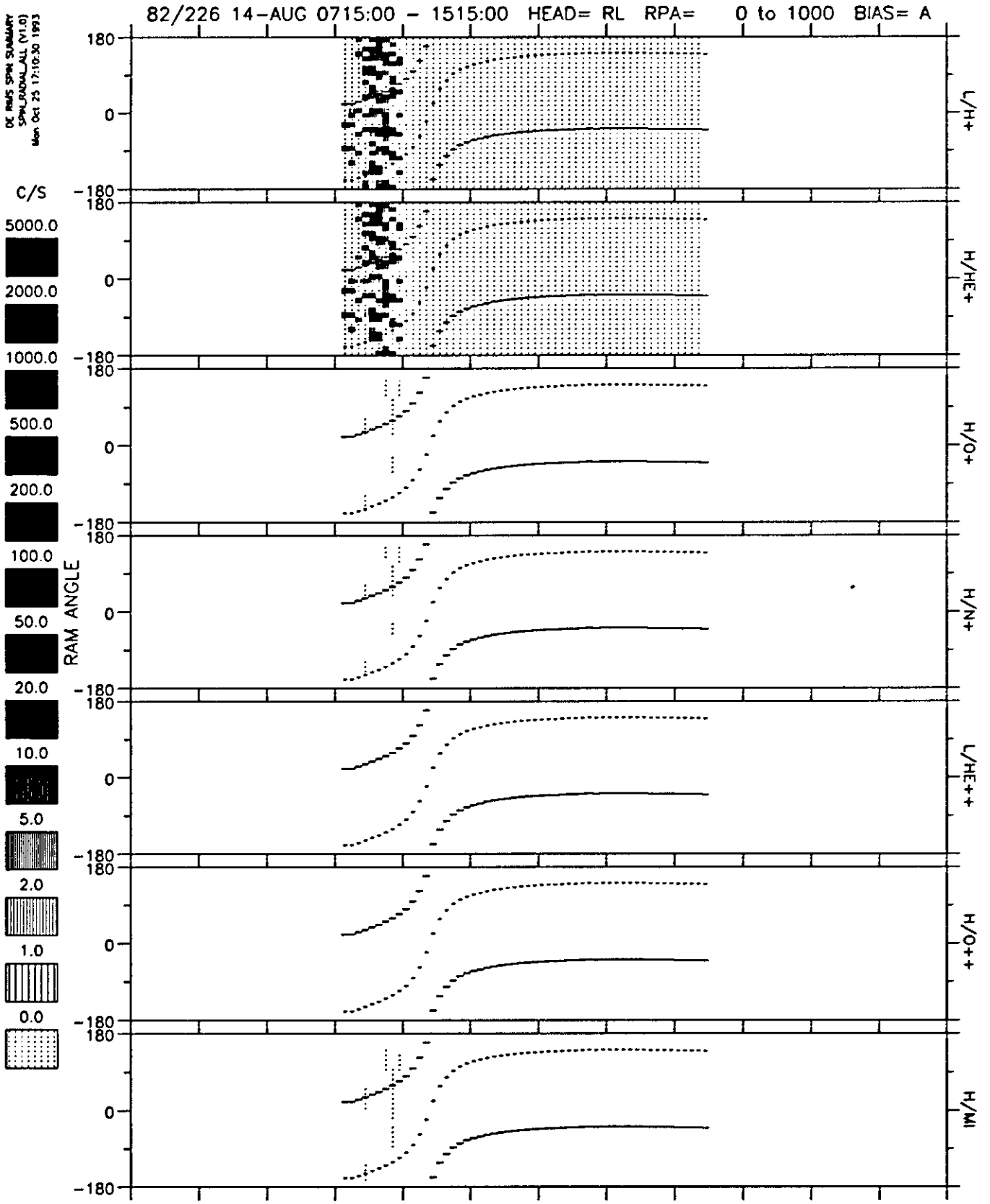
TIME	1110	1150	1230	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	4.3	3.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	4.4	3.8	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	12.9	13.1	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	-6.52	9.17	32.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	61.6	59.1	58.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



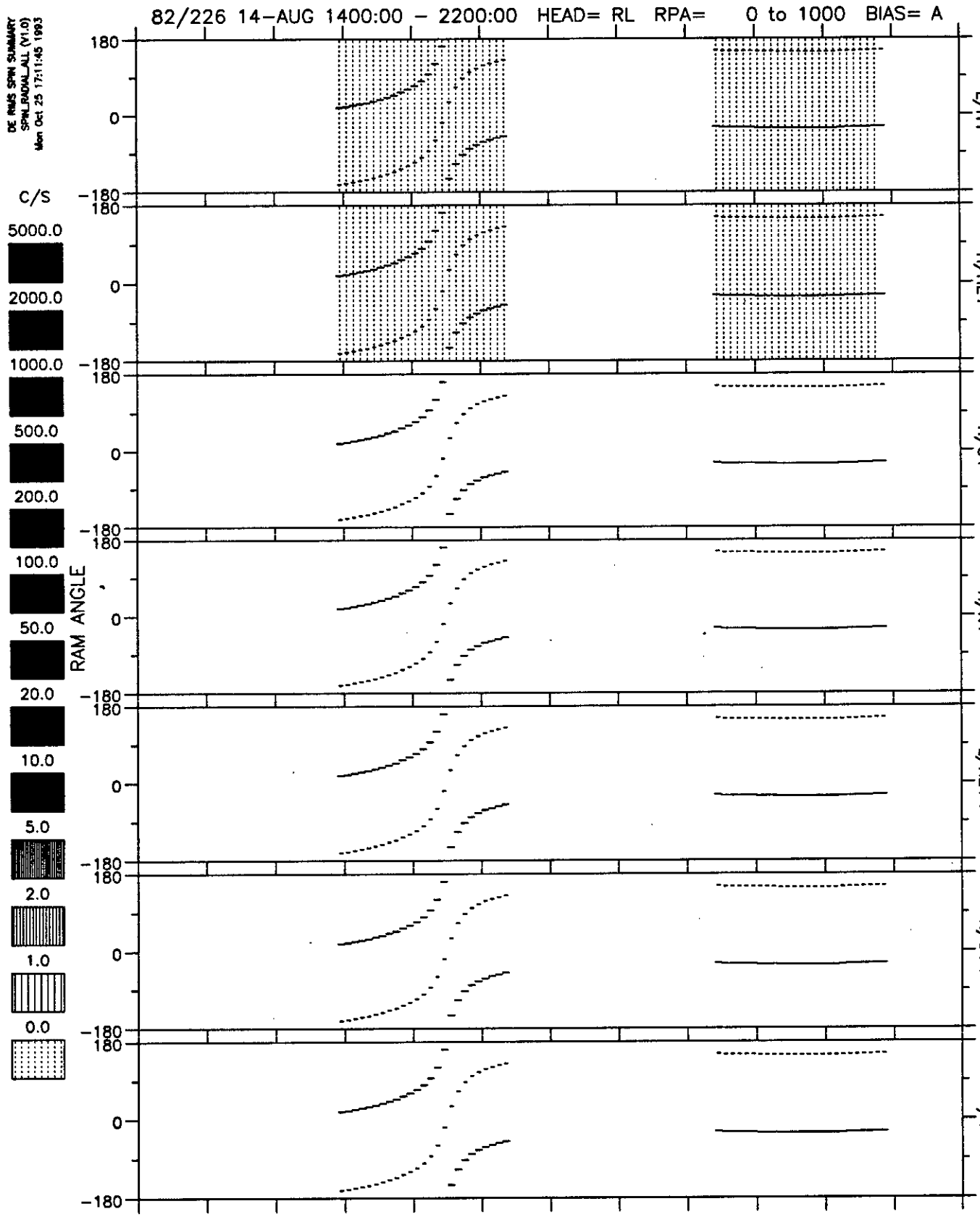
TIME	0000	0000	0000	0000	0000	0000	0000	0000	2330	0010	0050	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.6	4.3	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.0	4.4	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	13.6	13.4	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-7.93	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.3	63.6	61.4	DEGS



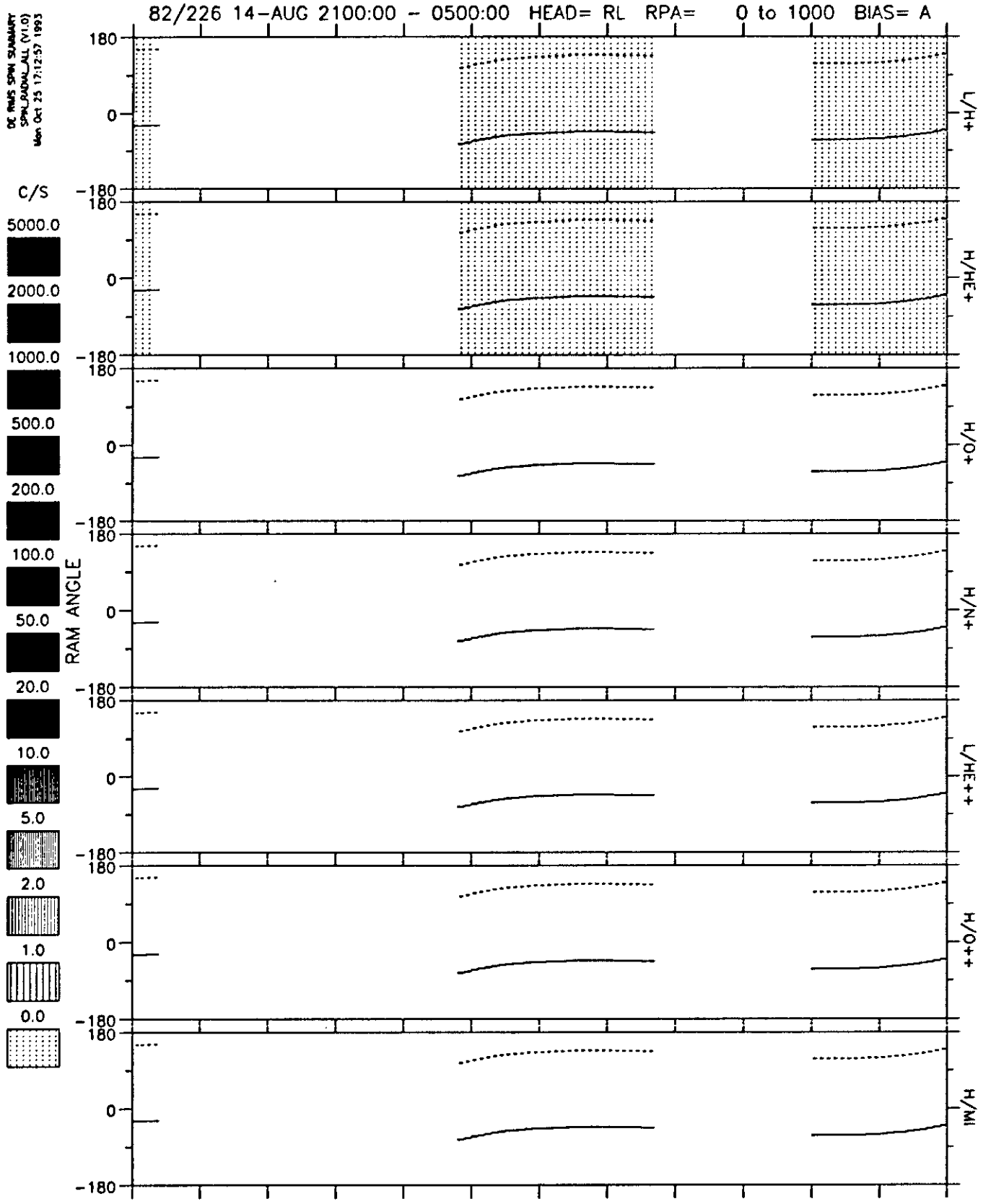
TIME	0110	0150	0230	0310	0350	0430	0510	0550	0000	0000	0000	HHMM
RE	4.1	3.3	2.2	1.1	2.2	3.3	4.1	4.5	0.0	0.0	0.0	RE
L	4.0	3.4	3.8	1.2	30.2	49.6	15.1	9.4	0.0	0.0	0.0	
MLT	13.3	13.1	12.7	1.4	23.7	14.0	13.3	13.1	0.0	0.0	0.0	HRS
MLAT	-2.57	11.89	40.20	28.71	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	60.1	57.1	59.0	26.1	79.5	81.8	75.1	71.0	0.0	0.0	0.0	DEGS



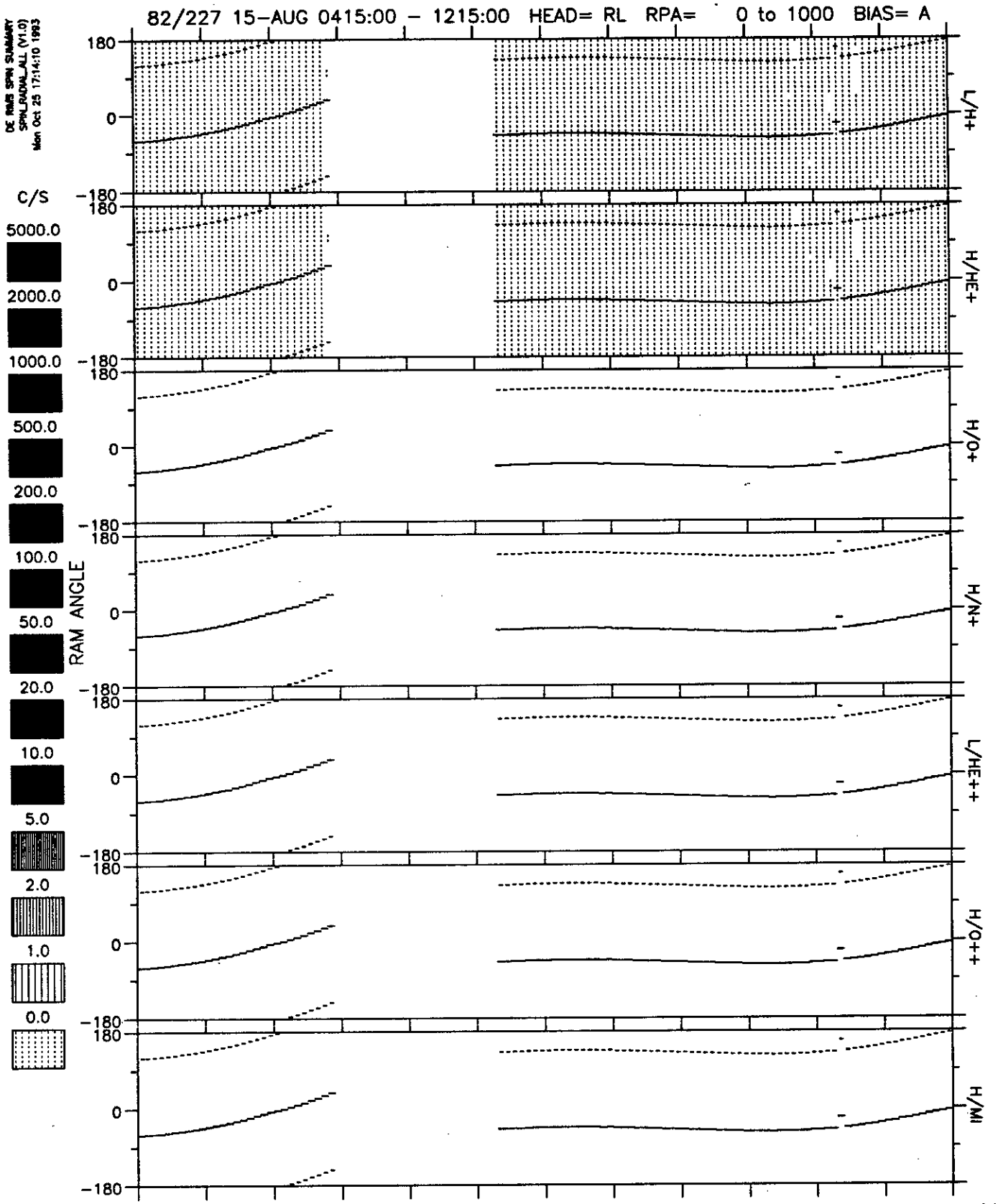
TIME	0000	0000	0000	0955	1035	1115	1155	1235	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	1.1	2.0	3.2	4.0	4.5	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	2.8	20.9	18.8	9.2	6.7	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	2.2	3.5	11.2	12.1	12.4	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	51.65	•••••	•••••	•••••	•••••	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	53.4	77.3	76.7	70.7	67.3	0.0	0.0	0.0	DEGS



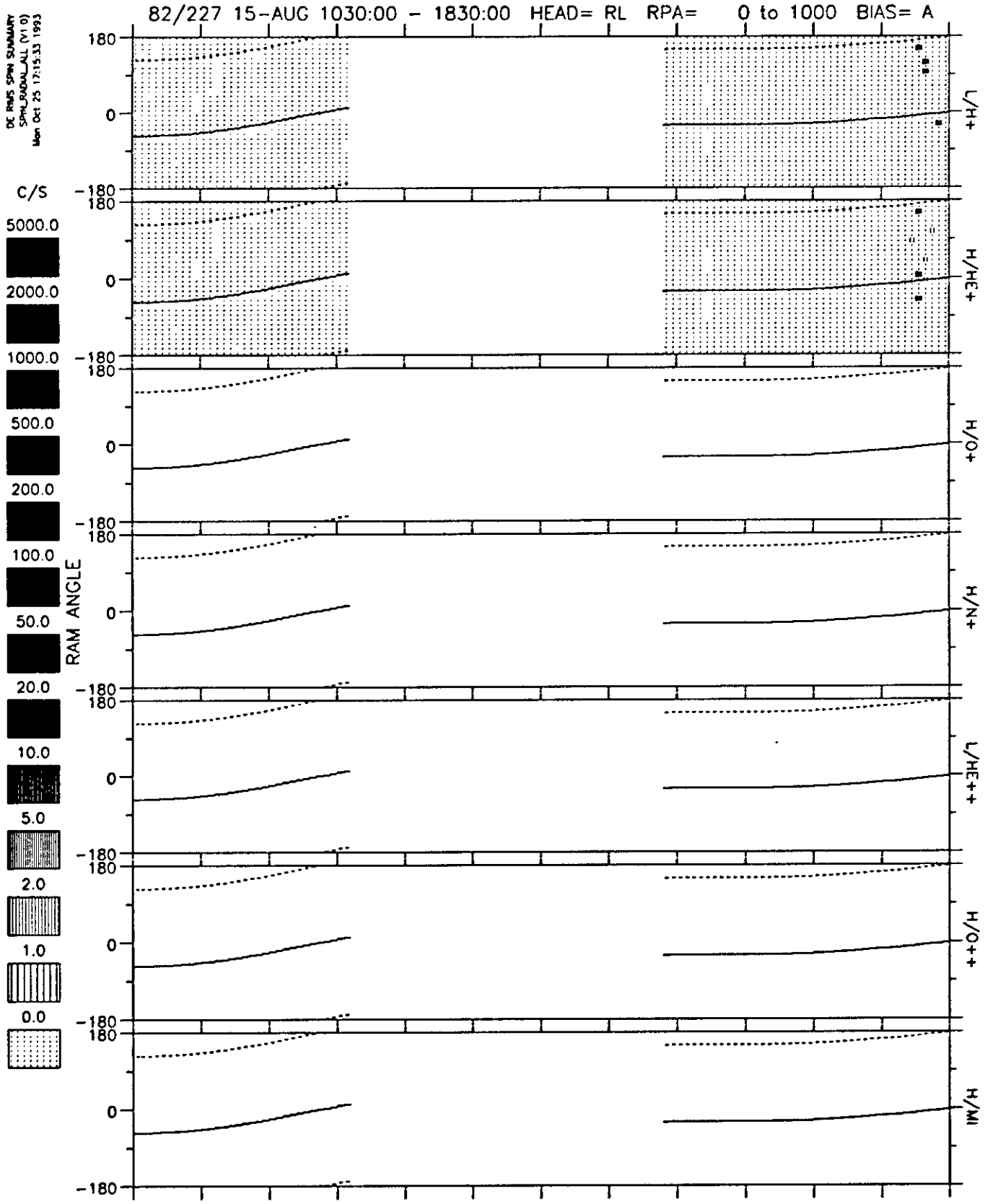
TIME	0000	0000	1600	1640	1720	0000	0000	0000	2000	2040	0000	HHMM
RE	0.0	0.0	2.6	1.2	1.8	0.0	0.0	0.0	4.6	4.6	0.0	RE
L	0.0	0.0	5.1	6.2	100.0	0.0	0.0	0.0	5.1	4.7	0.0	
MLT	0.0	0.0	13.4	0.8	1.8	0.0	0.0	0.0	13.5	13.5	0.0	HRS
MLAT	0.00	0.00	46.49	59.79	*****	0.00	0.00	0.00	*****	-8.69	0.00	DEGS
INVLAT	0.0	0.0	63.7	66.3	86.1	0.0	0.0	0.0	63.8	62.7	0.0	DEGS



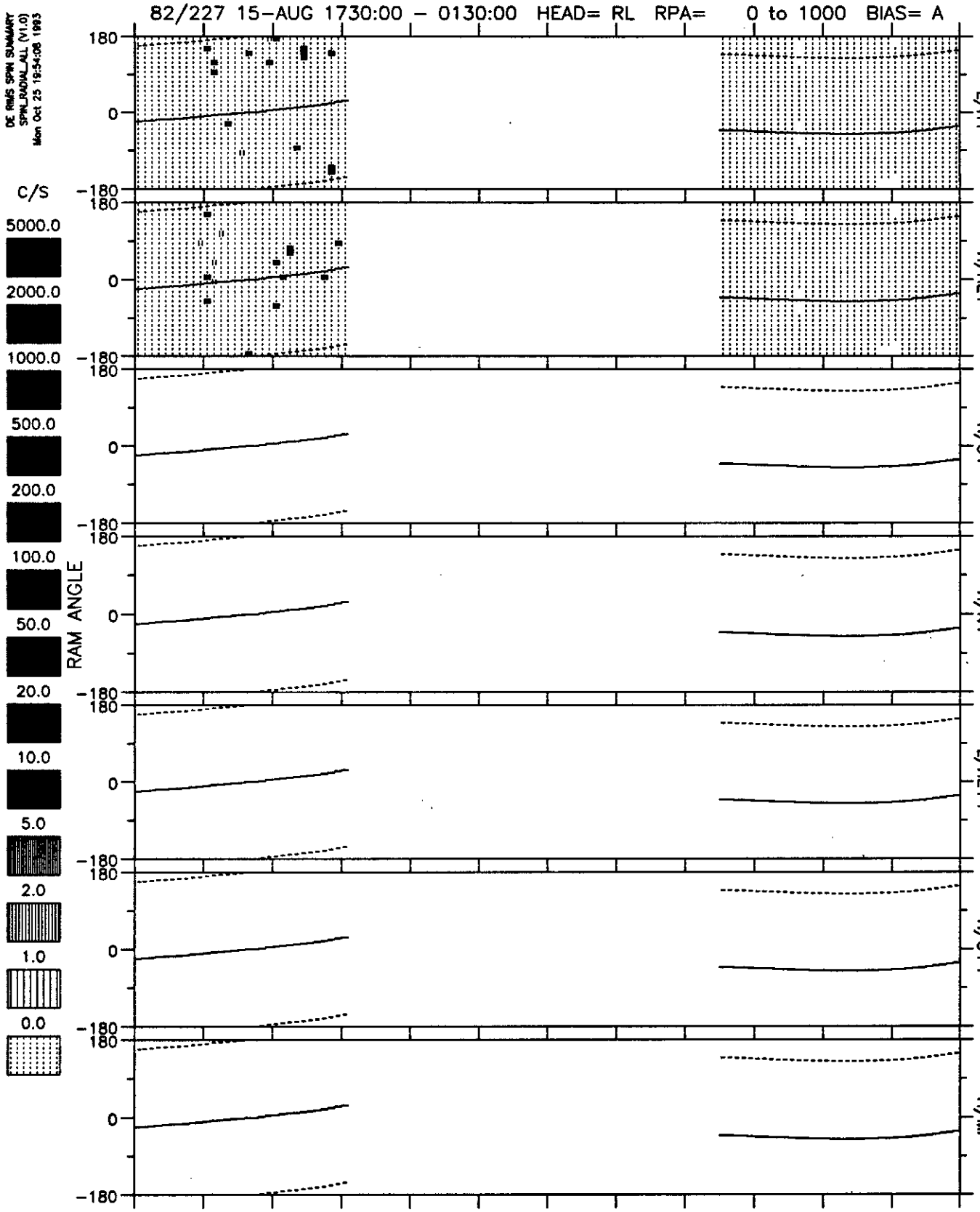
TIME	0000	0000	0000	0000	0020	0100	0140	0000	0000	0340	0420	HHMM
RE	0.0	0.0	0.0	0.0	2.2	3.3	4.0	0.0	0.0	4.6	4.2	RE
L	0.0	0.0	0.0	0.0	31.3	21.5	11.4	0.0	0.0	5.5	4.4	
MLT	0.0	0.0	0.0	0.0	21.5	14.9	14.1	0.0	0.0	13.3	13.2	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	79.7	77.5	72.8	0.0	0.0	64.7	61.5	DEGS



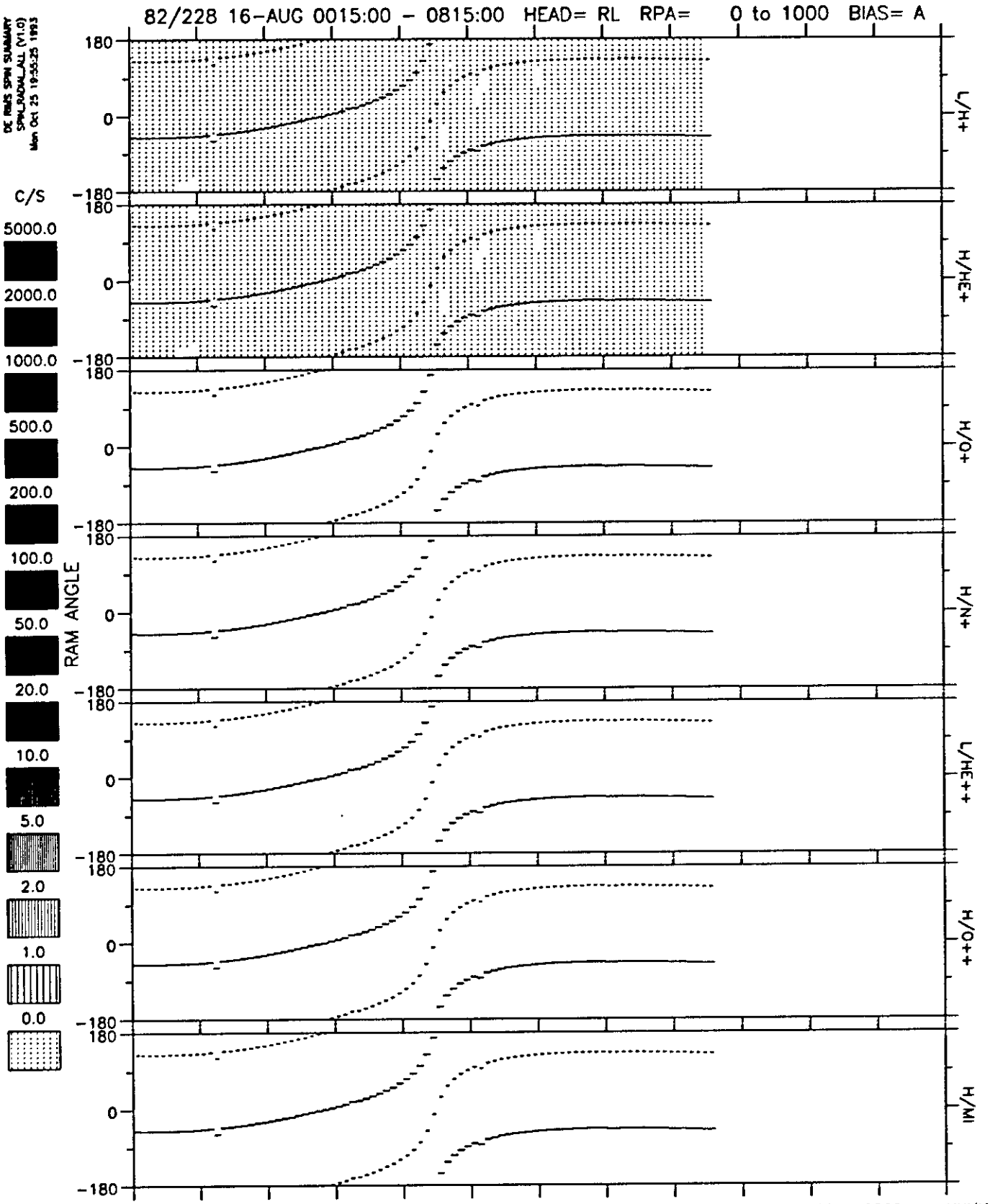
TIME	0455	0535	0000	0000	0000	0815	0855	0935	1015	1055	1135	HHMM
RE	3.7	2.7	0.0	0.0	0.0	3.8	4.4	4.6	4.6	4.4	3.9	RE
L	3.6	3.1	0.0	0.0	0.0	17.9	9.7	7.0	5.6	4.6	3.9	
MLT	13.1	13.1	0.0	0.0	0.0	12.1	12.3	12.5	12.6	12.8	12.9	HRS
MLAT	-1.87	19.76	0.00	0.00	0.00	*****	*****	*****	*****	*****	4.38	DEGS
INVLAT	58.3	55.4	0.0	0.0	0.0	76.3	71.3	67.8	64.9	62.3	59.7	DEGS



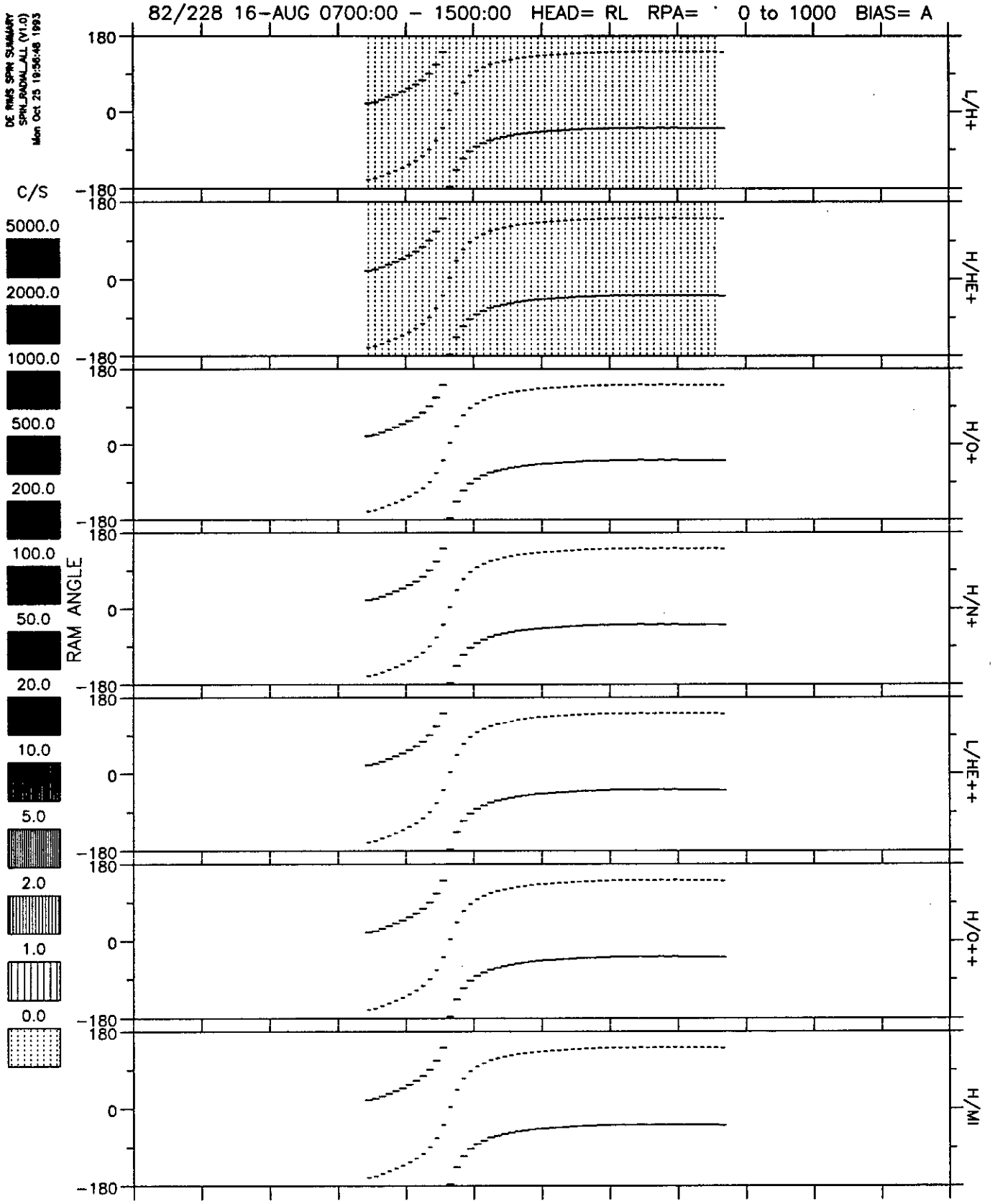
TIME	1110	1150	1230	0000	0000	0000	0000	1550	1630	1710	1750	HHMM
RE	4.2	3.6	2.6	0.0	0.0	0.0	0.0	4.4	4.6	4.6	4.4	RE
L	4.3	3.7	3.8	0.0	0.0	0.0	0.0	5.9	5.2	4.8	4.4	
MLT	12.8	13.0	13.4	0.0	0.0	0.0	0.0	12.8	13.0	13.1	13.2	HRS
MLAT	-5.20	11.08	36.00	0.00	0.00	0.00	0.00	*****	*****	-6.65	4.54	DEGS
INVLAT	61.3	58.8	59.0	0.0	0.0	0.0	0.0	65.6	63.9	62.7	61.7	DEGS



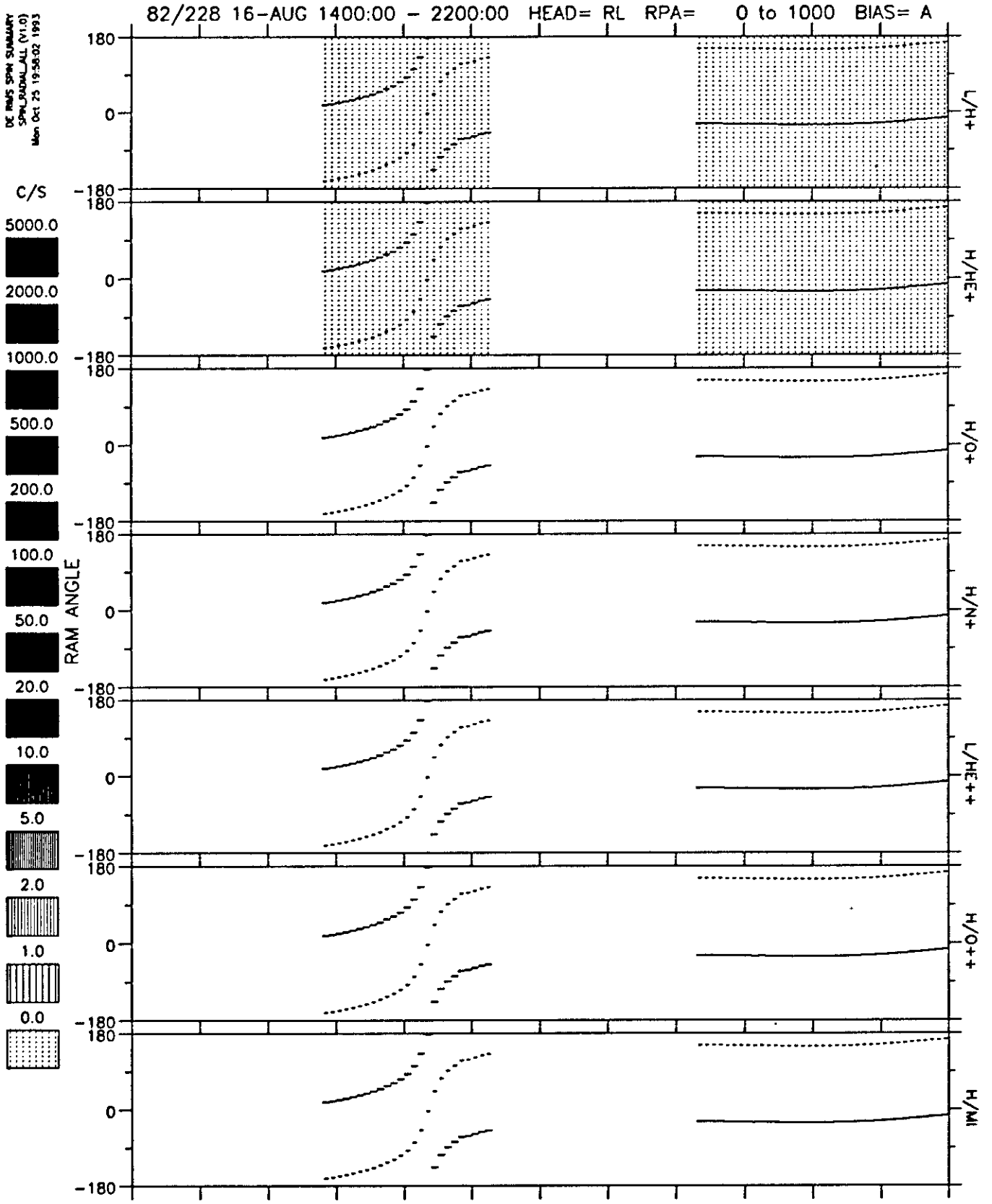
TIME	1810	1850	1930	0000	0000	0000	0000	0000	2330	0010	0050	HHMM
RE	4.1	3.4	2.4	0.0	0.0	0.0	0.0	0.0	4.7	4.6	4.3	RE
L	4.3	4.3	6.3	0.0	0.0	0.0	0.0	0.0	5.7	5.0	4.3	
MLT	13.2	13.1	12.8	0.0	0.0	0.0	0.0	0.0	13.6	13.4	13.2	HRS
MLAT	10.75	26.20	51.95	0.00	0.00	0.00	0.00	0.00	*****	*****	-7.35	DEGS
INVLAT	61.3	61.1	66.5	0.0	0.0	0.0	0.0	0.0	65.2	63.4	61.1	DEGS



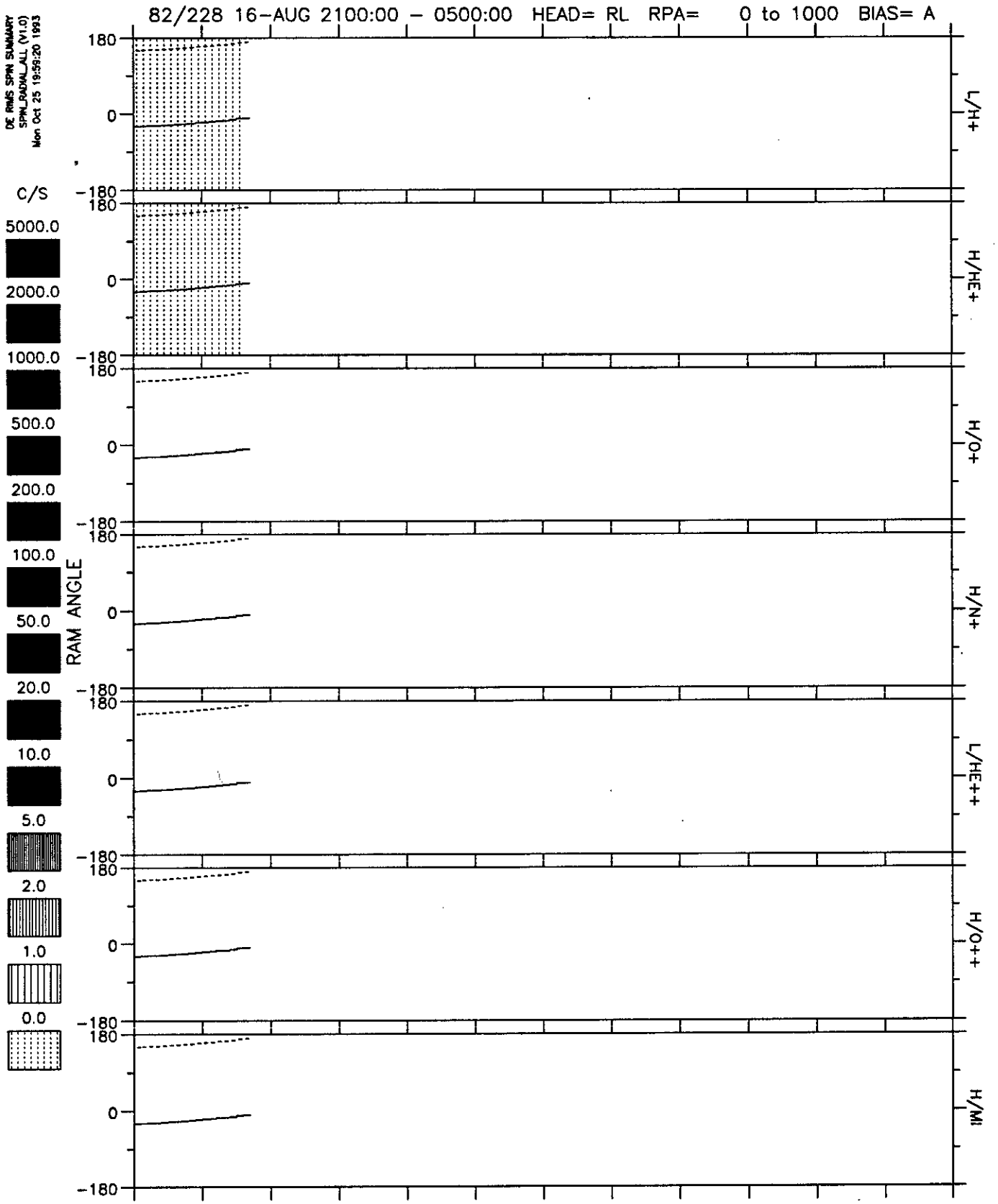
TIME	0055	0135	0215	0255	0335	0415	0455	0535	0000	0000	0000	HHMM
RE	4.2	3.5	2.5	1.2	1.9	3.1	3.9	4.4	0.0	0.0	0.0	RE
L	4.2	3.5	3.3	8.8	8.3	100.0	18.9	10.6	0.0	0.0	0.0	
MLT	13.2	13.0	12.7	2.7	0.3	14.5	13.3	13.0	0.0	0.0	0.0	HRS
MLAT	-6.05	6.93	30.00	71.99	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	60.8	57.8	56.6	70.2	69.7	84.7	76.7	72.2	0.0	0.0	0.0	DEGS



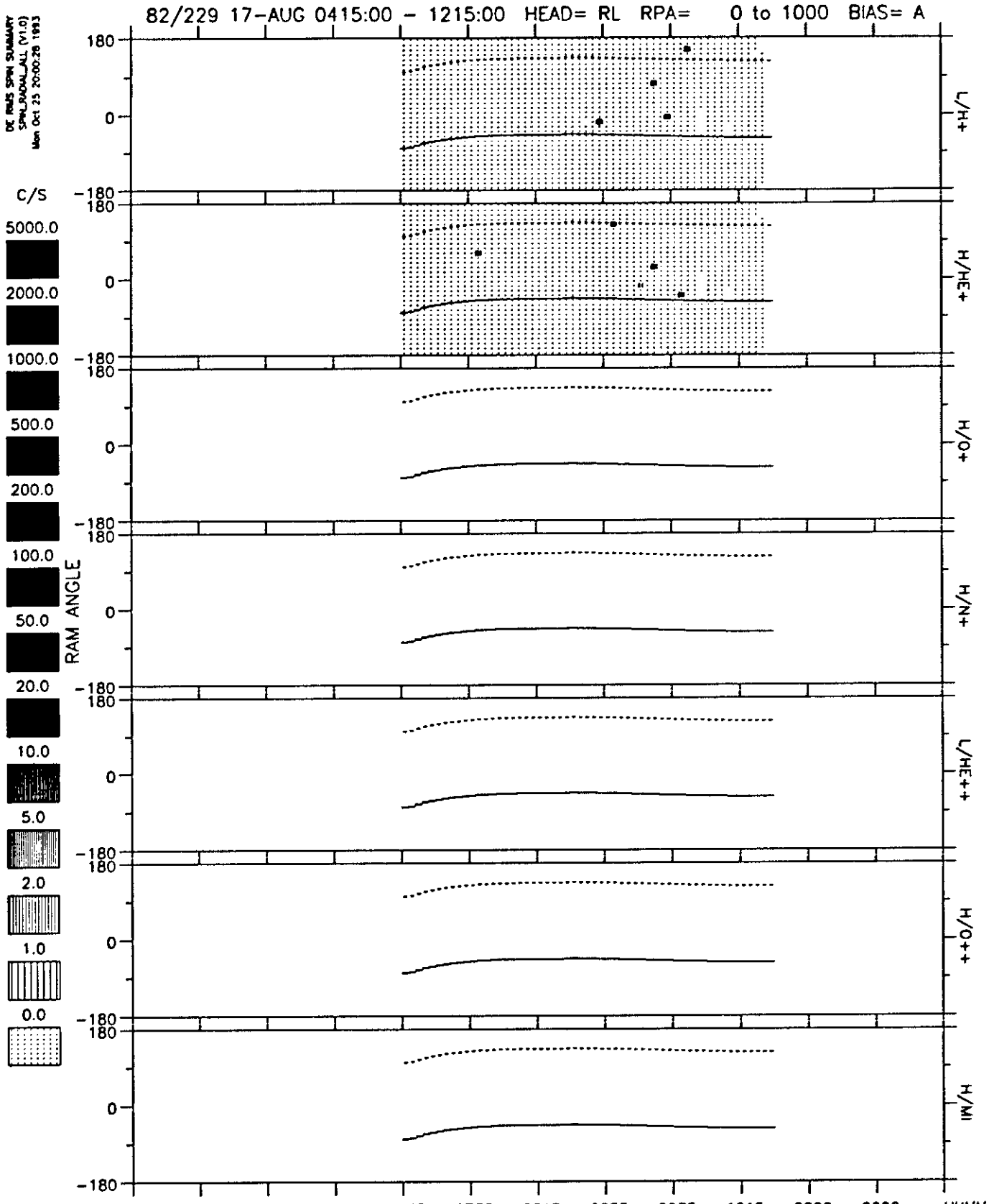
TIME	0000	0000	0000	0940	1020	1100	1140	1220	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	1.3	1.7	3.0	3.8	4.4	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	83.6	6.1	27.5	10.5	7.2	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	18.5	2.1	10.4	11.8	12.2	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	80.04	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	83.7	66.1	79.0	72.0	68.2	0.0	0.0	0.0	DEGS



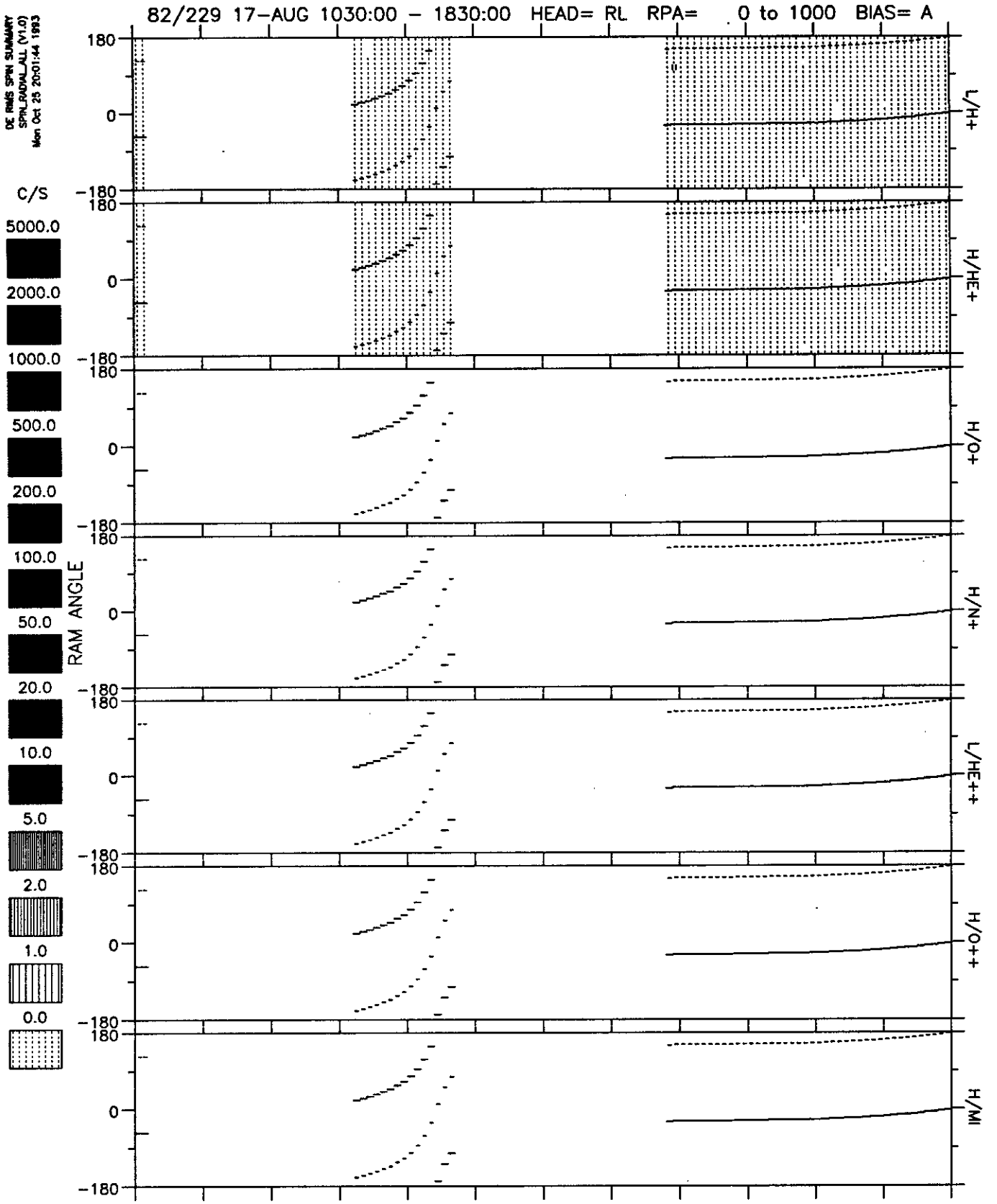
TIME	0000	0000	1600	1640	1720	0000	0000	0000	2000	2040	2120	HHMM
RE	0.0	0.0	2.4	1.1	2.0	0.0	0.0	0.0	4.7	4.6	4.3	RE
L	0.0	0.0	5.6	2.0	100.0	0.0	0.0	0.0	5.1	4.7	4.3	
MLT	0.0	0.0	13.3	0.8	7.8	0.0	0.0	0.0	13.4	13.3	13.2	HRS
MLAT	0.00	0.00	50.98	38.26	•••••	0.00	0.00	0.00	•••••	-8.21	1.52	DEGS
INVLAT	0.0	0.0	65.0	44.8	88.7	0.0	0.0	0.0	63.8	62.5	61.1	DEGS



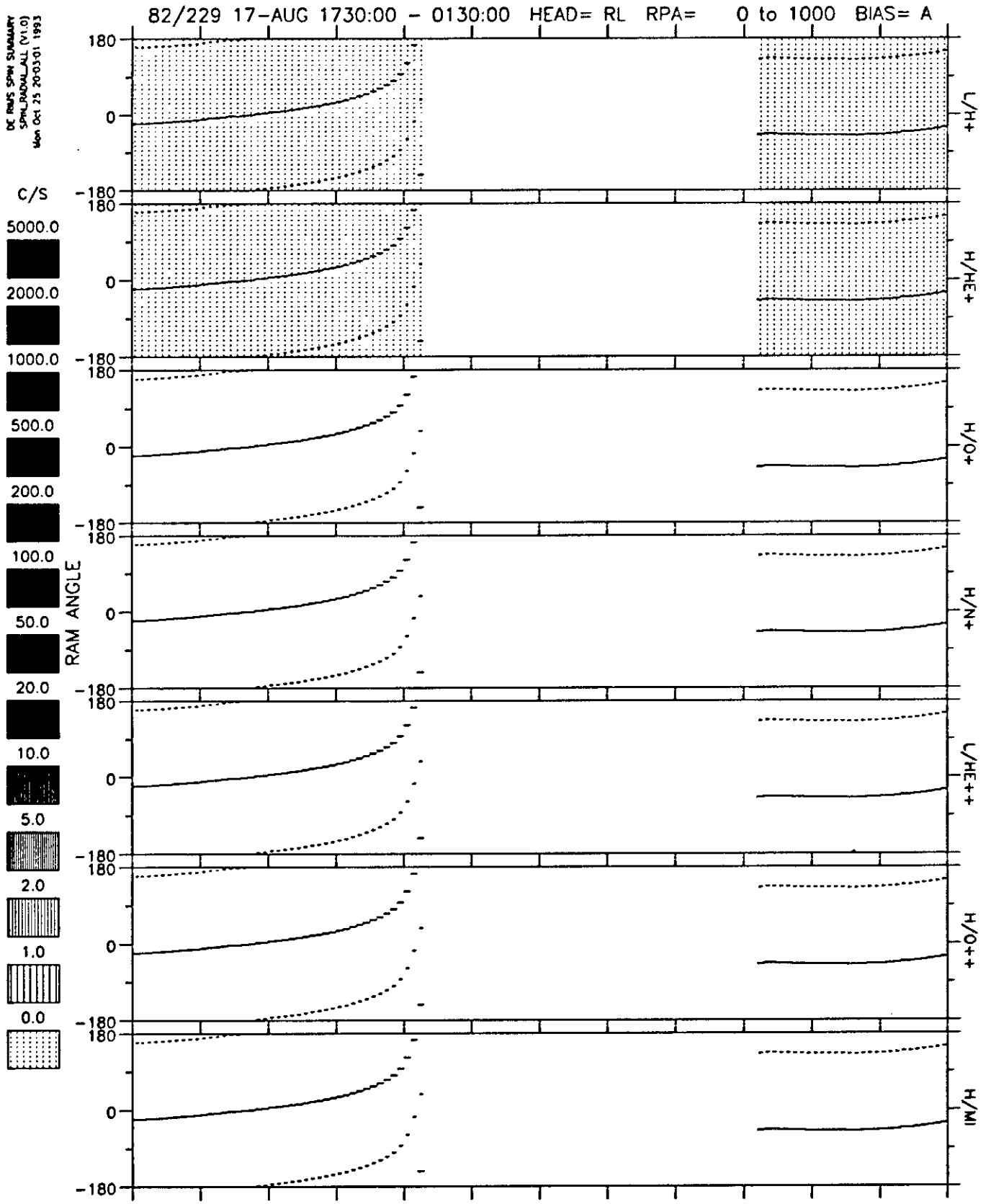
TIME	2140	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	7.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	60.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



TIME	0000	0000	0000	0655	0735	0815	0855	0935	1015	0000	0000	HHMM
RE	0.0	0.0	0.0	1.8	3.0	3.9	4.4	4.6	4.6	0.0	0.0	RE
L	0.0	0.0	0.0	5.8	94.0	16.5	9.4	6.9	5.5	0.0	0.0	
MLT	0.0	0.0	0.0	1.4	10.6	12.0	12.2	12.4	12.5	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	65.6	84.1	75.7	70.9	67.6	64.7	0.0	0.0	DEGS



TIME	0000	0000	0000	1310	0000	0000	0000	1550	1630	1710	1750	HHMM
RE	0.0	0.0	0.0	1.2	0.0	0.0	0.0	4.4	4.7	4.6	4.3	RE
L	0.0	0.0	0.0	3.2	0.0	0.0	0.0	5.8	5.2	4.7	4.4	
MLT	0.0	0.0	0.0	23.8	0.0	0.0	0.0	12.7	12.9	13.0	13.0	HRS
MLAT	0.00	0.00	0.00	52.80	0.00	0.00	0.00	*****	*****	-5.89	5.43	DEGS
INVLAT	0.0	0.0	0.0	56.0	0.0	0.0	0.0	65.5	63.8	62.6	61.5	DEGS



TIME	1810	1850	1930	2010	0000	0000	0000	0000	0000	0010	0050	HHMM
RE	4.0	3.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	4.6	4.2	RE
L	4.3	4.3	7.8	1.0	0.0	0.0	0.0	0.0	0.0	4.9	4.2	
MLT	13.0	13.0	12.5	1.2	0.0	0.0	0.0	0.0	0.0	13.3	13.1	HRS
MLAT	11.80	28.03	58.10	6.34	0.00	0.00	0.00	0.00	0.00	*****	-6.72	DEGS
INVLAT	61.1	61.1	68.9	10.8	0.0	0.0	0.0	0.0	0.0	63.3	60.8	DEGS

APPROVAL

DYNAMICS EXPLORER 1, RETARDING ION MASS SPECTROMETER SUMMARY SPECTROGRAMS—82/110 TO 82/229 SPIN-TIME SPECTROGRAMS FOR H^+, HE^+, O^+, N^+, O^{++}, M/Z=2, AND MOLECULAR IONS

DE 1/RIMS Investigators

This report has been reviewed for technical accuracy and contains no information concerning national security or nuclear energy activities or programs. The report, in its entirety, is unclassified.

Gregory S. Wilson
Director, Space Sciences Laboratory

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13. ABSTRACT *(Maximum 200 words)*

The Retarding Ion Mass Spectrometer (RIMS) experiment onboard the Dynamics Explorer 1 (DE 1) satellite was designed to perform energy and mass-per-charge analysis on low-energy ions (<50 eV) with mass/charge ratios ranging from 1 to 40 amu/Z. The DE 1 satellite, carrying the RIMS experiment, was launched into an elliptical polar orbit on August 3, 1981. The ~7.5 hour orbit has perigee of 675 km altitude and apogee of 24,875 km altitude. This document, and those that follow in this series, contains summary RIMS data spectrograms for each orbit for which RIMS data are available. The RIMS instrument began returning science data on day 280 of 1981 and continued to return usable data until the end of the DE mission in March 1991. It should be noted that studies of the RIMS data set should be conducted only with a thorough awareness of the material described in the introduction section presented here, or in collaboration with a scientist familiar with RIMS data analysis.

14. SUBJECT TERMS

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