NASA Technical Memorandum 108486

Dynamics Explorer 1, Retarding Ion Mass Spectrometer Summary Spectrograms—82/230 to 82/265 Spin-Time Spectrograms for H^+, He^+, O^+, N^+, O^{++}, $M/Z = 2$, and Molecular Ions

DE1/RIMS Investigators

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DE1/RIMS Investigators
Marshall Space Flight Center • MSFC, Alabama

National Aeronautics and Space Administration
Marshall Space Flight Center • MSFC, Alabama 35812

March 1995

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NASA TECHNICAL MEMORANDUM

DYNAMICS EXPLORER 1, RETARDING ION MASS SPECTROMETER SUMMARY SPECTROGRAMS

82/230 TO 82/365 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

1214 82230 0907-1446 01B
1215 82230 1746-2153 01B
1216 82231 0101-0505 01B
1217 82231 0649-1030 01B Random high counts
1218 82231 1230-1333 01B
1219 82231 1533-2015 01B LMCD
1220 82232 0015-0615 01B LMCD
1221 82232 0902-1553 01B LMCD
1222 82232 1630-1723 01B LMCD
1223 82232 1922-2147 01B LMCD
1224 82233 0047-0449 01B LMCD
1225 82233 0450-0510 01B LMCD, Pulsations He+?
1226 82233 0738-1014 01B
1227 82233 1214-1335 01B LMCD
1228 82233 1535-2226 01B
1229 82234 0010-0610 01B LMCD
1230 82234 0857-1548 01B LMCD
1231 82234 1625-1718 01B LMCD
1232 82234 1917-2142 01B LMCD
1233 82234 2338-0120 01B LMCD
1234 82235 0350-0545 01B LMCD
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1240 82236 1853-2132 01B LMCD
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1264 82243 1853-1920 01B LMCD
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1266 82244 0200-0638 01B
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1278 82247 0130-0610 01B LMCD
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1292 82250 0715-0735 01B
1293 82250 0820-0911 oo
1294 82250 1136-1827 01B DNA:1136-1229;1336-1417.
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1297 82251 0618-0947 nd  DNA:0618-0947
1298 82251 1138-1232 nd  DNA:1138-1232
1299 82251 1453-2144 nd  DNA:1453-2144
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1303 82252 0815-0906 nd  DNA:0815-0906
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1305 82252 2022-2211 nd  DNA:2022-2211
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1307 82253 0613-0942 nd  DNA:0613-0942
1308 82253 1133-1227 nd  DNA:1133-1227
1309 82253 1448-2139 nd  DNA:1448-2139
1310 82254 0011-0114 01B Molecular ions only
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1349 82264 0735-0845 01B
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1356 82266 0730-0840 01B
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1552 82313 1608-2308 02A
1553 82314 0108-0808 02A
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1556 82314 1911-0025 02A LMCD
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1558 82315 0945-1403 02A
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1564	82317	0122-0508	02A	
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1567	82317	2100-2300	02A	
1568	82318	0028-0728	02A	
1569	82318	0928-1410	02A	LMCD
1570	82318	1555-2032	02A	
1571	82318	2132-0017	02A	DNA:2132-2232
1572	82319	0117-0503	02A	M2040 DNA: 0307-0503
1573	82319	0557-1257	02A	
1574	82319	1433-2038	02A	LMCD
1575	82319	2055-2255	02A	
1576	82320	0030-0730	oo	
1577	82320	0900-1330	02A	
1578	82320	1500-2200	02A	
1579	82320	2330-0630	02A	
1580	82321	0800-0816	02A	LMCD
1581	82321	0817-1015	02A	LMCD
1582	82321	1145-1433	02A	
1583	82321	1503-1702	02A	LMCD
1584	82321	1802-2147	02A	
1585	82321	2235-2311	02A	LMCD
1586	82322	0025-0725	02A	LMCD, Recorder off 0546-0725
1587	82322	0855-1325	nd	DNA:0855-1325
1588	82322	1455-2155	oo	
1589	82322	2330-0119	oo	
1590	82323	0120-0252	nd	Electrometer only
1591	82323	0253-0630	02A	
1592	82323	0800-0938	nd	Electrometer only
1593	82323	0939-1500	02A	
1594	82323	1632-2049	02A	DNA:1726-2049
1595	82327	1600-1619	nd	Electrometer only
1596	82327	1620-2017	02A	DNA:1823-2017
1597	82341	1445-1546	nd	Electrometer only
1598	82341	1547-1800	02A	DNA:1632-1800
1599	82341	1915-2104	nd	DNA:1915-2104
1600	82341	2105-2240	nd	Electrometer only
1601	82341	2241-0030	nd	DNA:2241-0030
1602	82342	0228-0350	02A	
1603	82342	0351-0526	nd	Electrometer only
1604	82342	0527-0645	oo	
1605	82342	0755-1035	02A	
1606	82342	1036-1214	nd	Electrometer only
1607	82342	1215-1355	02A	
1608	82342	1625-1732	02A	
1609	82342	1733-1911	nd	Electrometer only
1610	82342	1912-1935	02A	
1611	82342	2015-0026	oo	
1612	82343	0027-0202	nd	Electrometer only
1613	82343	0203-0226	02A	
1614	82343	0426-0617	oo	
1615	82343	0717-0844	nd	Electrometer only
1616	82343	0845-1240	02A	
1617	82343	1440-1541	nd	Electrometer only
1618	82343	1542-1755	02A	
1619	82343	1910-2059	02A	
1620	82343	2100-2235	nd	Electrometer only
1621	82343	2236-0025	02A	LMCD
1622	82344	0225-0343	02A	
1623	82344	0344-0519	nd	Electrometer only
1624	82344	0520-0641	02A	
1625	82344	0841-1031	02A	
1626	82344	1032-1207	nd	Electrometer only
1627	82344	1208-1240	02A	
1628	82344	1440-1728	02A	
1629	82344	1729-1907	nd	Electrometer only
1630	82344	1908-2140	02A	
1631	82344	2315-0022	oo	
1632	82345	0023-0157	nd	Electrometer only
1633	82345	0158-0245	02A	
1634	82345	0445-0704	02A	
1635	82345	0705-0840	nd	Electrometer only
1636	82345	0841-1145	02A	
1637	82345	1330-1355	02A	
1638	82345	1356-1417	nd	Electrometer only
1639	82345	1536-2055	02A	
1640	82345	2056-2115	nd	Electrometer only
1641	82345	2315-0059	02A	
1642	82346	0220-0338	02A	
1643	82346	0339-0514	nd	Electrometer only
1644	82346	0515-0636	02A	
1645	82346	0836-1026	02A	
1646	82346	1027-1202	nd	Electrometer only
1647	82346	1203-1235	02A	
1648	82346	1435-1723	02A	
1649	82346	1724-1902	nd	Electrometer only
1650	82346	1903-2135	02A	ssn8v01x DNA:1903-1934
1651	82346	2310-0017	02A	
1652	82347	0018-0152	nd	Electrometer only
1653	82347	0153-0240	02A	DNA:0209-0240
1654	82347	0440-0659	02A	M2040 DNA:0440-0600
1655	82347	0700-0835	nd	Electrometer only
1656	82347	0836-1140	02A	
1657	82347	1325-1350	02A	
1658	82347	1351-1412	nd	Electrometer only
1659	82347	1531-2050	oo	
1660	82347	2051-2110	nd	Electrometer only
1661	82347	2310-0054	02A	
1662	82348	0217-0334	02A	
1663	82348	0335-0353	nd	Electrometer only
1664	82348	0523-0700	02A	
1665	82348	0835-1019	02A	
1666	82348	1020-1122	nd	Electrometer only
1667	82348	1415-1716	02A	
1668	82348	1717-1856	nd	Electrometer only
1669	82348	1857-2115	02A	
1670	82348	2315-0010	02A	
1671	82349	0011-0146	nd	Electrometer only
1672	82349	0147-0210	oo	
1673	82349	0310-0558	02A	
1674	82349	0700-0828	nd	Electrometer only
1675	82349	0829-1343	02A	DNA:1254-1300
1676	82349	1344-1400	nd	Electrometer only
1677	82349	1611-2045	02A	
1678	82349	2245-0040	02A	
1679	82350	0212-0329	02A	
1680	82350	0330-0348	nd	Electrometer only
1681	82350	0518-0655	oo	
1682	82350	0830-1014	02A	
1683	82350	1015-1117	nd	Electrometer only
1684	82350	1410-1711	02A	
1685	82350	1712-1851	nd	Electrometer only
1686	82350	1852-2110	02A	DNA:1913-1954
1687	82351	0120-0140	nd	Electrometer only
1688	82351	0141-0554	02A	
1689	82351	0654-0824	nd	Electrometer only
1690	82351	0825-1322	02A	
1691	82351	1522-1855	02A	
1692	82351	2036-2216	nd	Electrometer only
1693	82351	2217-0040	02A	
1694	82352	0210-0322	02A	
1695	82352	0323-0458	nd	Electrometer only
1696	82352	0459-0910	02A	
1697	82352	1010-1701	02A	
1698	82352	1920-2340	02A	
1699	82353	0115-0135	nd	Electrometer only
1700	82353	0136-0549	02A	DNA:0417-0456.
1701	82353	0649-0819	nd	Electrometer only
1702	82353	0820-1317	02A	
1703	82353	1517-1850	02A	
1704	82353	2031-2211	nd	Electrometer only
1705	82353	2212-0035	02A	
1706	82354	0205-0319	02A	
1707	82354	0320-0455	nd	Electrometer only
1708	82354	0456-0626	02A	
1709	82354	0826-1004	02A	
1710	82354	1005-1142	nd	Electrometer only
1711	82354	1143-1420	02A	data unavailable 1253-1255
1712	82354	1620-1701	02A	
1713	82354	1702-1840	nd	Electrometer only
1714	82354	1841-2320	oo	
1715	82355	0110-0134	nd	Electrometer only
1716	82355	0135-0347	02A	DNA:0332-0347
1717	82355	0547-0637	02A	DNA:0617-0637
1718	82355	0638-0813	nd	Electrometer only
1719	82355	0814-0930	02A	
1720	82355	1030-1318	02A	
1721	82355	1319-1335	02A	
1722	82355	1528-1925	02A	
1723	82355	2125-2204	nd	Electrometer only
1724	82355	2205-0030	02A	
1725	82356	0200-0314	02A	DNA:0239-0314
1726	82356	0315-0450	nd	Electrometer only
1727	82356	0451-0621	02A	DNA:0510-0621
1728	82356	0821-0959	02A	
1729	82356	1000-1137	nd	Electrometer only
1730	82356	1138-1415	02A	
1731	82356	1615-1656	02A	
1732	82356	1657-1835	nd	Electrometer only
1733	82356	1836-2315	02A	
1734	82357	0105-0129	nd	Electrometer only
1735	82357	0130-0342	02A	
1736	82357	0542-0632	02A	M1333 -8v bias w/toggle
1737	82357	0633-0808	nd	Electrometer only
1738	82357	0809-0925	02A	M1333 w/-8v ap bias
1739	82357	1025-1328	02A	
1740	82357	1523-1920	02A	
1741	82357	2120-2159	nd	Electrometer only
1742	82357	2200-0025	02A	
1743	82358	0200-0307	nd	DNA:0200-0307
1744	82358	0308-0443	nd	Electrometer only
1745	82358	0444-0510	nd	DNA:0444-0510

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1746 82358 0710-0952 02A
1747 82358 0953-1131 nd  Electrometer only
1748 82358 1132-1410 02A
1749 82358 1610-1652 02A
1750 82358 1653-1831 nd  Electrometer only
1751 82358 1832-2100 02A
1752 82358 2300-2343 02A
1753 82358 2344-0119 nd  Electrometer only
1754 82359 0120-0338 02A
1755 82359 0538-0625 02A
1756 82359 0626-0801 nd  Electrometer only
1757 82359 0802-1201 02A
1758 82359 1514-2019 02A Memory dump problem
1759 82359 2020-2155 nd  Electrometer only
1760 82359 2156-2214 02A
1761 82360 0001-0302 02A
1762 82360 0303-0438 nd  Electrometer only
1763 82360 0439-0505 oo
1764 82360 0705-0947 02A
1765 82360 0948-1126 nd  Electrometer only
1766 82360 1127-1405 02A
1767 82360 1605-1647 02A
1768 82360 1648-1826 nd  Electrometer only
1769 82360 1827-2055 02A
1770 82360 2255-2338 02A
1771 82360 2339-0114 nd  Electrometer only
1772 82361 0115-0333 02A DNA:0115-0134
1773 82361 0533-0620 02A M1333 -8v bias w/toggle
1774 82361 0621-0756 nd  Electrometer only
1775 82361 0757-1156 02A M1333 mode
1776 82361 1509-2014 02A
1777 82361 2015-2150 nd  Electrometer only
1778 82361 2151-2209 02A
1779 82362 0014-0258 02A
1780 82362 0259-0434 nd  Electrometer only
1781 82362 0435-0459 02A
1782 82362 0659-0943 02A
1783 82362 0944-1122 nd  Electrometer only
1784 82362 1123-1359 02A
1785 82362 1550-1640 02A
1786 82362 1641-1822 nd  Electrometer only
1787 82362 1823-2223 02A
1788 82363 0114-0402 02A
1789 82363 0526-0613 02A
1790 82363 0614-0751 nd  Electrometer only
1791 82363 0752-1125 02A
1792 82363 1517-2007 02A
1793 82363 2008-2145 nd  Electrometer only
1794 82363 2146-2202 02A
1795 82364 0009-0253 02A
1796 82364 0254-0429 nd  Electrometer only
1797 82364 0430-0456 02A
1798 82364 0654-0938 02A DNA:0749-0846.
1799 82364 0939-1117 nd  Electrometer only
1800 82364 1118-1354 02A
1801 82364 1545-1635 02A
1802 82364 1636-1817 nd  Electrometer only
1803 82364 1818-2218 02A DNA:1958-2014
1804 82365 0109-0357 02A
1805 82365 0521-0608 02A
1806 82365 0609-0746 nd  Electrometer only
1807 82365 0747-1120 02A
1808 82365 1512-2002 02A
1809 82365 2003-2140 nd  Electrometer only
1810 82365 2141-2157 02A

END OF LISTING
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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
 2229 233600 APPON
 2229 233616 INSTR10
 2229 233620 AHV71582
 2230 030200 PH00ADDT
 2230 030204 AHV71582
 2230 062700 STOPIT
 2230 090700 APPON
 2230 090716 T816R01
 2230 090720 PH80AAAA
 2230 090724 AHV71582
 2230 094400 PH00AAAA
 2230 094404 AHV71582
 2230 101500 PH80AAAA
 2230 101504 AHV71582
 2230 144600 STOPIT
 2230 174600 IMSON
 2230 174616 T816R01
 2230 174620 PH00AAAA
 2230 174624 AHV71582
 2230 215300 STOPIT
 2231 010100 APPON
 2231 010116 M133301
 2231 010216 SSN8V01X
 2231 010220 PH80AAAA
 2231 010224 AHV71582
 2231 050500 STOPIT
 2231 064900 APPON
 2231 064916 T816R01
 2231 064920 PH80AAAA
 2231 064924 AHV71582
 2231 103000 STOPIT
 2231 123000 APPON
 2231 123016 M133301
 2231 123116 SSN8V01X
 2231 123120 PH80AAAA
 2231 123124 AHV71582
 2231 130700 PH00AAAA
 2231 130704 AHV71582
 2231 133300 STOPIT
 2231 153300 IMSON
 2231 153316 T816R01
 2231 153320 PH00AAAA
 2231 153324 AHV71582
 2231 201500 STOPIT
 2232 001500 APPON
 2232 001516 M133301
 2232 001616 SSN8V01X
 2232 001620 PH80AAAA
 2232 001624 AHV71582
 2232 025000 PH00AAAA
 2232 025004 AHV71582
 2232 032100 PH80AAAA
 2232 032104 AHV71582
 2232 061500 STOPIT
 2232 090200 APPON
 2232 090216 T816R01
 2232 090220 PH80AAAA
 2232 090224 AHV71582
 2232 094100 PH00AAAA
 2232 094104 AHV71582
 2232 101000 PH80AAAA
 2232 101004 AHV71582
 2232 124100 PH00AAAA
 2232 124104 AHV71582
 2232 155300 STOPIT
 2232 163000 APPON
 2232 163016 M133301
 2232 163116 SSN8V01X
 2232 163120 PH00AAAA
 2232 163124 AHV71582
 2232 165600 PH80AAAA
 2232 165604 AHV71582
 2232 172300 STOPIT
 2232 192200 IMSON
 2232 192216 T816R01
 2232 192220 PH00AAAA
 2232 192224 AHV71582
 2232 214700 STOPIT
 2233 004700 IMSON
 2233 004716 SH16M01
 2233 004720 PH00ADAA
 2233 004724 AHV71582
 2233 044900 STOPIT
 2233 045000 IMSON
 2233 045016 HI04N01
 2233 045100 HI04N01X
 2233 045200 HI04N03X
 2233 045300 HI04N04X
 2233 045400 HI04N01X
 2233 045500 HI04N03X
 2233 045600 HI04N04X
 2233 045700 HI04N01X
 2233 045800 HI04N03X
 2233 045900 HI04N04X
 2233 050000 HI04N01X
 2233 050100 HI04N03X
 2233 050200 HI04N04X
 2233 050300 HI04N01X
 2233 050400 HI04N03X
 2233 050500 HI04N04X
 2233 051000 STOPIT
 2233 073800 IMSON
 2233 073816 T816R01
 2233 073820 PH00AAAA
 2233 073824 AHV71582
 2233 101400 STOPIT
 2233 121400 APPON
 2233 121416 M133301
 2233 121516 SSN8V01X
 2233 121520 PH80AAAA
 2233 121524 AHV71582
 2233 130200 PH00AAAA
 2233 130204 AHV71582
 2233 133500 STOPIT
 2233 153500 IMSON
 2233 153516 M204001
 2233 153520 AHV71582
 2233 222600 STOPIT
 2234 001000 APPON
 2234 001016 M133301
 2234 001116 SSN8V01X
 2234 001120 PH80AAAA
 2234 001124 AHV71582
 2234 024500 PH00AAAA
 2234 024504 AHV71582
 2234 031600 PH80AAAA
 2234 031604 AHV71582
 2234 061000 STOPIT
 2234 085700 APPON
 2234 085716 T816R01
 2234 085720 PH80AAAA
 2234 085724 AHV71582
 2234 093600 PH00AAAA
 2234 093604 AHV71582
 2234 100500 PH80AAAA
 2234 100504 AHV71582
 2234 123600 PH00AAAA
 2234 123604 AHV71582
 2234 154800 STOPIT
 2234 162500 APPON
 2234 162516 M133301
 2234 162616 SSN8V01X
 2234 162620 PH00AAAA
 2234 162624 AHV71582
 2234 165100 PH80AAAA
 2234 165104 AHV71582
 2234 171800 STOPIT
 2234 191700 IMSON
 2234 191716 T816R01
 2234 191720 PH00AAAA
 2234 191724 AHV71582
 2234 214200 STOPIT
 2234 233800 IMSON
 2234 233816 T816R01
 2234 233820 PH00AAAA
 2234 233824 AHV71582
 2235 012000 STOPIT
 2235 035000 APPON
 2235 035016 M133301
 2235 035116 SSN8V01X
 2235 035120 PH80AAAA
 2235 035124 AHV71582
 2235 054500 STOPIT
 2235 073000 IMSON
 2235 073016 T816R01
 2235 073020 PH00AAAA
 2235 073024 AHV71582
 2235 122000 STOPIT
 2235 152900 APPON
 2235 152916 SH16M01
 2235 152920 PH80ADAA
 2235 152924 AHV71582
 2235 201500 STOPIT
 2236 000500 IMSON
 2236 000516 T816R01
 2236 000520 PH00AAAA
 2236 000524 AHV71582
 2236 065600 STOPIT
 2236 090800 IMSON
 2236 090816 T816R01
 2236 090820 PH00AAAA
 2236 090824 AHV71582
 2236 093500 STOPIT
 2236 113500 APPON
 2236 113516 M133301
 2236 113616 SSN8V01X
 2236 113620 PH80AAAA
 2236 113624 AHV71582
 2236 161800 PH00AAAA
 2236 161804 AHV71582
 2236 164500 STOPIT
 2236 185300 APPON
 2236 185316 T816R01
 2236 185320 PH80AAAA
 2236 185324 AHV71582
 2236 213200 STOPIT
 2236 233300 IMSON
 2236 233316 T816R01
 2236 233320 PH00AAAA
 2236 233324 AHV71582
 2237 011500 STOPIT
 2237 034500 APPON
 2237 034516 M133301
 2237 034616 SSN8V01X
 2237 034620 PH80AAAA
 2237 034624 AHV71582
 2237 054000 STOPIT
 2237 072500 IMSON
 2237 072516 T816R01
 2237 072520 PH00AAAA
 2237 072524 AHV71582
 2237 121500 STOPIT
 2237 152400 APPON
 2237 152416 SH16M01
 2237 152420 PH80ADAA
 2237 152424 AHV71582
 2237 201000 STOPIT
 2238 000000 IMSON
 2238 000016 T816R01
 2238 000020 PH00AAAA
 2238 000024 AHV71582
 2238 065100 STOPIT
 2238 090300 IMSON
 2238 090316 T816R01
 2238 090320 PH00AAAA
 2238 090324 AHV71582
 2238 093000 STOPIT
 2238 113000 APPON
 2238 113016 M133301
 2238 113116 SSN8V01X
 2238 113120 PH80AAAA
 2238 113124 AHV71582
 2238 161300 PH00AAAA
 2238 161304 AHV71582
 2238 164000 STOPIT
 2238 184800 APPON
 2238 184816 T816R01
 2238 184820 PH80AAAA
 2238 184824 AHV71582
 2238 231000 PH00AAAA
 2238 231004 AHV71582
 2238 233000 STOPIT
 2239 023000 APPON
 2239 023016 SH16M01
 2239 023020 PH80ADAA
 2239 023024 AHV71582
 2239 053000 STOPIT
 2239 075200 APPON
 2239 075216 T816R01
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2239	075220	PH80AAAA	2243	203900	SH16M02X	2243	221100	SH16M02X	2244	212216	SSNRV01X	2248	105520	PH80AAAA
2239	075224	AHV71582	2243	204000	SH16M03X	2243	221200	SH16M03X	2244	212220	PH80AAAA	2248	105524	AHV71582
2239	124900	PH00AAAA	2243	204100	SH16M02X	2243	221300	SH16M02X	2244	212224	AHV71582	2248	121500	PH00AAAA
2239	124904	AHV71582	2243	204200	SH16M03X	2243	221400	SH16M03X	2244	225100	PH00AAAA	2248	121504	AHV71582
2239	131700	PH80AAAA	2243	204300	SH16M02X	2243	221500	SH16M02X	2244	225104	AHV71582	2248	151800	PH80AAAA
2239	131704	AHV71582	2243	204400	SH16M03X	2243	221600	SH16M03X	2244	232100	PH80AAAA	2248	151804	AHV71582
2239	133000	STOPIT	2243	204500	SH16M02X	2243	221700	SH16M02X	2244	232104	AHV71582	2248	154800	PH00AAAA
2239	152100	IMSON	2243	204600	SH16M03X	2243	221800	SH16M03X	2245	020000	STOPIT	2248	154804	AHV71582
2239	152116	T816R01	2243	204700	SH16M02X	2243	221900	SH16M02X	2245	035200	IMSON	2248	161600	PH80AAAA
2239	152120	PH00AAAA	2243	204800	SH16M03X	2243	222000	SH16M03X	2245	035216	T816R01	2248	161604	AHV71582
2239	152124	AHV71582	2243	204900	SH16M02X	2243	222100	SH16M02X	2245	035220	PH00AAAA	2248	174600	STOPIT
2239	201500	STOPIT	2243	205000	SH16M03X	2243	222200	SH16M03X	2245	035224	AHV71582	2248	192400	APPON
2239	231500	IMSON	2243	205100	SH16M02X	2243	222300	SH16M02X	2245	045000	STOPIT	2248	192416	SH16M01
2239	231516	CS04L01	2243	205200	SH16M03X	2243	222400	SH16M03X	2245	062000	IMSON	2248	192420	PH00ADAA
2239	231520	AHV71582	2243	205300	SH16M02X	2243	222500	SH16M02X	2245	062016	T816R01	2248	192424	AHV71582
2240	060600	STOPIT	2243	205400	SH16M03X	2243	222600	SH16M03X	2245	062020	PH00AAAA	2248	222100	STOPIT
2240	093400	IMSON	2243	205500	SH16M02X	2243	222700	SH16M02X	2245	062024	AHV71582	2249	012500	APPON
2240	093416	CMMSL01	2243	205600	SH16M03X	2243	222800	SH16M03X	2245	100000	STOPIT	2249	012516	M133301
2240	093420	AHV71582	2243	205700	SH16M02X	2243	222900	SH16M02X	2245	120200	APPON	2249	012616	SSNRV01X
2240	162500	STOPIT	2243	205800	SH16M03X	2243	223000	SH16M03X	2245	120216	M133301	2249	012620	PH80AAAA
2240	185200	APPON	2243	205900	SH16M02X	2243	223100	SH16M02X	2245	120316	SSNRV01X	2249	012624	AHV71582
2240	185216	M133301	2243	210000	SH16M03X	2243	223200	SH16M03X	2245	120320	PH80AAAA	2249	053300	PH00AAAA
2240	185316	SSNRV01X	2243	210100	SH16M02X	2243	223300	SH16M02X	2245	120324	AHV71582	2249	053304	AHV71582
2240	185320	PH80AAAA	2243	210200	SH16M03X	2243	223400	SH16M03X	2245	123000	PH00AAAA	2249	060500	STOPIT
2240	185324	AHV71582	2243	210300	SH16M02X	2243	223500	SH16M02X	2245	123004	AHV71582	2249	080000	IMSON
2240	223500	STOPIT	2243	210400	SH16M03X	2243	223600	SH16M03X	2245	130000	STOPIT	2249	080516	T816R01
2241	022500	APPON	2243	210500	SH16M02X	2243	223700	SH16M02X	2245	160000	IMSON	2249	080520	PH00AAAA
2241	022516	SH16M01	2243	210600	SH16M03X	2243	223800	SH16M03X	2245	160016	SH16M01	2249	080524	AHV71582
2241	022520	PH80ADAA	2243	210700	SH16M02X	2243	223900	SH16M02X	2245	160020	PH00ADAA	2249	103000	STOPIT
2241	022524	AHV71582	2243	210800	SH16M03X	2243	224000	SH16M03X	2245	160024	AHV71582	2249	115500	IMSON
2241	052500	STOPIT	2243	210900	SH16M02X	2243	224100	SH16M02X	2245	225100	STOPIT	2249	115516	M204001
2241	074700	APPON	2243	211000	SH16M03X	2243	224200	SH16M03X	2246	023900	IMSON	2249	115520	AHV71582
2241	074716	T816R01	2243	211100	SH16M02X	2243	224300	SH16M02X	2246	023916	T816R01	2249	135500	STOPIT
2241	074720	PH80AAAA	2243	211200	SH16M03X	2243	224400	SH16M03X	2246	023920	PH00AAAA	2249	152500	APPON
2241	074724	AHV71582	2243	211300	SH16M02X	2243	224500	SH16M02X	2246	023924	AHV71582	2249	152516	CMMSL01
2241	124400	PH00AAAA	2243	211400	SH16M03X	2243	224600	SH16M03X	2246	063400	STOPIT	2249	152616	SSNRV01X
2241	124404	AHV71582	2243	211500	SH16M02X	2243	224700	SH16M02X	2246	071500	IMSON	2249	152620	AHV71582
2241	131200	PH80AAAA	2243	211600	SH16M03X	2243	224800	SH16M03X	2246	071516	T816R01	2249	221600	STOPIT
2241	131204	AHV71582	2243	211700	SH16M02X	2243	224900	SH16M02X	2246	071520	PH00AAAA	2250	000500	APPON
2241	132500	STOPIT	2243	211800	SH16M03X	2243	225000	SH16M03X	2246	071524	AHV71582	2250	000516	T816R01
2241	151600	IMSON	2243	211900	SH16M02X	2243	225100	SH16M02X	2246	081500	STOPIT	2250	000520	PH80AAAA
2241	151616	T816R01	2243	212000	SH16M03X	2243	225200	SH16M03X	2246	110000	APPON	2250	000524	AHV71582
2241	151620	PH00AAAA	2243	212100	SH16M02X	2243	225300	SH16M02X	2246	110016	T816R01	2250	013000	STOPIT
2241	151624	AHV71582	2243	212200	SH16M03X	2243	225400	SH16M03X	2246	110020	PH80AAAA	2250	023000	APPON
2241	201000	STOPIT	2243	212300	SH16M02X	2243	225500	SH16M02X	2246	110024	AHV71582	2250	023016	SH16M01
2241	231000	APPON	2243	212400	SH16M03X	2243	225600	SH16M03X	2246	122000	PH00AAAA	2250	023020	PH80ADAA
2241	231016	CS04L01	2243	212500	SH16M02X	2243	225700	SH16M02X	2246	122004	AHV71582	2250	023024	AHV71582
2241	231116	SSNRV01X	2243	212600	SH16M03X	2243	225800	SH16M03X	2246	152300	PH80AAAA	2250	062800	STOPIT
2241	231120	AHV71582	2243	212700	SH16M02X	2243	225900	SH16M02X	2246	152304	AHV71582	2250	071500	IMSON
2242	060100	STOPIT	2243	212800	SH16M03X	2243	230000	SH16M03X	2246	155300	PH00AAAA	2250	071516	T816R01
2242	092900	APPON	2243	212900	SH16M02X	2243	230100	SH16M02X	2246	155304	AHV71582	2250	071520	PH00AAAA
2242	092916	CMMSL01	2243	213000	SH16M03X	2243	230200	SH16M03X	2246	162100	PH80AAAA	2250	071524	AHV71582
2242	093016	SSNRV01X	2243	213100	SH16M02X	2243	230300	SH16M02X	2246	162104	AHV71582	2250	073500	STOPIT
2242	093020	AHV71582	2243	213200	SH16M03X	2243	230400	SH16M03X	2246	175100	STOPIT	2250	082000	IMSON
2242	162000	STOPIT	2243	213300	SH16M02X	2243	230500	SH16M02X	2246	192900	APPON	2250	082020	PH00AAAA
2242	184700	APPON	2243	213400	SH16M03X	2243	230600	SH16M03X	2246	192916	SH16M01	2250	082024	AHV71582
2242	184716	M133301	2243	213500	SH16M02X	2243	230700	SH16M02X	2246	192920	PH00ADAA	2250	091100	STOPIT
2242	184816	SSNRV01X	2243	213600	SH16M03X	2243	230800	SH16M03X	2246	192924	AHV71582	2250	113600	IMSON
2242	184820	PH80AAAA	2243	213700	SH16M02X	2243	230900	SH16M02X	2246	222000	STOPIT	2250	113616	T816R01
2242	184824	AHV71582	2243	213800	SH16M03X	2243	231000	SH16M03X	2247	013000	APPON	2250	113620	PH00AAAA
2242	223000	STOPIT	2243	213900	SH16M02X	2243	231100	SH16M02X	2247	013016	M133301	2250	113624	AHV71582
2243	013000	IMSON	2243	214000	SH16M03X	2243	231200	SH16M03X	2247	013116	SSNRV01X	2250	182700	STOPIT
2243	013016	SH16M01	2243	214100	SH16M02X	2243	231300	SH16M02X	2247	013120	PH80AAAA	2250	202700	APPON
2243	013020	PH00ADAA	2243	214200	SH16M03X	2243	231400	SH16M03X	2247	013124	AHV71582	2250	202716	T816R01
2243	013024	AHV71582	2243	214300	SH16M02X	2243	231500	SH16M03X	2247	053800	PH00AAAA	2250	202720	PH80AAAA
2243	051000	STOPIT	2243	214400	SH16M03X	2243	231700	SH16M03X	2247	053804	AHV71582	2250	202724	AHV71582
2243	071000	APPON	2243	214500	SH16M02X	2243	231800	STOPIT	2247	061000	STOPIT	2250	221600	STOPIT
2243	071016	T816R01	2243	214600	SH16M03X	2244	020000	APPON	2247	081000	IMSON	2251	001600	APPON
2243	071020	PH80AAAA	2243	214700	SH16M02X	2244	020016	SH16M01	2247	081016	T816R01	2251	001616	SH16M01
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2243	115000	STOPIT	2243	214900	SH16M02X	2244	020024	AHV71582	2247	081024	AHV71582	2251	001624	AHV71582
2243	145000	APPON	2243	215000	SH16M03X	2244	063800	STOPIT	2247	103500	STOPIT	2251	025300	PH00ADAA
2243	145016	M133301	2243	215100	SH16M02X	2244	080000	IMSON	2247	120000	IMSON	2251	025304	AHV71582
2243	145116	SSNRV01X	2243	215200	SH16M03X	2244	080016	T816R01	2247	120016	M204001	2251	051100	STOPIT
2243	145120	PH80AAAA	2243	215300	SH16M02X	2244	080020	PH00AAAA	2247	120020	AHV71582	2251	061800	APPON
2243	145124	AHV71582	2243	215400	SH16M03X	2244	080024	AHV71582	2247	140000	STOPIT	2251	061816	T816R01
2243	180800	STOPIT	2243	215500	SH16M02X	2244	083000	STOPIT	2247	153000	IMSON	2251	061820	PH80AAAA
2243	185300	IMSON	2243	215600	SH16M03X	2244	113000	APPON	2247	153016	CMMSL01	2251	061824	AHV71582
2243	185316	T816R01	2243	215700	SH16M02X	2244	113016	SH16M01	2247	153020	AHV71582	2251	094700	STOPIT
2243	185320	PH00AAAA	2243	215800	SH16M03X	2244	113020	PH80ADAA	2247	222100	STOPIT	2251	113800	APPON
2243	185324	AHV71582	2243	215900	SH16M02X	2244	113024	AHV71582	2248	023400	IMSON	2251	113816	M133301
2243	192000	STOPIT	2243	220000	SH16M03X	2244	122500	PH00ADAA	2248	023416	T816R01	2251	113916	SSNRV01X
2243	203000	APPON	2243	220100	SH16M02X	2244	122504	AHV71582	2248	023420	PH00AAAA	2251	113920	PH80AAAA
2243	203016	SH16M01	2243	220200	SH16M03X	2244	152800	PH80ADAA	2248	023424	AHV71582	2251	113924	AHV71582
2243	203100	SH16M02X	2243	220300	SH16M02X	2244	152804	AHV71582	2248	062900	STOPIT	2251	121500	PH00AAAA
2243	203200	SH16M03X	2243	220400	SH16M03X	2244	155700	PH00ADAA	2248	071000	IMSON	2251	121504	AHV71582
2243	203300	SH16M02X	2243	220500	SH16M02X	2244	155704	AHV71582	2248	071016	T816R01	2251	123200	STOPIT
2243	203400	SH16M03X	2243	220600	SH16M03X	2244	162800	PH80ADAA	2248	071020	PH00AAAA	2251	145300	IMSON
2243	203500	SH16M02X	2243	220700	SH16M02X	2244	162804	AHV71582	2248	071024	AHV71582	2251	145316	T816R01
2243	203600	SH16M03X	2243	220800	SH16M03X	2244	182100	STOPIT	2248	081000	STOPIT	2251	145320	PH00AAAA
2243	203700	SH16M02X	2243	220900	SH16M02X	2244	212100	APPON	2248	105500	APPON	2251	145324	AHV71582
2243	203800	SH16M03X	2243	221000	SH16M03X	2244	212116	M133301	2248	105516	T816R01	2251	214400	STOPIT

2252	000000	APPON	2255	143800	T816Q03X	2255	161000	T816Q04X	2255	174300	T816Q05X	2255	191500	T816Q03X
2252	000016	T816R01	2255	143900	T816Q02X	2255	161100	T816Q02X	2255	174400	T816Q02X	2255	191600	T816Q02X
2252	000020	PH80AAAA	2255	144000	T816Q04X	2255	161200	T816Q05X	2255	174500	T816Q03X	2255	191700	T816Q04X
2252	000024	AHV71582	2255	144100	T816Q02X	2255	161300	T816Q02X	2255	174600	T816Q02X	2255	191800	T816Q02X
2252	012500	STOPIT	2255	144200	T816Q05X	2255	161400	T816Q03X	2255	174700	T816Q04X	2255	191900	T816Q05X
2252	022500	APPON	2255	144300	T816Q02X	2255	161500	T816Q02X	2255	174800	T816Q02X	2255	192000	T816Q02X
2252	022516	SH16M01	2255	144400	T816Q03X	2255	161600	T816Q04X	2255	174900	T816Q05X	2255	192100	T816Q03X
2252	022520	PH80ADAA	2255	144500	T816Q02X	2255	161700	T816Q02X	2255	175000	T816Q02X	2255	192200	T816Q02X
2252	022524	AHV71582	2255	144600	T816Q04X	2255	161800	T816Q05X	2255	175100	T816Q03X	2255	192300	T816Q04X
2252	062300	STOPIT	2255	144700	T816Q02X	2255	161900	T816Q02X	2255	175200	T816Q02X	2255	192400	T816Q02X
2252	071000	IMSON	2255	144800	T816Q05X	2255	162000	T816Q03X	2255	175300	T816Q04X	2255	192500	T816Q05X
2252	071016	T816R01	2255	144900	T816Q02X	2255	162100	T816Q02X	2255	175400	T816Q02X	2255	192600	T816Q02X
2252	071020	PH00AAAA	2255	145000	T816Q03X	2255	162200	T816Q04X	2255	175500	T816Q05X	2255	192700	T816Q03X
2252	071024	AHV71582	2255	145100	T816Q02X	2255	162300	T816Q02X	2255	175600	T816Q02X	2255	192800	T816Q02X
2252	073000	STOPIT	2255	145200	T816Q04X	2255	162400	T816Q05X	2255	175700	T816Q03X	2255	192900	T816Q04X
2252	081500	IMSON	2255	145300	T816Q02X	2255	162500	T816Q02X	2255	175800	T816Q02X	2255	193000	T816Q02X
2252	081520	PH00AAAA	2255	145400	T816Q05X	2255	162600	T816Q03X	2255	175900	T816Q04X	2255	193100	T816Q05X
2252	081524	AHV71582	2255	145500	T816Q02X	2255	162700	T816Q02X	2255	180000	T816Q02X	2255	193200	T816Q02X
2252	090600	STOPIT	2255	145600	T816Q03X	2255	162800	T816Q04X	2255	180100	T816Q05X	2255	193300	T816Q03X
2252	113100	IMSON	2255	145700	T816Q02X	2255	162900	T816Q02X	2255	180200	T816Q02X	2255	193400	T816Q02X
2252	113116	T816R01	2255	145800	T816Q04X	2255	163000	T816Q05X	2255	180300	T816Q03X	2255	193500	T816Q04X
2252	113120	PH00AAAA	2255	145900	T816Q02X	2255	163100	T816Q02X	2255	180400	T816Q02X	2255	193600	T816Q02X
2252	113124	AHV71582	2255	150000	T816Q05X	2255	163200	T816Q03X	2255	180500	T816Q04X	2255	193700	T816Q05X
2252	182200	STOPIT	2255	150100	T816Q02X	2255	163300	T816Q02X	2255	180600	T816Q02X	2255	193800	T816Q02X
2252	202200	APPON	2255	150200	T816Q03X	2255	163400	T816Q04X	2255	180700	T816Q05X	2255	193900	T816Q03X
2252	202216	T816R01	2255	150300	T816Q02X	2255	163500	T816Q02X	2255	180800	T816Q02X	2255	194000	T816Q02X
2252	202220	PH80AAAA	2255	150400	T816Q04X	2255	163600	T816Q05X	2255	180900	T816Q03X	2255	194100	T816Q04X
2252	202224	AHV71582	2255	150500	T816Q02X	2255	163700	T816Q02X	2255	181000	T816Q02X	2255	194200	T816Q02X
2252	221100	STOPIT	2255	150600	T816Q05X	2255	163800	T816Q03X	2255	181100	T816Q04X	2255	194300	T816Q05X
2253	001100	APPON	2255	150700	T816Q02X	2255	163900	T816Q02X	2255	181200	T816Q02X	2255	194400	T816Q02X
2253	001116	SH16M01	2255	150800	T816Q03X	2255	164000	T816Q04X	2255	181300	T816Q05X	2255	194500	T816Q03X
2253	001120	PH80ADAA	2255	150900	T816Q02X	2255	164100	T816Q02X	2255	181400	T816Q02X	2255	194600	T816Q02X
2253	001124	AHV71582	2255	151000	T816Q04X	2255	164200	T816Q05X	2255	181500	T816Q03X	2255	194700	T816Q04X
2253	024800	PH00ADAA	2255	151100	T816Q02X	2255	164300	T816Q02X	2255	181600	T816Q02X	2255	194800	T816Q02X
2253	024804	AHV71582	2255	151200	T816Q05X	2255	164400	T816Q03X	2255	181700	T816Q04X	2255	194900	T816Q05X
2253	050600	STOPIT	2255	151300	T816Q02X	2255	164500	T816Q02X	2255	181800	T816Q02X	2255	195000	T816Q02X
2253	061300	APPON	2255	151400	T816Q03X	2255	164600	T816Q04X	2255	181900	T816Q05X	2255	195100	T816Q03X
2253	061316	T816R01	2255	151500	T816Q02X	2255	164700	T816Q02X	2255	182000	T816Q02X	2255	195200	T816Q02X
2253	061320	PH80AAAA	2255	151600	T816Q04X	2255	164800	T816Q05X	2255	182100	T816Q03X	2255	195300	T816Q04X
2253	061324	AHV71582	2255	151700	T816Q02X	2255	164900	T816Q02X	2255	182200	T816Q02X	2255	195400	T816Q02X
2253	094200	STOPIT	2255	151800	T816Q05X	2255	165000	T816Q03X	2255	182300	T816Q04X	2255	195500	T816Q05X
2253	113300	APPON	2255	151900	T816Q02X	2255	165100	T816Q02X	2255	182400	T816Q02X	2255	195600	T816Q02X
2253	113316	M133301	2255	152000	T816Q03X	2255	165200	T816Q04X	2255	182500	T816Q05X	2255	195700	T816Q03X
2253	113416	SSN8V01X	2255	152100	T816Q02X	2255	165300	T816Q02X	2255	182600	T816Q02X	2255	195800	T816Q02X
2253	113420	PH80AAAA	2255	152200	T816Q04X	2255	165400	T816Q05X	2255	182700	T816Q03X	2255	195900	T816Q04X
2253	113424	AHV71582	2255	152300	T816Q02X	2255	165500	T816Q02X	2255	182800	T816Q02X	2255	200000	T816Q02X
2253	121000	PH00AAAA	2255	152400	T816Q05X	2255	165600	T816Q03X	2255	182900	T816Q04X	2255	200100	T816Q05X
2253	121004	AHV71582	2255	152500	T816Q02X	2255	165700	T816Q02X	2255	183000	T816Q02X	2255	200200	T816Q02X
2253	122700	STOPIT	2255	152600	T816Q03X	2255	165800	T816Q04X	2255	183100	T816Q05X	2255	200300	T816Q03X
2253	144800	IMSON	2255	152700	T816Q02X	2255	165900	T816Q02X	2255	183200	T816Q02X	2255	200400	T816Q02X
2253	144816	T816R01	2255	152800	T816Q04X	2255	170000	T816Q05X	2255	183300	T816Q03X	2255	200500	T816Q04X
2253	144820	PH00AAAA	2255	152900	T816Q02X	2255	170100	T816Q02X	2255	183400	T816Q02X	2255	200600	T816Q02X
2253	144824	AHV71582	2255	153000	T816Q05X	2255	170200	T816Q03X	2255	183500	T816Q04X	2255	200700	T816Q05X
2253	213900	STOPIT	2255	153100	T816Q02X	2255	170300	T816Q02X	2255	183600	T816Q02X	2255	200800	T816Q02X
2254	001100	IMSON	2255	153200	T816Q03X	2255	170400	T816Q04X	2255	183700	T816Q05X	2255	200900	T816Q03X
2254	001116	M204001	2255	153300	T816Q02X	2255	170500	T816Q02X	2255	183800	T816Q02X	2255	201000	T816Q02X
2254	001120	AHV71582	2255	153400	T816Q04X	2255	170600	T816Q05X	2255	183900	T816Q03X	2255	201100	T816Q04X
2254	011400	STOPIT	2255	153500	T816Q02X	2255	170700	T816Q02X	2255	184000	T816Q02X	2255	201200	T816Q02X
2254	022400	APPON	2255	153600	T816Q05X	2255	170800	T816Q03X	2255	184100	T816Q04X	2255	201300	T816Q05X
2254	022416	T816R01	2255	153700	T816Q02X	2255	170900	T816Q02X	2255	184200	T816Q02X	2255	201400	T816Q02X
2254	022420	PH80AAAA	2255	153800	T816Q03X	2255	171000	T816Q04X	2255	184300	T816Q05X	2255	201500	T816Q03X
2254	022424	AHV71582	2255	153900	T816Q02X	2255	171100	T816Q02X	2255	184400	T816Q02X	2255	201600	T816Q02X
2254	083200	STOPIT	2255	154000	T816Q04X	2255	171200	T816Q05X	2255	184500	T816Q03X	2255	201700	T816Q04X
2254	113200	IMSON	2255	154100	T816Q02X	2255	171300	T816Q02X	2255	184600	T816Q02X	2255	201800	T816Q02X
2254	113216	SH16M01	2255	154200	T816Q05X	2255	171400	T816Q03X	2255	184700	T816Q04X	2255	201900	T816Q05X
2254	113220	PH00ADAA	2255	154300	T816Q02X	2255	171500	T816Q02X	2255	184800	T816Q02X	2255	202000	T816Q02X
2254	113224	AHV71582	2255	154400	T816Q03X	2255	171600	T816Q04X	2255	184900	T816Q05X	2255	202100	T816Q03X
2254	182300	STOPIT	2255	154500	T816Q02X	2255	171700	T816Q02X	2255	185000	T816Q02X	2255	202200	T816Q02X
2254	202300	IMSON	2255	154600	T816Q04X	2255	171800	T816Q05X	2255	185100	T816Q03X	2255	202300	T816Q04X
2254	202316	M204001	2255	154700	T816Q02X	2255	171900	T816Q02X	2255	185200	T816Q02X	2255	202400	T816Q02X
2254	202320	AHV71582	2255	154800	T816Q05X	2255	172000	T816Q03X	2255	185300	T816Q04X	2255	202500	T816Q05X
2254	224600	STOPIT	2255	154900	T816Q02X	2255	172100	T816Q02X	2255	185400	T816Q02X	2255	202600	T816Q02X
2255	001600	APPON	2255	155000	T816Q03X	2255	172300	T816Q04X	2255	185500	T816Q05X	2255	202700	T816Q03X
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2255	001620	PH80AAAA	2255	155200	T816Q04X	2255	172500	T816Q05X	2255	185700	T816Q03X	2255	202900	T816Q04X
2255	001624	AHV71582	2255	155300	T816Q02X	2255	172600	T816Q02X	2255	185800	T816Q02X	2255	203000	T816Q02X
2255	024700	PH00AAAA	2255	155400	T816Q05X	2255	172700	T816Q03X	2255	185900	T816Q04X	2255	203100	T816Q05X
2255	024704	AHV71582	2255	155500	T816Q02X	2255	172800	T816Q02X	2255	190000	T816Q02X	2255	203200	T816Q02X
2255	044100	STOPIT	2255	155600	T816Q03X	2255	172900	T816Q04X	2255	190100	T816Q05X	2255	203300	T816Q03X
2255	061100	IMSON	2255	155700	T816Q02X	2255	173000	T816Q02X	2255	190200	T816Q02X	2255	203400	T816Q02X
2255	061116	T816R01	2255	155800	T816Q04X	2255	173100	T816Q05X	2255	190300	T816Q03X	2255	203500	T816Q04X
2255	061120	PH00AAAA	2255	155900	T816Q02X	2255	173200	T816Q02X	2255	190400	T816Q02X	2255	203600	T816Q02X
2255	061124	AHV71582	2255	160000	T816Q05X	2255	173300	T816Q03X	2255	190500	T816Q04X	2255	203700	T816Q05X
2255	101700	STOPIT	2255	160100	T816Q02X	2255	173400	T816Q02X	2255	190600	T816Q02X	2255	203800	T816Q02X
2255	114100	IMSON	2255	160200	T816Q03X	2255	173500	T816Q04X	2255	190700	T816Q05X	2255	203900	T816Q03X
2255	114116	T816R01	2255	160300	T816Q02X	2255	173600	T816Q02X	2255	190800	T816Q02X	2255	204000	T816Q02X
2255	114120	PH00AAAA	2255	160400	T816Q04X	2255	173700	T816Q05X	2255	190900	T816Q03X	2255	204100	T816Q04X
2255	114124	AHV71582	2255	160500	T816Q02X	2255	173800	T816Q02X	2255	191000	T816Q02X	2255	204200	T816Q02X
2255	220600	STOPIT	2255	160600	T816Q05X	2255	173900	T816Q03X	2255	191100	T816Q04X	2255	204300	T816Q05X
2255	143600	APPON	2255	160700	T816Q02X	2255	174000	T816Q02X	2255	191200	T816Q02X	2255	204400	T816Q02X
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2255	204700	T816Q04X	2258	105520	PH80AAAA	2259	024200	SH16M03X	2259	041400	SH16M03X	2262	115000	PH80AAAA
2255	204800	T816Q02X	2258	105524	AHV71582	2259	024300	SH16M02X	2259	041500	SH16M03X	2262	115004	AHV71582
2255	204900	T816Q05X	2258	120200	PH80AAAA	2259	024400	SH16M03X	2259	041700	SH16M03X	2262	144500	PH80AAAA
2255	205000	T816Q02X	2258	120204	AHV71582	2259	024500	SH16M03X	2259	041800	STOPIT	2262	144504	AHV71582
2255	205100	T816Q03X	2258	145600	PH80AAAA	2259	024600	SH16M03X	2259	055900	IMSON	2262	151200	PH80AAAA
2255	205200	T816Q02X	2258	145604	AHV71582	2259	024700	SH16M03X	2259	055916	T816R01	2262	151204	AHV71582
2255	205300	T816Q04X	2258	152300	PH80AAAA	2259	024800	SH16M03X	2259	055920	PH80AAAA	2262	154500	STOPIT
2255	205400	T816Q02X	2258	152304	AHV71582	2259	024900	SH16M03X	2259	055924	AHV71582	2262	164000	APPON
2255	205500	T816Q05X	2258	155000	PH80AAAA	2259	025000	SH16M03X	2259	124700	STOPIT	2262	164016	SH16M01
2255	205600	T816Q02X	2258	155004	AHV71582	2259	025100	SH16M03X	2259	152700	APPON	2262	164020	PH80ADAA
2255	205700	T816Q03X	2258	174600	STOPIT	2259	025200	SH16M03X	2259	152716	INSPR10	2262	164024	AHV71582
2255	205800	T816Q02X	2258	194600	APPON	2259	025300	SH16M03X	2259	152720	AHV71582	2262	212500	STOPIT
2255	205900	T816Q04X	2258	194616	M133301	2259	025400	SH16M03X	2259	185500	PH80ADDT	2262	232700	IMSON
2255	210000	T816Q02X	2258	194716	SSNPV01X	2259	025500	SH16M03X	2259	185504	AHV71582	2262	232716	T816R01
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2255	210200	T816Q02X	2258	194724	AHV71582	2259	025700	SH16M03X	2260	003500	APPON	2262	232724	AHV71582
2255	210300	T816Q03X	2258	221400	PH80AAAA	2259	025800	SH16M03X	2260	003516	M133301	2263	040100	STOPIT
2255	210400	T816Q02X	2258	221404	AHV71582	2259	025900	SH16M03X	2260	003520	SSNPV01X	2263	062000	IMSON
2255	210500	T816Q04X	2258	224700	STOPIT	2259	030000	SH16M03X	2260	003600	PH80AAAA	2263	062116	T816R01
2255	210600	T816Q02X	2259	013000	APPON	2259	030100	SH16M03X	2260	003604	AHV71582	2263	062120	PH80AAAA
2255	210700	T816Q05X	2259	013016	SH16M01	2259	030200	SH16M03X	2260	005500	STOPIT	2263	062124	AHV71582
2255	210800	T816Q02X	2259	013100	SH16M02X	2259	030300	SH16M03X	2260	015500	APPON	2263	094500	STOPIT
2255	210900	T816Q03X	2259	013200	SH16M03X	2259	030400	SH16M03X	2260	015516	M133301	2263	104500	APPON
2255	211000	T816Q02X	2259	013300	SH16M02X	2259	030500	SH16M03X	2260	015520	PH80AAAA	2263	104516	M133301
2255	211100	T816Q04X	2259	013400	SH16M03X	2259	030600	SH16M03X	2260	015524	AHV71582	2263	104520	SSNPV01X
2255	211200	T816Q02X	2259	013500	SH16M02X	2259	030700	SH16M03X	2260	021400	PH80AAAA	2263	104620	PH80AAAA
2255	211300	T816Q05X	2259	013600	SH16M03X	2259	030800	SH16M03X	2260	021404	AHV71582	2263	104624	AHV71582
2255	211400	T816Q02X	2259	013700	SH16M02X	2259	030900	SH16M03X	2260	064500	STOPIT	2263	114400	PH80AAAA
2255	211500	T816Q03X	2259	013800	SH16M03X	2259	031000	SH16M03X	2260	090000	APPON	2263	114404	AHV71582
2255	211600	T816Q02X	2259	013900	SH16M02X	2259	031100	SH16M03X	2260	090016	T816R01	2263	120000	STOPIT
2255	211700	T816Q04X	2259	014000	SH16M03X	2259	031200	SH16M03X	2260	090020	PH80AAAA	2263	144100	APPON
2255	211800	T816Q02X	2259	014100	SH16M02X	2259	031300	SH16M03X	2260	090024	AHV71582	2263	144116	SH16M01
2255	211900	T816Q05X	2259	014200	SH16M03X	2259	031400	SH16M03X	2260	115000	PH80AAAA	2263	144120	PH80ADAA
2255	212000	T816Q02X	2259	014300	SH16M02X	2259	031500	SH16M03X	2260	115004	AHV71582	2263	144124	AHV71582
2255	212100	T816Q03X	2259	014400	SH16M03X	2259	031600	SH16M03X	2260	145000	PH80AAAA	2263	145700	PH80ADAA
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2255	212300	T816Q04X	2259	014600	SH16M03X	2259	031800	SH16M03X	2260	151700	PH80AAAA	2263	180900	PH80ADAA
2255	212400	T816Q02X	2259	014700	SH16M02X	2259	031900	SH16M03X	2260	151704	AHV71582	2263	180904	AHV71582
2255	212500	T816Q05X	2259	014800	SH16M03X	2259	032000	SH16M03X	2260	155100	STOPIT	2263	183500	PH80ADAA
2255	212600	T816Q02X	2259	014900	SH16M02X	2259	032100	SH16M03X	2260	165100	APPON	2263	183504	AHV71582
2255	212700	STOPIT	2259	015000	SH16M03X	2259	032200	SH16M03X	2260	165116	SH16M01	2263	190500	PH80ADAA
2256	000600	IMSON	2259	015100	SH16M02X	2259	032300	SH16M03X	2260	165120	PH80ADAA	2263	190504	AHV71582
2256	000616	M204001	2259	015200	SH16M03X	2259	032400	SH16M03X	2260	165124	AHV71582	2263	213200	STOPIT
2256	000620	AHV71582	2259	015300	SH16M02X	2259	032500	SH16M03X	2260	213000	STOPIT	2263	234800	APPON
2256	010900	STOPIT	2259	015400	SH16M03X	2259	032600	SH16M03X	2260	233200	IMSON	2263	234816	M133301
2256	021900	APPON	2259	015500	SH16M02X	2259	032700	SH16M03X	2260	233216	T816R01	2263	234920	SSNPV01X
2256	021916	T816R01	2259	015600	SH16M03X	2259	032800	SH16M03X	2260	233220	PH80AAAA	2263	234924	PH80AAAA
2256	021920	PH80AAAA	2259	015700	SH16M02X	2259	032900	SH16M03X	2260	233224	AHV71582	2263	234924	AHV71582
2256	021924	AHV71582	2259	015800	SH16M03X	2259	033000	SH16M03X	2261	042600	STOPIT	2264	012900	PH80AAAA
2256	082700	STOPIT	2259	015900	SH16M02X	2259	033100	SH16M03X	2261	062000	IMSON	2264	012904	AHV71582
2256	112700	IMSON	2259	020000	SH16M03X	2259	033200	SH16M03X	2261	062016	T816R01	2264	020200	PH80AAAA
2256	112716	SH16M01	2259	020100	SH16M02X	2259	033300	SH16M03X	2261	062020	PH80AAAA	2264	020204	AHV71582
2256	112720	PH80ADAA	2259	020200	SH16M03X	2259	033400	SH16M03X	2261	062024	AHV71582	2264	063500	STOPIT
2256	112724	AHV71582	2259	020300	SH16M02X	2259	033500	SH16M03X	2261	095000	STOPIT	2264	073500	APPON
2256	181800	STOPIT	2259	020400	SH16M03X	2259	033600	SH16M03X	2261	105000	APPON	2264	073516	M133301
2256	201800	IMSON	2259	020500	SH16M02X	2259	033700	SH16M03X	2261	105016	M133301	2264	073620	SSNPV01X
2256	201816	M204001	2259	020600	SH16M03X	2259	033800	SH16M03X	2261	105110	SSNPV01X	2264	073620	PH80AAAA
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2256	224100	STOPIT	2259	020800	SH16M03X	2259	034000	SH16M03X	2261	105124	AHV71582	2264	081800	PH80AAAA
2257	004100	APPON	2259	020900	SH16M02X	2259	034100	SH16M03X	2261	114900	PH80AAAA	2264	081804	AHV71582
2257	004116	SH16M01	2259	021000	SH16M03X	2259	034200	SH16M03X	2261	114904	AHV71582	2264	084500	STOPIT
2257	004120	PH80ADAA	2259	021100	SH16M02X	2259	034300	SH16M03X	2261	121100	STOPIT	2264	104500	IMSON
2257	004124	AHV71582	2259	021200	SH16M03X	2259	034400	SH16M03X	2261	144600	APPON	2264	104516	SH16M01
2257	034700	STOPIT	2259	021300	SH16M02X	2259	034500	SH16M03X	2261	144616	SH16M01	2264	104520	PH80ADAA
2257	053800	APPON	2259	021400	SH16M03X	2259	034600	SH16M03X	2261	144620	PH80ADAA	2264	104524	AHV71582
2257	053816	T816R01	2259	021500	SH16M02X	2259	034700	SH16M03X	2261	144624	AHV71582	2264	173600	STOPIT
2257	053820	PH80AAAA	2259	021600	SH16M03X	2259	034800	SH16M03X	2261	150900	PH80ADAA	2264	192000	IMSON
2257	053824	AHV71582	2259	021700	SH16M02X	2259	034900	SH16M03X	2261	150904	AHV71582	2264	192016	T816R01
2257	114300	STOPIT	2259	021800	SH16M03X	2259	035000	SH16M03X	2261	161400	PH80ADAA	2264	192020	PH80AAAA
2257	145300	APPON	2259	021900	SH16M02X	2259	035100	SH16M03X	2261	161404	AHV71582	2264	192024	AHV71582
2257	145316	M133301	2259	022000	SH16M03X	2259	035200	SH16M03X	2261	164000	PH80ADAA	2264	212000	STOPIT
2257	145416	SSNPV01X	2259	022100	SH16M02X	2259	035300	SH16M03X	2261	164004	AHV71582	2264	232900	IMSON
2257	145420	PH80AAAA	2259	022200	SH16M03X	2259	035400	SH16M03X	2261	192000	PH80ADAA	2264	232916	SH16M01
2257	145424	AHV71582	2259	022300	SH16M02X	2259	035500	SH16M03X	2261	192004	AHV71582	2264	232920	PH80ADAA
2257	185000	PH80AAAA	2259	022400	SH16M03X	2259	035600	SH16M03X	2261	213700	STOPIT	2264	232924	AHV71582
2257	185004	AHV71582	2259	022500	SH16M02X	2259	035700	SH16M03X	2262	003000	APPON	2265	041700	STOPIT
2257	192000	PH80AAAA	2259	022600	SH16M03X	2259	035800	SH16M03X	2262	003016	M133301	2265	061700	APPON
2257	192004	AHV71582	2259	022700	SH16M02X	2259	035900	SH16M03X	2262	003110	SSNPV01X	2265	061716	T816R01
2257	214400	STOPIT	2259	022800	SH16M03X	2259	040000	SH16M03X	2262	003120	PH80AAAA	2265	061720	PH80AAAA
2258	003000	IMSON	2259	022900	SH16M02X	2259	040100	SH16M03X	2262	003124	AHV71582	2265	061724	AHV71582
2258	003016	T816R01	2259	023000	SH16M03X	2259	040200	SH16M03X	2262	005000	STOPIT	2265	113800	PH80AAAA
2258	003020	PH80AAAA	2259	023100	SH16M02X	2259	040300	SH16M03X	2262	015000	APPON	2265	113804	AHV71582
2258	003024	AHV71582	2259	023200	SH16M03X	2259	040400	SH16M03X	2262	015016	M133301	2265	120800	PH80AAAA
2258	013000	STOPIT	2259	023300	SH16M02X	2259	040500	SH16M03X	2262	015020	PH80AAAA	2265	120804	AHV71582
2258	021400	APPON	2259	023400	SH16M03X	2259	040600	SH16M03X	2262	015024	AHV71582	2265	123000	STOPIT
2258	021416	M133301	2259	023500	SH16M02X	2259	040700	SH16M03X	2262	020900	PH80AAAA	2265	140000	APPON
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2278	195200	SH16M02X
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2278	212920	PH80ADAA
2278	212924	AHV71582
2278	214300	STOPIT
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2278	230816	SH16M01
2278	230820	PH80ADAA
2278	230824	AHV71582
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2279	050400	APPON
2279	050416	T816R01
2279	050420	PH80AAAA
2279	050424	AHV71582
2279	090000	STOPIT
2279	104100	APPON
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2279	104224	AHV71582
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2279	105804	AHV71582
2279	113200	PH80AAAA
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2279	145516	T816R01
2279	145520	PH80AAAA
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2279	153520	AHV71582
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2280	000224	AHV71582
2280	002200	STOPIT
2280	012000	APPON
2280	012016	T816R01
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2280	012024	AHV71582
2280	045800	STOPIT
2280	061700	APPON
2280	061716	T816R01
2280	061720	PH80AAAA
2280	061724	AHV71582
2280	070000	STOPIT
2280	090500	APPON
2280	090516	T816R01
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2280	142404	AHV71582
2280	145400	PH80AAAA
2280	145404	AHV71582
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2280	170016	SH16M01
2280	170020	PH80ADAA
2280	170024	AHV71582
2280	194800	STOPIT
2280	212400	IMSON
2280	212416	SH16M01
2280	212420	PH80ADAA
2280	212424	AHV71582
2280	213600	STOPIT
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2281	045216	T816R01
2281	045220	PH80AAAA
2281	045224	AHV71582
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2281	101816	SSNRV01X
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2281	133024	AHV71582
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2281	182000	PH80AAAA
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2282	102000	IMSON
2282	102016	T816R01
2282	102020	PH80AAAA
2282	102024	AHV71582
2282	171100	STOPIT
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2282	181116	SH16M01
2282	181120	PH80ADAA
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2282	233300	APPON
2282	233316	T816R01
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2283	040800	STOPIT
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2283	044720	PH80AAAA
2283	044724	AHV71582
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2283	101324	AHV71582
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2283	115500	STOPIT
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2283	132516	T816R01
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2283	132524	AHV71582
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2284	101516	T816R01
2284	101520	PH80AAAA
2284	101524	AHV71582
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2284	180620	PH80ADAA
2284	180624	AHV71582
2284	200600	STOPIT
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2284	215616	SH16M01
2284	215620	PH80ADAA
2284	215624	AHV71582
2284	235300	STOPIT
2285	013000	APPON
2285	013016	SH16M01
2285	013020	PH80ADAA
2285	013024	AHV71582
2285	040100	STOPIT
2285	060000	APPON
2285	060016	T816R01
2285	060020	PH80AAAA
2285	060024	AHV71582
2285	104400	PH80AAAA
2285	104404	AHV71582
2285	111000	STOPIT
2285	130900	IMSON
2285	130916	T816R01
2285	130920	PH80AAAA
2285	130924	AHV71582
2285	200000	STOPIT
2285	231500	APPON
2285	231516	T816R01
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2286	004724	AHV71582	2287	140200	T816Q04X	2287	153400	T816Q05X	2287	170700	T816Q03X	2287	183900	T816Q04X
2286	010800	PH80AAAA	2287	140300	T816Q02X	2287	153500	T816Q02X	2287	170800	T816Q02X	2287	184000	T816Q02X
2286	010801	AHV71582	2287	140400	T816Q05X	2287	153600	T816Q03X	2287	170900	T816Q04X	2287	184100	T816Q05X
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2286	054700	IMSON	2287	140600	T816Q03X	2287	153800	T816Q04X	2287	171100	T816Q05X	2287	184300	T816Q03X
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2286	134116	SSN8V01X	2287	141200	T816Q03X	2287	154400	T816Q04X	2287	171700	T816Q05X	2287	184900	T816Q03X
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2286	134124	AHV71582	2287	141400	T816Q04X	2287	154600	T816Q05X	2287	171900	T816Q03X	2287	185100	T816Q04X
2286	140800	PH00AAAA	2287	141500	T816Q02X	2287	154700	T816Q02X	2287	172000	T816Q02X	2287	185200	T816Q02X
2286	140804	AHV71582	2287	141600	T816Q05X	2287	154800	T816Q03X	2287	172100	T816Q04X	2287	185300	T816Q05X
2286	144000	STOPIT	2287	141700	T816Q02X	2287	154900	T816Q02X	2287	172200	T816Q02X	2287	185400	T816Q02X
2286	164000	APPON	2287	141800	T816Q03X	2287	155100	T816Q04X	2287	172300	T816Q05X	2287	185500	T816Q03X
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2286	233100	STOPIT	2287	142200	T816Q05X	2287	155500	T816Q03X	2287	172700	T816Q04X	2287	185900	T816Q05X
2287	012500	APPON	2287	142300	T816Q02X	2287	155600	T816Q02X	2287	172800	T816Q02X	2287	190000	T816Q02X
2287	012516	SH16M01	2287	142400	T816Q03X	2287	155700	T816Q04X	2287	172900	T816Q05X	2287	190100	T816Q03X
2287	012520	PH80ADAA	2287	142500	T816Q02X	2287	155800	T816Q02X	2287	173000	T816Q02X	2287	190200	T816Q02X
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2287	110500	STOPIT	2287	143400	T816Q05X	2287	160700	T816Q03X	2287	173900	T816Q04X	2287	191100	T816Q05X
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2302	063804	AHV71582
2302	071200	PH80AAAA
2302	071204	AHV71582
2302	080500	STOPIT
2302	083500	APPON

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2302	083624	AHV71582
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2302	193500	IMSON
2302	193516	T816R01
2302	193520	PH00AAAA
2302	193524	AHV71582
2303	002600	STOPIT
2303	013000	APPON

2303	013016	T816R01
2303	013020	PH80AAAA
2303	013024	AHV71582
2303	020000	STOPIT
2303	030300	APPON
2303	030316	T816R01
2303	030320	PH00AAAA
2303	030324	AHV71582
2303	035000	PH80AAAA
2303	035004	AHV71582
2303	043200	STOPIT
2303	063200	APPON
2303	063216	T816R01
2303	063220	PH80AAAA
2303	063224	AHV71582
2303	083400	STOPIT
2303	101400	APPON
2303	101416	T816R01
2303	101420	PH00AAAA
2303	101424	AHV71582
2303	103200	PH80AAAA
2303	103204	AHV71582
2303	162000	STOPIT
2303	182000	APPON
2303	182016	SH16M01
2303	182020	PH80ADAA
2303	182024	AHV71582
2303	213000	STOPIT
2303	224000	APPON
2303	224016	M133301
2303	224116	SSN8V01X
2303	224120	PH80AAAA
2303	224124	AHV71582
2303	234700	PH00AAAA
2303	234704	AHV71582
2304	001700	STOPIT
2304	010000	APPON
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2304	010100	T816Q02X
2304	010200	T816Q03X
2304	010300	T816Q02X
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2304	032300	T816Q02X
2304	032400	T816Q05X
2304	032500	T816Q02X
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2304	032700	T816Q02X	2304	050000	T816Q02X	2304	063200	T816Q02X	2304	193020	PH00AAAA	2308	025616	SSNBV01X
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2304	032900	T816Q02X	2304	050200	T816Q02X	2304	063400	T816Q02X	2304	205600	PH80AAAA	2308	095500	STOPIT
2304	033000	T816Q05X	2304	050300	T816Q03X	2304	063500	T816Q04X	2304	205604	AHV71582	2308	105500	APPON
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2304	034200	T816Q05X	2304	051500	T816Q03X	2304	064700	T816Q04X	2305	093000	APPON	2308	201424	AHV71582
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2304	034400	T816Q03X	2304	051700	T816Q04X	2304	064900	T816Q05X	2305	093116	SSNBV01X	2309	013000	APPON
2304	034500	T816Q02X	2304	051800	T816Q02X	2304	065000	T816Q02X	2305	093120	PH80AAAA	2309	013016	M133301
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2304	040800	T816Q02X	2304	054000	T816Q02X	2304	071200	T816Q02X	2306	030020	AHV71582	2309	132800	APPON
2304	040900	T816Q03X	2304	054100	T816Q04X	2304	071300	T816Q05X	2306	100000	STOPIT	2309	132816	T816R01
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2304	041600	T816Q02X	2304	054800	T816Q02X	2304	072000	T816Q02X	2306	131604	AHV71582	2309	181724	AHV71582
2304	041700	T816Q04X	2304	054900	T816Q05X	2304	072100	T816Q03X	2306	135000	PH80AAAA	2310	012600	STOPIT
2304	041800	T816Q02X	2304	055000	T816Q02X	2304	072200	T816Q02X	2306	135004	AHV71582	2310	032600	APPON
2304	041900	T816Q05X	2304	055100	T816Q03X	2304	072300	T816Q04X	2306	180000	STOPIT	2310	032616	T816R01
2304	042000	T816Q02X	2304	055200	T816Q02X	2304	072400	T816Q02X	2306	201900	IMSON	2310	032620	PH80AAAA
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2311	132320	PH80AAAA
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2311	181220	PH00AAAA
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2313	095016	SH16M01
2313	095020	PH00ADAA
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2313	160824	AHV71582
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2314	132904	AHV71582
2314	171100	STOPIT
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2314	191116	T816R01
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2314	191124	AHV71582
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2314	202900	PH80AAAA
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2315	094516	SH16M01
2315	094520	PH00ADAA
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2315	160320	PH00AAAA
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2316	213720	PH80ADAA
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2317	012220	AHV71582
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2317	143924	AHV71582
2317	161400	PH00AAAA
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2317	165304	AHV71582
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2317	230000	STOPIT
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2318	002824	AHV71582
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2318	092924	AHV71582
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2318	131800	PH80AAAA
2318	131804	AHV71582
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2318	213224	AHV71582
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2319	011720	AHV71582
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2319	055720	AHV71582
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2319	164800	PH80AAAA
2319	164804	AHV71582
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2319	205520	PH00AAAA
2319	205524	AHV71582
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2320	003000	IMSON
2320	003016	T816R01
2320	003020	PH00AAAA
2320	003024	AHV71582
2320	073000	STOPIT
2320	090000	IMSON
2320	090016	SH16M01
2320	090020	PH00ADAA
2320	090024	AHV71582
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2320	150016	T816R01
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2321	080900	HI04N04X
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2321	081200	HI04N04X
2321	081300	HI04N01X
2321	081400	HI04N03X
2321	081500	HI04N04X
2321	081600	STOPIT
2321	081700	IMSON
2321	081716	SH16M01
2321	081720	PH00ADAA
2321	081724	AHV71582
2321	101500	STOPIT
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2321	114516	SH16M01
2321	114600	SH16M02X
2321	114700	SH16M03X
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2321	115300	SH16M03X
2321	115400	SH16M02X
2321	115500	SH16M03X
2321	115600	SH16M02X
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2321	143200	SH16M02X
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2321	150300	APPON
2321	150316	M133301
2321	150416	SSNPV01X
2321	150420	PHRCAAAA
2321	150424	AMV71582
2321	160400	PHRCAAAA
2321	160404	AMV71582
2321	164100	PHRCAAAA
2321	164104	AMV71582
2321	170200	STOPIT
2321	180200	APPON
2321	180216	SH16M01
2321	180220	PHRCADAA
2321	180224	AMV71582
2321	214700	STOPIT
2321	223500	APPON
2321	223516	T816P01
2321	223520	PHRCAAAA
2321	223524	AMV71582
2321	231100	STOPIT

2322	002500	IMSON
2322	002516	T816P01
2322	002520	PHRCAAAA
2322	002524	AMV71582
2322	072500	STOPIT
2322	085500	IMSON
2322	085516	SH16M01
2322	085520	PHRCADAA
2322	085524	AMV71582
2322	132500	STOPIT
2322	145500	APPON
2322	145516	CMMCL01
2322	145516	SSNPV01X
2322	145520	AMV71582
2322	215500	STOPIT
2322	233500	APPON
2322	233516	T816P01
2322	233520	PHRCAAAA
2322	233524	AMV71582
2323	011500	STOPIT
2323	012500	RFAON
2323	012516	PLPH101
2323	025500	STOPIT
2323	025500	APPON
2323	025516	T816P01
2323	025520	PHRCAAAA
2323	025524	AMV71582
2323	063500	STOPIT
2323	085500	RFAON
2323	085516	PLPH101
2323	095500	STOPIT
2323	095500	APPON
2323	095516	SH16M01
2323	095520	PHRCADAA
2323	095524	AMV71582
2323	150500	STOPIT
2323	163500	IMSON
2323	163516	T816P01
2323	163520	PHRCAAAA
2323	163524	AMV71582
2323	214500	STOPIT
2323	215500	RFAON
2323	215516	PLPH101
2323	225500	STOPIT
2323	225500	APPON
2323	225516	T816P01
2323	225520	PHRCAAAA
2323	225524	AMV71582
2323	233500	STOPIT
2323	234500	RFAON
2323	234516	PLPH101
2323	235500	STOPIT
2323	235500	APPON
2323	235516	T816P01
2323	235520	PHRCAAAA
2323	235524	AMV71582
2324	150500	STOPIT
2324	163500	IMSON
2324	163516	T816P01
2324	163520	PHRCAAAA
2324	163524	AMV71582
2324	214500	STOPIT
2324	215500	RFAON
2324	215516	PLPH101
2324	225500	STOPIT
2324	225500	APPON
2324	225516	T816P01
2324	225520	PHRCAAAA
2324	225524	AMV71582
2324	234500	STOPIT
2324	234500	RFAON
2324	234516	PLPH101
2324	235500	STOPIT
2324	235500	APPON
2324	235516	T816P01
2324	235520	PHRCAAAA
2324	235524	AMV71582
2325	000500	STOPIT
2325	000500	RFAON
2325	000516	PLPH101
2325	015500	STOPIT
2325	015500	APPON
2325	015516	T816P01
2325	015520	PHRCAAAA
2325	015524	AMV71582
2325	024500	STOPIT
2325	044500	APPON
2325	044516	INSTR10
2325	044520	AMV71582
2325	070400	STOPIT
2325	070500	RFAON
2325	070516	PLPH101
2325	084000	STOPIT
2325	084100	APPON
2325	084116	INSTR10
2325	114500	STOPIT
2325	133000	IMSON
2325	133016	T816P01
2325	133020	PHRCAAAA
2325	133024	AMV71582
2325	135500	STOPIT
2325	135500	RFAON
2325	135516	PLPH101
2325	141700	STOPIT
2325	153000	APPON
2325	153016	M133301
2325	153716	SSNPV01X
2325	153720	PHRCAAAA
2325	153724	AMV71582
2325	205500	STOPIT
2325	205500	RFAON
2325	205516	PLPH101
2325	231500	STOPIT
2325	231500	APPON
2325	231516	T816P01
2325	231520	PHRCAAAA
2325	231524	AMV71582
2326	005500	STOPIT
2326	022000	APPON
2326	022016	T816P01
2326	022020	PHRCAAAA
2326	022024	AMV71582
2326	033900	STOPIT
2326	033900	RFAON
2326	033916	PLPH101
2326	061400	STOPIT
2326	061500	APPON
2326	061516	T816P01
2326	061520	PHRCAAAA
2326	061524	AMV71582
2326	063000	STOPIT
2326	063000	APPON
2326	063016	SH16M01
2326	063020	PHRCADAA
2326	063024	AMV71582
2326	102600	STOPIT
2326	102700	RFAON
2326	102716	PLPH101
2326	120200	STOPIT
2326	120300	APPON
2326	120316	SH16M01
2326	120320	PHRCADAA
2326	120324	AMV71582
2326	123500	STOPIT
2326	143500	IMSON
2326	143516	CMMCL01
2326	143516	SSNPV01X
2326	172300	STOPIT
2326	172400	RFAON
2326	172416	PLPH101
2326	190200	STOPIT
2326	190300	IMSON
2326	190316	CMMCL01
2326	190416	SSNPV01X
2326	213500	STOPIT
2326	231000	APPON

2342	121516	T816P01
2342	121520	PHRCAAAA
2342	121524	AMV71582
2342	135500	STOPIT
2342	162500	APPON
2342	162516	SH16M01
2342	162520	PHRCADAA
2342	162524	AMV71582
2342	173200	STOPIT
2342	173300	RFAON
2342	173316	PLPH101
2342	191100	STOPIT
2342	191200	APPON
2342	191216	SH16M01
2342	191220	PHRCADAA
2342	191224	AMV71582
2342	193500	STOPIT
2342	201500	IMSON
2342	201516	T816P01
2342	201520	PHRCAAAA
2342	201524	AMV71582
2343	002000	STOPIT
2343	002700	RFAON
2343	002716	PLPH101
2343	020200	STOPIT
2343	020300	IMSON
2343	020316	T816P01
2343	020320	PHRCAAAA
2343	020324	AMV71582
2343	022000	STOPIT
2343	042000	APPON
2343	042016	T816P01
2343	042020	PHRCAAAA
2343	042024	AMV71582
2343	063700	STOPIT
2343	071700	RFAON
2343	071716	PLPH101
2343	084400	STOPIT
2343	084500	APPON
2343	084516	SH16M01
2343	084520	PHRCADAA
2343	084524	AMV71582
2343	124000	STOPIT
2343	144000	RFAON
2343	144016	PLPH101
2343	154100	STOPIT
2343	154200	APPON
2343	154216	M133301
2343	154316	SSNPV01X
2343	154320	PHRCAAAA
2343	154324	AMV71582
2343	175500	STOPIT
2343	191000	APPON
2343	191016	T816P01
2343	191020	PHRCAAAA
2343	191024	AMV71582
2343	205500	STOPIT
2343	210000	RFAON
2343	210016	PLPH101
2343	223500	STOPIT
2343	223500	APPON
2343	223516	T816P01
2343	223520	PHRCAAAA
2343	223524	AMV71582
2343	230400	STOPIT
2343	230500	RFAON
2343	230516	PLPH101
2343	235500	STOPIT
2343	235500	APPON
2343	235516	T816P01
2343	235520	PHRCAAAA
2343	235524	AMV71582
2344	000500	STOPIT
2344	022500	APPON
2344	022516	T816P01
2344	022520	PHRCAAAA
2344	022524	AMV71582
2344	034500	STOPIT
2344	034600	RFAON
2344	034616	PLPH101
2344	051500	STOPIT
2344	052000	APPON
2344	052016	T816P01
2344	052020	PHRCAAAA
2344	052024	AMV71582
2344	064100	STOPIT
2344	064100	APPON
2344	064116	SH16M01
2344	064120	PHRCADAA
2344	064124	AMV71582
2344	103000	STOPIT
2344	103200	RFAON
2344	103216	PLPH101
2344	120700	STOPIT
2344	120800	APPON
2344	120816	SH16M01
2344	120820	PHRCADAA
2344	120824	AMV71582
2344	124000	STOPIT
2344	144000	IMSON
2344	144016	CMMCL01

2344	144020	AMV71582
2344	172600	STOPIT
2344	172900	RFAON
2344	172916	PLPH101
2344	190700	STOPIT
2344	190800	IMSON
2344	190816	CMMCL01
2344	190820	AMV71582
2344	214000	STOPIT
2344	231500	APPON
2344	231516	T816P01
2344	231520	PHRCAAAA
2344	231524	AMV71582
2345	002200	STOPIT
2345	002300	RFAON
2345	002316	PLPH101
2345	015700	STOPIT
2345	015800	APPON
2345	015816	T816P01
2345	015820	PHRCAAAA
2345	015824	AMV71582
2345	024500	STOPIT
2345	044500	APPON
2345	044516	INSTR10
2345	044520	AMV71582
2345	070400	STOPIT
2345	070500	RFAON
2345	070516	PLPH101
2345	084000	STOPIT
2345	084100	APPON
2345	084116	INSTR10
2345	114500	STOPIT
2345	133000	IMSON
2345	133016	T816P01
2345	133020	PHRCAAAA
2345	133024	AMV71582
2345	135500	STOPIT
2345	135500	RFAON
2345	135516	PLPH101
2345	141700	STOPIT
2345	153000	APPON
2345	153016	M133301
2345	153716	SSNPV01X
2345	153720	PHRCAAAA
2345	153724	AMV71582
2345	205500	STOPIT
2345	205600	RFAON
2345	205616	PLPH101
2345	231500	STOPIT
2345	231500	APPON
2345	231516	T816P01
2345	231520	PHRCAAAA
2345	231524	AMV71582
2346	005500	STOPIT
2346	022000	APPON
2346	022016	T816P01
2346	022020	PHRCAAAA
2346	022024	AMV71582
2346	033900	STOPIT
2346	033900	RFAON
2346	033916	PLPH101
2346	061400	STOPIT
2346	061500	APPON
2346	061516	T816P01
2346	061520	PHRCAAAA
2346	061524	AMV71582
2346	063000	STOPIT
2346	063000	APPON
2346	063016	SH16M01
2346	063020	PHRCADAA
2346	063024	AMV71582
2346	102600	STOPIT
2346	102700	RFAON
2346	102716	PLPH101
2346	120200	STOPIT
2346	120300	APPON
2346	120316	SH16M01
2346	120320	PHRCADAA
2346	120324	AMV71582
2346	123500	STOPIT
2346	143500	IMSON
2346	143516	CMMCL01
2346	143516	SSNPV01X
2346	172300	STOPIT
2346	172400	RFAON
2346	172416	PLPH101
2346	190200	STOPIT
2346	190300	IMSON
2346	190316	CMMCL01
2346	190416	SSNPV01X
2346	213500	STOPIT
2346	231000	APPON

2346	231016	T816R01	2349	031016	SH16M01	2349	044200	SH16M03X	2349	224500	APPON	2352	101800	T816Q03X
2346	231020	PH80AAAA	2349	031100	SH16M02X	2349	044300	SH16M02X	2349	224516	M133301	2352	101900	T816Q02X
2346	231024	AHV71582	2349	031200	SH16M03X	2349	044400	SH16M03X	2349	224616	SSN8V01X	2352	102000	T816Q04X
2347	001700	STOPIT	2349	031300	SH16M02X	2349	044500	SH16M02X	2349	224620	PH80AAAA	2352	102100	T816Q02X
2347	001800	RPAON	2349	031400	SH16M03X	2349	044600	SH16M03X	2349	224624	AHV71582	2352	102200	T816Q05X
2347	001816	PLPH101	2349	031500	SH16M02X	2349	044700	SH16M02X	2350	004000	STOPIT	2352	102300	T816Q02X
2347	015200	STOPIT	2349	031600	SH16M03X	2349	044800	SH16M03X	2350	021200	IMSON	2352	102400	T816Q03X
2347	015300	APPON	2349	031700	SH16M02X	2349	044900	SH16M02X	2350	021216	T816R01	2352	102500	T816Q02X
2347	015316	T816R01	2349	031800	SH16M03X	2349	045000	SH16M03X	2350	021220	PH00AAAA	2352	102600	T816Q04X
2347	015320	PH80AAAA	2349	031900	SH16M02X	2349	045100	SH16M02X	2350	021224	AHV71582	2352	102700	T816Q02X
2347	015324	AHV71582	2349	032000	SH16M03X	2349	045200	SH16M03X	2350	032900	STOPIT	2352	102800	T816Q05X
2347	024000	STOPIT	2349	032100	SH16M02X	2349	045300	SH16M02X	2350	033000	RPAON	2352	102900	T816Q02X
2347	044000	IMSON	2349	032200	SH16M03X	2349	045400	SH16M03X	2350	033016	PLPH101	2352	103000	T816Q03X
2347	044016	M204001	2349	032300	SH16M02X	2349	045500	SH16M02X	2350	034800	STOPIT	2352	103100	T816Q02X
2347	044020	AHV71582	2349	032400	SH16M03X	2349	045600	SH16M03X	2350	051800	APPON	2352	103200	T816Q04X
2347	065900	STOPIT	2349	032500	SH16M02X	2349	045700	SH16M02X	2350	051816	T816R01	2352	103300	T816Q02X
2347	070000	RPAON	2349	032600	SH16M03X	2349	045800	SH16M03X	2350	051820	PH80AAAA	2352	103400	T816Q05X
2347	070016	PLPH101	2349	032700	SH16M02X	2349	045900	SH16M02X	2350	051824	AHV71582	2352	103500	T816Q02X
2347	083500	STOPIT	2349	032800	SH16M03X	2349	050000	SH16M03X	2350	065500	STOPIT	2352	103600	T816Q03X
2347	083600	IMSON	2349	032900	SH16M02X	2349	050100	SH16M02X	2350	083000	IMSON	2352	103700	T816Q02X
2347	083616	M204001	2349	033000	SH16M03X	2349	050200	SH16M03X	2350	083016	SH16M01	2352	103800	T816Q04X
2347	114000	STOPIT	2349	033100	SH16M02X	2349	050300	SH16M02X	2350	083020	PH00ADAA	2352	103900	T816Q02X
2347	132500	IMSON	2349	033200	SH16M03X	2349	050400	SH16M03X	2350	083024	AHV71582	2352	104000	T816Q05X
2347	132516	T816R01	2349	033300	SH16M02X	2349	050500	SH16M02X	2350	101400	STOPIT	2352	104100	T816Q02X
2347	132520	PH00AAAA	2349	033400	SH16M03X	2349	050600	SH16M03X	2350	101500	RPAON	2352	104200	T816Q03X
2347	132524	AHV71582	2349	033500	SH16M02X	2349	050700	SH16M02X	2350	101516	PLPH101	2352	104300	T816Q02X
2347	135000	STOPIT	2349	033600	SH16M03X	2349	050800	SH16M03X	2350	111700	STOPIT	2352	104400	T816Q04X
2347	135100	RPAON	2349	033700	SH16M02X	2349	050900	SH16M02X	2350	141000	APPON	2352	104500	T816Q02X
2347	135116	PLPH101	2349	033800	SH16M03X	2349	051000	SH16M03X	2350	141016	T816R01	2352	104600	T816Q05X
2347	141200	STOPIT	2349	033900	SH16M02X	2349	051100	SH16M02X	2350	141020	PH80AAAA	2352	104700	T816Q02X
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2363 033500 SH16M02X
2363 033600 SH16M03X
2363 033700 SH16M02X
2363 033800 SH16M03X
2363 033900 SH16M02X
2363 034000 SH16M03X
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2363 035600 SH16M03X
2363 035700 SH16M02X
2363 035800 SH16M03X
2363 035900 SH16M03X
2363 040100 SH16M03X
2363 040200 STOPIT
2363 052600 IMSON
2363 052616 SH16M01
2363 052620 PHPOADAA
2363 052624 AHV71582
2363 061300 STOPIT
2363 061400 RPAON
2363 061416 PLPH101
2363 075100 STOPIT
2363 075200 IMSON
2363 075216 SH16M01
2363 075220 PHPOADAA
2363 075224 AHV71582
2363 112500 STOPIT
2363 151700 APION
2363 151716 T816P01
2363 151720 PHPOAAAA
2363 151724 AHV71582
2363 200700 STOPIT
2363 200800 RPAON
2363 200816 PLPH101
2363 214500 STOPIT
2363 214600 APION
2363 214616 T816P01
2363 214620 PHPOAAAA
2363 214624 AHV71582
2363 220200 STOPIT
2364 000900 APION
2364 000916 T816P01
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2364 025300 STOPIT
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2364 043000 APION
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2364 043020 PHPOAAAA
2364 043024 AHV71582
2364 045400 STOPIT
2364 065400 APION
2364 065416 SH16M01
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2364 065424 AHV71582
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2364 093900 RPAON
2364 093916 PLPH101
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2364 111800 APION
2364 111816 SH16M01
2364 111820 PHPOADAA
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2364 135400 STOPIT
2364 154500 IMSON
2364 154516 T816P01
2364 154520 PHPOAAAA
2364 154524 AHV71582
2364 163500 STOPIT
2364 163600 RPAON
2364 163616 PLPH101
2364 181700 STOPIT
2364 181800 IMSON
2364 181816 T816P01
2364 181820 PHPOAAAA
2364 181824 AHV71582
2364 221800 STOPIT

END LISTING
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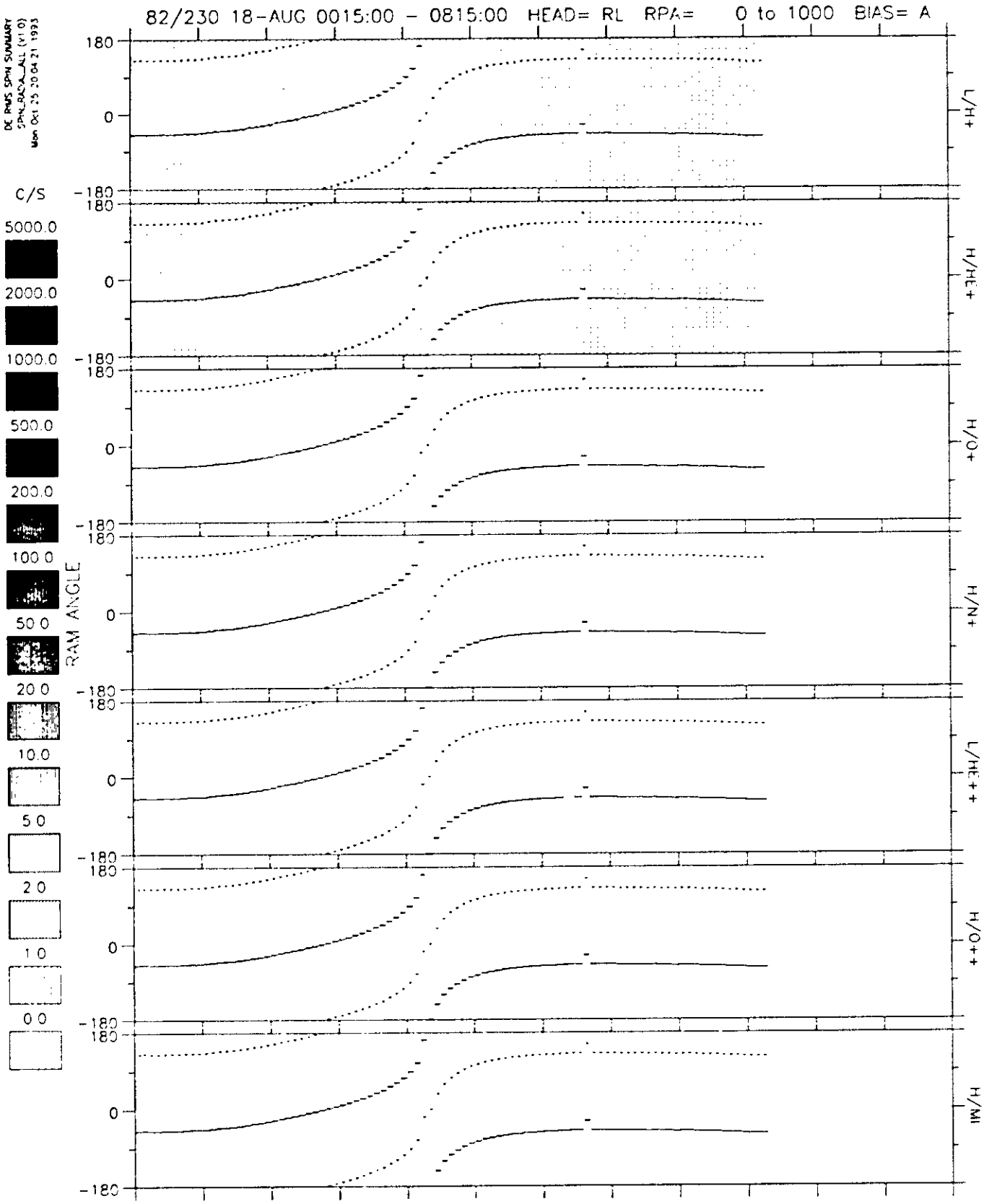
V. DE1/RIMS 1982 SUMMARY SPECTROGRAMS

Errata

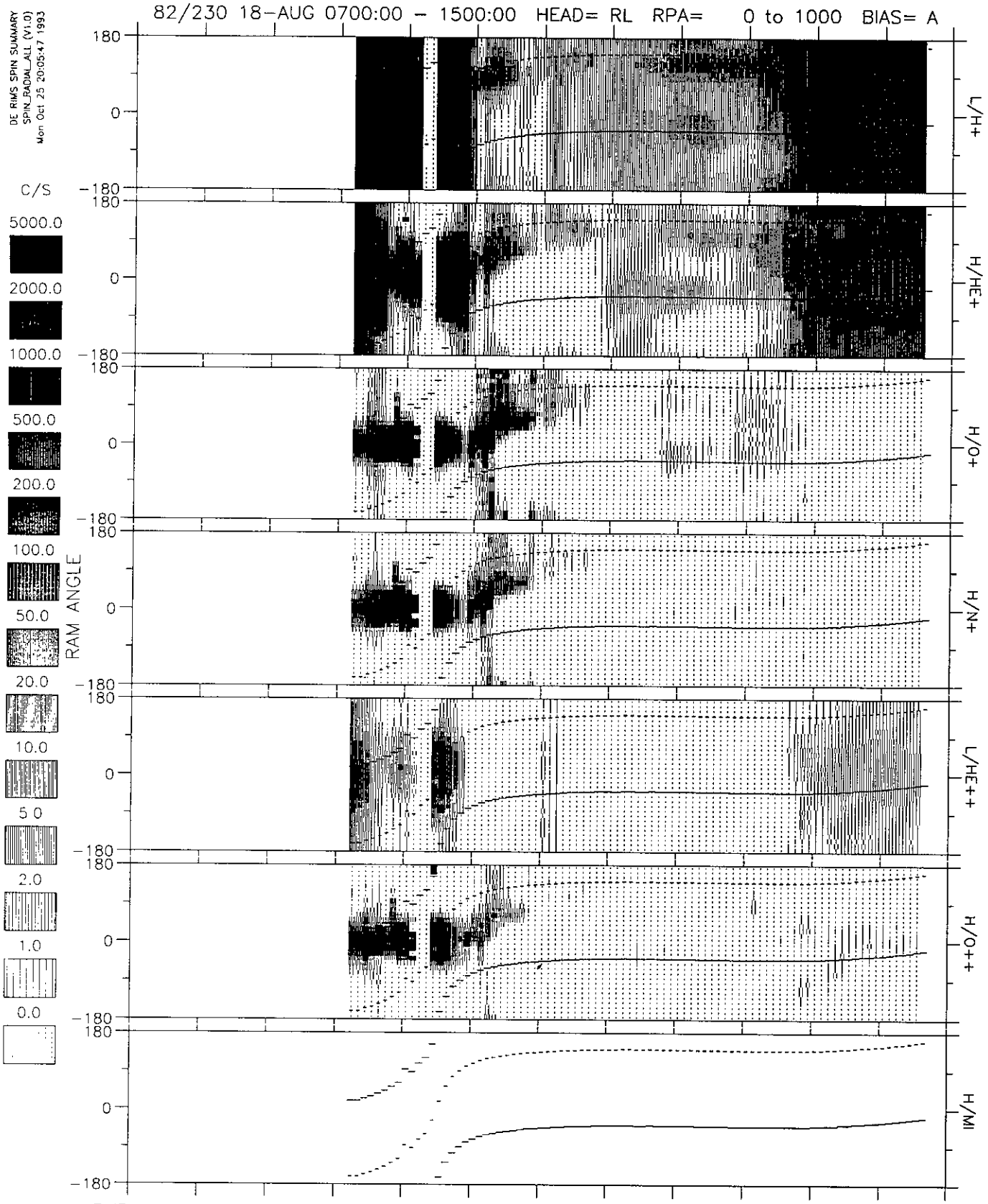
Units listed for the various orbit parameters shown at the bottom of each plot should be as follows:

TIME	HHMM
RE	RE
L	
MLT	HRS
MLAT	DEGS
INVLAT	DEGS

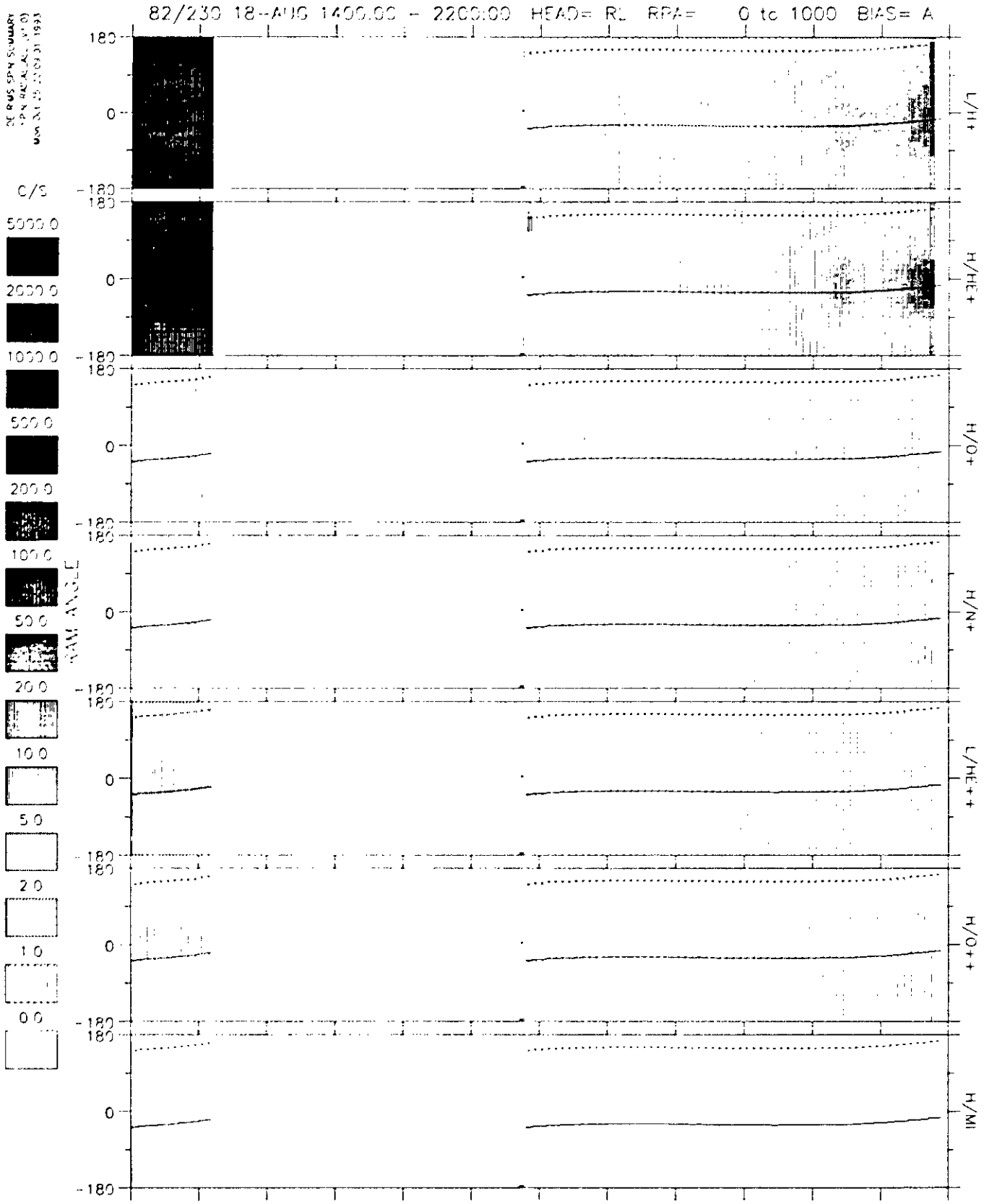
The panel labeled L/He^{++} refers to the response of the RIMS low-mass channel to the M/Z=2 mass/charge settings.



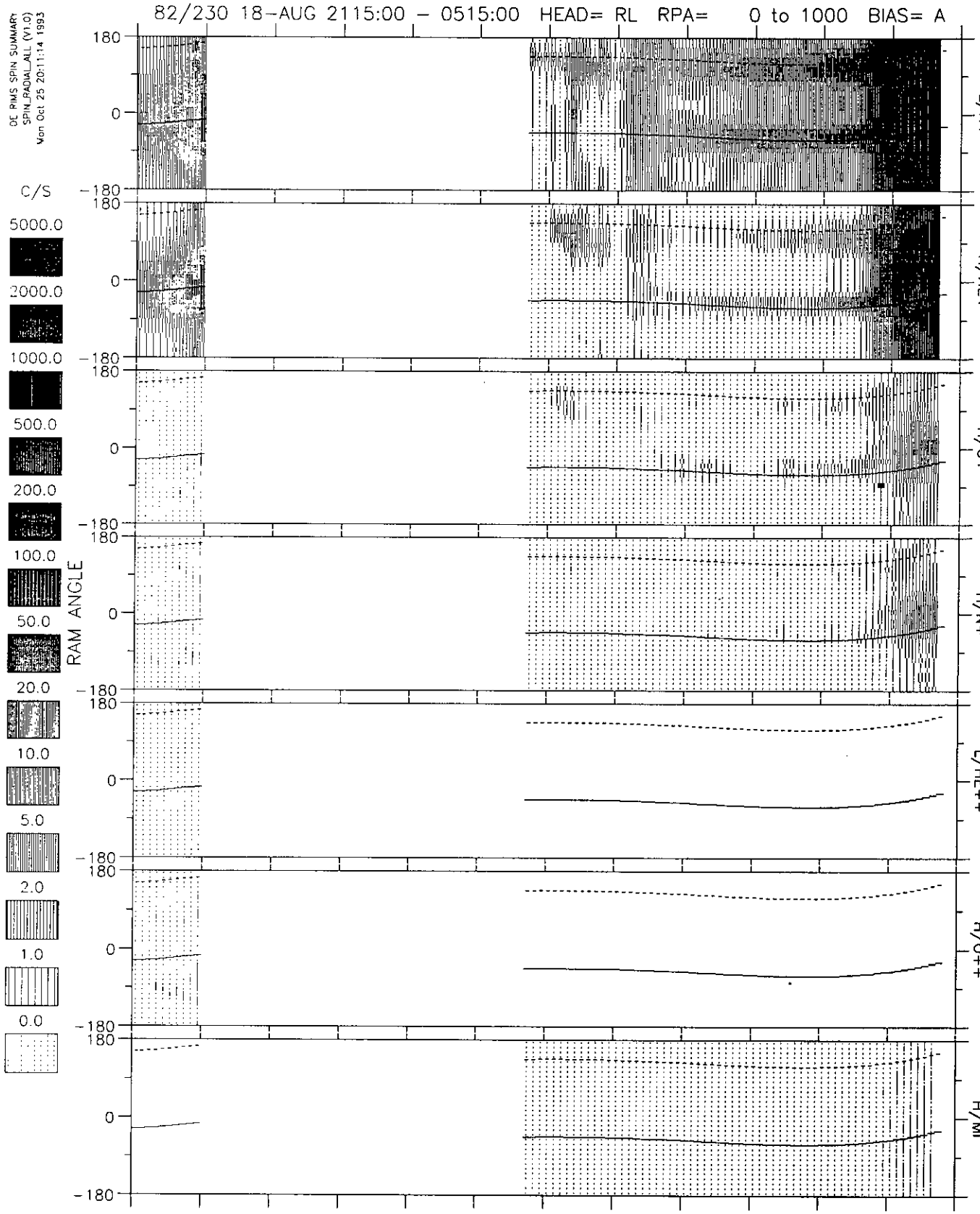
TIME	0055	0135	0215	0255	0335	0415	0455	0535	0615	0000	0000	HHMM
RE	4.1	3.4	2.3	1.1	2.1	3.2	4.0	4.5	4.7	0.0	0.0	RE
L	4.1	3.4	3.4	2.2	14.7	82.8	17.9	10.4	7.4	0.0	0.0	
MLT	13.1	12.9	12.6	1.5	23.9	14.0	13.1	12.9	12.8	0.0	0.0	HRS
MLAT	-5.37	8.39	34.12	50.84	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	60.5	57.3	57.1	47.8	74.9	83.7	76.3	71.9	68.4	0.0	0.0	DEGS



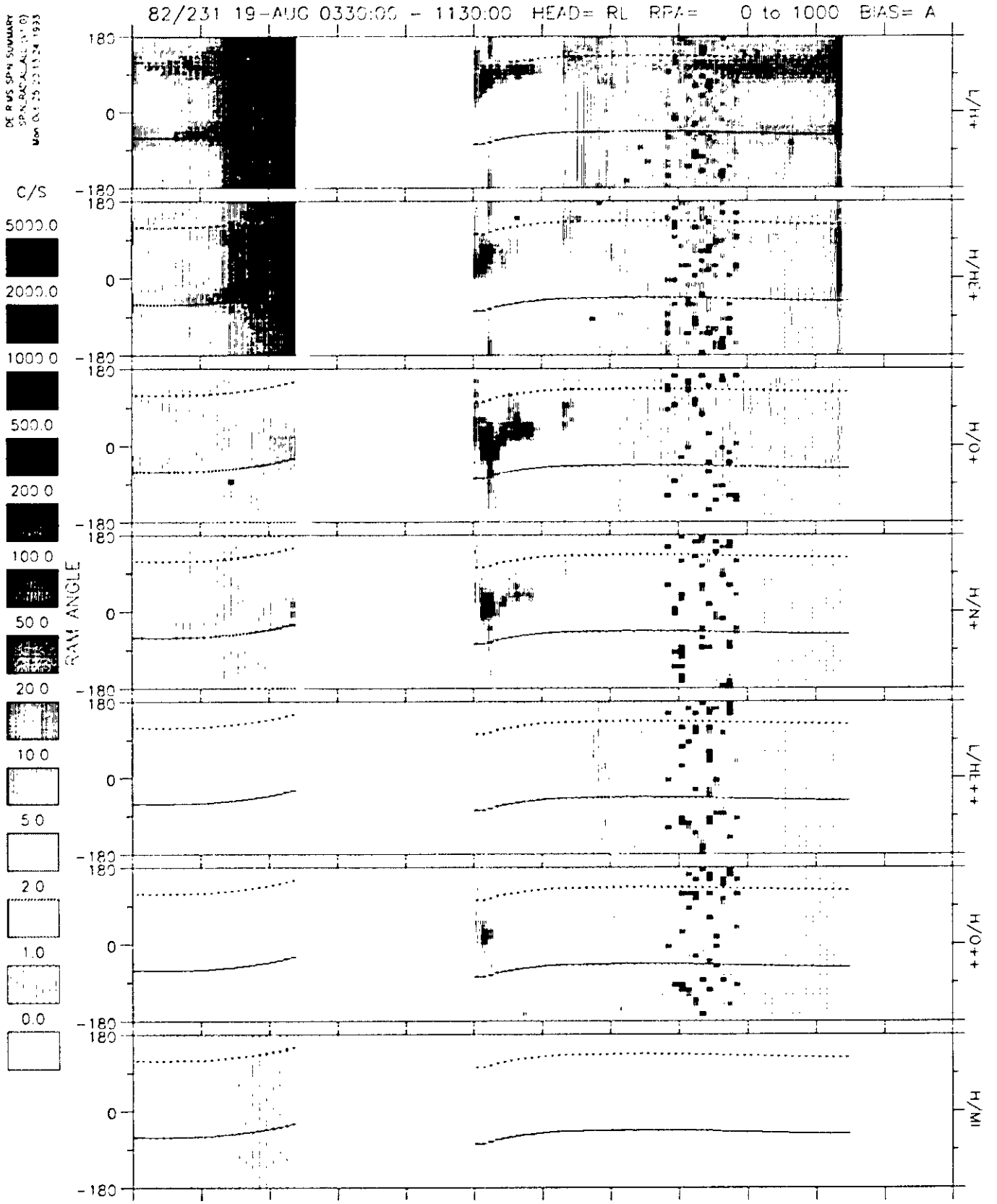
TIME	0000	0000	0000	0940	1020	1100	1140	1220	1300	1340	1420	HHMM
RE	0.0	0.0	0.0	1.3	1.9	3.1	3.9	4.4	4.6	4.6	4.3	RE
L	0.0	0.0	0.0	37.0	11.3	23.3	10.0	7.1	5.8	5.0	4.4	
MLT	0.0	0.0	0.0	21.2	2.5	10.6	11.8	12.1	12.4	12.6	12.7	HRS
MLAT	0.00	0.00	0.00	77.64	*****	*****	*****	*****	*****	*****	0.81	DEGS
INVLAT	0.0	0.0	0.0	80.4	72.7	78.0	71.6	67.9	65.4	63.3	61.5	DEGS



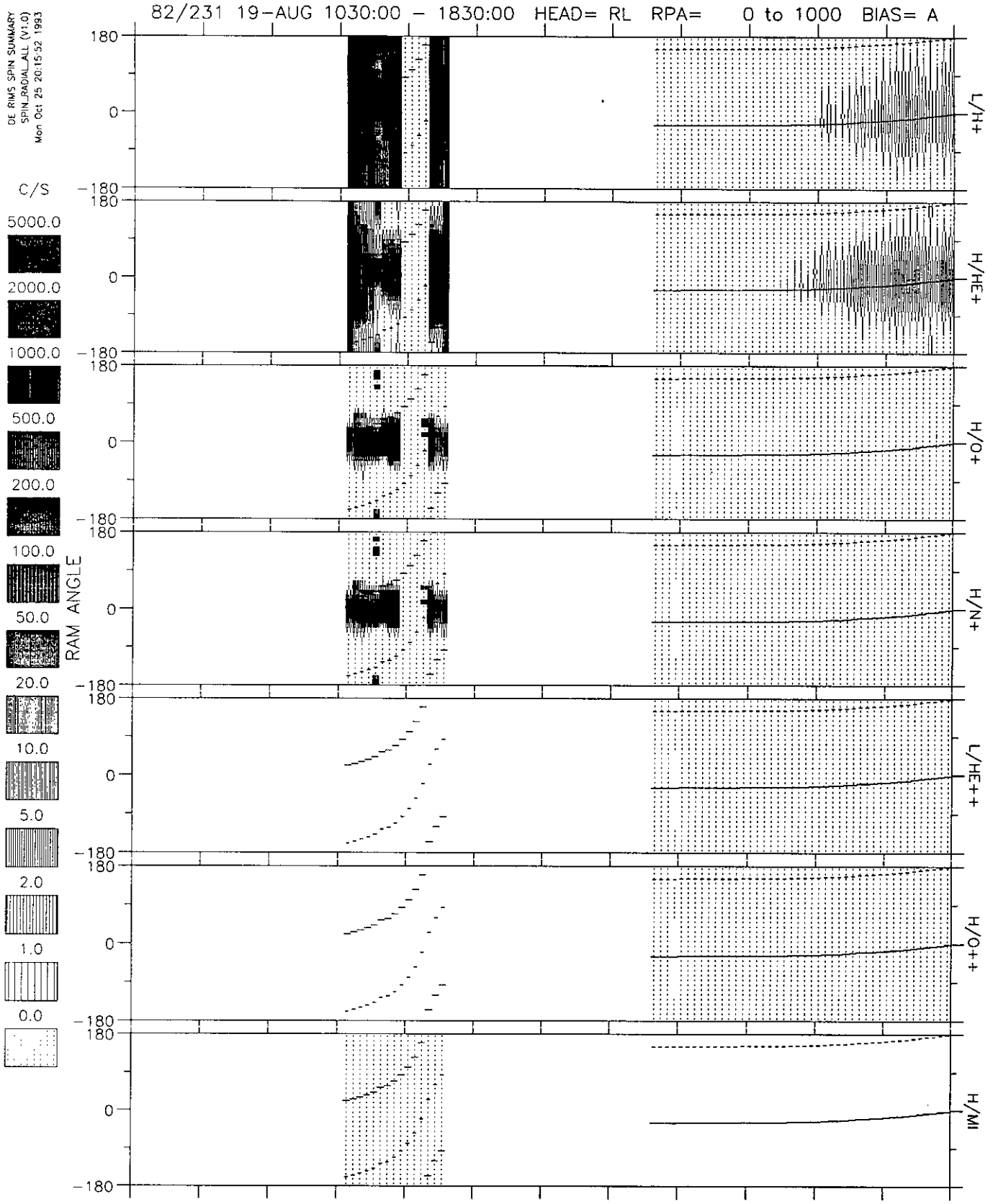
TIME	1440	0000	0000	0000	0000	1800	1840	1920	2000	2040	2120	HHMM
RE	4.1	0.0	0.0	0.0	0.0	3.3	4.1	4.5	4.7	4.6	4.2	RE
L	4.2	0.0	0.0	0.0	0.0	9.4	6.5	5.6	5.1	4.7	4.2	
MLT	12.8	0.0	0.0	0.0	0.0	13.1	13.2	13.3	13.2	13.2	13.1	HRS
MLAT	7.85	0.00	0.00	0.00	0.00	*****	*****	*****	*****	-7.76	2.14	DEGS
INVLAT	60.8	0.0	0.0	0.0	0.0	70.9	66.9	65.0	63.7	62.4	60.8	DEGS



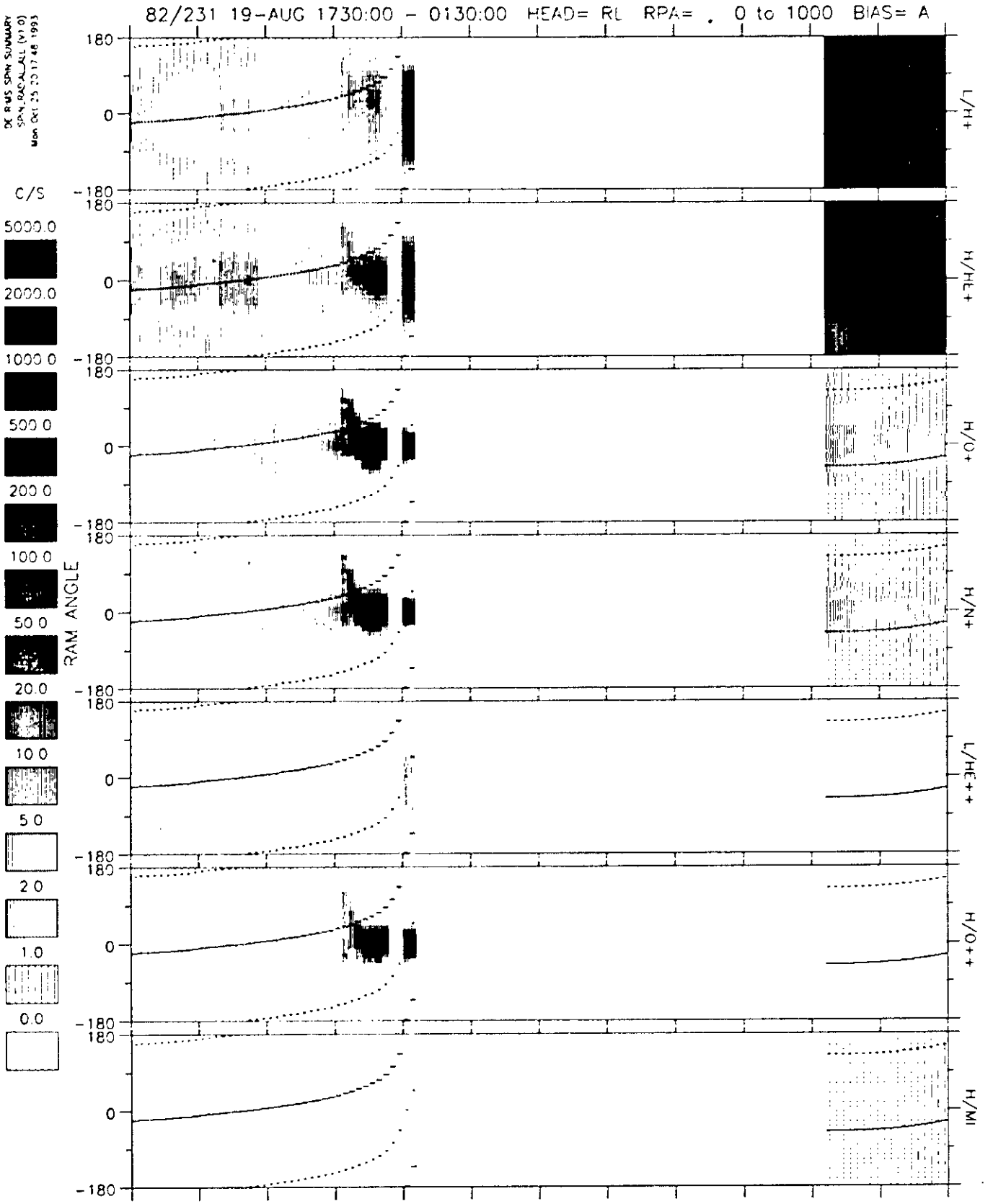
TIME	0000	0000	0000	0000	0000	0115	0155	0235	0315	0355	0435	HHMM
RE	0.0	0.0	0.0	0.0	0.0	3.8	4.4	4.6	4.6	4.4	3.9	RE
L	0.0	0.0	0.0	0.0	0.0	14.7	9.8	7.6	6.1	4.8	3.8	
MLT	0.0	0.0	0.0	0.0	0.0	14.1	13.6	13.3	13.1	13.0	12.9	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	-6.87	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	74.9	71.4	68.7	66.0	63.0	59.3	DEGS



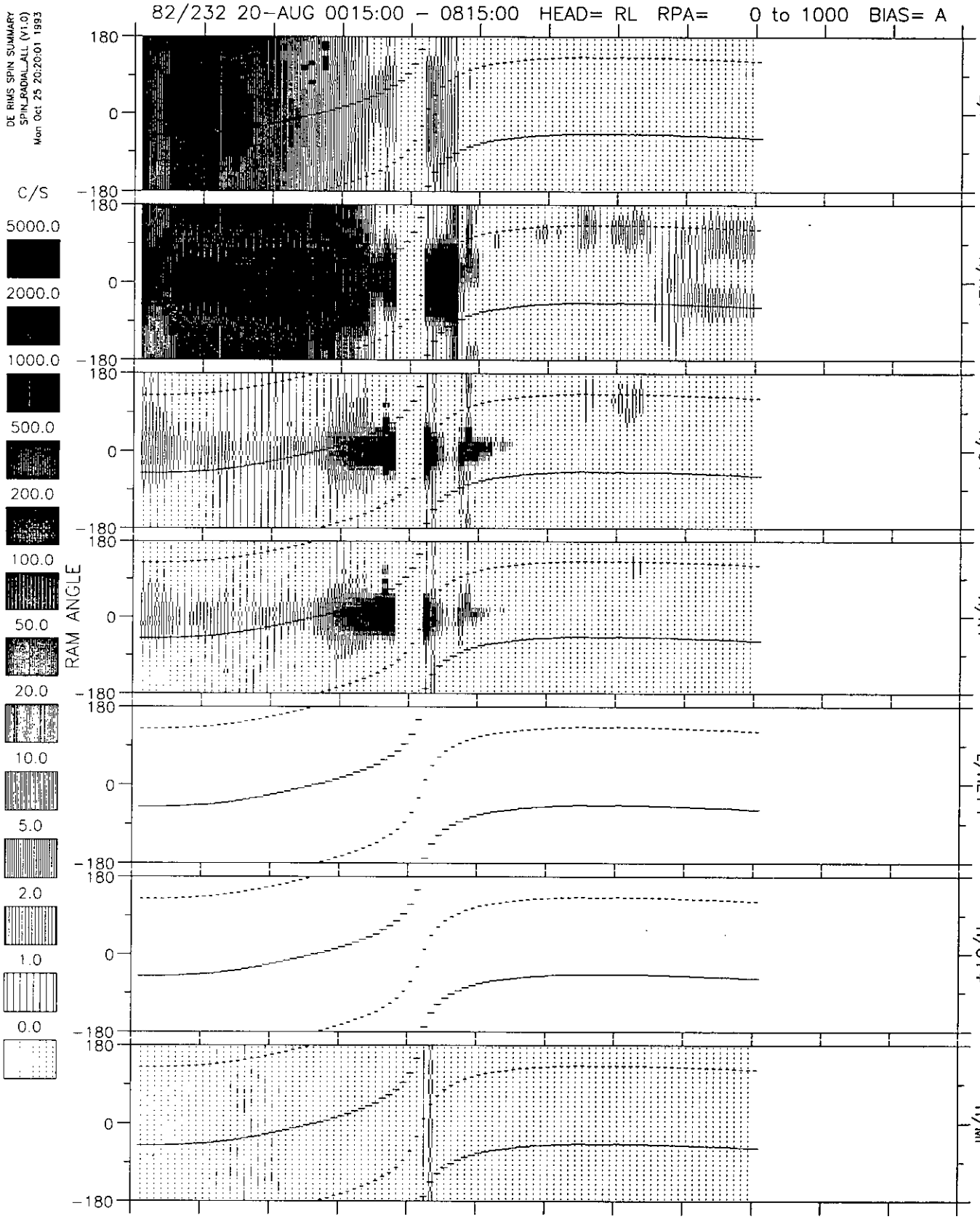
TIME	0410	0450	0000	0000	0650	0730	0810	0850	0930	1010	0000	HHMM
RE	4.2	3.6	0.0	0.0	1.8	3.0	3.9	4.4	4.6	4.6	0.0	RE
L	4.4	3.5	0.0	0.0	5.8	98.5	16.9	9.6	6.9	5.5	0.0	
MLT	12.9	12.8	0.0	0.0	1.2	10.4	11.8	12.1	12.3	12.4	0.0	HRS
MLAT	*****	-0.87	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	61.7	57.7	0.0	0.0	65.5	84.2	75.9	71.1	67.7	64.8	0.0	DEGS



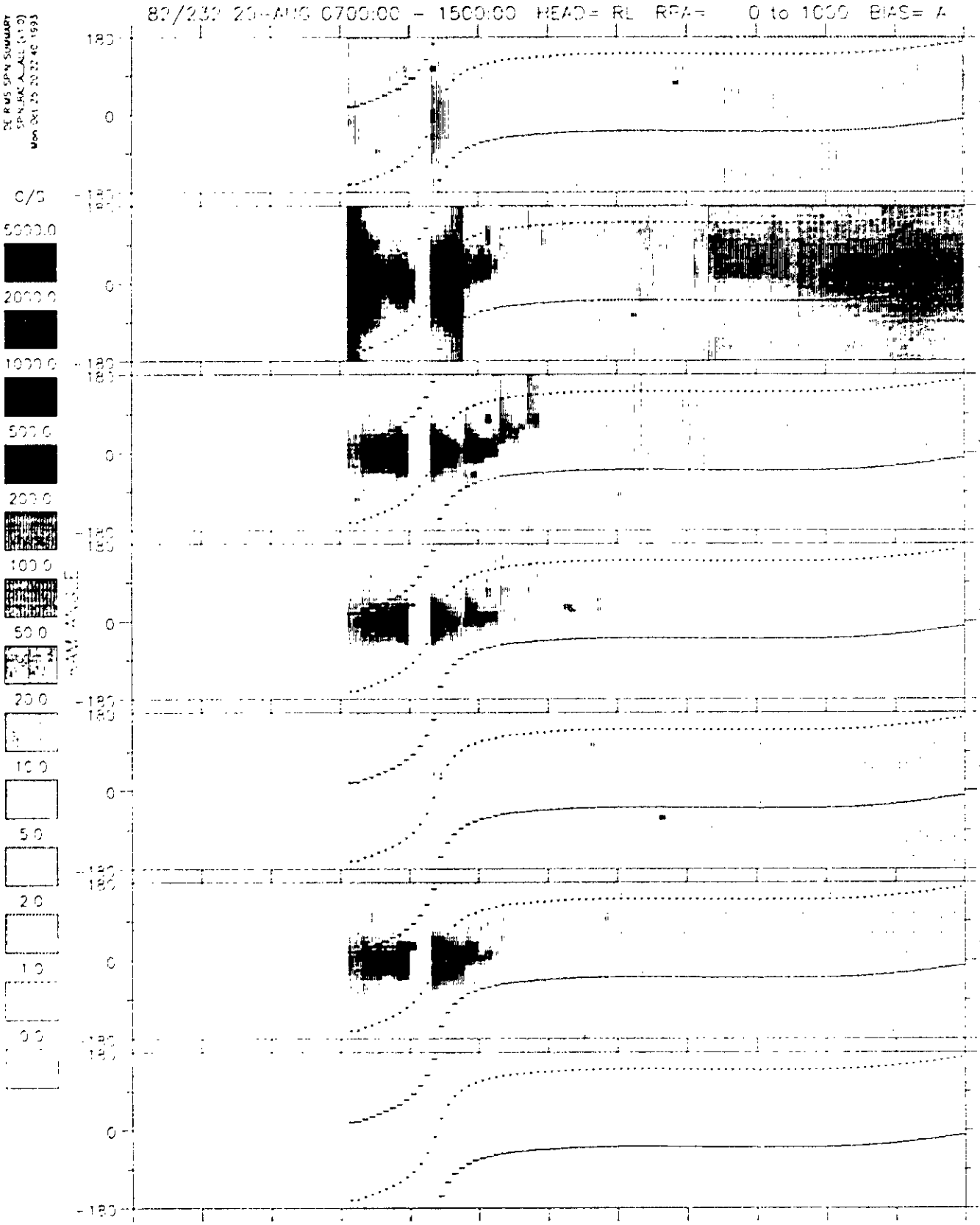
TIME	0000	0000	0000	1310	0000	0000	0000	1550	1630	1710	1750	HHMM
RE	0.0	0.0	0.0	1.1	0.0	0.0	0.0	4.5	4.7	4.6	4.2	RE
L	0.0	0.0	0.0	1.4	0.0	0.0	0.0	5.8	5.1	4.7	4.3	
MLT	0.0	0.0	0.0	0.2	0.0	0.0	0.0	12.6	12.8	12.9	12.9	HRS
MLAT	0.00	0.00	0.00	30.15	0.00	0.00	0.00	*****	*****	-5.09	6.40	DEGS
INVLAT	0.0	0.0	0.0	32.9	0.0	0.0	0.0	65.4	63.8	62.5	61.4	DEGS



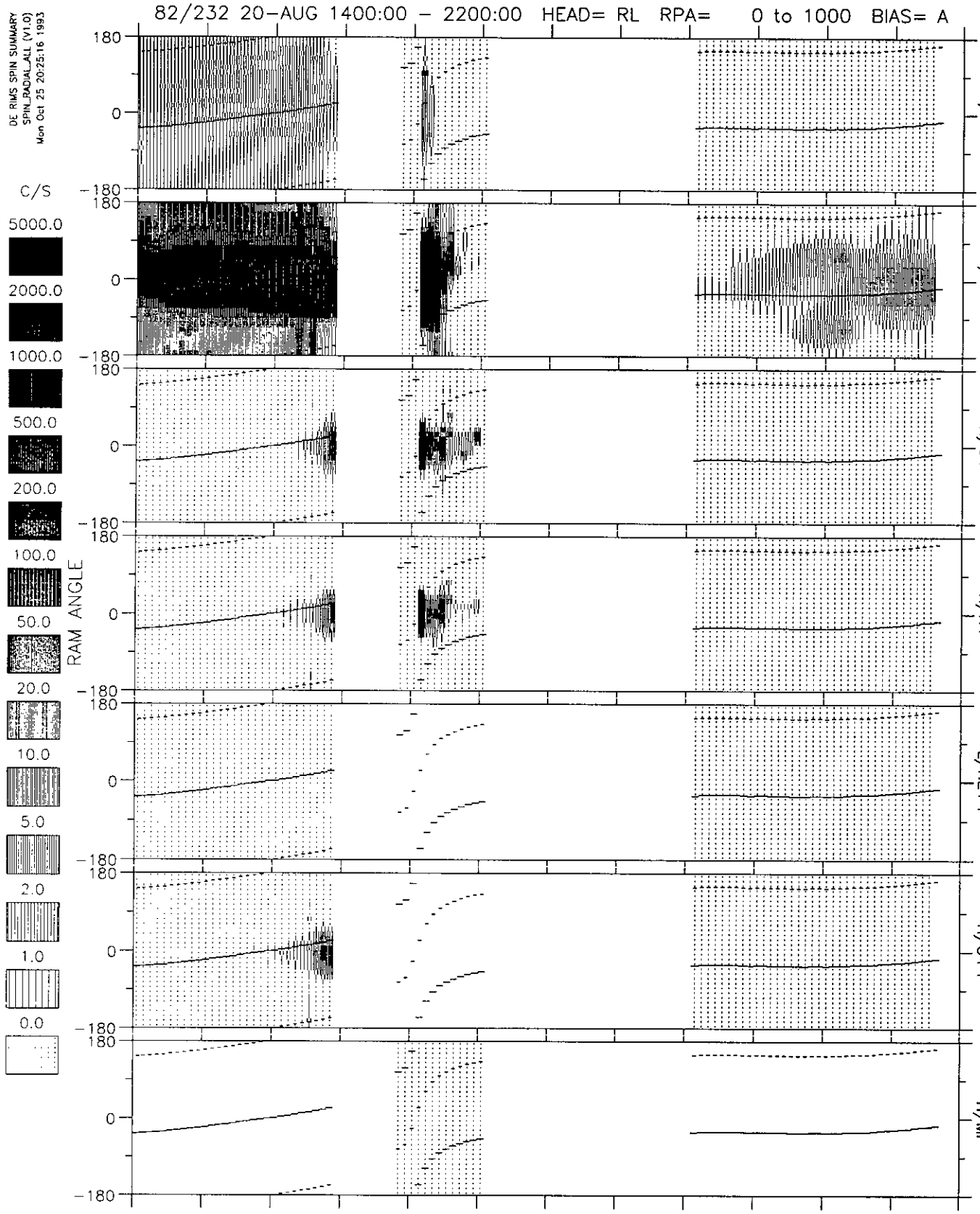
TIME	1810	1850	1930	2010	0000	0000	0000	0000	0000	0000	0050	HHMM
RE	4.0	3.2	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	4.1	RE
L	4.2	4.3	10.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	4.1	
MLT	12.9	12.8	12.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	13.0	HRS
MLAT	12.96	30.14	64.22	*****	0.00	0.00	0.00	0.00	0.00	0.00	-6.05	DEGS
INVLAT	60.9	61.1	72.0	24.5	0.0	0.0	0.0	0.0	0.0	0.0	60.5	DEGS



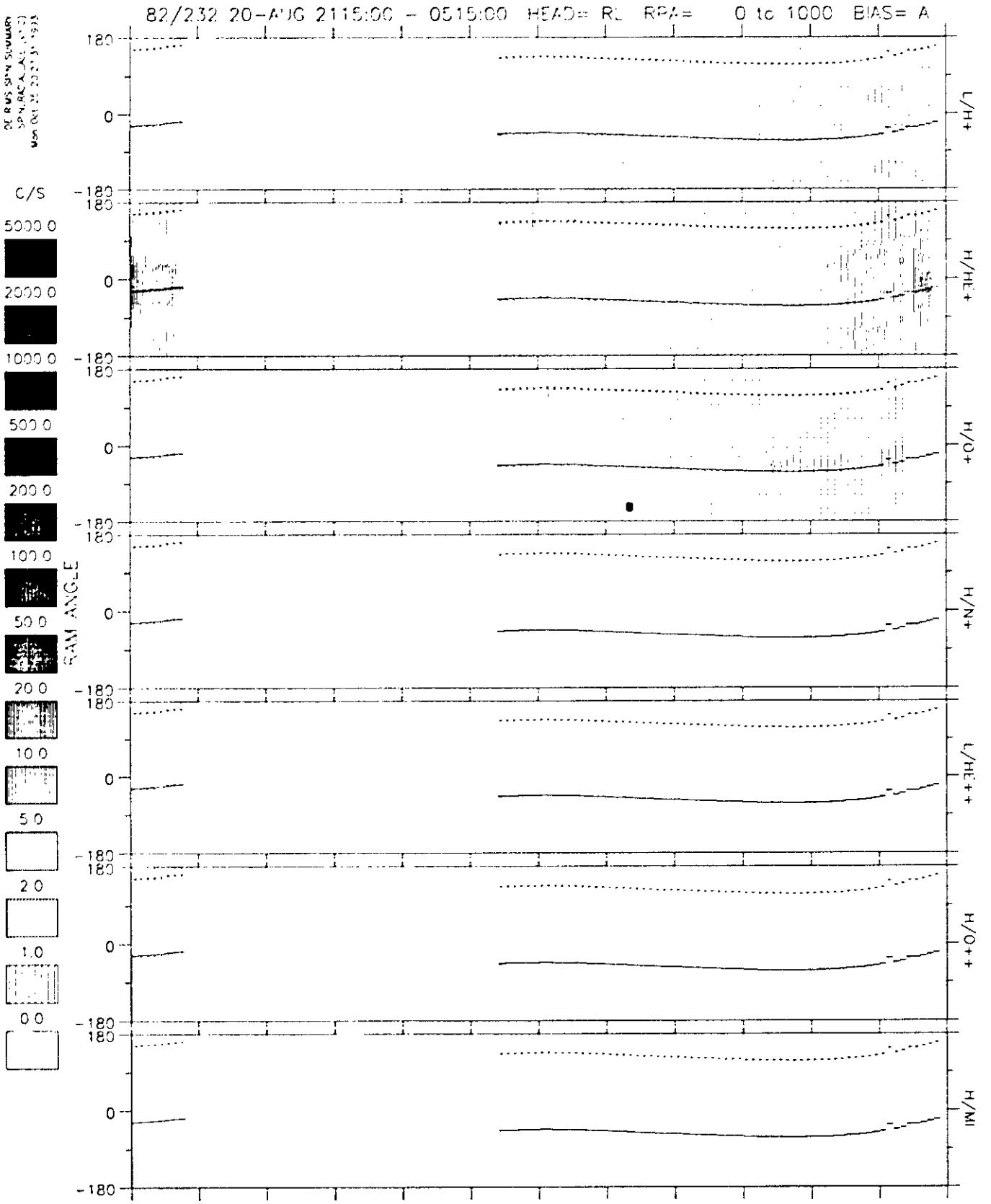
TIME	0055	0135	0215	0255	0335	0415	0455	0535	0615	0000	0000	HHMM
RE	4.0	3.3	2.2	1.1	2.3	3.4	4.1	4.5	4.7	0.0	0.0	RE
L	4.0	3.3	3.6	1.2	27.0	63.9	16.9	10.1	7.5	0.0	0.0	
MLT	12.9	12.7	12.4	1.0	23.5	13.7	12.9	12.7	12.6	0.0	0.0	HRS
MLAT	-4.64	10.01	38.98	26.98	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	60.1	56.8	58.2	25.4	78.9	82.8	75.9	71.7	68.5	0.0	0.0	DEGS



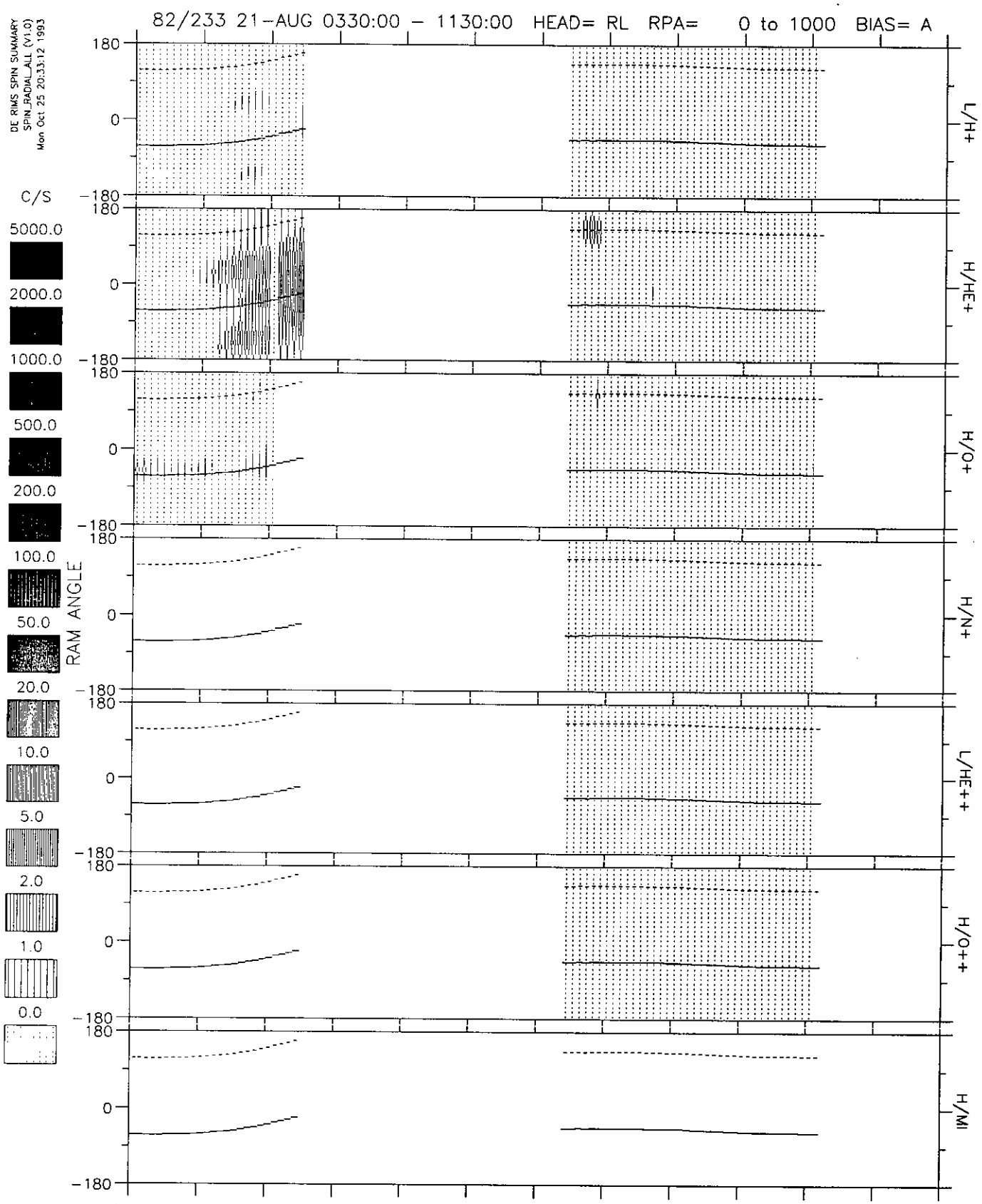
TIME	0000	0000	0000	0940	1030	1100	1140	1220	1300	1340	1420	HHMM
RE	0.0	0.0	0.0	1.1	2.1	3.2	4.0	4.5	4.7	4.6	4.3	RE
L	0.0	0.0	0.0	2.5	20.4	20.3	9.6	6.9	5.7	4.9	4.3	
M T	0.0	0.0	0.0	23.8	3.1	10.7	11.7	12.0	12.3	12.4	12.6	HRS
M AT	0.00	0.00	0.00	49.46	*****	*****	*****	*****	*****	*****	2.03	DEGC
AV AT	0.0	0.0	0.0	51.1	77.2	77.2	71.2	67.7	65.2	63.1	61.3	DEGC



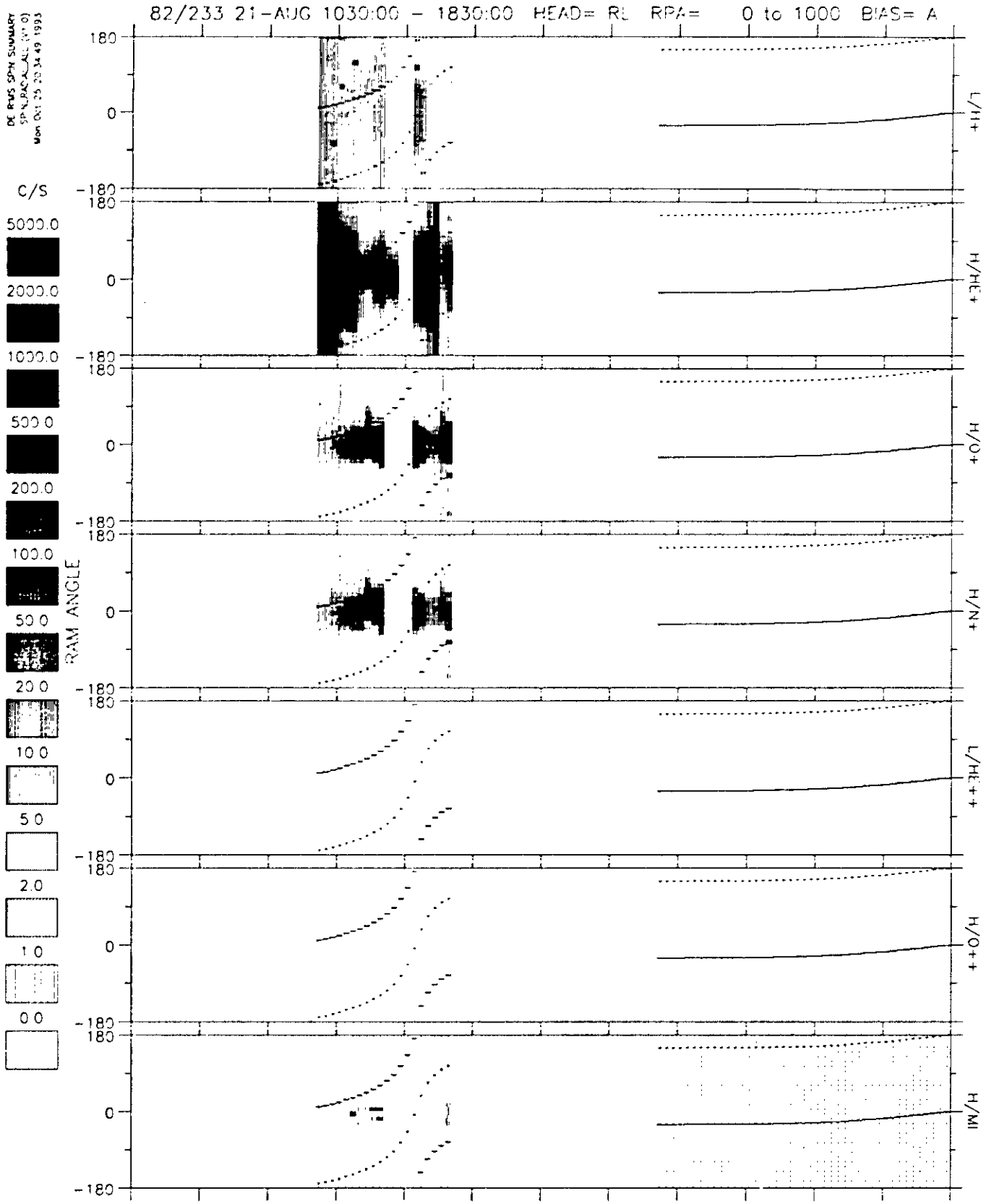
TIME	1440	1520	0000	1640	1720	0000	0000	0000	2000	2040	2120	HHMM
RE	4.0	3.2	0.0	1.1	2.3	0.0	0.0	0.0	4.7	4.5	4.1	RE
L	4.1	4.0	0.0	1.1	61.1	0.0	0.0	0.0	5.1	4.6	4.2	
MLT	12.7	12.9	0.0	0.8	12.8	0.0	0.0	0.0	13.1	13.1	12.9	HRS
MLAT	9.27	27.70	0.00	*****	*****	0.00	0.00	0.00	*****	-7.27	2.86	DEGS
INVLAT	60.6	60.2	0.0	13.3	82.6	0.0	0.0	0.0	63.7	62.3	60.6	DEGS



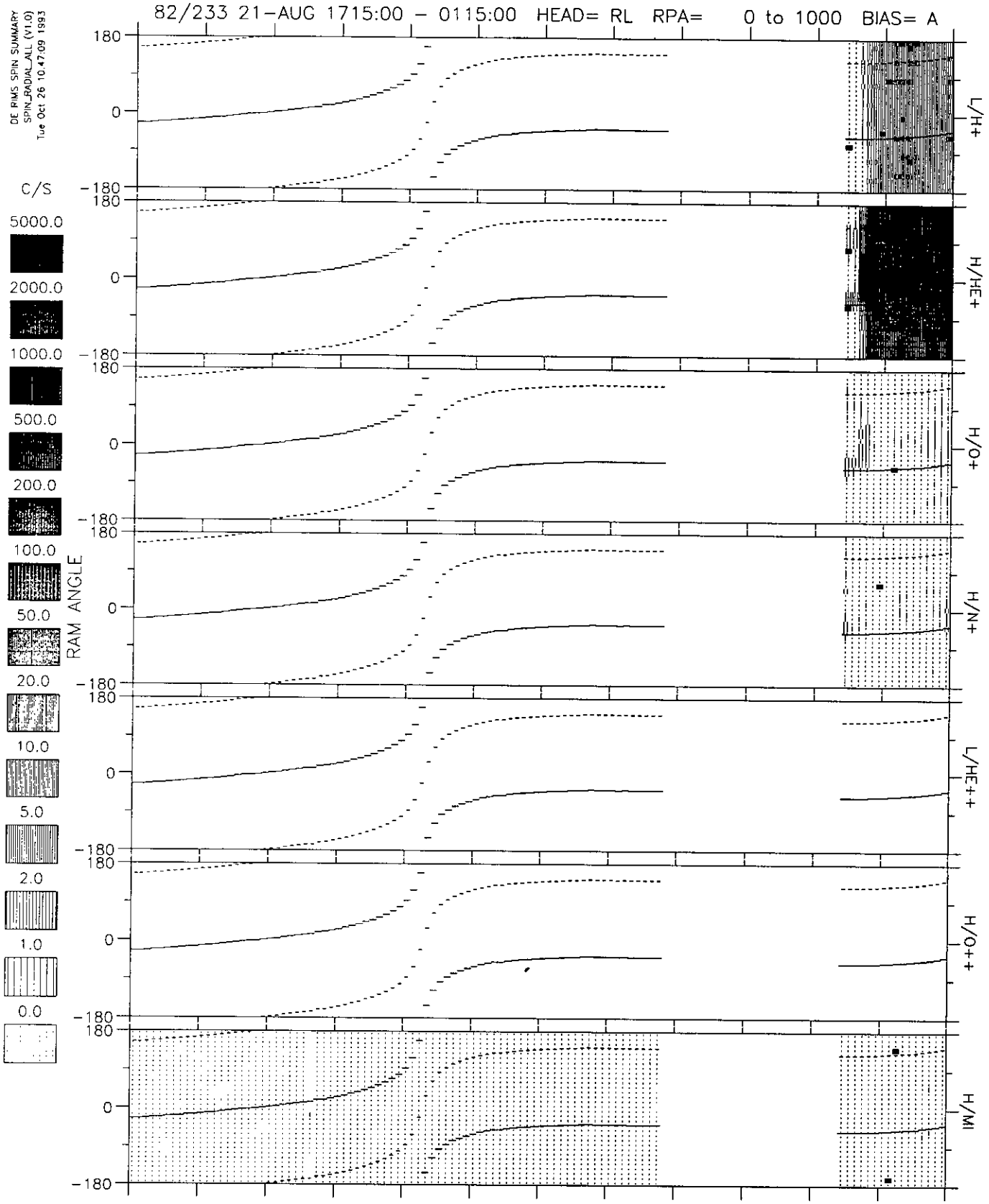
TIME	0000	0000	0000	0000	0000	0115	0155	0235	0315	0355	0435	HHMM
RE	0.0	0.0	0.0	0.0	0.0	3.9	4.4	4.6	4.6	4.3	3.8	RE
L	0.0	0.0	0.0	0.0	0.0	14.2	9.7	7.5	6.0	4.7	3.7	
MLT	0.0	0.0	0.0	0.0	0.0	13.9	13.4	13.1	13.0	12.8	12.7	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	-5.50	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	74.6	71.3	68.6	65.8	62.7	58.8	DEGS



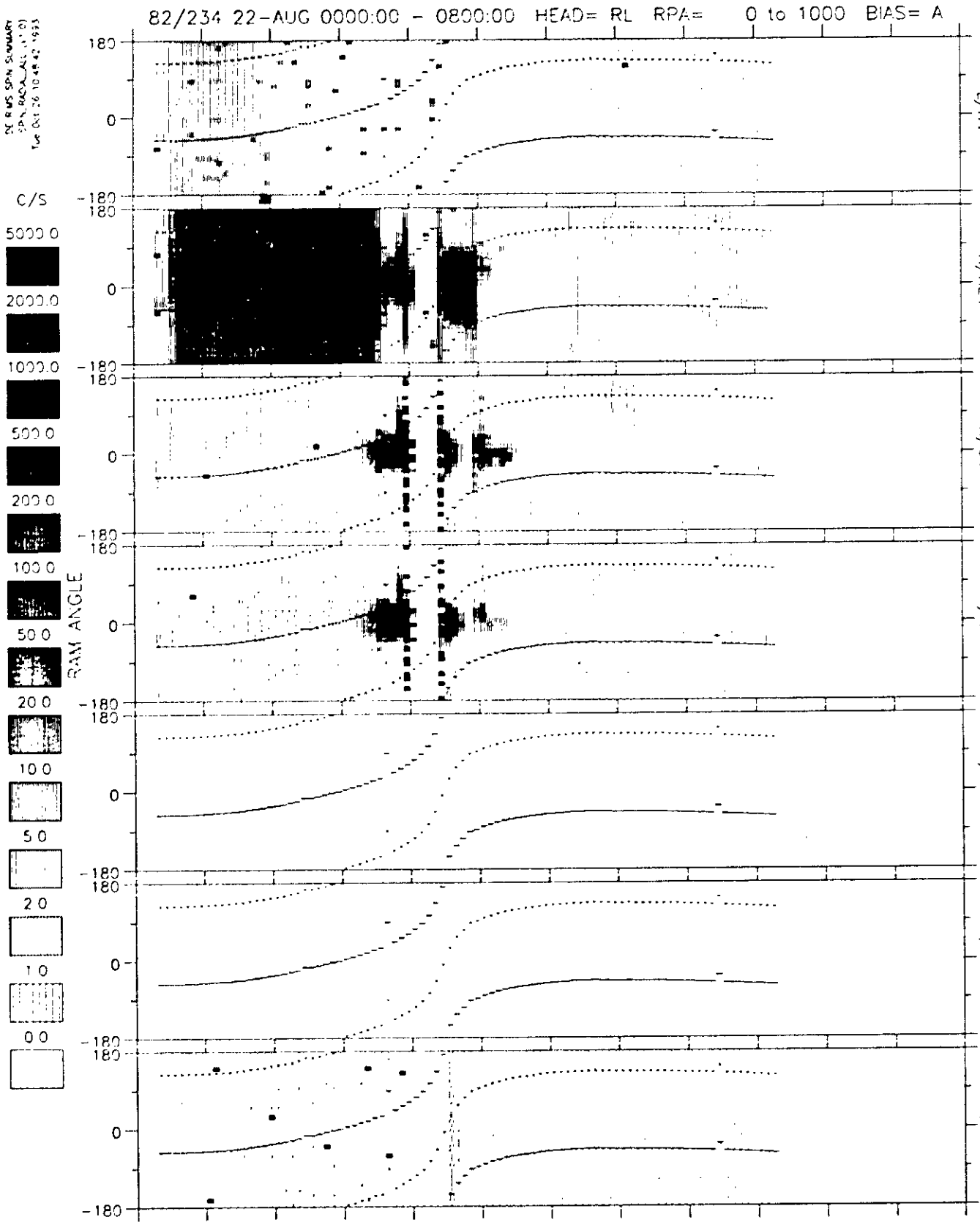
TIME	0410	0450	0000	0000	0000	0000	0810	0850	0930	1010	0000	HHMM
RE	4.2	3.5	0.0	0.0	0.0	0.0	4.0	4.5	4.7	4.6	0.0	RE
L	4.3	3.5	0.0	0.0	0.0	0.0	15.8	9.3	6.8	5.4	0.0	
MLT	12.8	12.7	0.0	0.0	0.0	0.0	11.8	12.0	12.2	12.3	0.0	HRS
MLAT	*****	-0.80	0.00	0.00	0.00	0.00	*****	*****	*****	*****	0.00	DEGS
INVLAT	61.3	57.5	0.0	0.0	0.0	0.0	75.4	70.8	67.4	64.5	0.0	DEGS



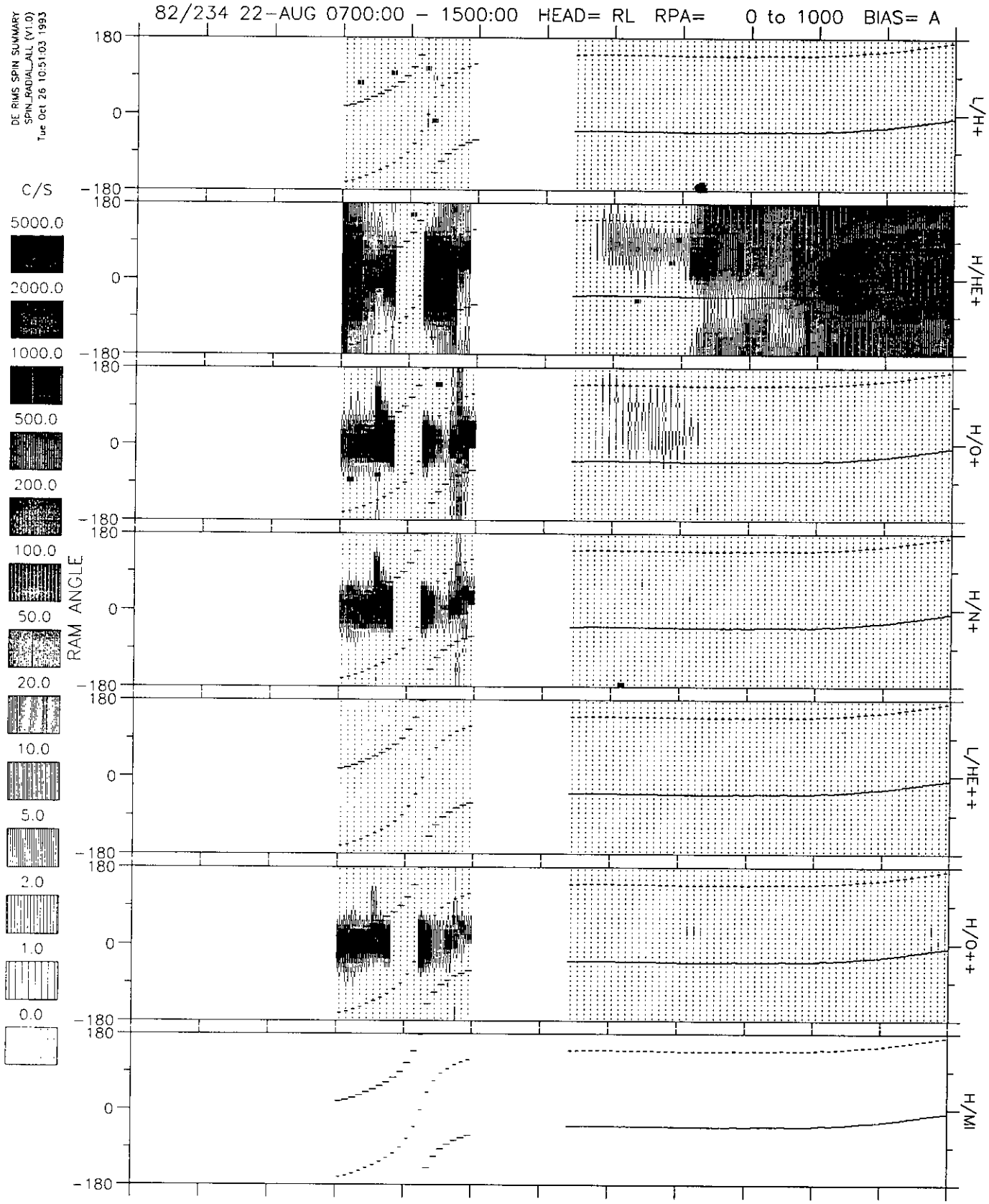
TIME	0000	0000	1230	1310	0000	0000	0000	1550	1630	1710	1750	HHMM
RE	0.0	0.0	2.1	1.1	0.0	0.0	0.0	4.5	4.7	4.6	4.2	RE
L	0.0	0.0	4.8	1.1	0.0	0.0	0.0	5.7	5.1	4.6	4.3	
MLT	0.0	0.0	13.4	0.4	0.0	0.0	0.0	12.5	12.6	12.7	12.8	HRS
MLAT	0.00	0.00	50.92	5.26	0.00	0.00	0.00	•••••	•••••	-4.29	7.39	DEGS
INVLAT	0.0	0.0	62.7	14.9	0.0	0.0	0.0	65.2	63.6	62.3	61.2	DEGS



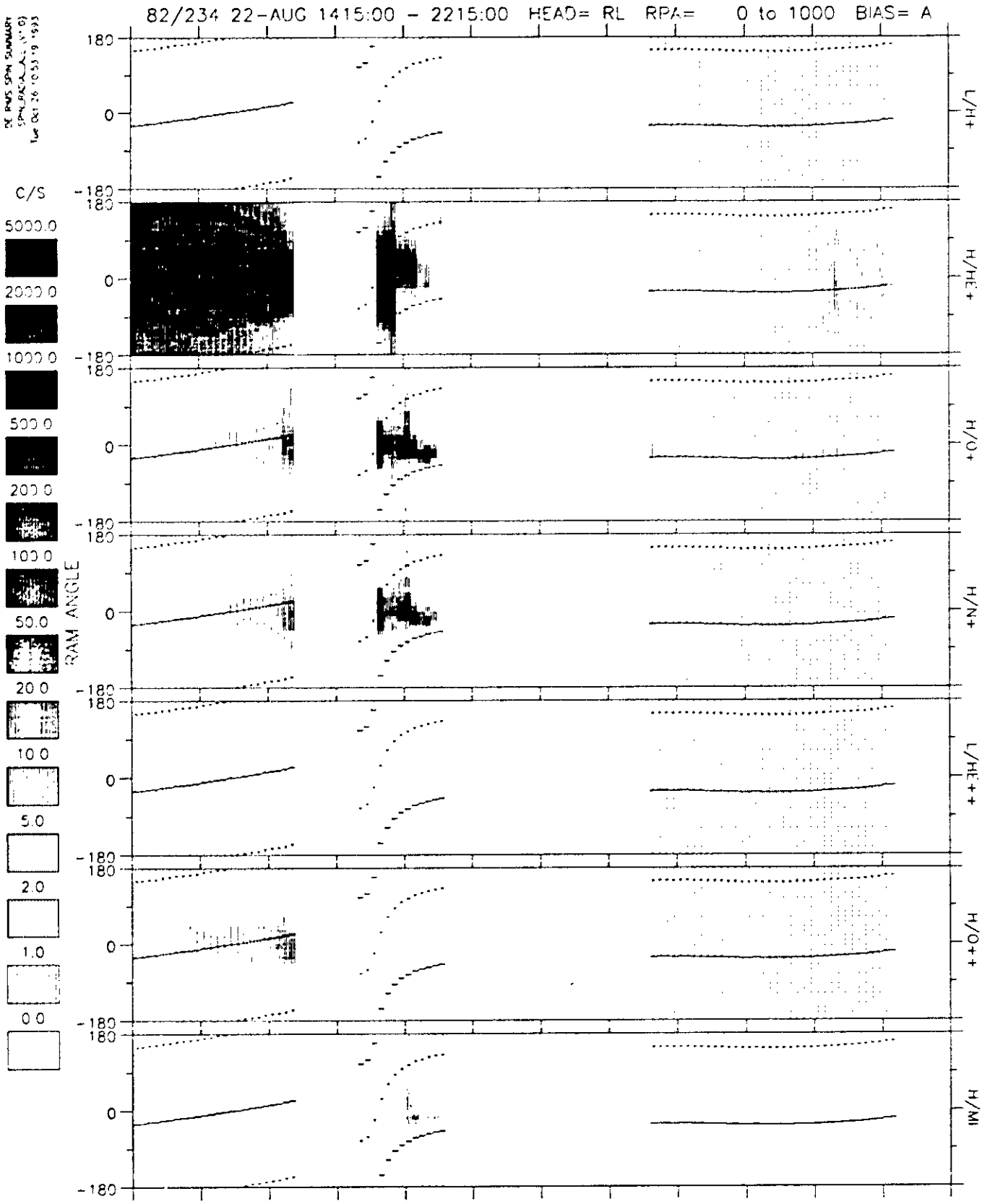
TIME	1755	1835	1915	1955	2035	2115	2155	0000	0000	0000	0035	HHMM
RE	4.1	3.4	2.3	1.1	2.1	3.3	4.0	0.0	0.0	0.0	4.2	RE
L	4.3	4.2	6.1	1.4	62.6	13.3	8.4	0.0	0.0	0.0	4.3	
MLT	12.8	12.7	12.4	1.2	19.8	14.1	13.6	0.0	0.0	0.0	12.9	HRS
MLAT	8.98	24.48	51.89	28.53	*****	*****	*****	0.00	0.00	0.00	-9.44	DEGS
INVLAT	61.0	60.6	66.1	33.8	82.7	74.1	69.8	0.0	0.0	0.0	61.3	DEGS



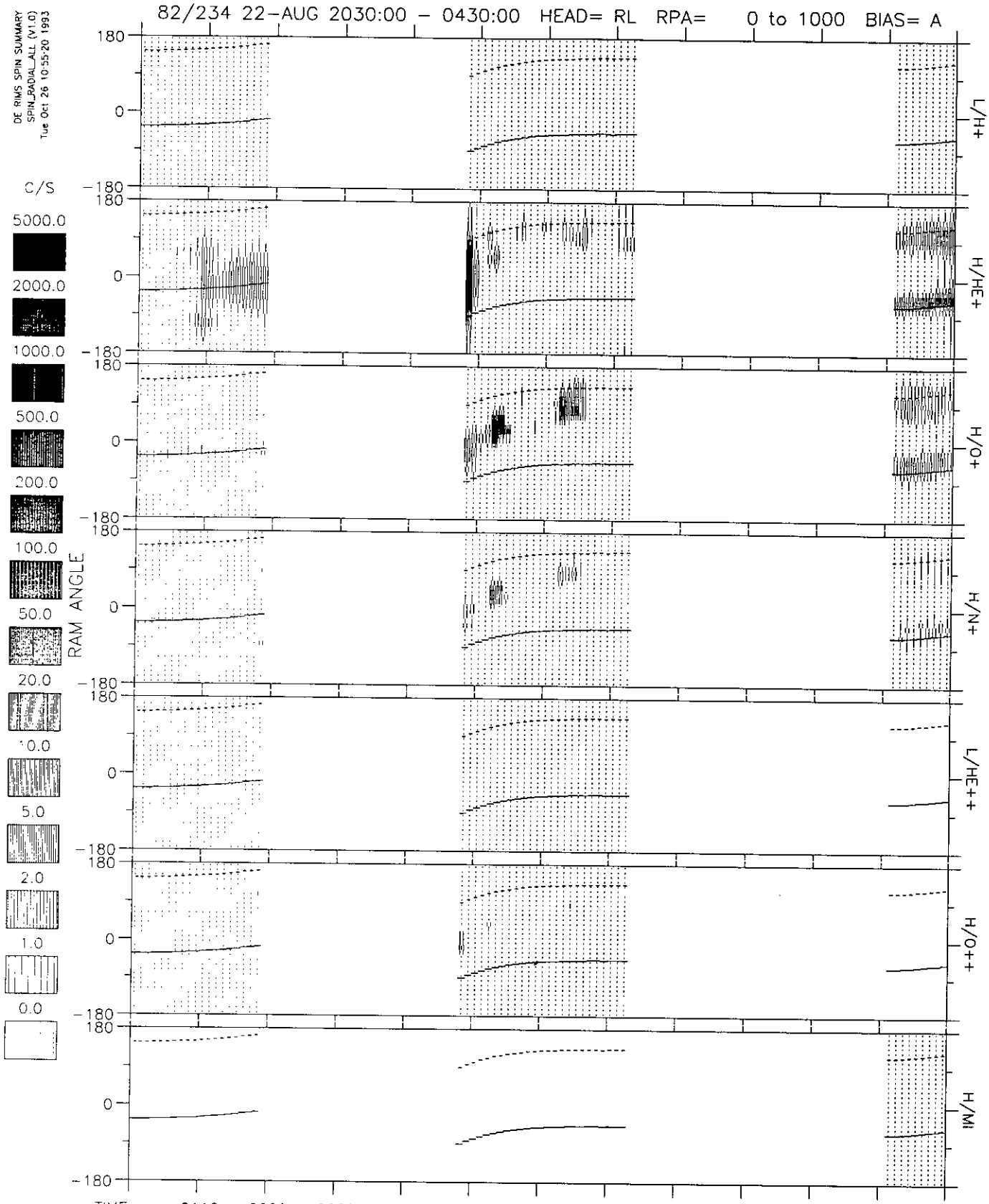
TIME	0040	0120	0200	0240	0320	0400	0440	0520	0600	0000	0000	HHMM
RE	4.2	3.5	2.5	1.2	1.9	3.1	3.9	4.4	4.6	0.0	0.0	RE
L	4.2	3.5	3.2	8.0	8.0	100.0	21.6	11.5	8.0	0.0	0.0	
MLT	12.9	12.7	12.4	2.2	21.1	14.3	12.9	12.6	12.5	0.0	0.0	HRS
MLAT	-8.13	5.01	28.53	71.11	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	60.9	57.5	55.8	69.1	69.3	85.7	77.6	72.8	69.3	0.0	0.0	DEGS



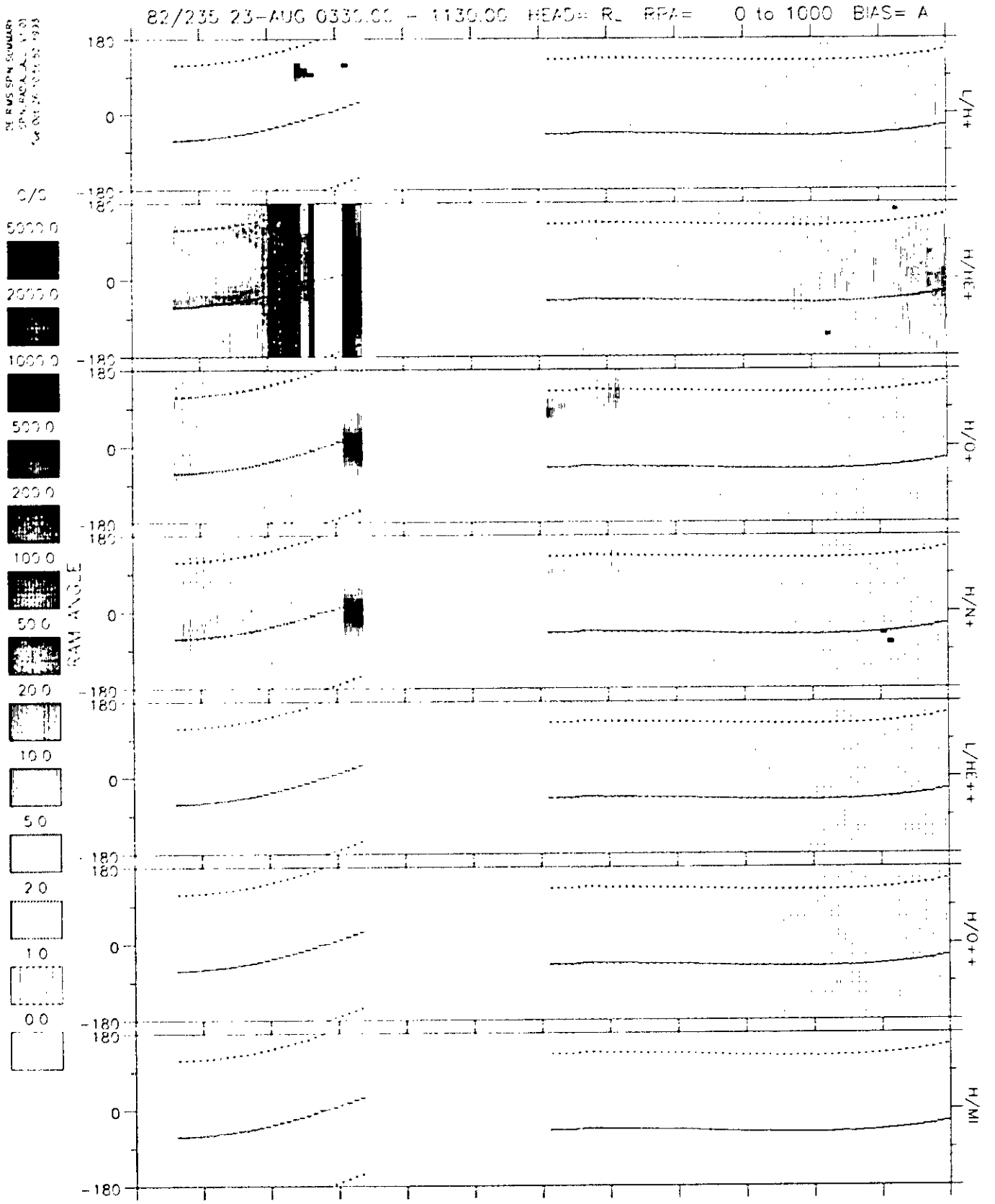
TIME	0000	0000	0900	0940	0000	0000	1140	1220	1300	1340	1420	HHMM
RE	0.0	0.0	2.2	1.1	0.0	0.0	4.1	4.5	4.7	4.6	4.2	RE
L	0.0	0.0	3.6	1.3	0.0	0.0	9.3	6.9	5.6	4.8	4.3	
MLT	0.0	0.0	13.1	0.2	0.0	0.0	11.6	11.9	12.2	12.3	12.5	HRS
MLAT	0.00	0.00	38.93	24.74	0.00	0.00	*****	*****	*****	-9.68	3.33	DEGS
INVLAT	0.0	0.0	58.4	27.6	0.0	0.0	70.8	67.7	65.0	62.9	61.1	DEGS



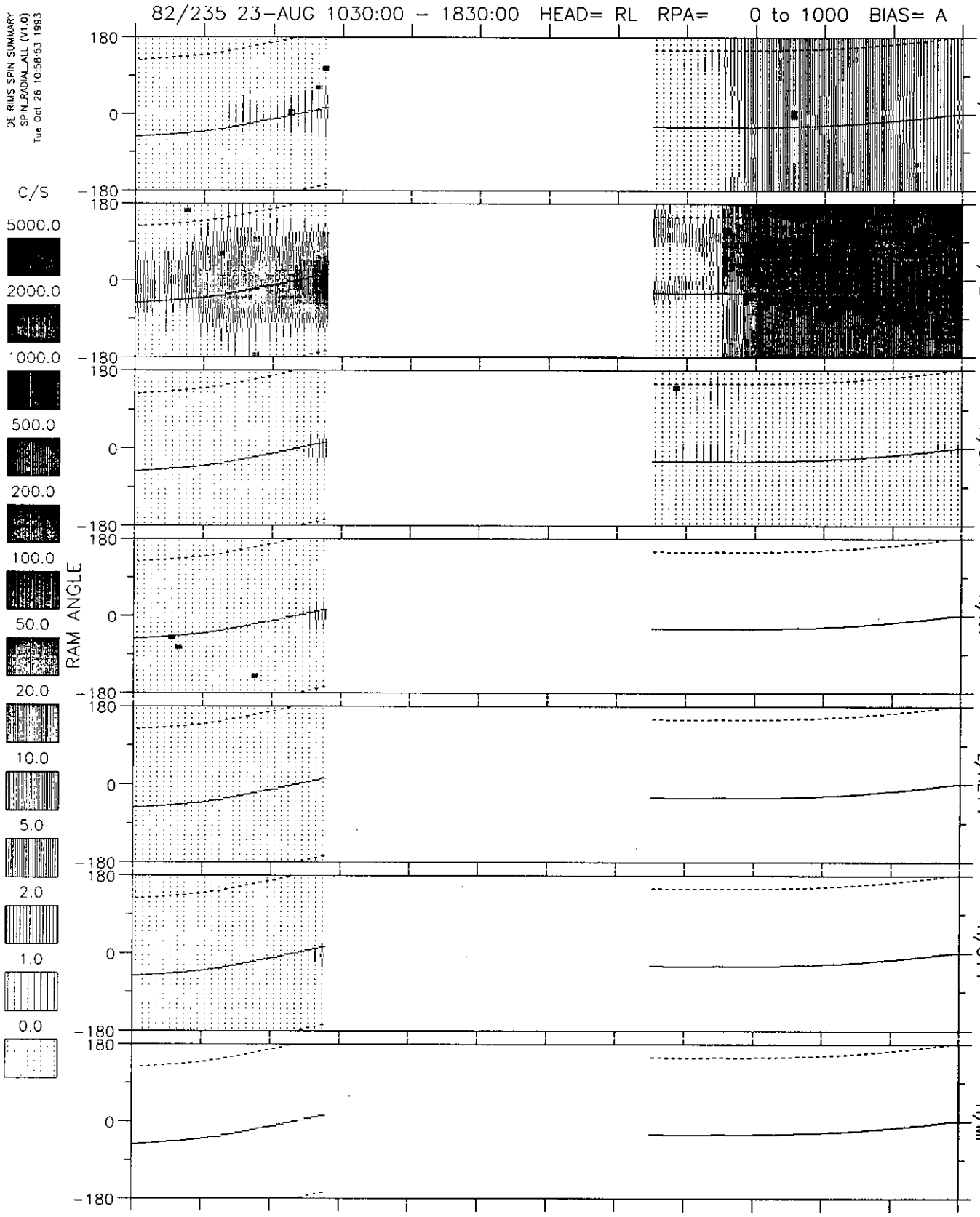
TIME	1455	1535	0000	1655	0000	0000	0000	1935	2015	2055	2135	HHMM
RE	3.6	2.7	0.0	1.7	0.0	0.0	0.0	4.6	4.6	4.4	3.8	RE
L	4.0	4.5	0.0	25.4	0.0	0.0	0.0	5.4	4.9	4.4	3.9	
MLT	12.6	12.8	0.0	0.9	0.0	0.0	0.0	13.0	13.0	12.9	12.7	HRS
MLAT	17.14	40.89	0.00	•••••	0.00	0.00	0.00	•••••	•••••	-3.10	8.28	DEGS
INVLAT	60.0	61.9	0.0	78.5	0.0	0.0	0.0	64.4	63.1	61.5	59.5	DEGS



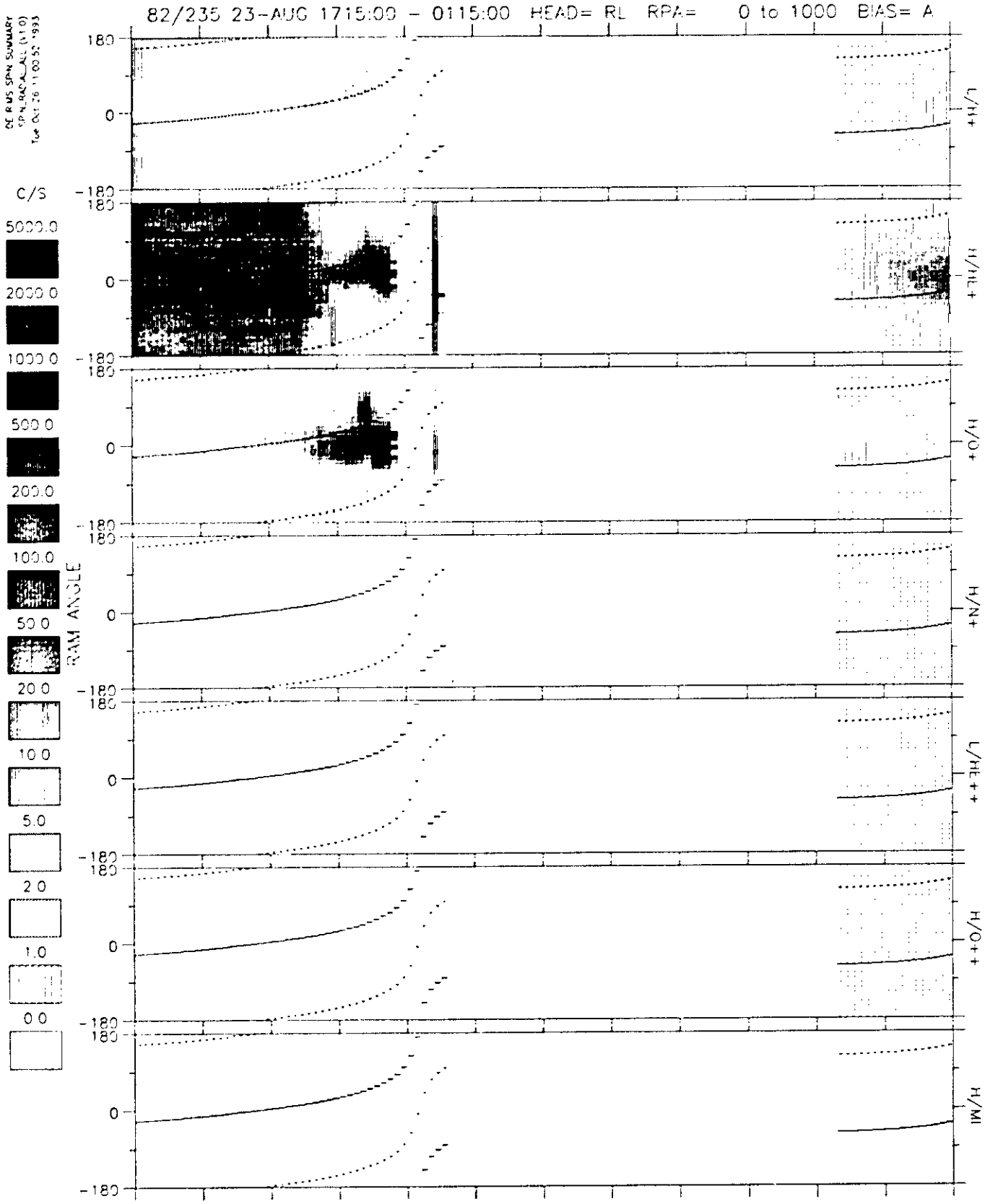
TIME	2110	0000	0000	0000	2350	0030	0110	0000	0000	0000	0000	HHMM
RE	4.2	0.0	0.0	0.0	1.9	3.1	3.9	0.0	0.0	0.0	0.0	RE
L	4.2	0.0	0.0	0.0	9.6	36.9	14.8	0.0	0.0	0.0	0.0	
MLT	12.8	0.0	0.0	0.0	23.1	15.2	13.8	0.0	0.0	0.0	0.0	HRS
MLAT	0.82	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	0.00	DEGS
INVLAT	60.8	0.0	0.0	0.0	71.2	80.5	74.9	0.0	0.0	0.0	0.0	DEGS

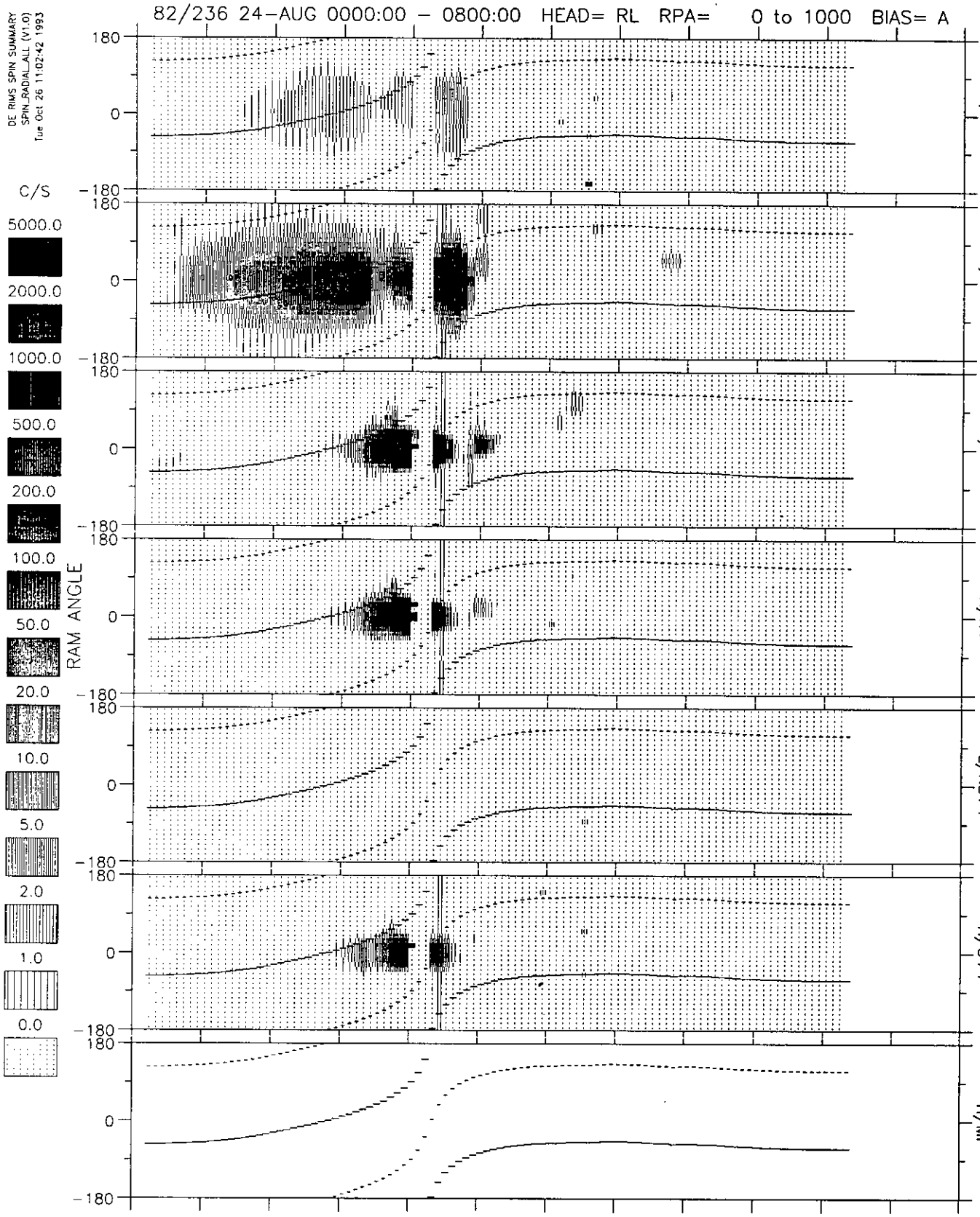


TIME	0410	0450	0530	0000	0000	0000	0810	0850	0930	1010	1050	HHMM
RE	4.1	3.3	2.2	0.0	0.0	0.0	4.1	4.5	4.7	4.6	4.2	RE
L	4.2	3.3	3.2	0.0	0.0	0.0	14.8	9.0	6.7	5.3	4.4	
MLT	12.6	12.6	12.6	0.0	0.0	0.0	11.7	11.9	12.1	12.2	12.3	HRS
MLAT	*****	2.66	31.99	0.00	0.00	0.00	*****	*****	*****	*****	-6.87	DEGS
INVLAT	60.9	56.6	56.1	0.0	0.0	0.0	74.9	70.5	67.2	64.3	61.4	DEGS

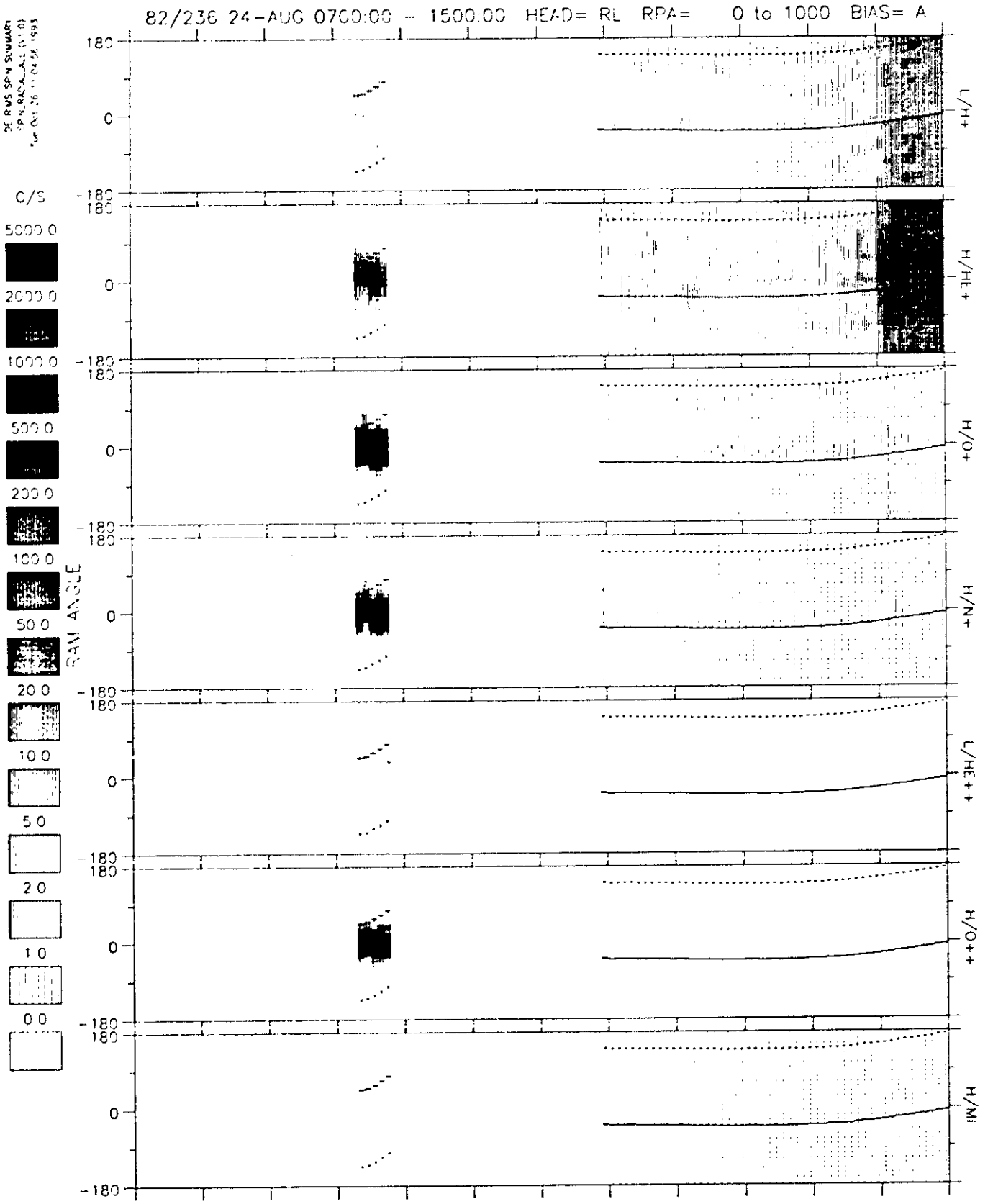


TIME	1110	1150	0000	0000	0000	0000	0000	1550	1630	1710	1750	HHMM
RE	3.9	3.1	0.0	0.0	0.0	0.0	0.0	4.6	4.7	4.5	4.1	RE
L	4.0	3.5	0.0	0.0	0.0	0.0	0.0	5.7	5.0	4.6	4.2	
MLT	12.4	12.7	0.0	0.0	0.0	0.0	0.0	12.4	12.5	12.6	12.6	HRS
MLAT	0.74	20.38	0.00	0.00	0.00	0.00	0.00	*****	*****	-3.49	8.41	DEGS
INVLAT	59.9	57.6	0.0	0.0	0.0	0.0	0.0	65.1	63.5	62.2	61.0	DEGS

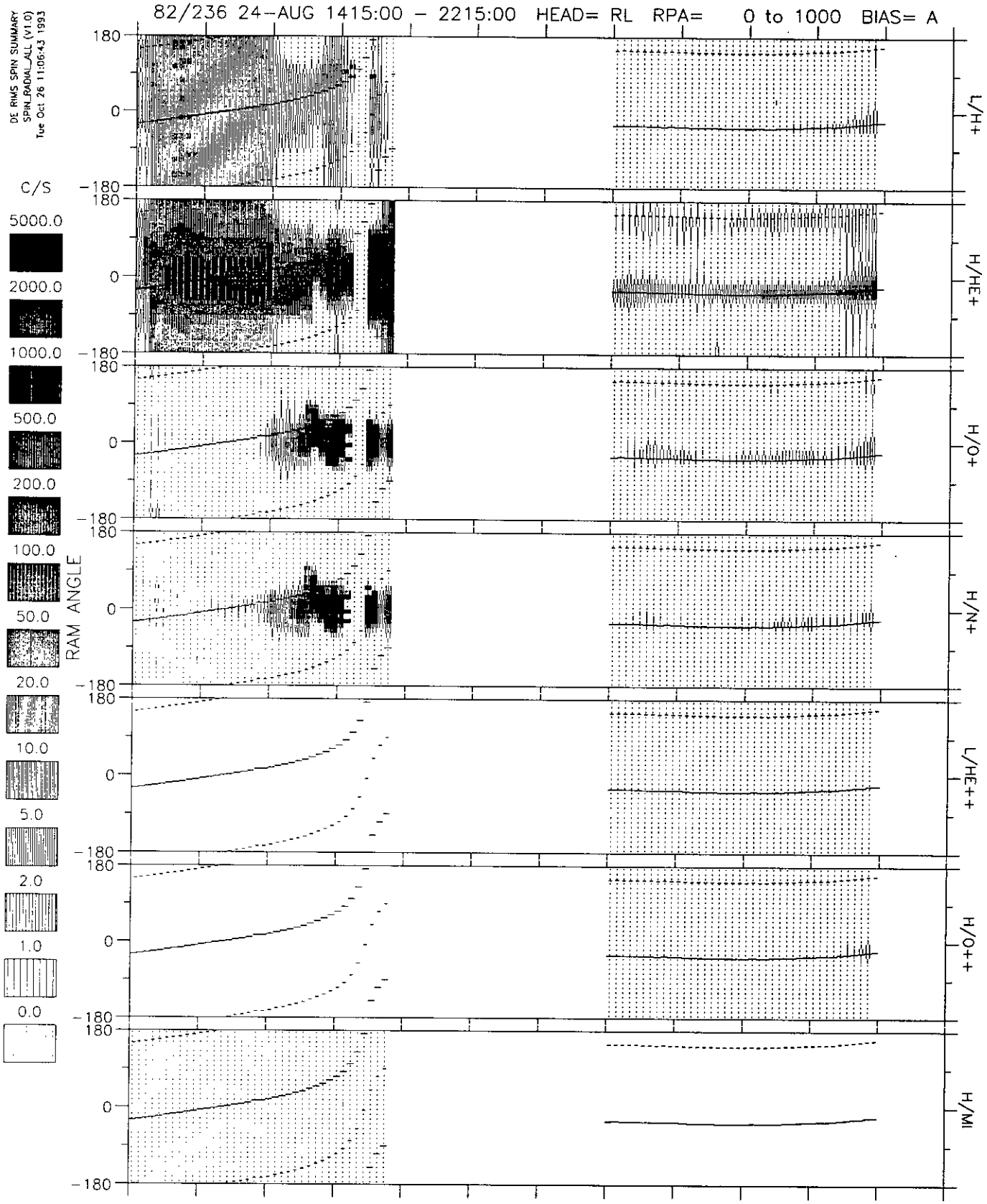

82/235 23-AUG 1715:00 - 0115:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HL+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 1755 1835 1915 1955 0000 0000 0000 0000 0000 0000 0035 HHMM
RE 4.0 3.3 2.1 1.1 0.0 0.0 0.0 0.0 0.0 0.0 4.2 RE
L 4.2 4.1 7.2 1.0 0.0 0.0 0.0 0.0 0.0 0.0 4.2
MLT 12.6 12.6 12.1 0.8 0.0 0.0 0.0 0.0 0.0 0.0 12.8 HRS
MLAT 10.10 26.38 56.97 4.64 0.00 0.00 0.00 0.00 0.00 0.00 -8.81 DEGS
INVLAT 60.8 60.5 68.1 10.7 0.0 0.0 0.0 0.0 0.0 0.0 61.0 DEGS



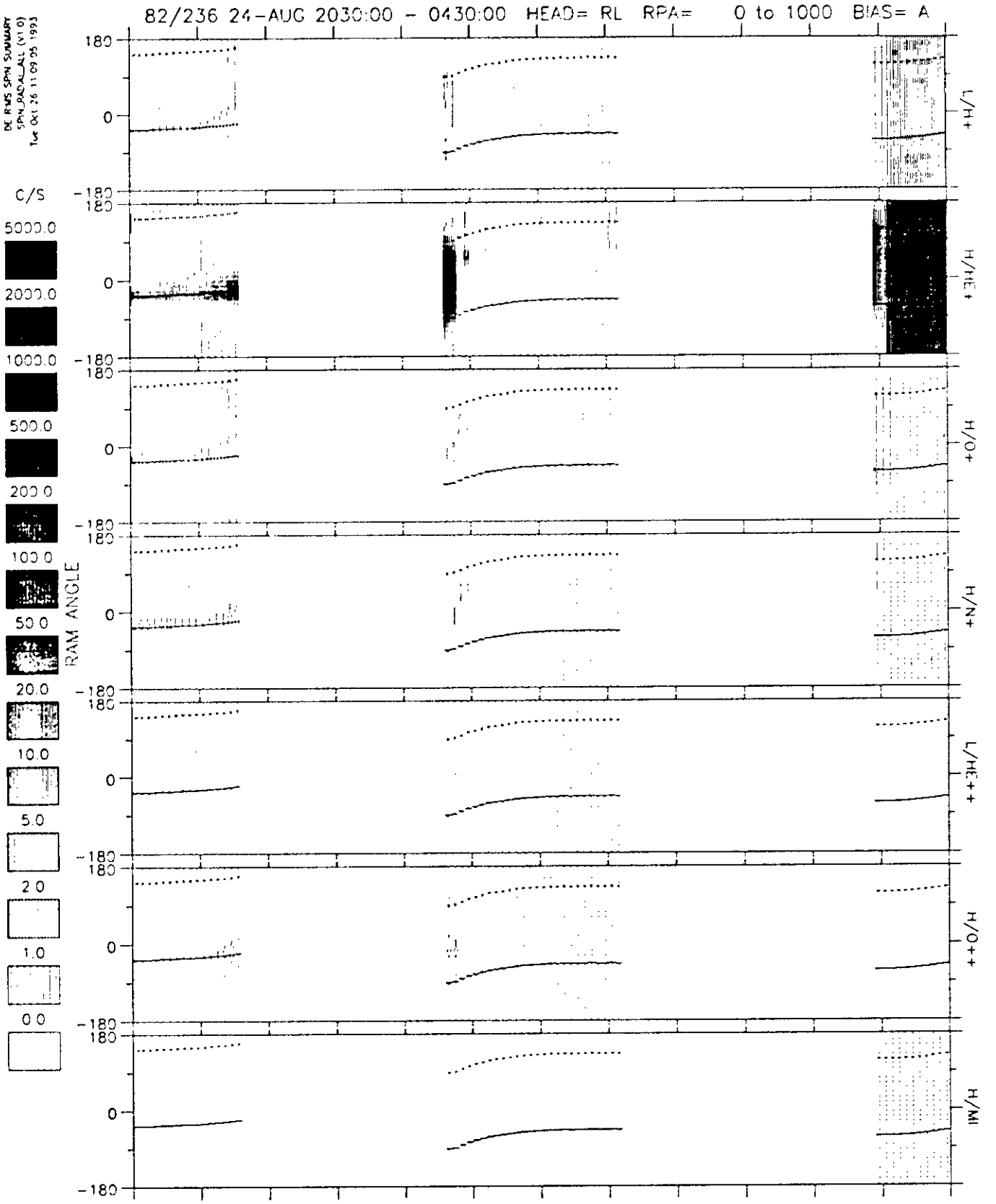
TIME	0040	0120	0200	0240	0320	0400	0440	0520	0600	0640	0000	HHMM
RE	4.1	3.4	2.3	1.1	2.1	3.3	4.0	4.5	4.7	4.6	0.0	RE
L	4.1	3.4	3.2	2.1	13.8	-0.0	20.2	11.2	7.8	5.9	0.0	
MLT	12.7	12.5	12.2	1.1	23.7	13.7	12.7	12.5	12.4	12.4	0.0	HRS
MLAT	-7.41	6.55	32.87	48.90	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	60.6	57.0	56.3	46.0	74.4	-0.0	77.1	72.6	69.0	65.6	0.0	DEGS

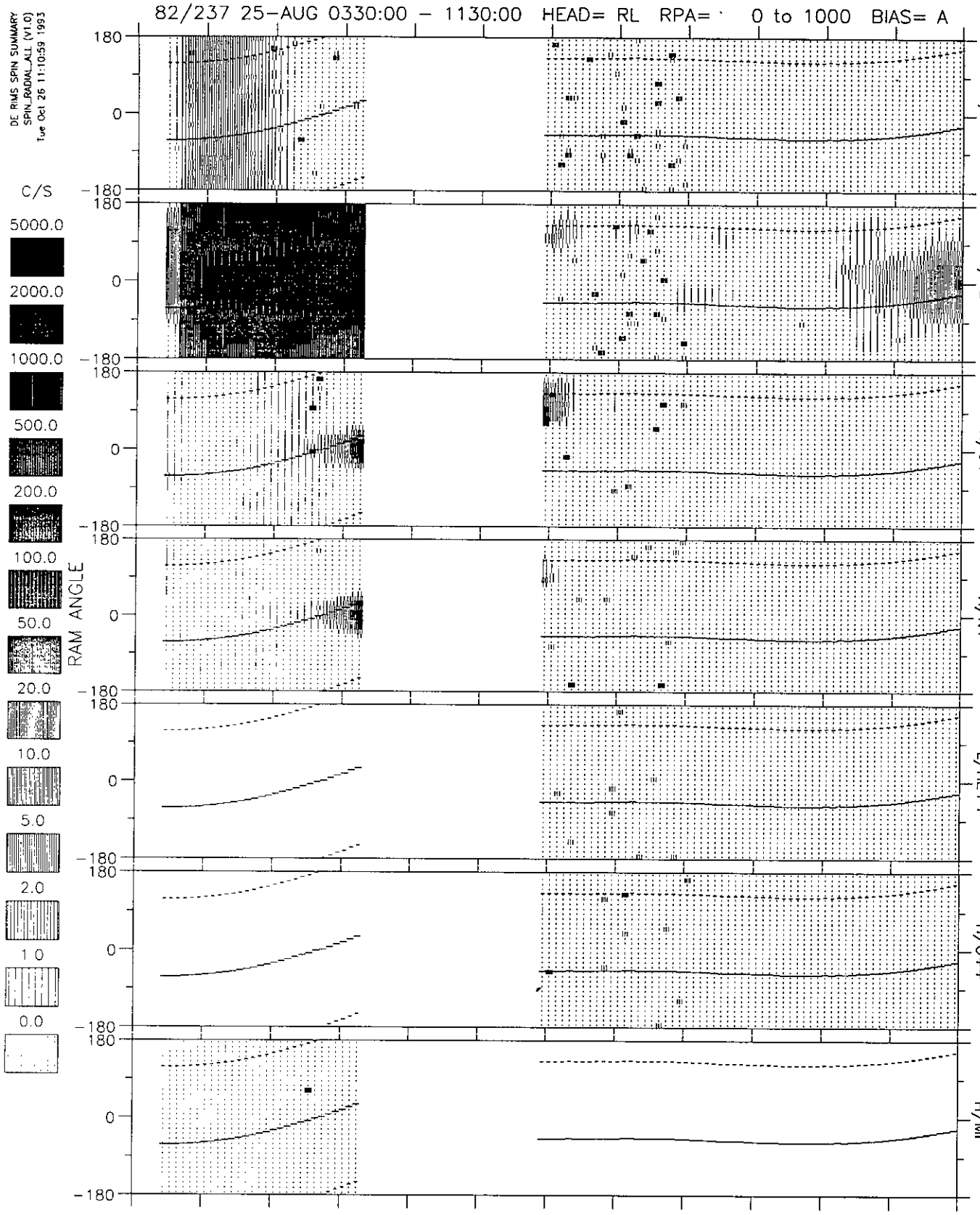


TIME	0000	0000	0000	0000	0000	0000	1140	1220	1300	1340	1420	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.5	4.7	4.5	4.1	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	8.9	6.7	5.5	4.8	4.2	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	11.6	11.9	12.1	12.2	12.4	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-8.58	4.67	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	70.5	67.2	64.8	62.7	60.9	DEGS

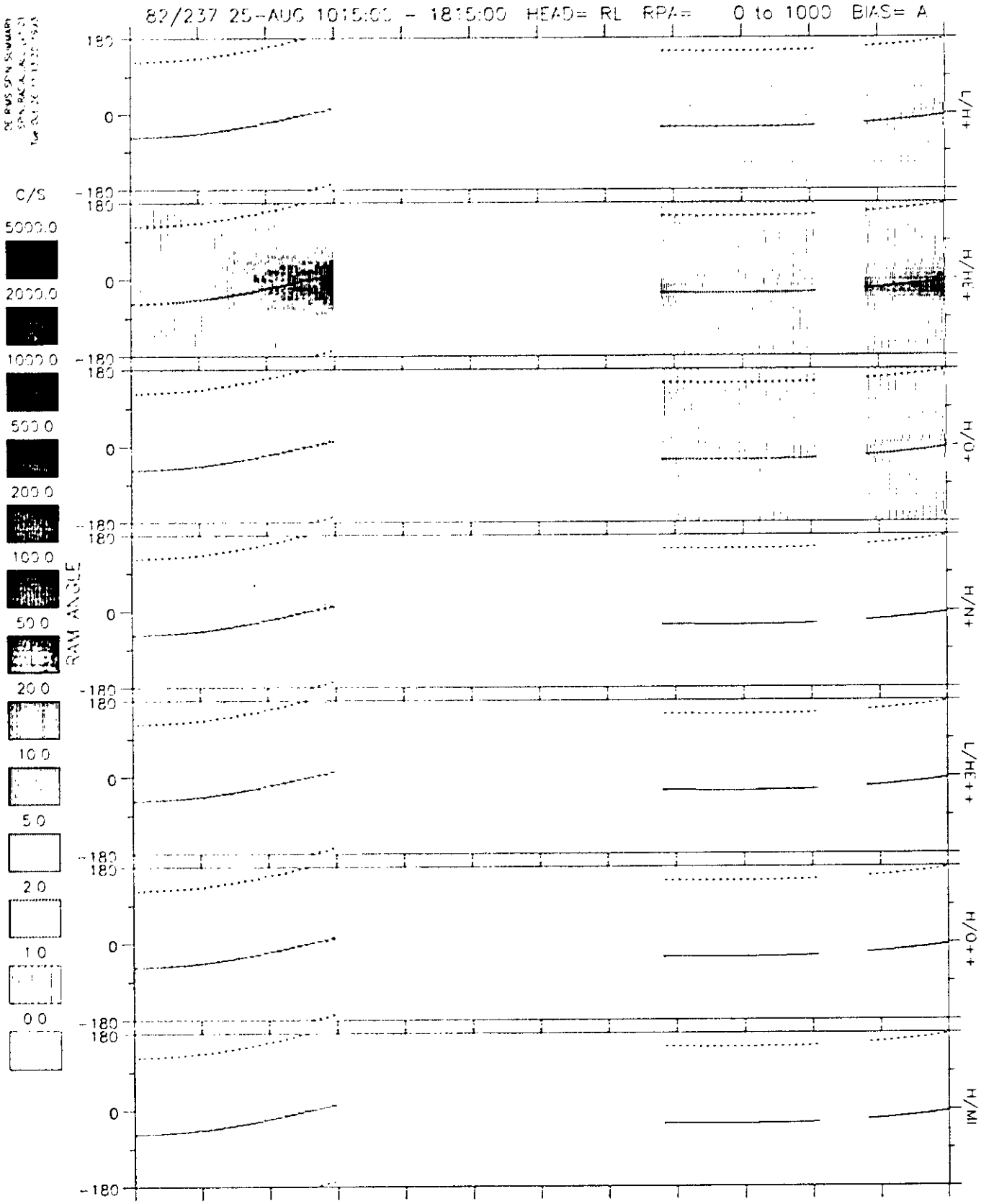


TIME	1455	1535	1615	0000	0000	0000	1855	1935	2015	2055	0000	HHMM
RE	3.5	2.5	1.2	0.0	0.0	0.0	4.4	4.6	4.6	4.3	0.0	RE
L	4.0	4.8	5.2	0.0	0.0	0.0	6.0	5.4	4.8	4.3	0.0	
MLT	12.5	12.7	0.2	0.0	0.0	0.0	12.9	12.9	12.8	12.7	0.0	HRS
MLAT	19.05	44.91	57.28	0.00	0.00	0.00	*****	*****	*****	-2.51	0.00	DEGS
INVLAT	59.8	62.8	63.9	0.0	0.0	0.0	65.9	64.4	63.0	61.3	0.0	DEGS

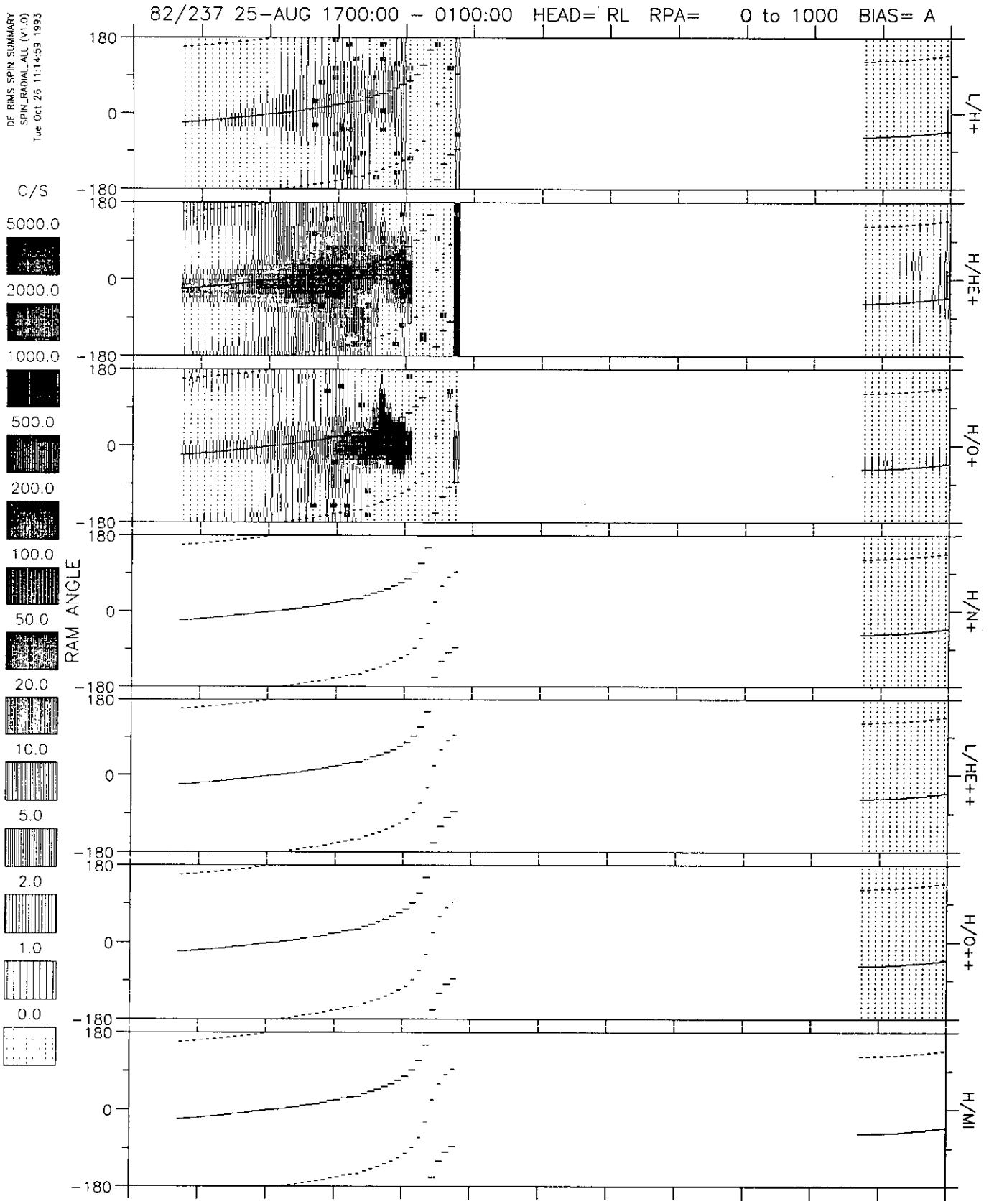

82/236 24-AUG 2030:00 - 0430:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RIMS SPIN SUMMARY
SPIN_PADALL_ALL (V1.0)
Tue Oct 26 11:09:55 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M
TIME 2110 0000 0000 0000 2350 0030 0110 0000 0000 0000 0350 HHMM
RE 4.1 0.0 0.0 0.0 2.0 3.2 4.0 0.0 0.0 0.0 4.3 RE
L 4.1 0.0 0.0 0.0 16.3 32.9 14.4 0.0 0.0 0.0 4.7
MLT 12.7 0.0 0.0 0.0 22.3 14.8 13.6 0.0 0.0 0.0 12.6 HRS
MLAT 1.53 0.00 0.00 0.00 ***** ***** ***** 0.00 0.00 0.00 ***** DEGS
INVLAT 60.5 0.0 0.0 0.0 75.7 80.0 74.7 0.0 0.0 0.0 62.4 DEGS



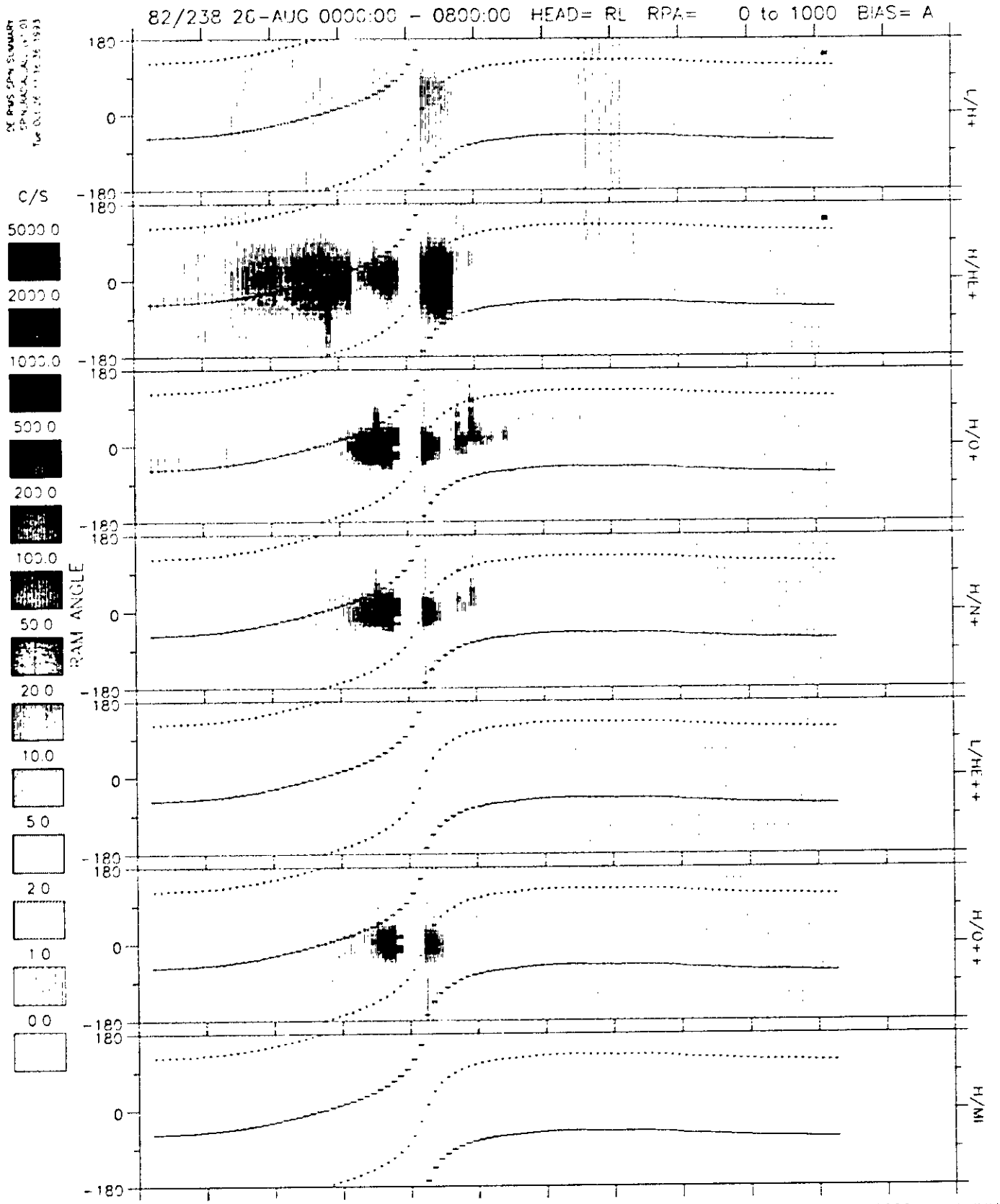
TIME	0410	0450	0530	0000	0000	0730	0810	0850	0930	1010	1050	HHMM
RE	4.0	3.2	2.1	0.0	0.0	3.4	4.1	4.5	4.7	4.5	4.2	RE
L	4.1	3.2	3.5	0.0	0.0	41.9	13.9	8.9	6.5	5.2	4.3	
MLT	12.5	12.5	12.6	0.0	0.0	10.9	11.6	11.8	11.9	12.1	12.2	HRS
MLAT	*****	4.79	37.95	0.00	0.00	*****	*****	*****	*****	*****	-5.42	DEGS
INVLAT	60.4	55.9	57.7	0.0	0.0	81.1	74.5	70.4	66.9	64.0	61.0	DEGS



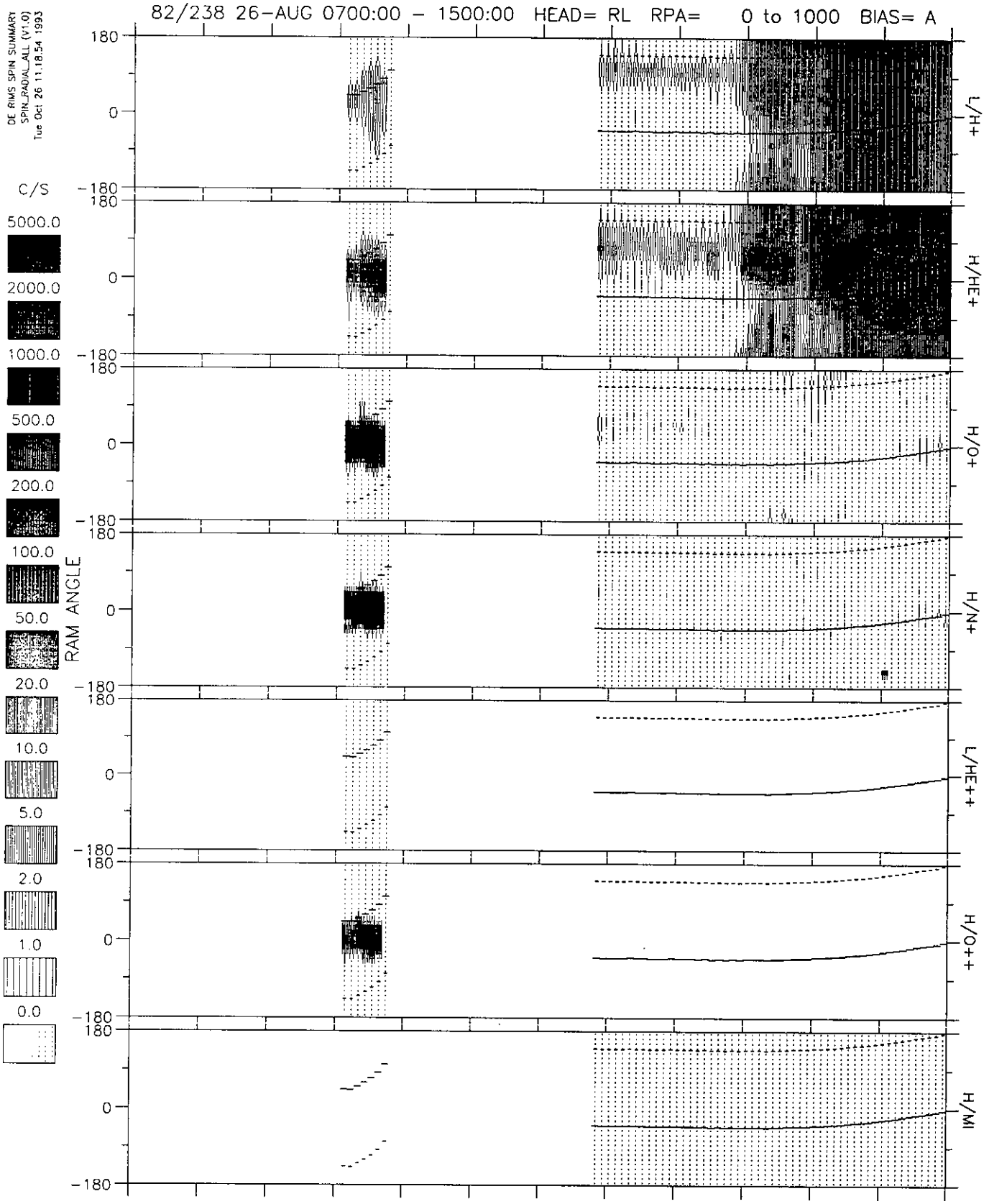
TIME	1055	1135	0000	0000	0000	0000	0000	1535	1615	1655	1735	HHMM
RE	4.1	3.4	0.0	0.0	0.0	0.0	0.0	4.5	4.7	4.6	4.2	RE
L	4.2	3.5	0.0	0.0	0.0	0.0	0.0	5.9	5.2	4.7	4.3	
MLT	12.3	12.5	0.0	0.0	0.0	0.0	0.0	12.2	12.4	12.5	12.5	HRS
MLAT	-3.57	14.30	0.00	0.00	0.00	0.00	0.00	*****	*****	-6.83	4.65	DEGS
INVLAT	60.7	57.9	0.0	0.0	0.0	0.0	0.0	65.7	64.0	62.5	61.2	DEGS



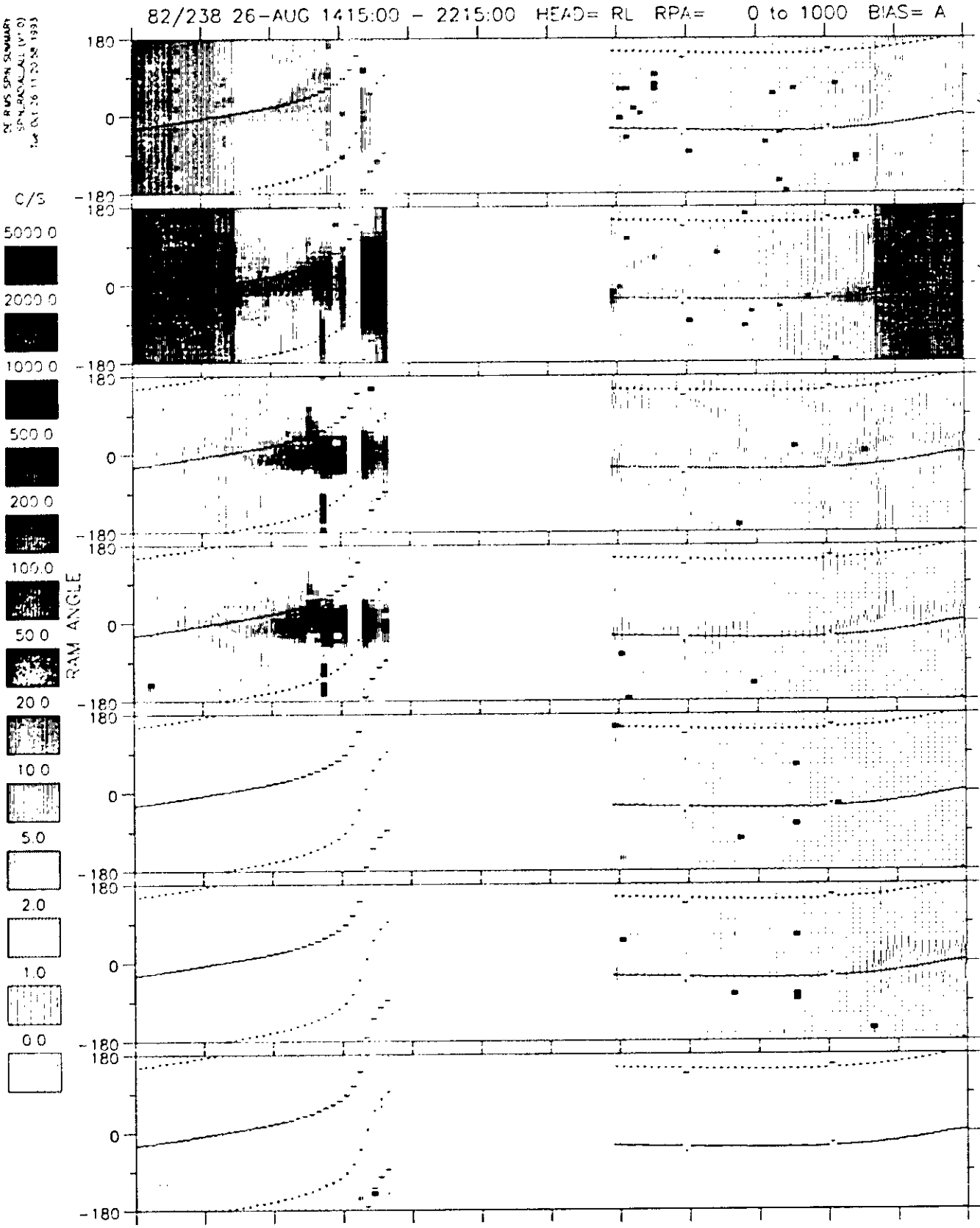
TIME	1740	1820	1900	1940	0000	0000	0000	0000	0000	0000	0020	HHMM
RE	4.2	3.5	2.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	4.3	RE
L	4.3	4.1	5.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	4.5	
MLT	12.5	12.5	12.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	12.7	HRS
MLAT	6.20	21.08	46.19	49.72	0.00	0.00	0.00	0.00	0.00	0.00	*****	DEGS
INVLAT	61.1	60.2	63.8	56.2	0.0	0.0	0.0	0.0	0.0	0.0	61.8	DEGS



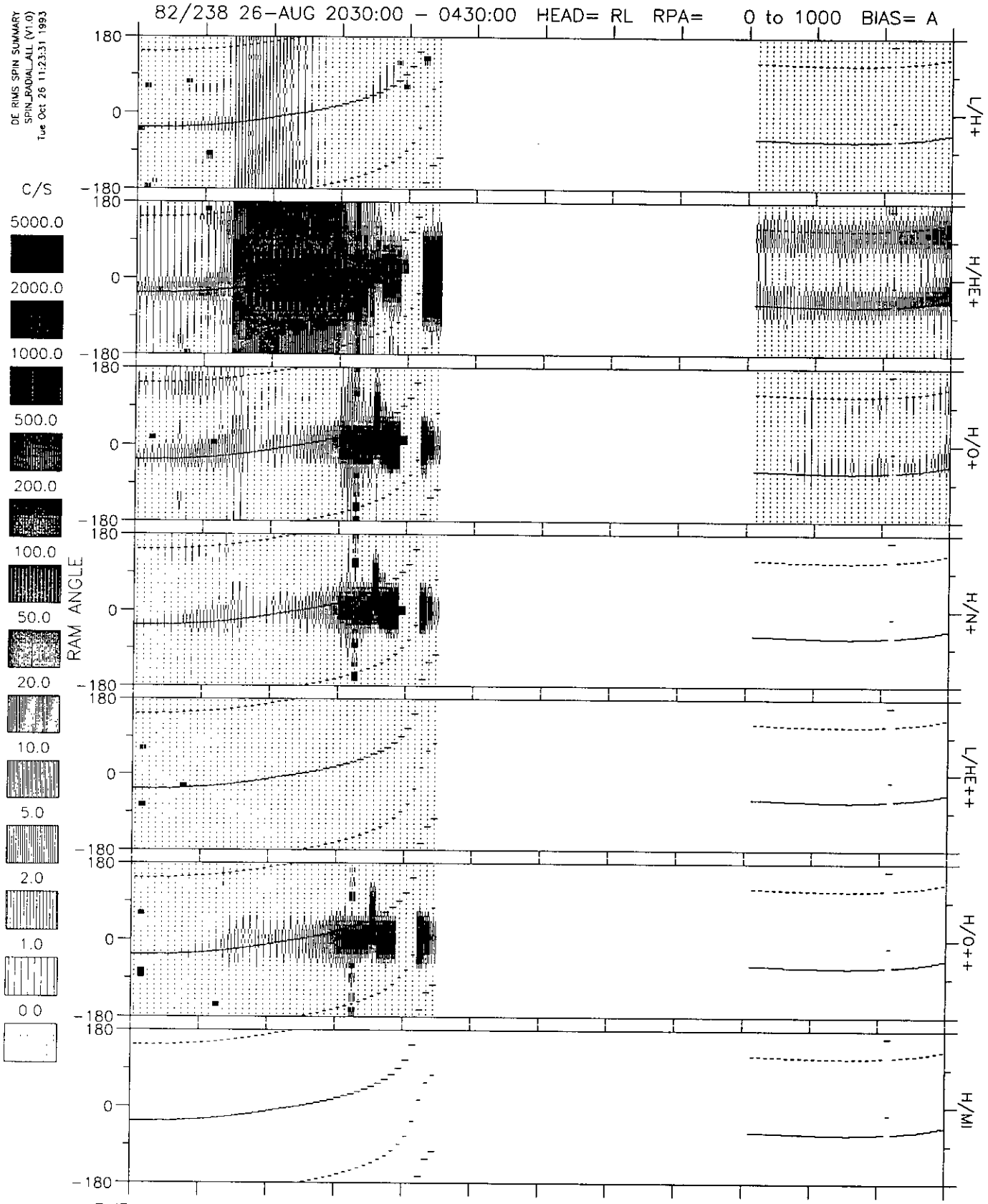
TIME	0040	0120	0200	0240	0320	0400	0440	0520	0600	0640	0000	HHMM
RE	4.0	3.3	2.1	1.1	2.3	3.4	4.1	4.5	4.7	4.6	0.0	RE
L	4.0	3.3	3.4	1.2	24.5	84.2	19.0	10.9	7.6	5.7	0.0	
MLT	12.6	12.4	12.0	0.6	23.3	13.3	12.5	12.3	12.2	12.2	0.0	HRS
MLAT	-6.66	8.21	37.93	24.79	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	60.2	56.5	57.4	24.6	78.3	83.7	76.8	72.3	68.7	65.3	0.0	DEGS



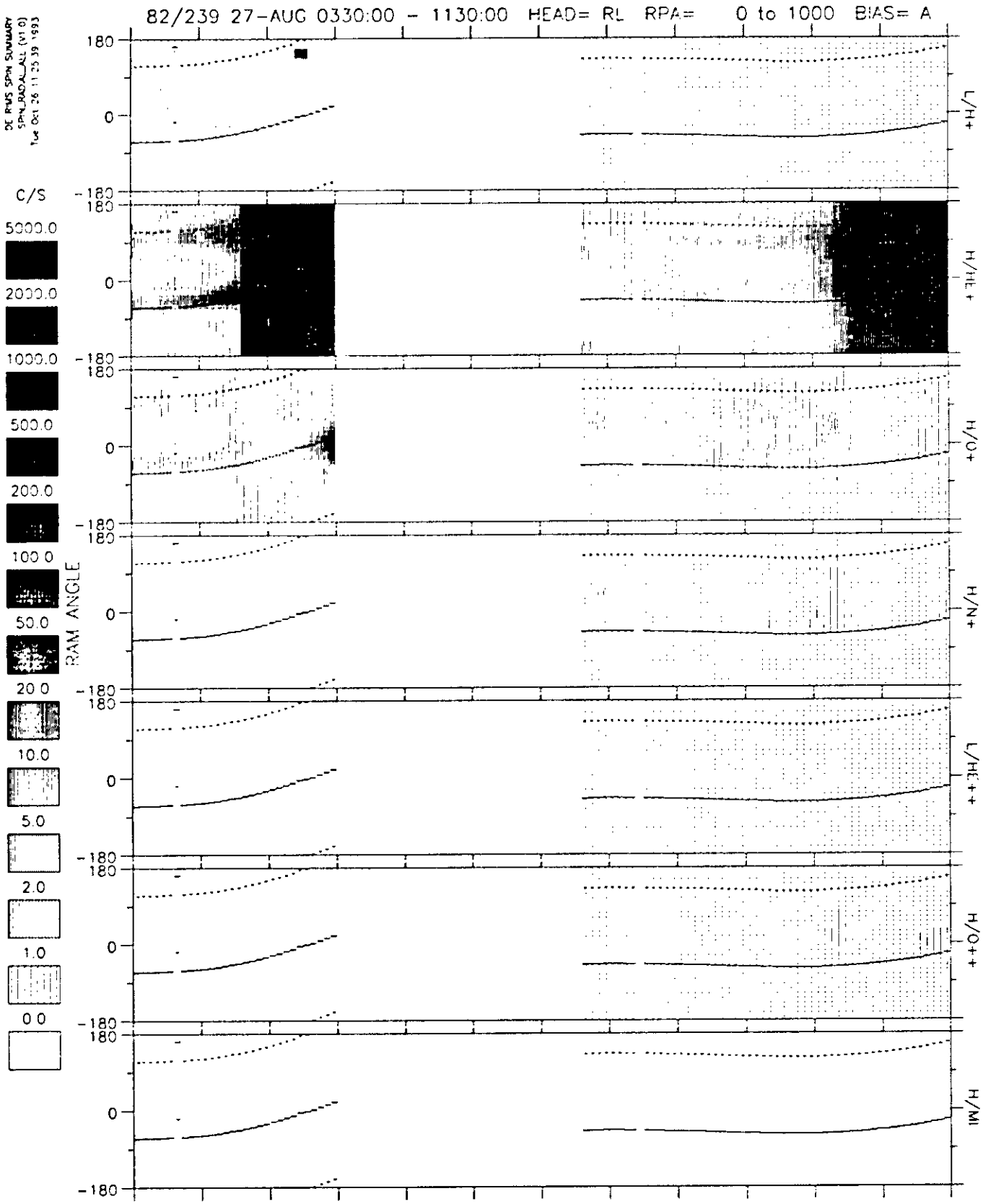
TIME	0000	0000	0000	0000	0000	0000	1140	1220	1300	1340	1420	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.6	4.7	4.5	4.1	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	8.7	6.6	5.4	4.7	4.2	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.8	12.0	12.1	12.3	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-7.51	6.02	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	70.2	67.0	64.6	62.5	60.6	DEGS



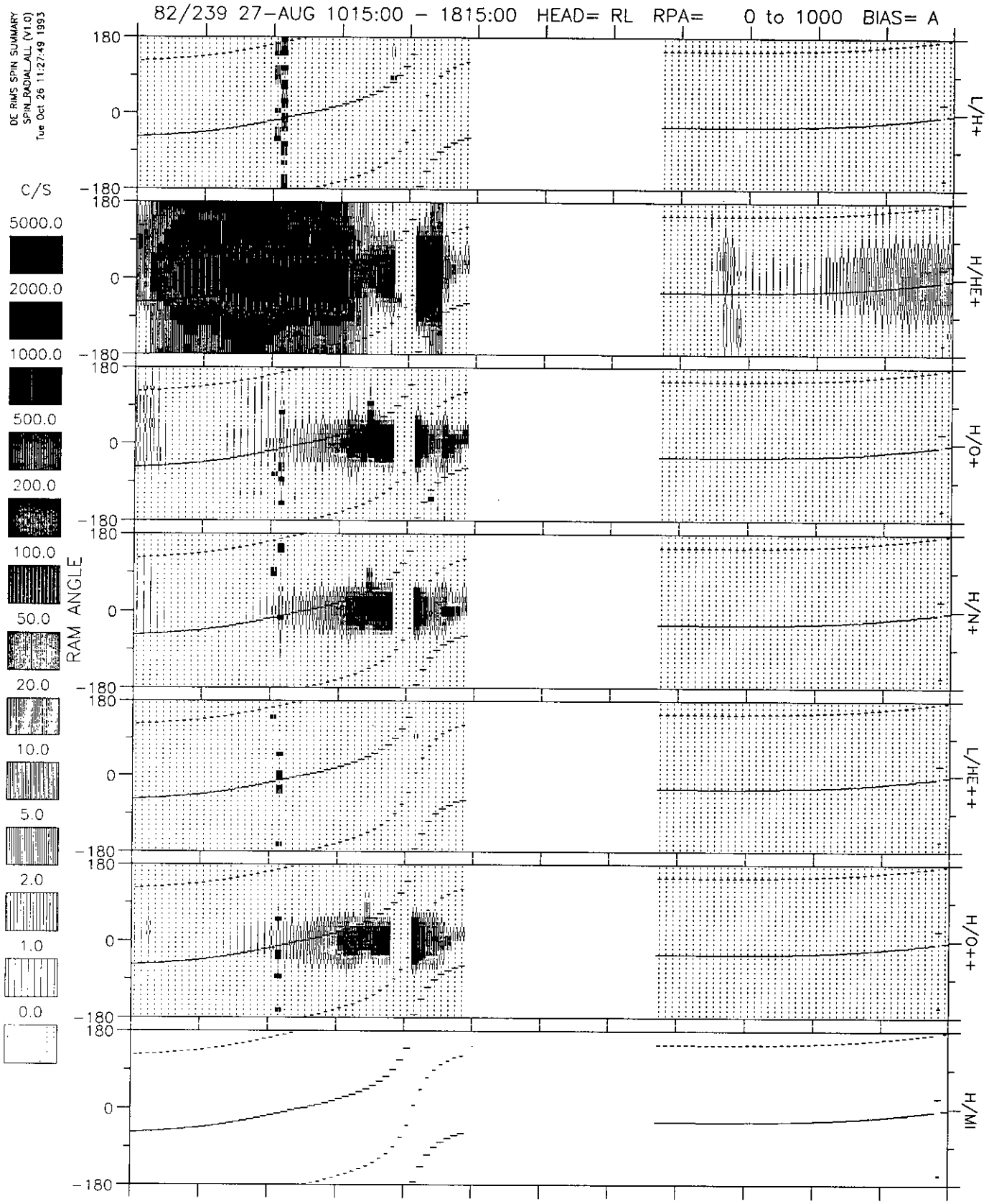
TIME	1455	1535	1615	0000	0000	0000	1855	1935	2015	2055	2135	HHMM
RE	3.4	2.3	1.1	0.0	0.0	0.0	4.5	4.7	4.6	4.3	3.6	RE
L	3.9	5.2	1.8	0.0	0.0	0.0	6.0	5.3	4.8	4.3	3.7	
MLT	12.4	12.6	0.3	0.0	0.0	0.0	12.8	12.8	12.7	12.6	12.4	HRS
MLAT	21.11	49.57	34.75	0.00	0.00	0.00	*****	*****	*****	-1.87	10.51	DEGS
INVLAT	59.7	64.1	41.0	0.0	0.0	0.0	65.9	64.3	62.8	61.0	58.8	DEGS



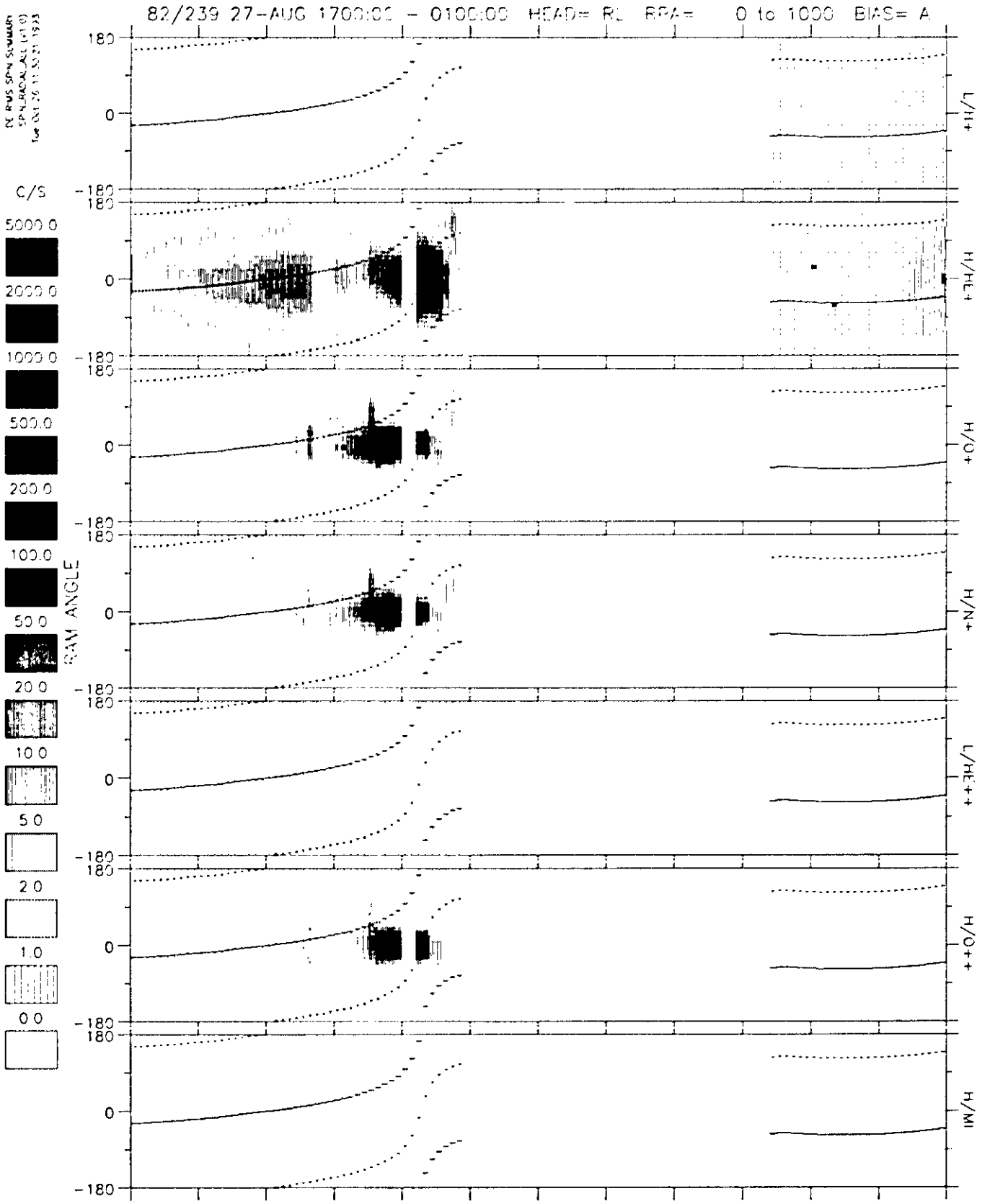
TIME	2110	2150	2230	2310	0000	0000	0000	0000	0000	0310	0350	HHMM
RE	4.1	3.3	2.2	1.1	0.0	0.0	0.0	0.0	0.0	4.6	4.2	RE
L	4.1	3.6	4.2	1.2	0.0	0.0	0.0	0.0	0.0	5.8	4.5	
MLT	12.6	12.3	11.8	0.9	0.0	0.0	0.0	0.0	0.0	12.6	12.4	HRS
MLAT	2.27	16.64	44.08	25.64	0.00	0.00	0.00	0.00	0.00	*****	*****	DEGS
INVLAT	60.2	58.0	60.7	23.0	0.0	0.0	0.0	0.0	0.0	65.5	62.0	DEGS

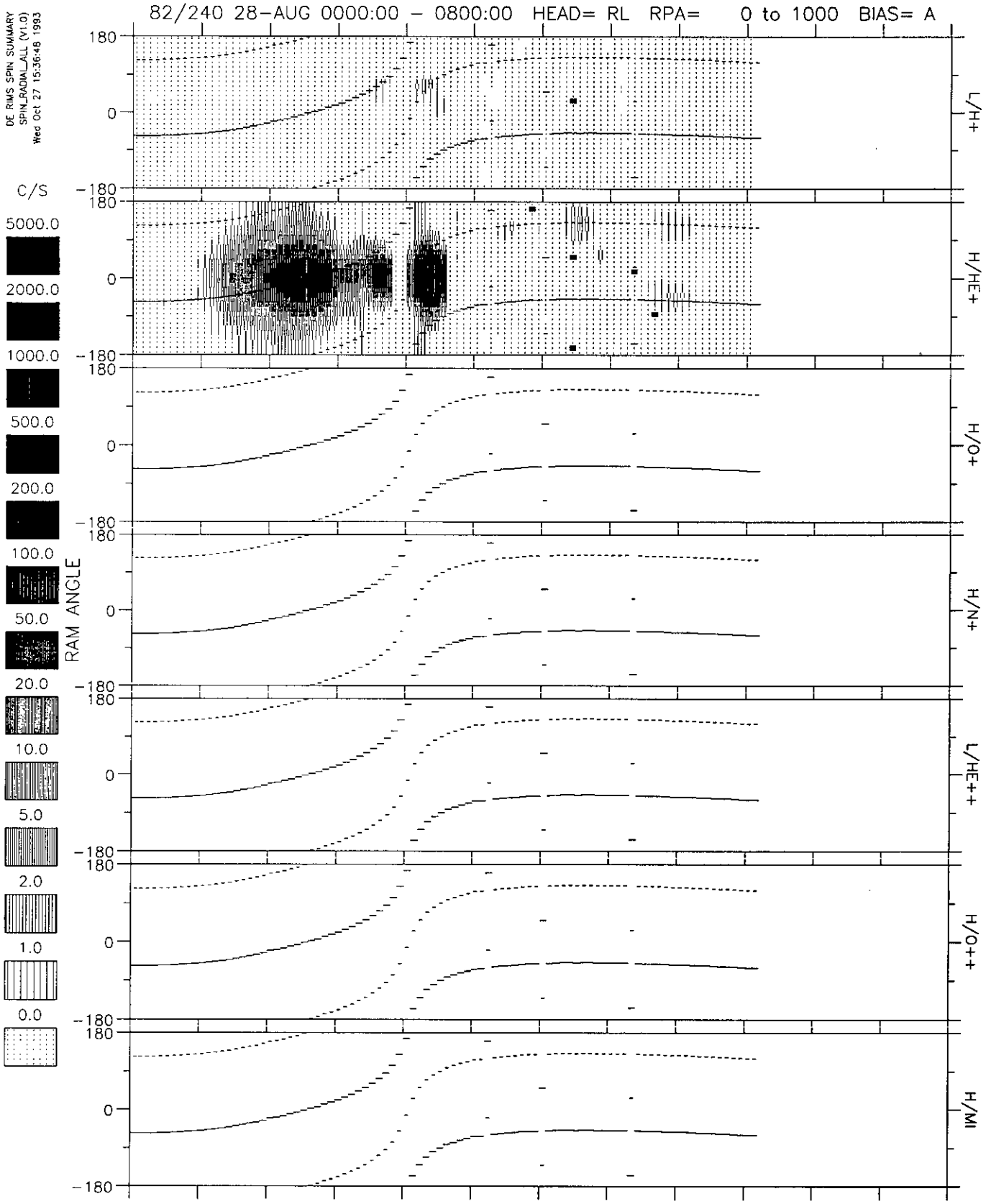


TIME	0410	0450	0000	0000	0000	0000	0810	0850	0930	1010	1050	HHMM
RE	3.9	3.1	0.0	0.0	0.0	0.0	4.2	4.6	4.7	4.5	4.1	RE
L	4.0	3.1	0.0	0.0	0.0	0.0	13.2	8.5	6.4	5.1	4.2	
MLT	12.4	12.4	0.0	0.0	0.0	0.0	11.5	11.7	11.8	12.0	12.2	HRS
MLAT	•••••	7.13	0.00	0.00	0.00	0.00	•••••	•••••	•••••	•••••	-3.97	DEGS
INVLAT	59.9	55.3	0.0	0.0	0.0	0.0	74.0	69.9	66.7	63.7	60.7	DEGS

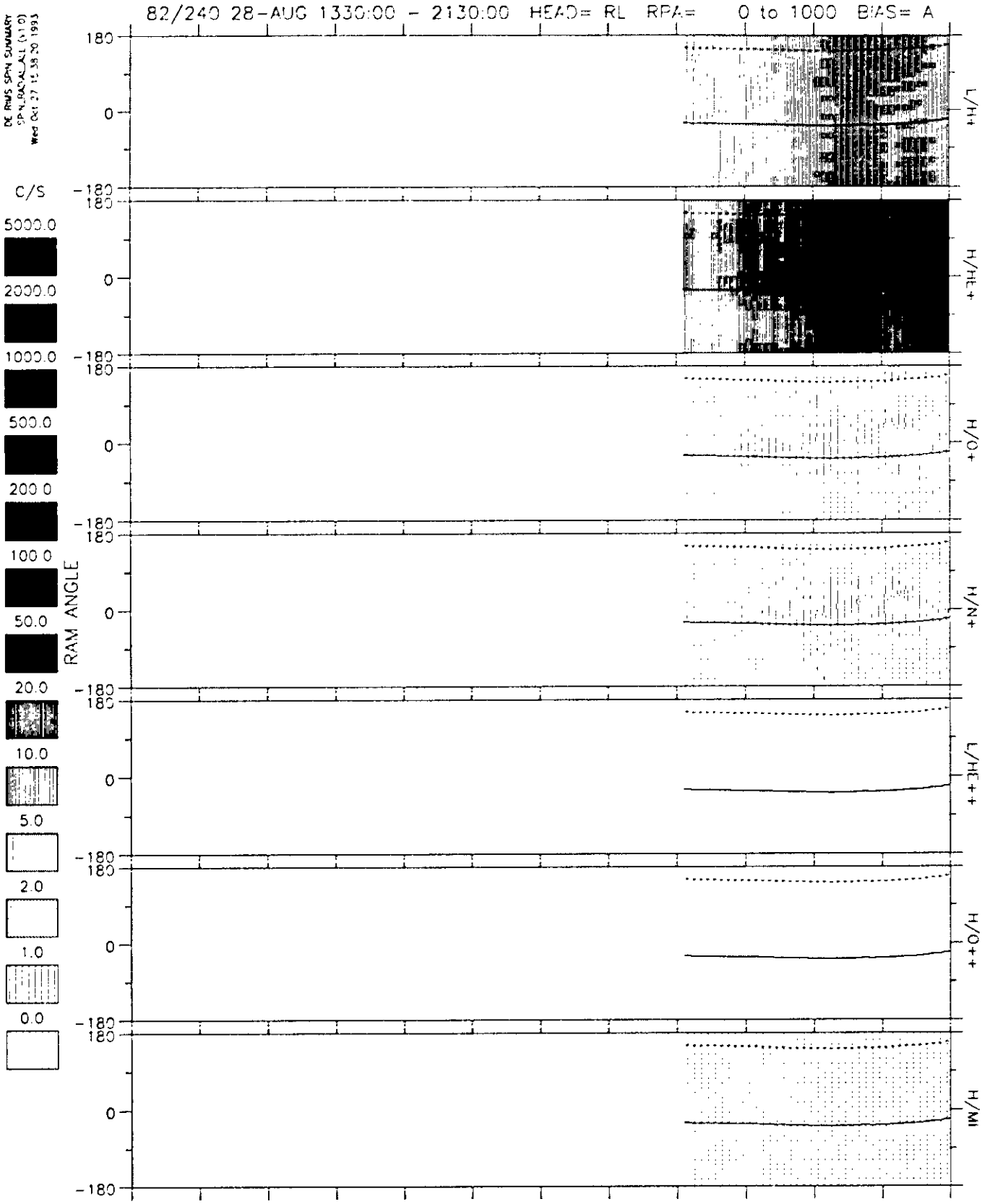


TIME	1055	1135	1215	1255	0000	0000	0000	1535	1615	1655	1735	HHMM
RE	4.0	3.2	2.1	1.1	0.0	0.0	0.0	4.5	4.7	4.5	4.2	RE
L	4.1	3.5	4.6	1.2	0.0	0.0	0.0	5.9	5.2	4.7	4.3	
MLT	12.2	12.4	13.1	23.9	0.0	0.0	0.0	12.1	12.3	12.4	12.4	HRS
MLAT	-2.01	16.78	50.67	17.48	0.00	0.00	0.00	*****	*****	-6.03	5.63	DEGS
INVLAT	60.3	57.6	62.2	21.7	0.0	0.0	0.0	65.6	63.9	62.4	61.0	DEGS

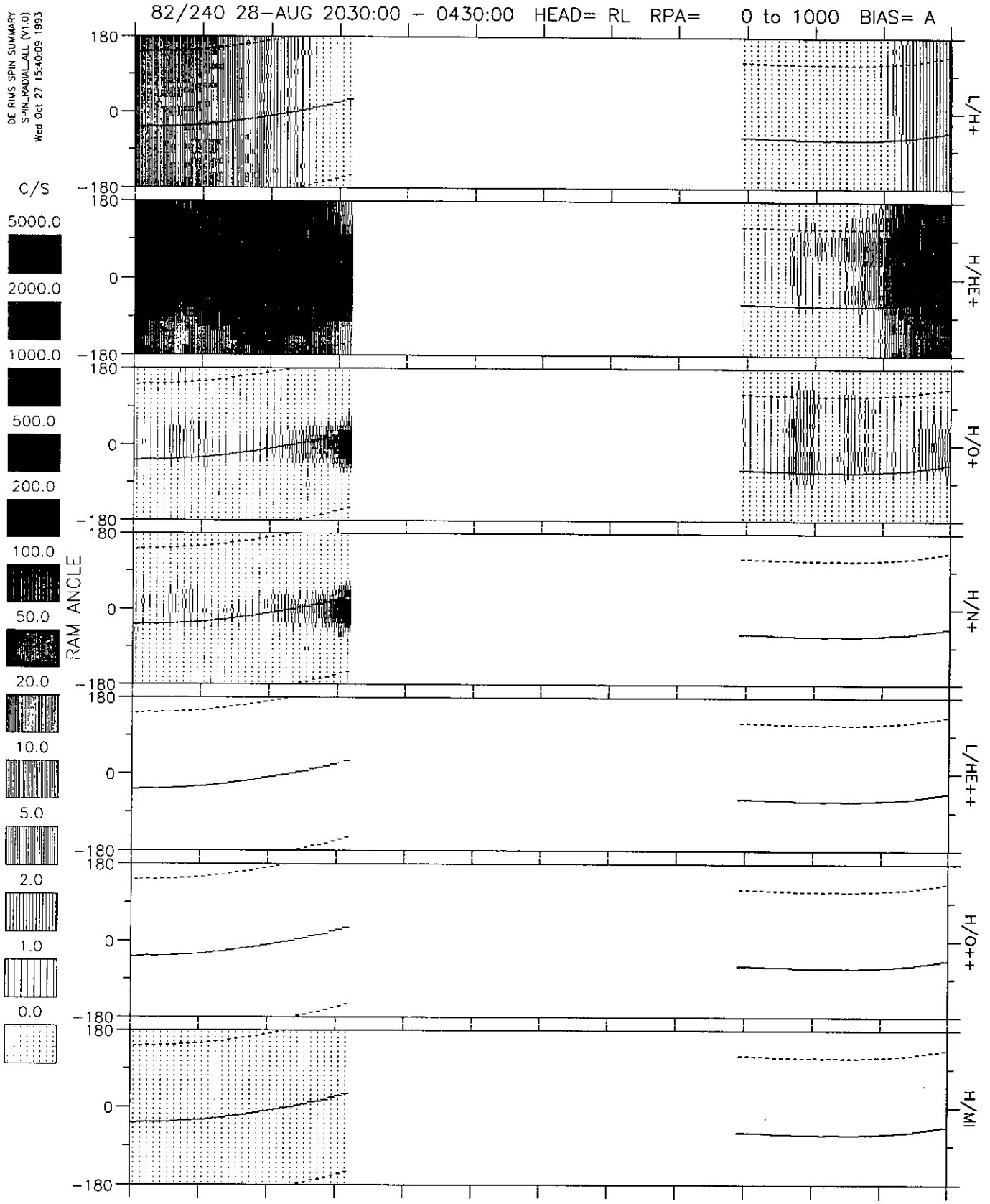

82/239 27-AUG 1700:00 - 0100:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAW ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M
TIME 1740 1820 1900 1940 0000 0000 0000 0000 0000 2340 0020 HHMM
RE 4.1 3.4 2.3 1.1 0.0 0.0 0.0 0.0 0.0 4.6 4.2 RE
L 4.2 4.0 5.7 1.4 0.0 0.0 0.0 0.0 0.0 5.3 4.4
MLT 12.4 12.3 12.0 0.8 0.0 0.0 0.0 0.0 0.0 12.7 12.5 HRS
MLAT 7.27 22.86 50.70 26.34 0.00 0.00 0.00 0.00 0.00 ***** ***** DEGS
INVLAT 60.8 60.1 65.2 31.3 0.0 0.0 0.0 0.0 0.0 64.2 61.5 DEGS



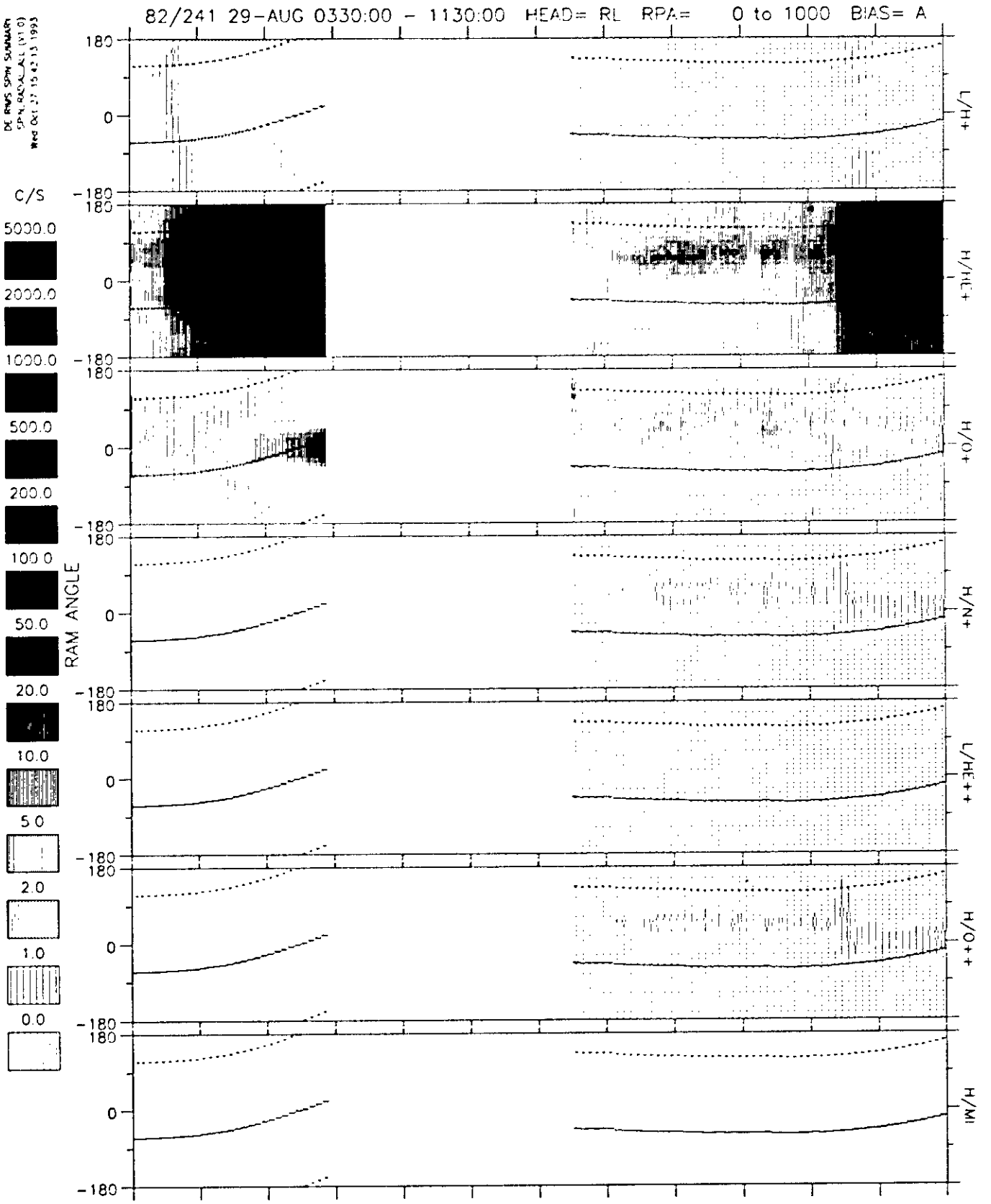
TIME	0040	0120	0200	0240	0320	0400	0440	0520	0600	0000	0000	HHMM
RE	3.9	3.1	1.9	1.2	2.5	3.4	4.2	4.6	4.7	0.0	0.0	RE
L	3.9	3.2	3.9	1.2	47.2	80.3	18.0	10.6	7.4	0.0	0.0	
MLT	12.4	12.2	11.8	0.3	22.9	13.1	12.4	12.2	12.1	0.0	0.0	HRS
MLAT	-5.79	10.16	44.24	1.66	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	59.8	55.9	59.6	25.7	81.6	83.6	76.4	72.1	68.5	0.0	0.0	DEGS



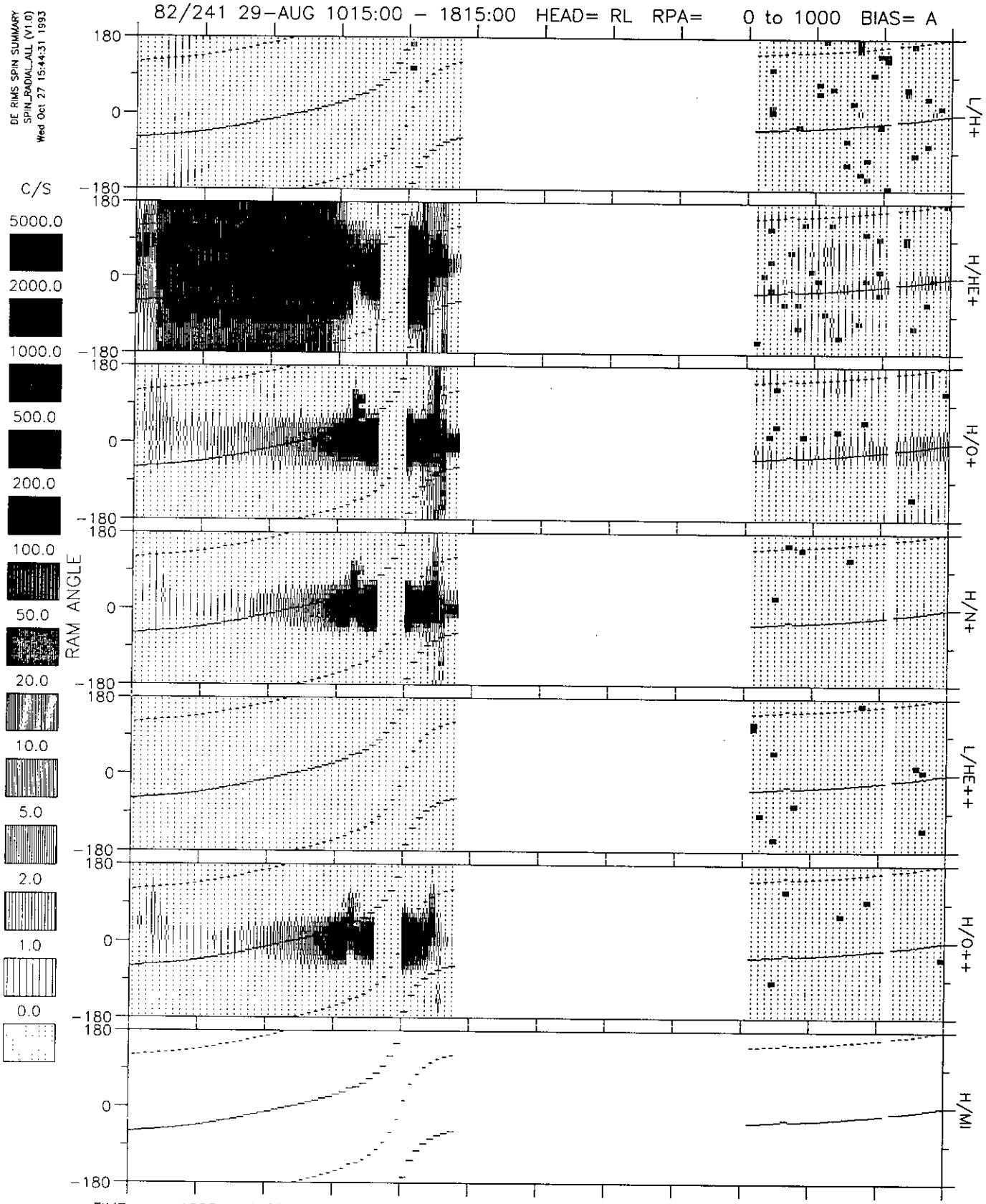
TIME	0000	0000	0000	0000	0000	0000	0000	0000	1930	2010	2050	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.6	4.3	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	4.8	4.3	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	12.6	12.5	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-2.56	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.5	62.9	61.0	DEGS



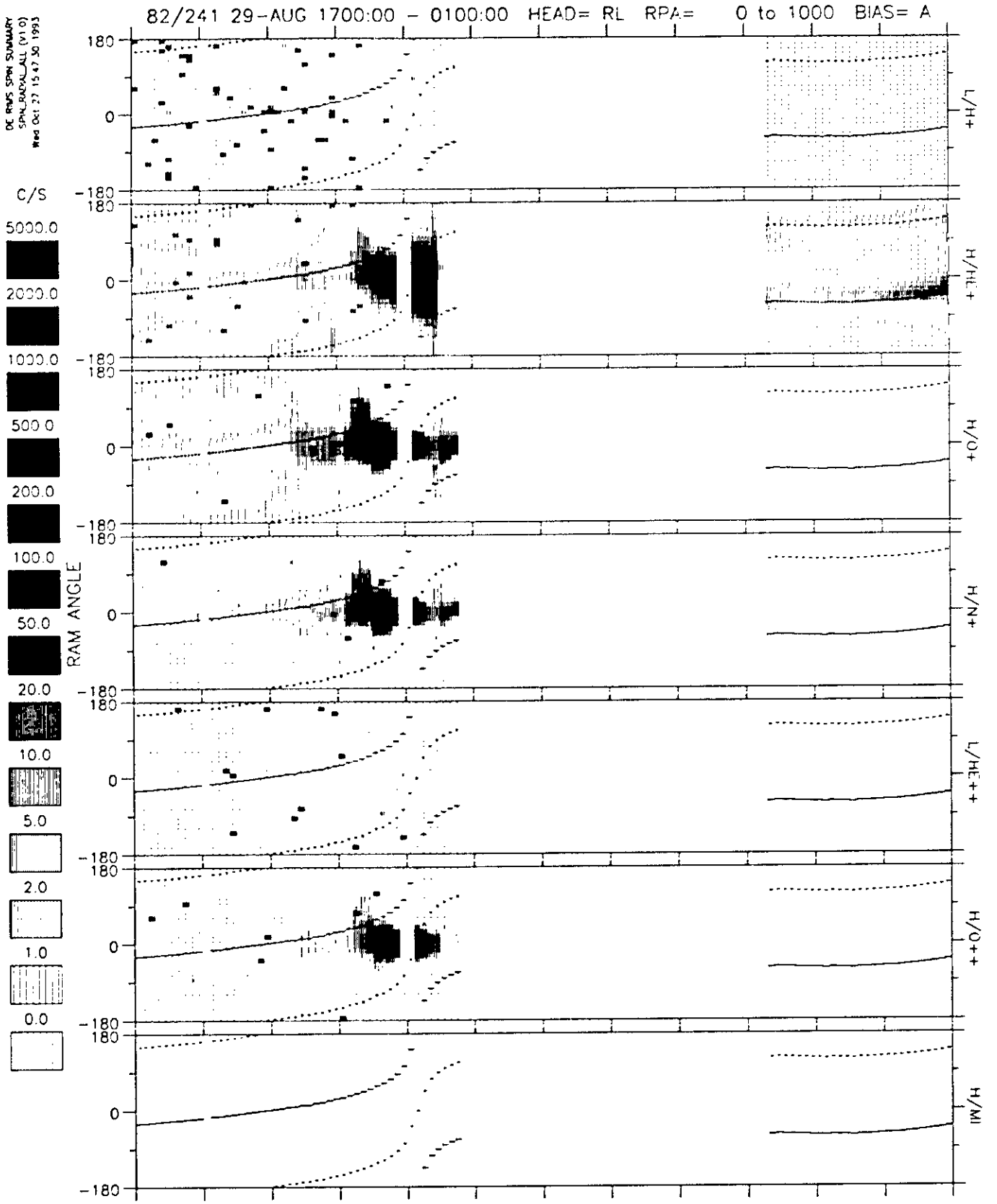
TIME	2110	2150	2230	0000	0000	0000	0000	0000	0230	0310	0350	HHMM
RE	4.0	3.2	2.0	0.0	0.0	0.0	0.0	0.0	4.7	4.5	4.1	RE
L	4.0	3.5	4.7	0.0	0.0	0.0	0.0	0.0	7.3	5.7	4.4	
MLT	12.4	12.2	11.5	0.0	0.0	0.0	0.0	0.0	12.6	12.4	12.3	HRS
MLAT	3.10	18.39	49.57	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	DEGS
INVLAT	59.9	57.7	62.6	0.0	0.0	0.0	0.0	0.0	68.4	65.3	61.6	DEGS



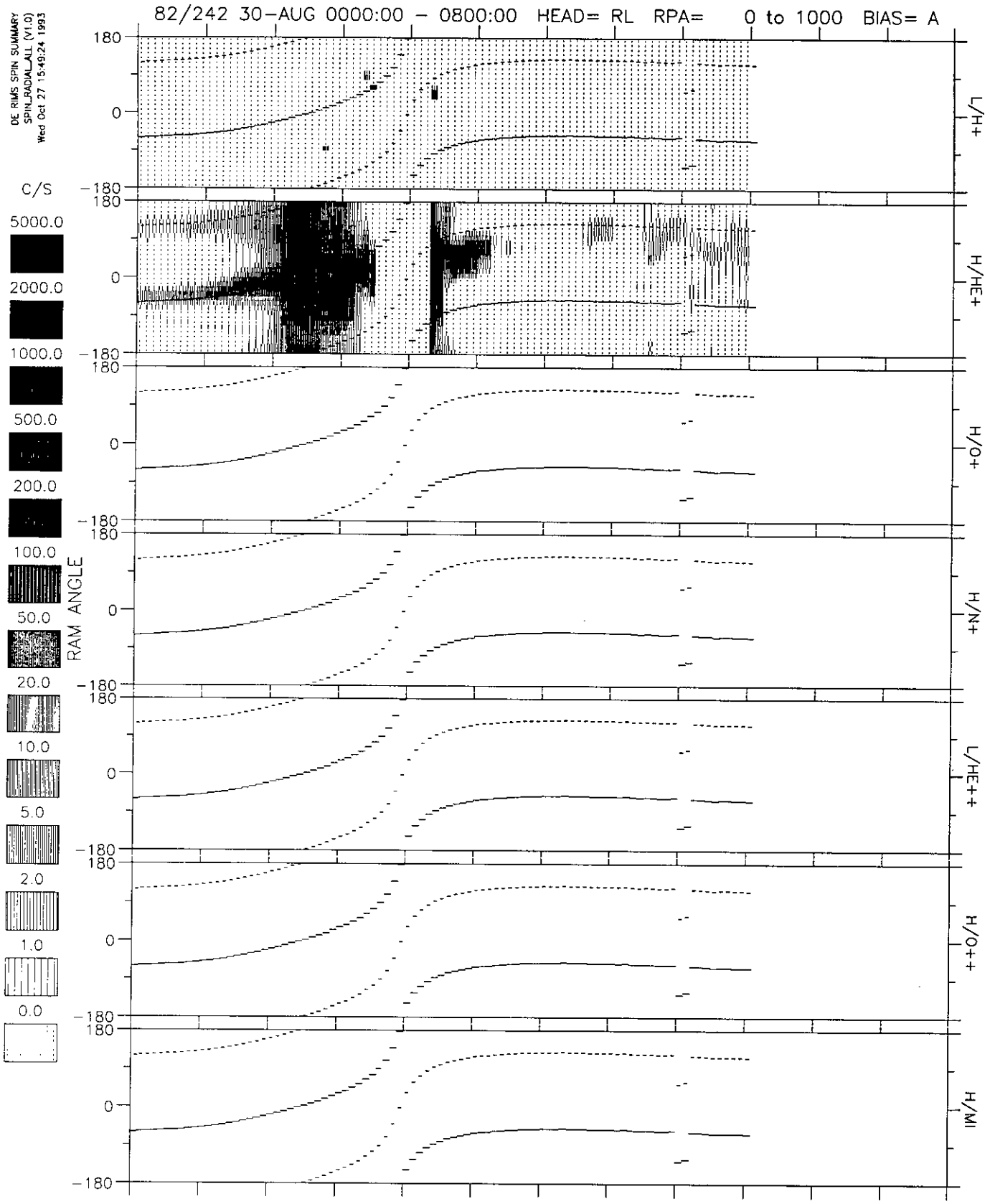
TIME	0410	0450	0000	0000	0000	0000	0810	0850	0930	1010	1050	HHMM
RE	3.8	3.0	0.0	0.0	0.0	0.0	4.3	4.6	4.7	4.5	4.0	RE
L	3.8	3.0	0.0	0.0	0.0	0.0	12.6	8.3	6.2	5.0	4.1	
MLT	12.3	12.2	0.0	0.0	0.0	0.0	11.4	11.6	11.8	11.9	12.1	HRS
MLAT	-9.70	9.72	0.00	0.00	0.00	0.00	•••••	•••••	•••••	•••••	-2.40	DEGS
INVLAT	59.4	54.8	0.0	0.0	0.0	0.0	73.6	69.7	66.4	63.4	60.3	DEGS



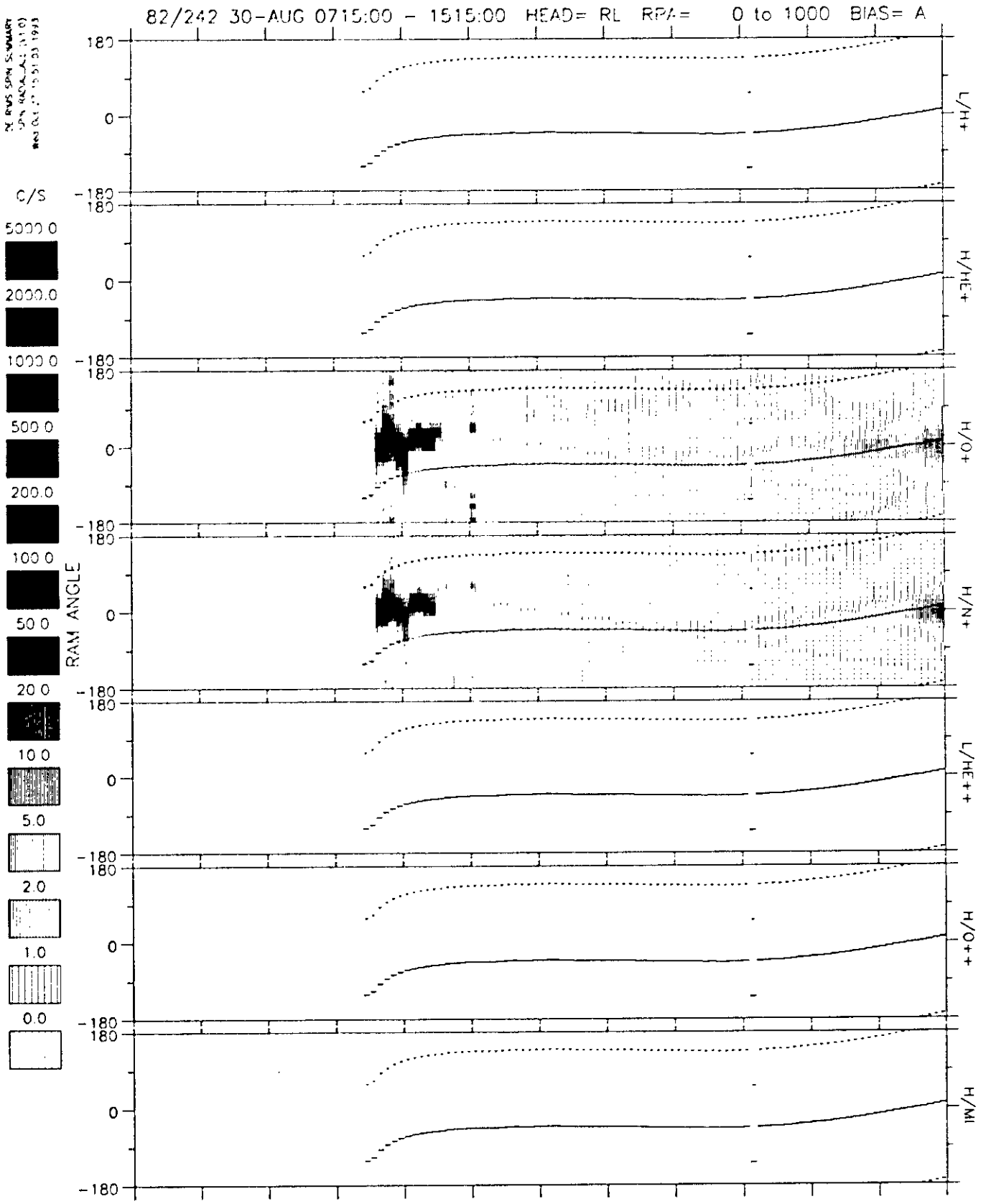
TIME	1055	1135	1215	1255	0000	0000	0000	0000	0000	1655	1735	HHMM
RE	3.9	3.1	1.9	1.2	0.0	0.0	0.0	0.0	0.0	4.5	4.1	RE
L	4.0	3.4	5.7	1.3	0.0	0.0	0.0	0.0	0.0	4.6	4.2	
MLT	12.1	12.3	13.2	0.3	0.0	0.0	0.0	0.0	0.0	12.2	12.3	HRS
MLAT	-0.42	19.42	57.62	*****	0.00	0.00	0.00	0.00	0.00	-5.21	6.16	DEGS
INVLAT	59.9	57.3	65.3	29.7	0.0	0.0	0.0	0.0	0.0	62.2	60.8	DEGS



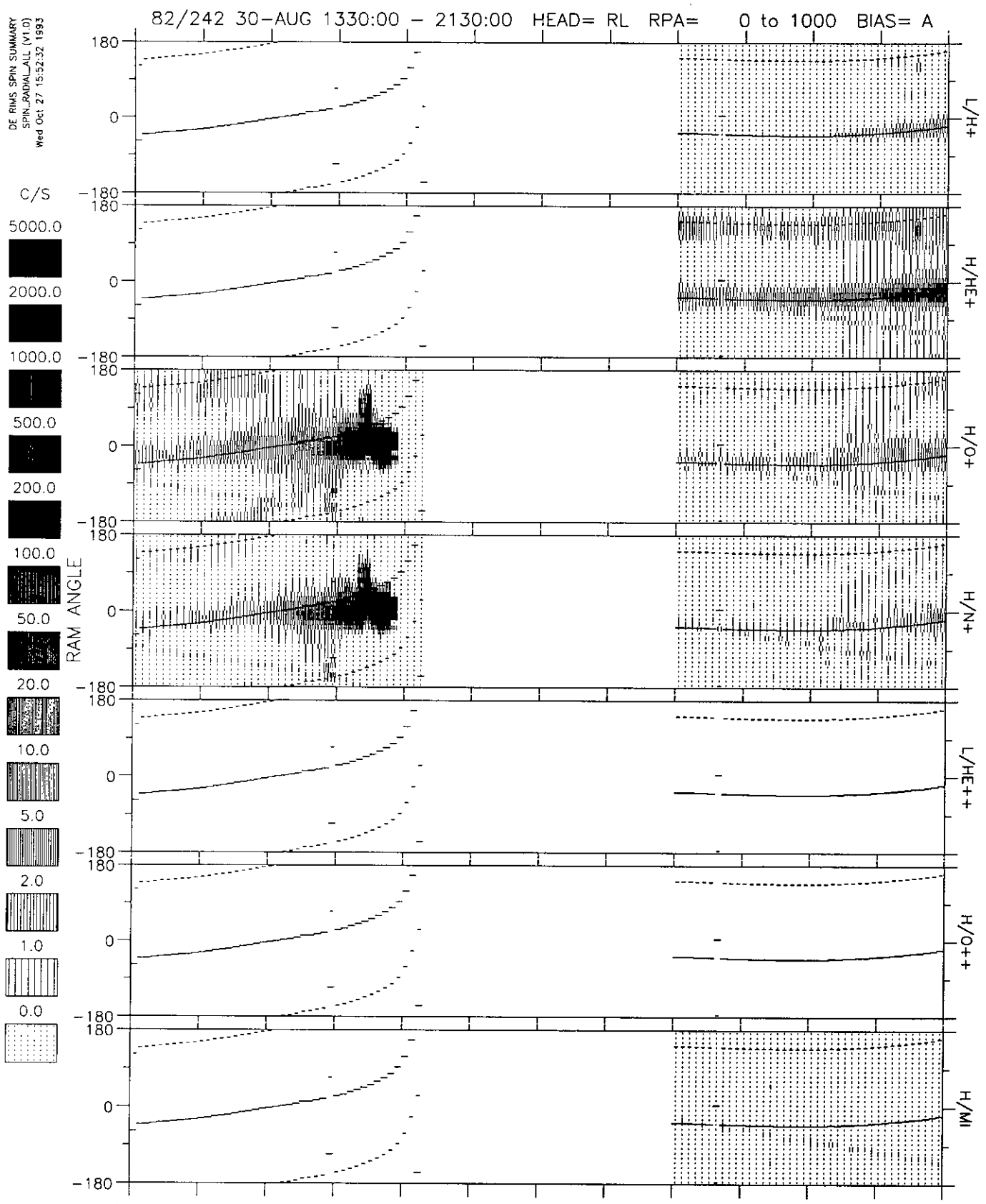
TIME	0000	1820	1900	1940	0000	0000	0000	0000	0000	2340	0020	HHMM
RE	0.0	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	4.5	4.2	RE
L	0.0	4.0	6.7	1.0	0.0	0.0	0.0	0.0	0.0	5.2	4.3	
MLT	0.0	12.2	11.7	0.4	0.0	0.0	0.0	0.0	0.0	12.6	12.4	HRS
MLAT	0.00	24.75	55.99	2.29	0.00	0.00	0.00	0.00	0.00	*****	*****	DEGS
INVLAT	0.0	59.9	67.3	11.0	0.0	0.0	0.0	0.0	0.0	64.0	61.1	DEGS



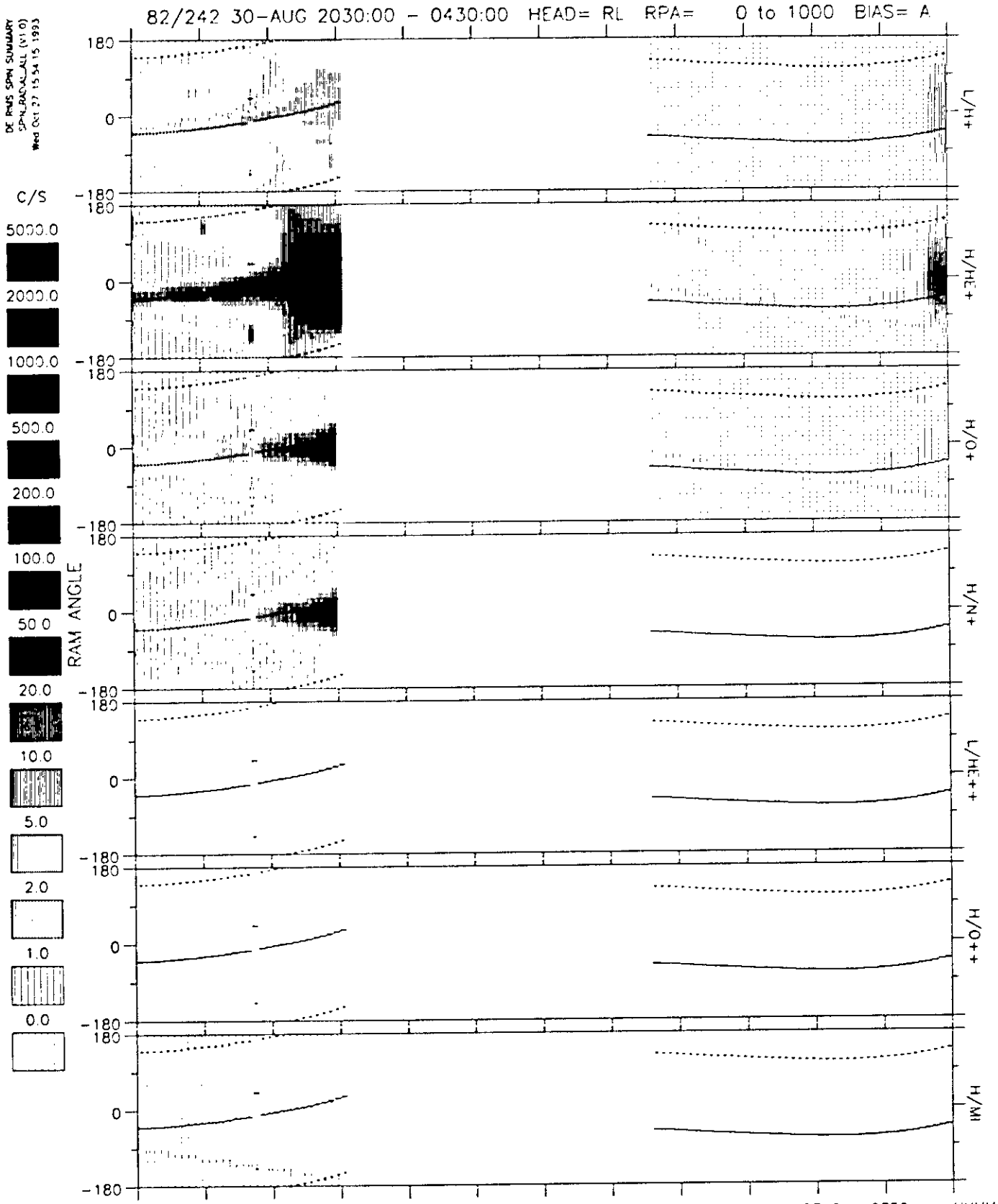
TIME	0040	0120	0200	0240	0320	0400	0440	0520	0600	0000	0000	HHMM
RE	3.9	3.0	1.8	1.3	2.6	3.6	4.2	4.6	4.7	0.0	0.0	RE
L	3.8	3.1	4.9	1.5	96.7	54.1	17.1	10.3	7.4	0.0	0.0	
MLT	12.3	12.1	11.6	0.1	22.3	12.7	12.2	12.1	12.0	0.0	0.0	HRS
MLAT	-4.89	12.29	51.82	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	59.3	55.3	63.2	36.5	84.2	82.2	76.0	71.8	68.5	0.0	0.0	DEGS



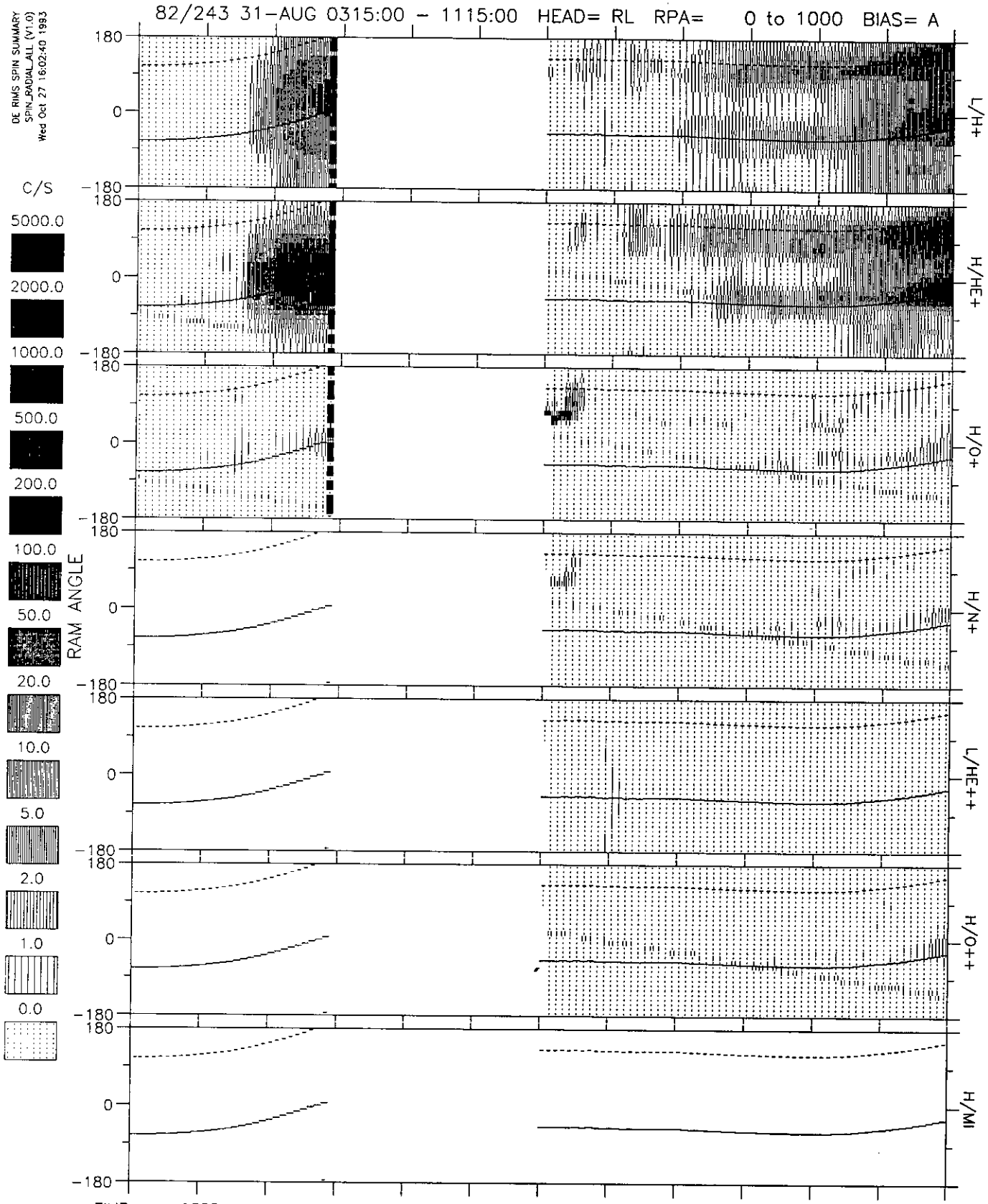
TIME	0000	0000	0000	0955	1035	1115	1155	1235	1315	1355	1435	HHMM
RE	0.0	0.0	0.0	2.1	3.3	4.0	4.5	4.7	4.6	4.2	3.6	RE
L	0.0	0.0	0.0	20.0	23.0	10.5	7.3	5.9	5.0	4.3	3.9	
MLT	0.0	0.0	0.0	2.5	10.0	11.1	11.4	11.7	11.8	12.0	12.1	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	-0.26	15.38	DEGS
INVLAT	0.0	0.0	0.0	77.1	77.9	72.0	68.3	65.7	63.4	61.3	59.6	DEGS



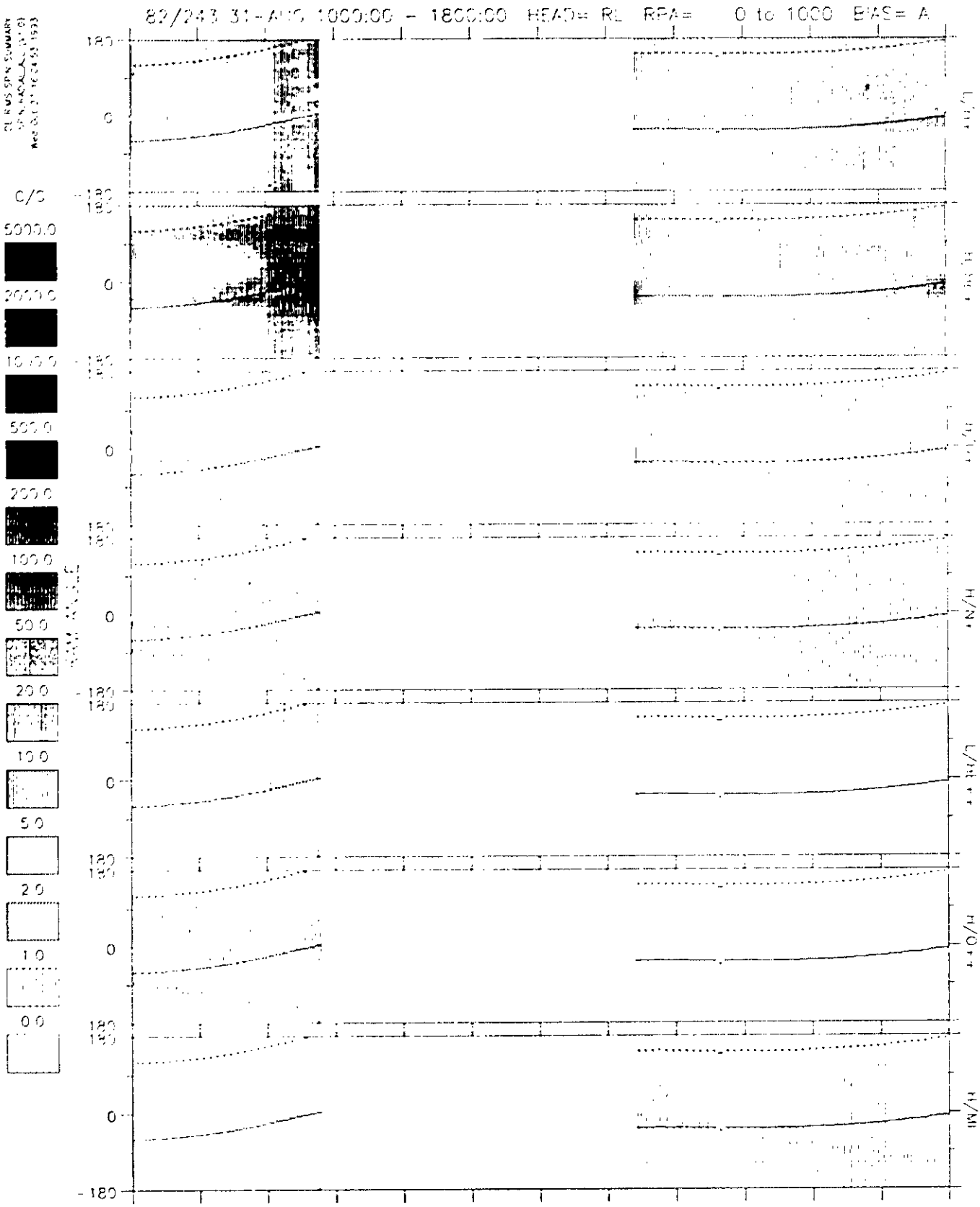
TIME	1410	1450	1530	1610	0000	0000	0000	1850	1930	2010	2050	HHMM
RE	4.0	3.3	2.2	1.1	0.0	0.0	0.0	4.5	4.7	4.6	4.2	RE
L	4.1	3.9	6.0	1.1	0.0	0.0	0.0	6.0	5.3	4.8	4.2	
MLT	12.1	12.2	12.4	0.1	0.0	0.0	0.0	12.5	12.5	12.4	12.3	HRS
MLAT	5.13	22.89	54.79	8.89	0.00	0.00	0.00	*****	*****	*****	-1.87	DEGS
INVLAT	60.6	59.5	65.9	13.3	0.0	0.0	0.0	66.0	64.4	62.8	60.8	DEGS



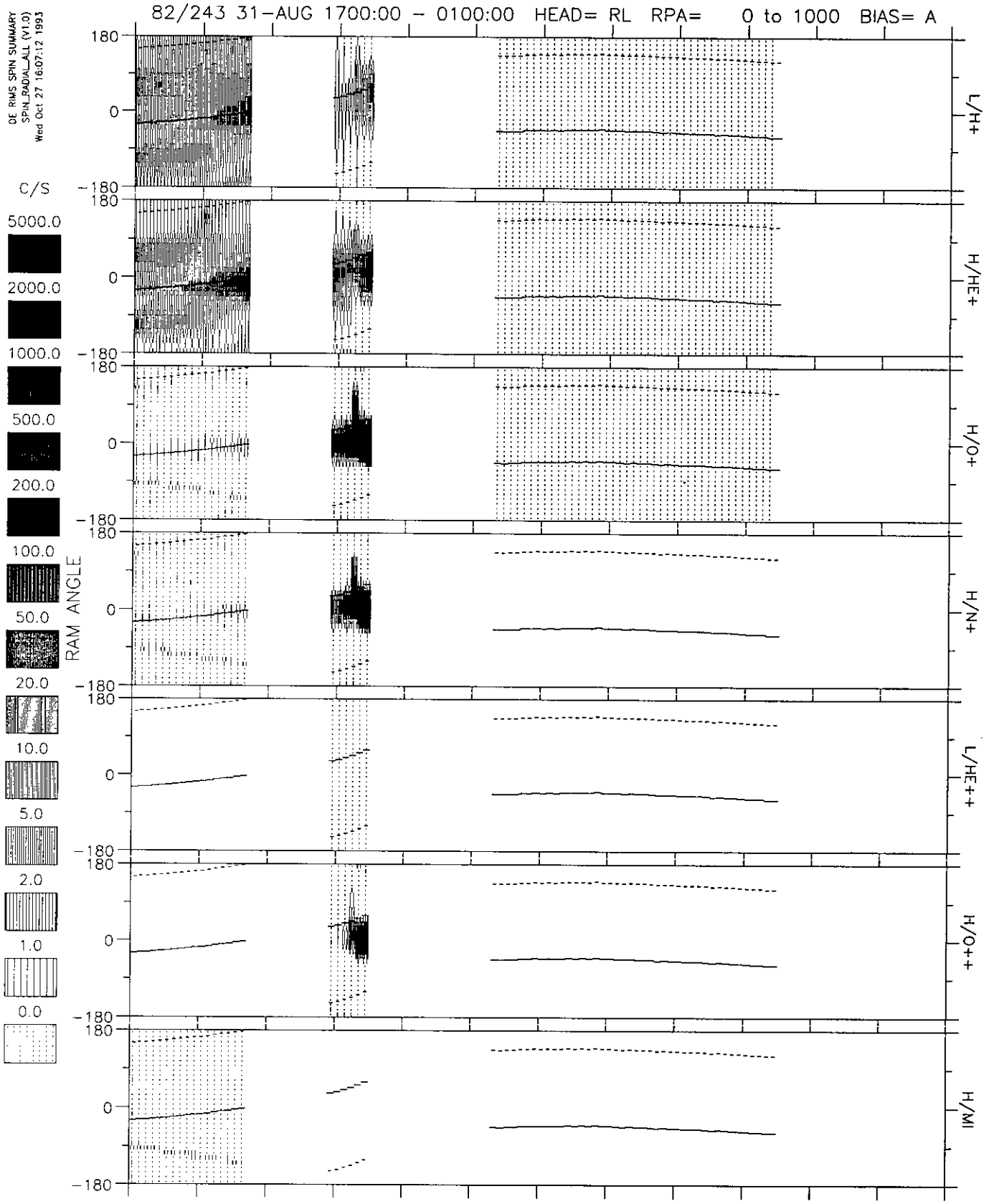
TIME	2110	2150	2230	0000	0000	0000	0000	0150	0230	0310	0350	HHMM
RE	3.9	3.1	2.0	0.0	0.0	0.0	0.0	4.6	4.7	4.5	4.1	RE
L	3.9	3.4	4.8	0.0	0.0	0.0	0.0	9.5	7.2	5.6	4.3	
MLT	12.3	12.0	11.3	0.0	0.0	0.0	0.0	12.7	12.4	12.3	12.2	HRS
MLAT	4.02	20.41	50.63	0.00	0.00	0.00	0.00	*****	*****	*****	*****	DEGS
INVLAT	59.6	57.3	62.9	0.0	0.0	0.0	0.0	71.1	68.2	65.0	61.1	DEGS



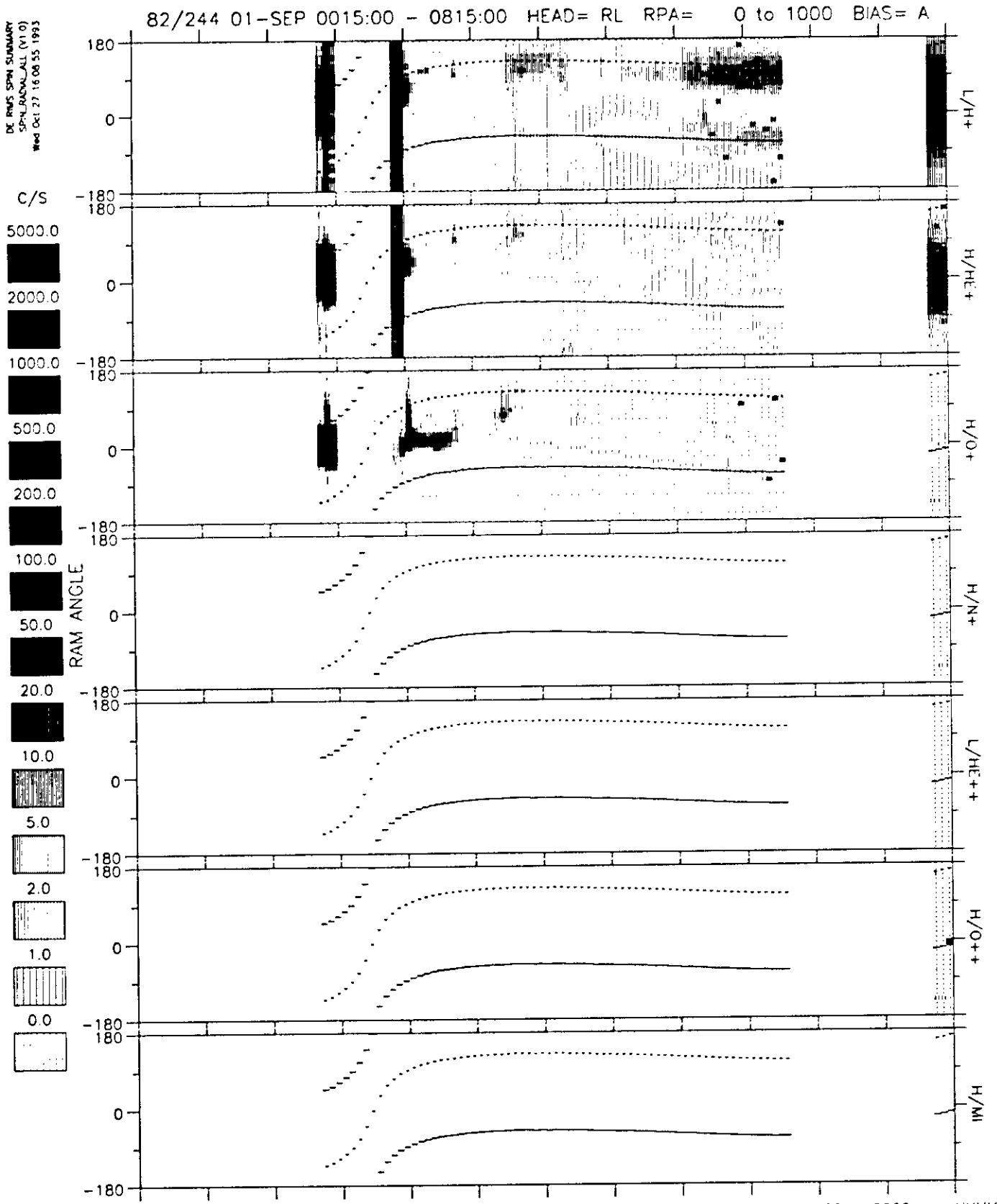
TIME	0355	0435	0000	0000	0000	0715	0755	0835	0915	0955	1035	HHMM
RE	4.0	3.2	0.0	0.0	0.0	3.4	4.1	4.5	4.7	4.5	4.1	RE
L	4.1	3.1	0.0	0.0	0.0	47.4	15.0	9.2	6.7	5.3	4.3	
MLT	12.2	12.1	0.0	0.0	0.0	10.3	11.1	11.4	11.6	11.7	11.9	HRS
MLAT	*****	3.26	0.00	0.00	0.00	*****	*****	*****	*****	*****	-6.64	DEGS
INVLAT	60.6	55.7	0.0	0.0	0.0	81.7	75.0	70.7	67.3	64.2	61.1	DEGS

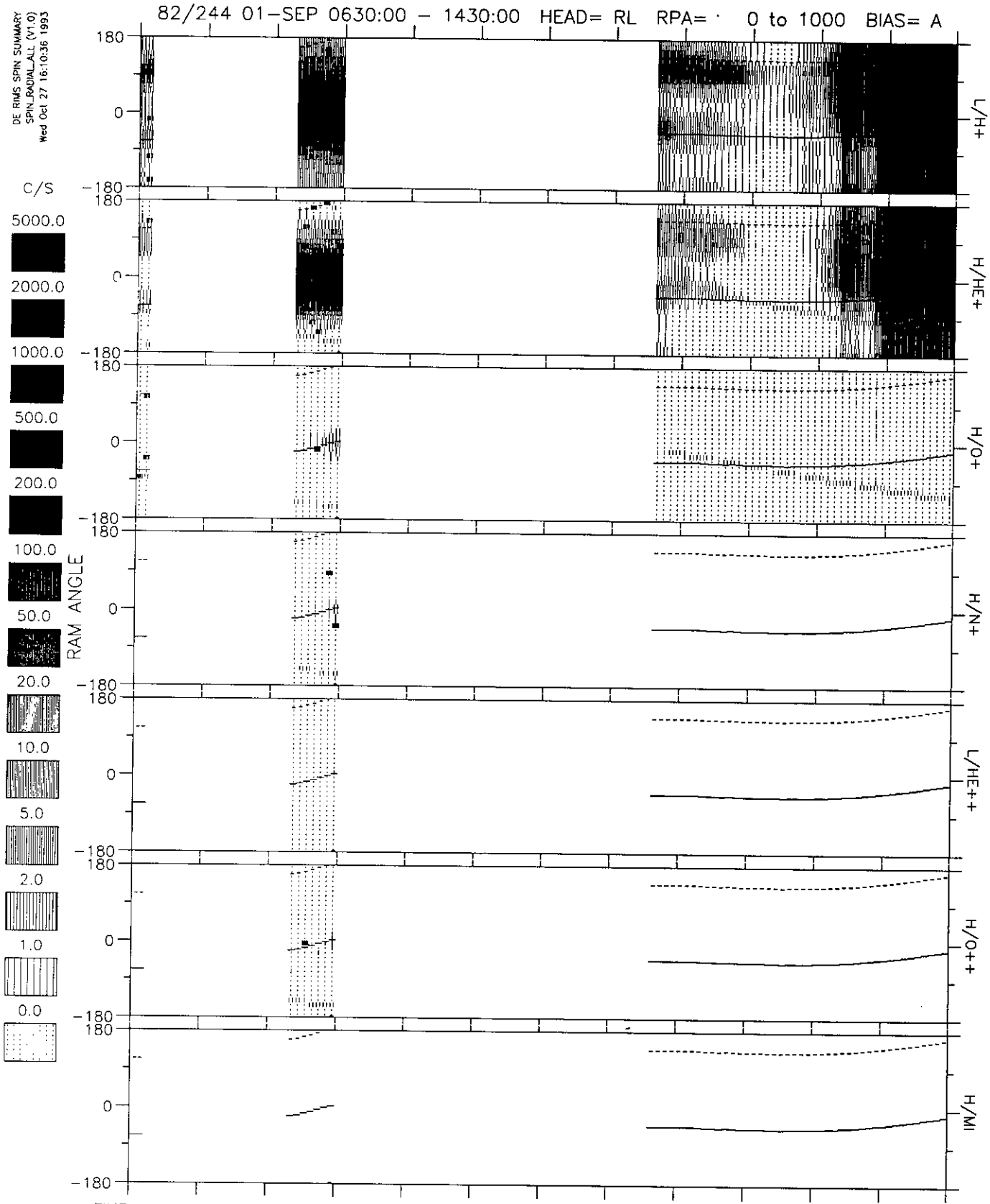


TIME	1040	1120	0000	0000	0000	0000	0000	1520	1600	1640	1720	HHMM
RE	4.1	3.3	0.0	0.0	0.0	0.0	0.0	4.5	4.7	4.6	4.2	RE
L	4.2	3.5	0.0	0.0	0.0	0.0	0.0	6.1	5.3	4.7	4.3	
MLT	11.9	12.1	0.0	0.0	0.0	0.0	0.0	11.9	12.0	12.1	12.1	HRS
MLAT	-4.77	13.26	0.00	0.00	0.00	0.00	0.00	*****	*****	-8.54	2.90	DEGS
INVLAT	60.7	57.7	0.0	0.0	0.0	0.0	0.0	66.1	64.2	62.6	61.1	DEGS

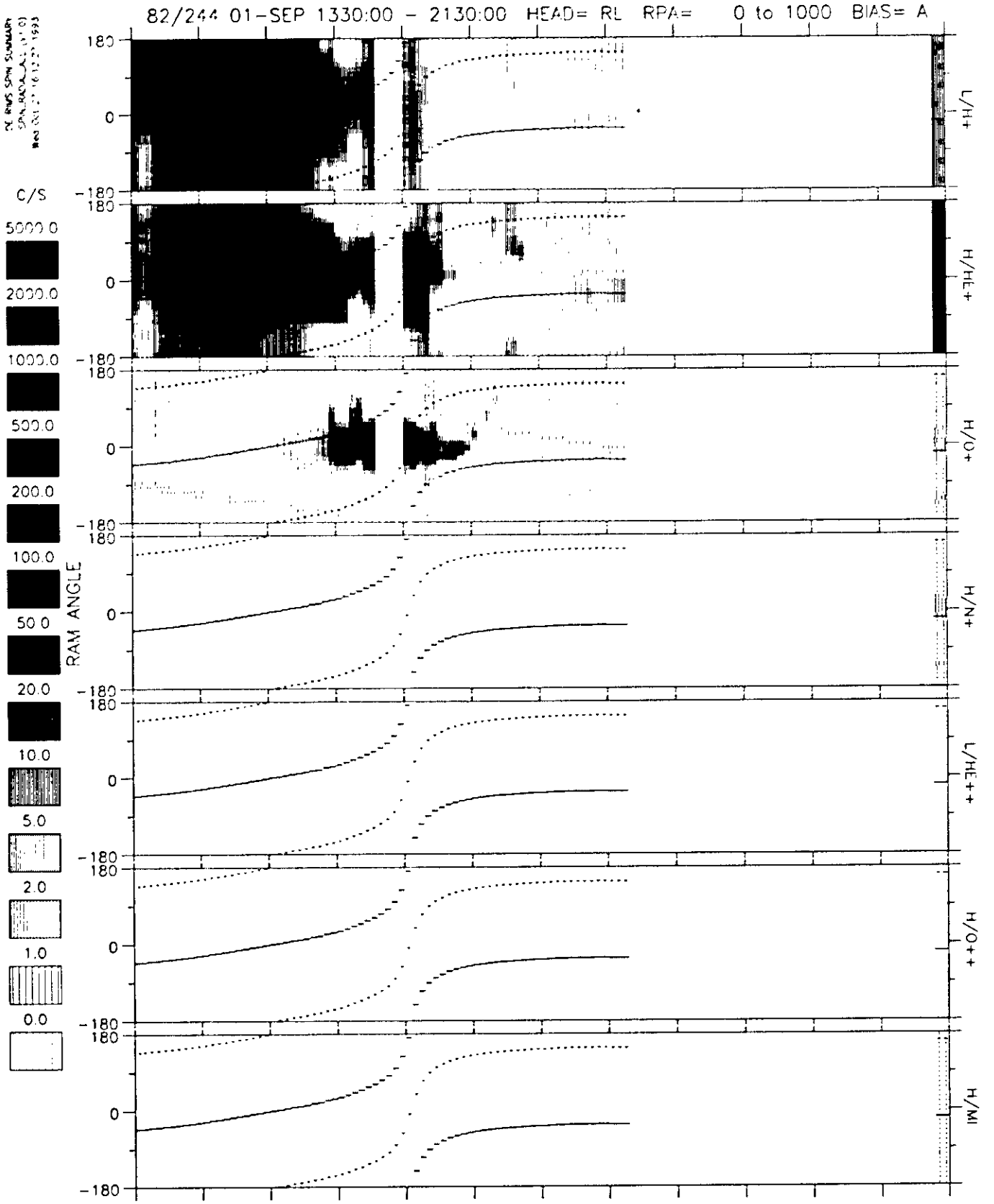


TIME	1740	0000	1900	0000	0000	2100	2140	2220	2300	0000	0000	HHMM
RE	3.9	0.0	1.9	0.0	0.0	3.5	4.2	4.6	4.7	0.0	0.0	RE
L	4.1	0.0	9.1	0.0	0.0	13.3	8.9	7.2	6.1	0.0	0.0	
MLT	12.1	0.0	11.4	0.0	0.0	13.4	13.0	12.8	12.6	0.0	0.0	HRS
MLAT	9.48	0.00	62.61	0.00	0.00	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	60.4	0.0	70.6	0.0	0.0	74.1	70.4	68.2	66.1	0.0	0.0	DEGS

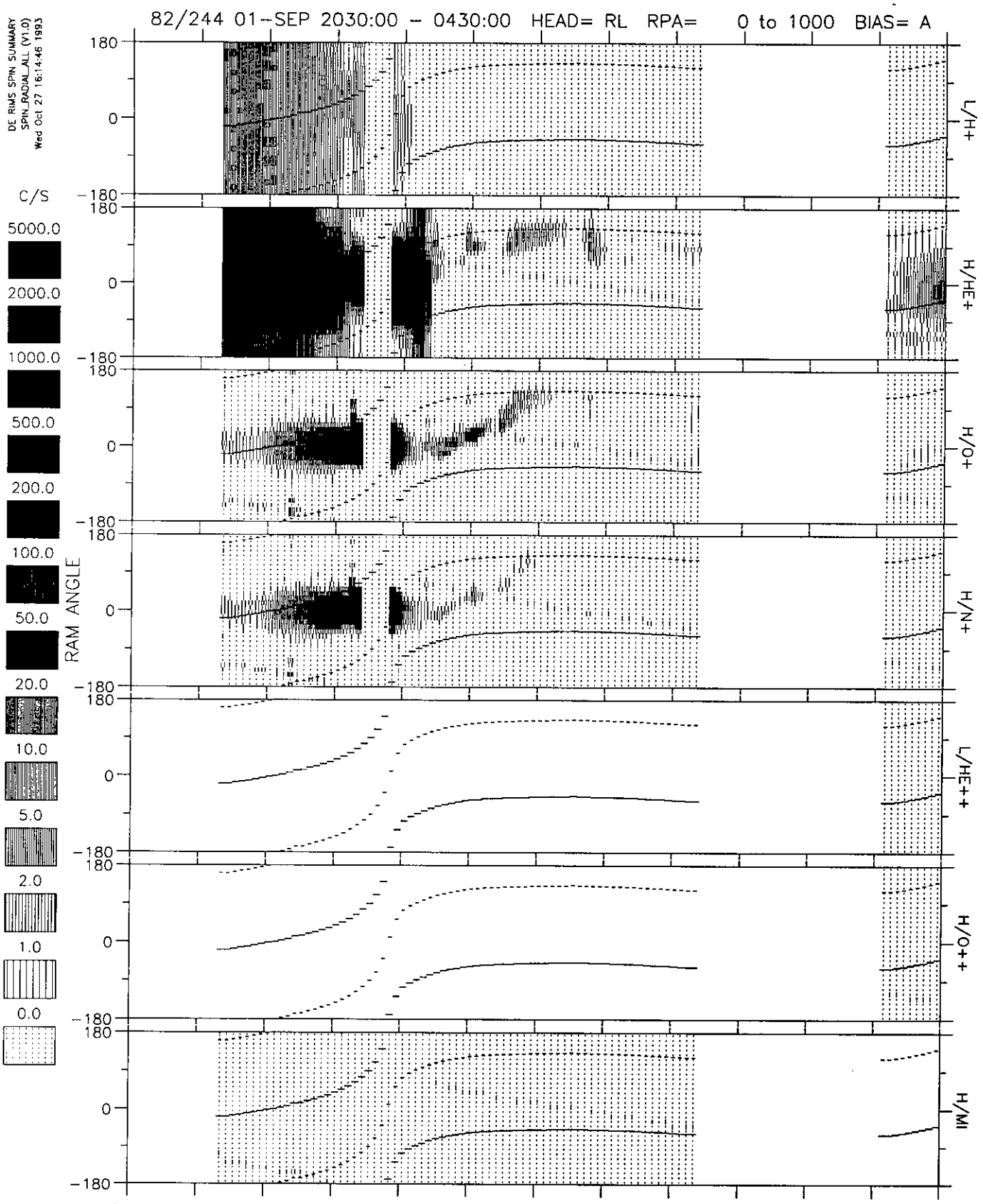

DE RWS SPIN SUMMARY
SP-N_RADIAL_ALL (V1.0)
Wed Oct 27 16:08:55 1993
82/244 01-SEP 0015:00 - 0815:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 0000 0000 0215 0255 0335 0415 0455 0535 0615 0000 0000 HHMM
RE 0.0 0.0 1.1 2.0 3.2 4.0 4.4 4.7 4.6 0.0 0.0 RE
L 0.0 0.0 6.1 7.7 100.0 27.4 13.2 8.7 6.3 0.0 0.0
MLT 0.0 0.0 1.2 23.5 14.0 12.2 12.0 11.9 11.9 0.0 0.0 HPS
MLAT 0.00 0.00 68.26 ***** ***** ***** ***** ***** ***** 0.00 0.00 DEGS
INVLAT 0.0 0.0 66.0 68.8 87.2 79.0 74.0 70.2 66.6 0.0 0.0 DEGS



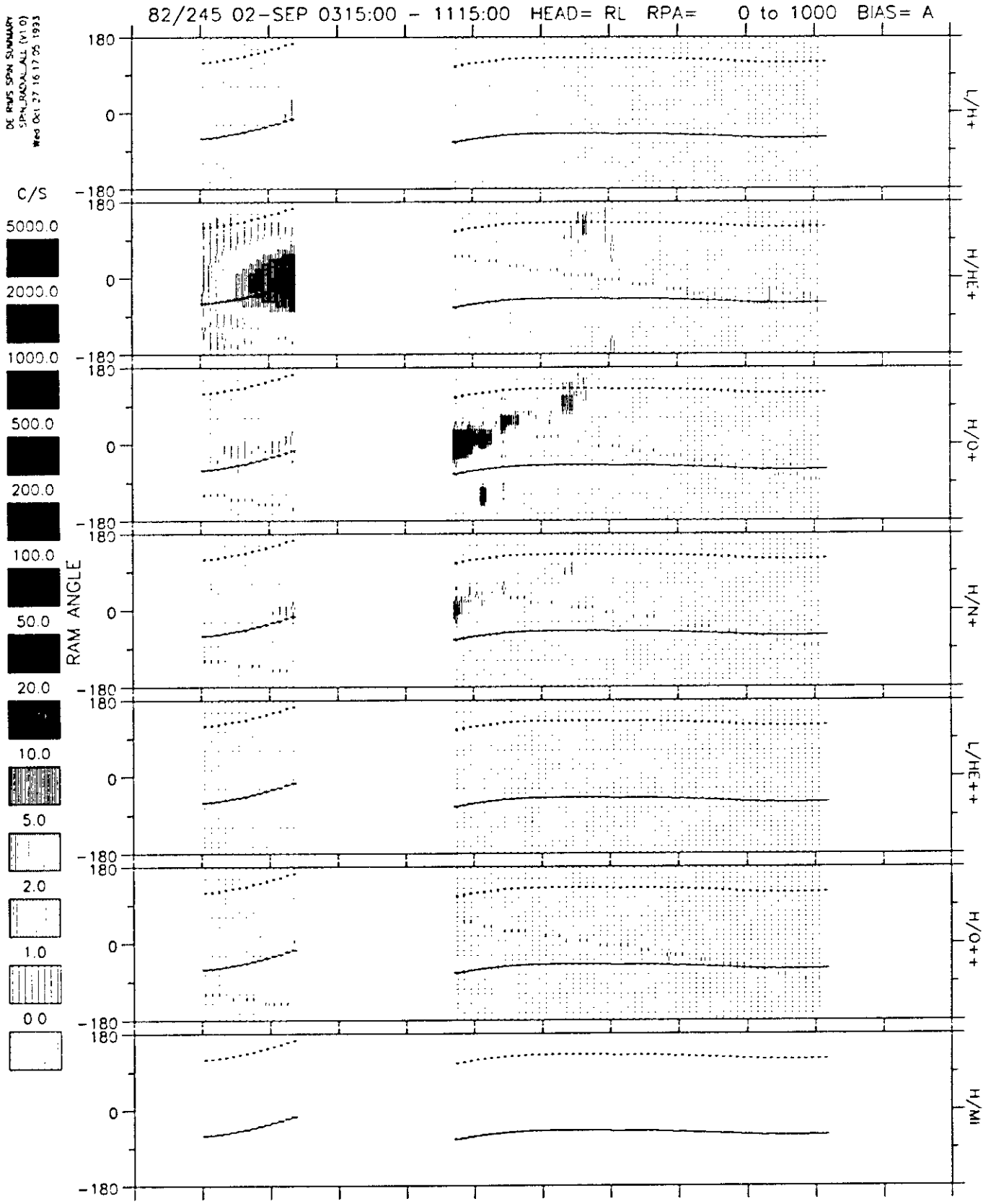
TIME	0000	0000	0000	0000	0000	0000	0000	1150	1230	1310	1350	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.7	4.6	4.2	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	5.9	5.0	4.3	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	11.6	11.7	11.9	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-0.71	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.5	65.7	63.4	61.3	DEGS



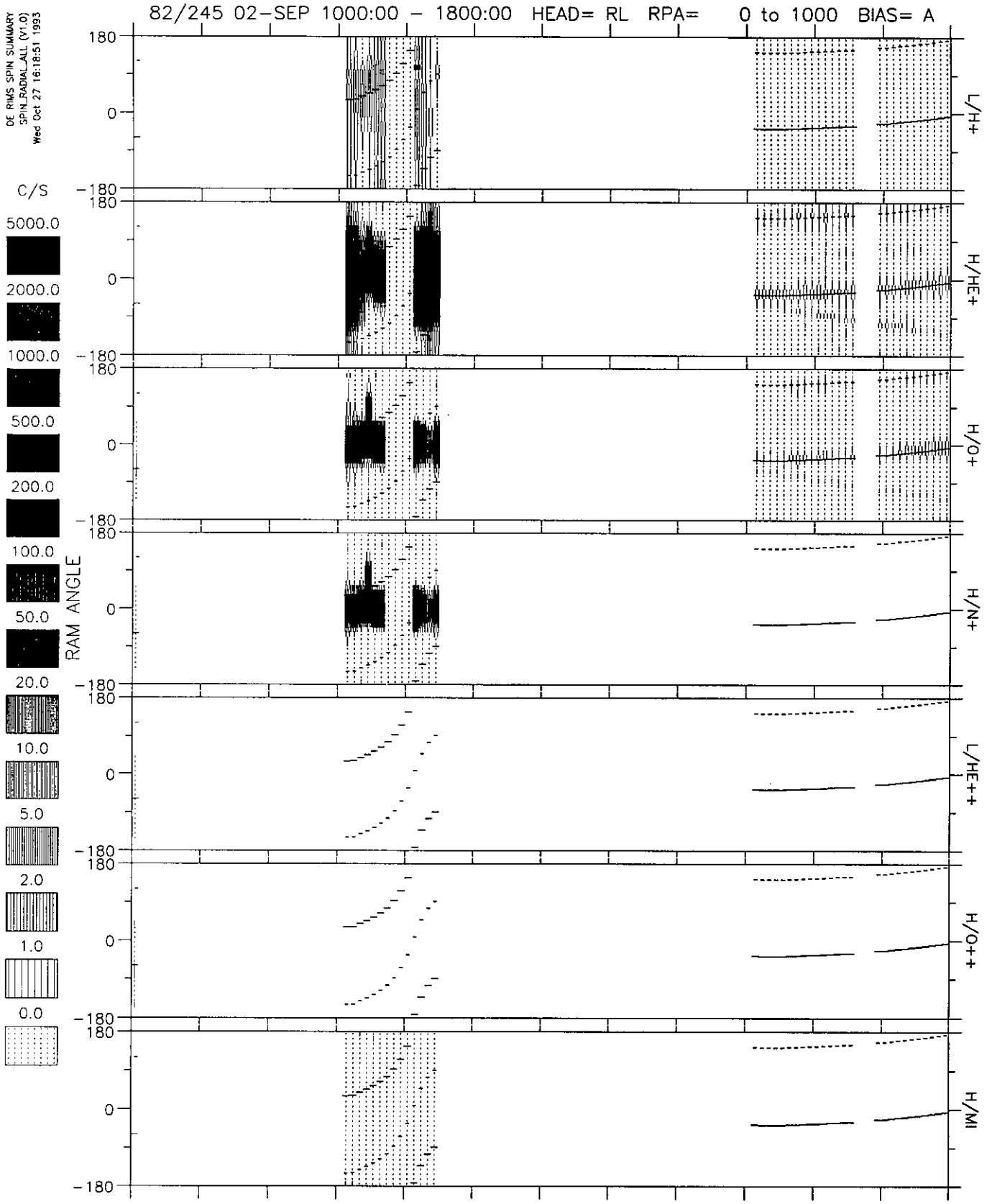
TIME	1410	1450	1530	1610	1650	1730	1810	0000	0000	0000	0000	HHMM
RE	4.0	3.2	2.0	1.1	2.4	3.5	4.2	0.0	0.0	0.0	0.0	RE
L	4.1	3.9	7.7	1.1	78.0	10.5	7.2	0.0	0.0	0.0	0.0	
MLT	11.9	12.1	12.4	0.0	12.4	12.4	12.4	0.0	0.0	0.0	0.0	HRS
MLAT	6.56	25.29	61.28	*****	*****	*****	*****	0.00	0.00	0.00	0.00	DEGS
INVLAT	60.3	59.4	68.9	19.5	83.5	72.0	68.1	0.0	0.0	0.0	0.0	DEGS

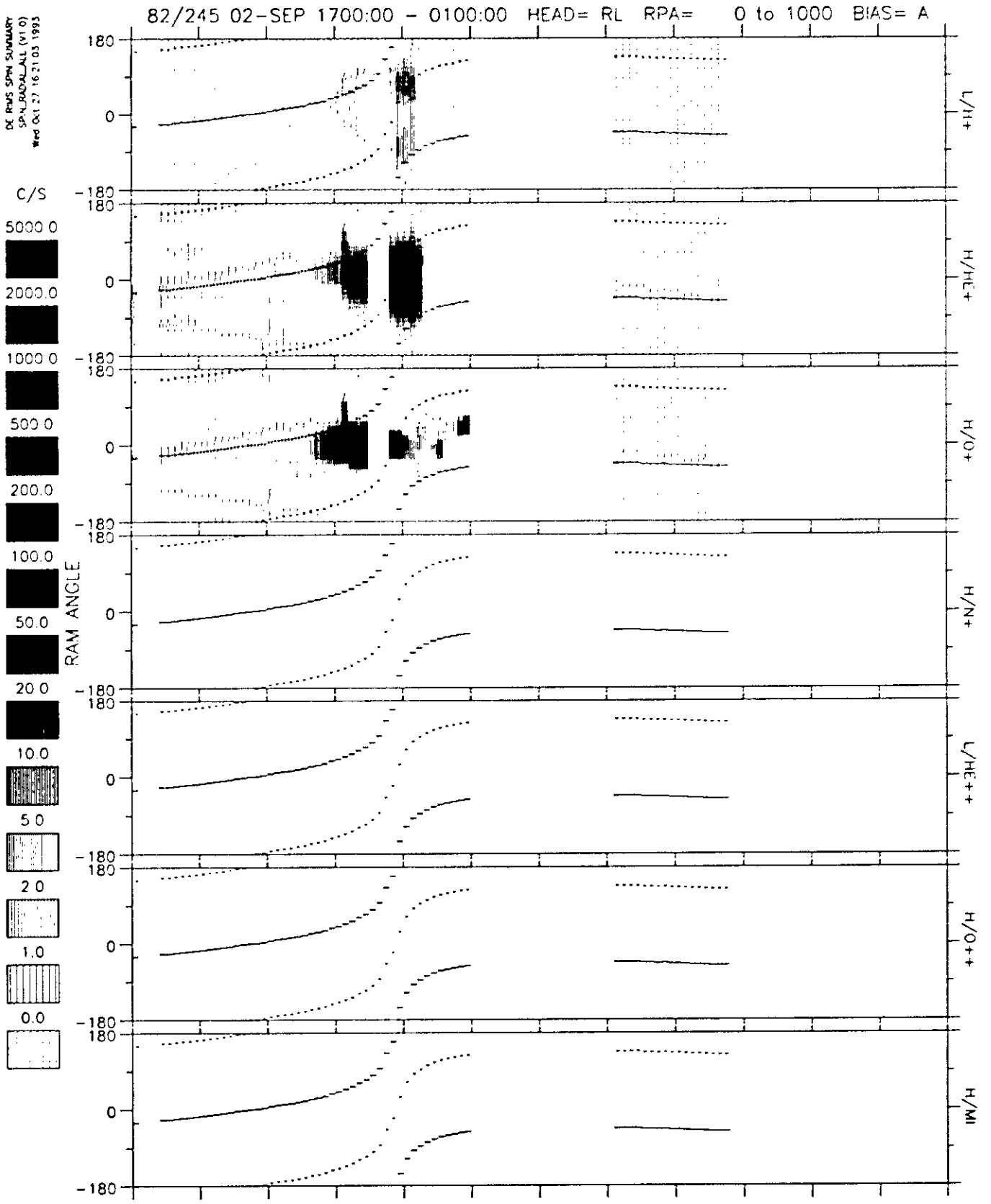


TIME	0000	2150	2230	2310	2350	0030	0110	0150	0000	0000	0000	HHMM
RE	0.0	2.9	1.6	1.4	2.7	3.7	4.3	4.6	0.0	0.0	0.0	RE
L	0.0	3.4	9.3	2.4	67.6	24.1	13.3	9.4	0.0	0.0	0.0	
MLT	0.0	11.8	10.5	23.6	17.6	13.6	12.9	12.5	0.0	0.0	0.0	HRS
MLAT	0.00	22.67	64.54	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	0.0	57.0	70.8	49.9	83.0	78.3	74.1	71.0	0.0	0.0	0.0	DEGS

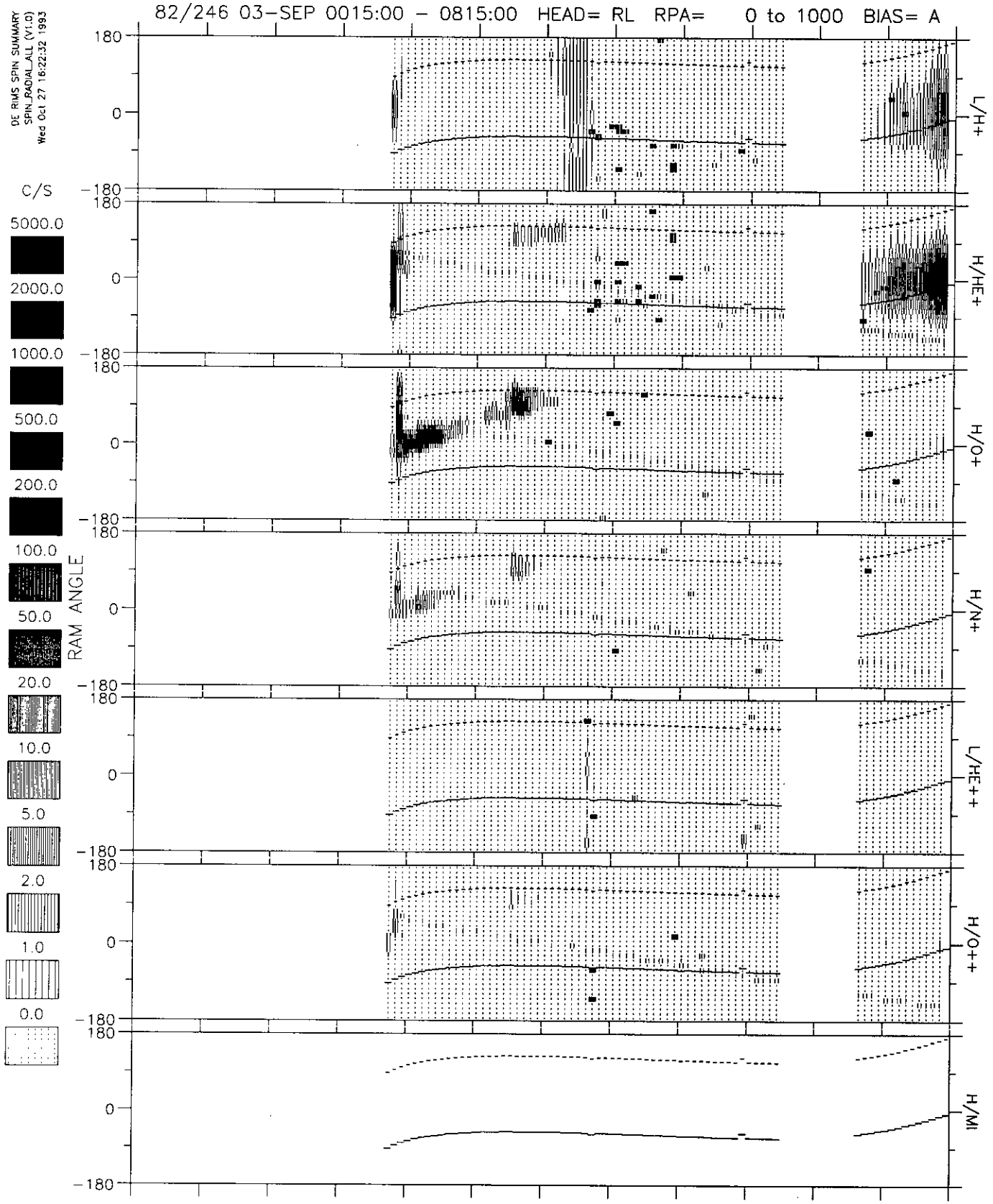


TIME	0355	0435	0000	0000	0635	0715	0755	0835	0915	0955	0000	HHMM
RE	3.9	3.1	0.0	0.0	2.6	3.6	4.2	4.6	4.7	4.5	0.0	RE
L	4.0	3.0	0.0	0.0	55.5	39.2	14.2	8.9	6.6	5.2	0.0	
MLT	12.0	12.0	0.0	0.0	2.1	10.3	11.1	11.3	11.5	11.6	0.0	HRS
MLAT	•••••	5.71	0.00	0.00	•••••	•••••	•••••	•••••	•••••	•••••	0.00	DEGS
INVLAT	60.0	55.0	0.0	0.0	82.3	80.8	74.6	70.4	67.0	63.9	0.0	DEGS

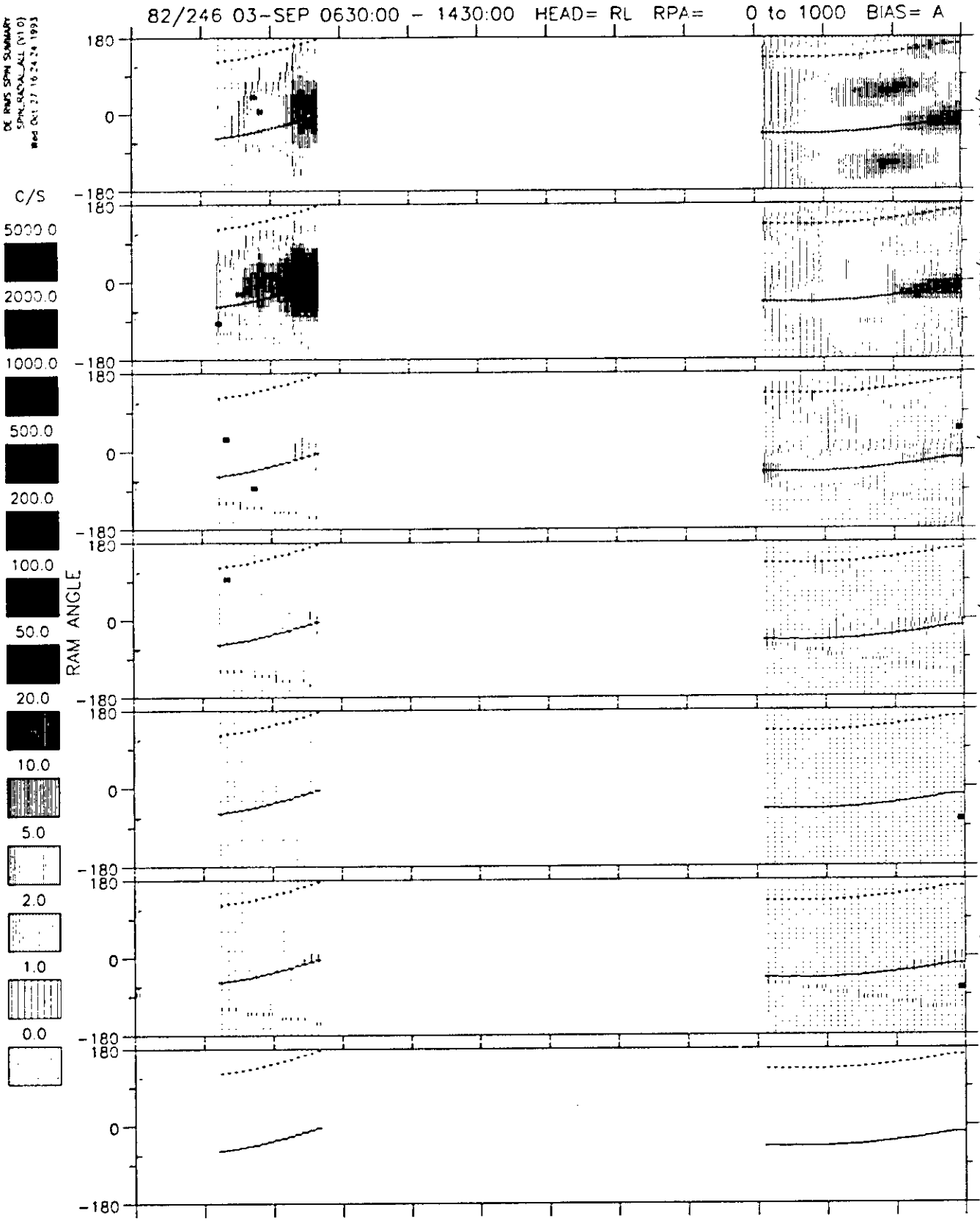

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Wed Oct 27 16:18:51 1993
82/245 02-SEP 1000:00 - 1800:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 0000 0000 0000 1240 0000 0000 0000 0000 0000 1640 1720 HHMM
RE 0.0 0.0 0.0 1.1 0.0 0.0 0.0 0.0 0.0 4.5 4.1 RE
L 0.0 0.0 0.0 1.1 0.0 0.0 0.0 0.0 0.0 4.7 4.2
MLT 0.0 0.0 0.0 23.8 0.0 0.0 0.0 0.0 0.0 12.0 12.0 HRS
MLAT 0.00 0.00 0.00 -0.15 0.00 0.00 0.00 0.00 0.00 -7.75 3.89 DEGS
INVLAT 0.0 0.0 0.0 15.6 0.0 0.0 0.0 0.0 0.0 62.4 60.9 DEGS

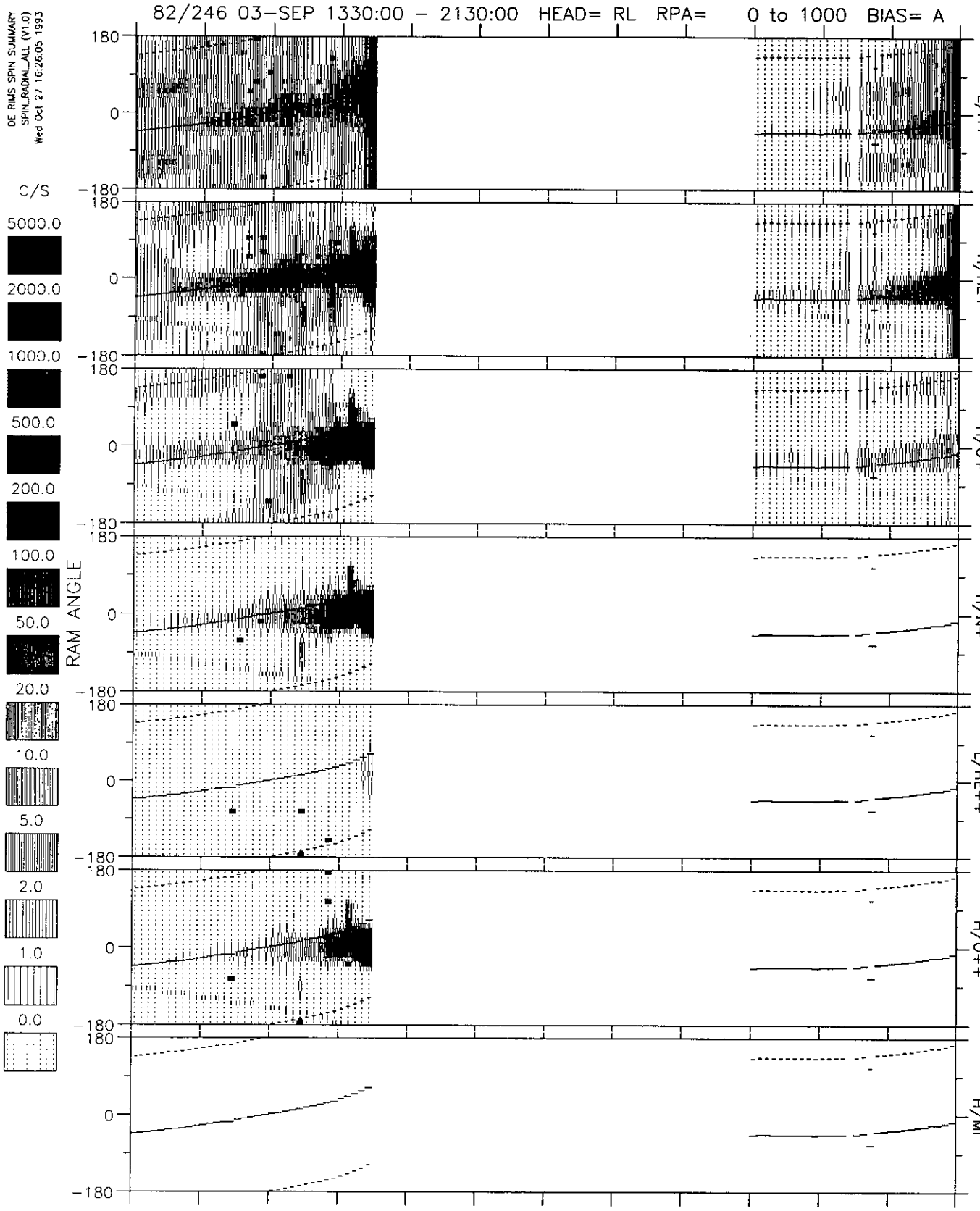


TIME	1740	1820	1900	1940	0000	0000	0000	2220	0000	0000	0000	HHMM
RE	3.8	3.0	1.7	1.3	0.0	0.0	0.0	4.6	0.0	0.0	0.0	RE
L	4.0	3.9	15.4	2.2	0.0	0.0	0.0	7.2	0.0	0.0	0.0	
MLT	12.0	11.9	10.8	23.7	0.0	0.0	0.0	12.6	0.0	0.0	0.0	HRS
MLAT	10.71	28.04	70.33	•••••	0.00	0.00	0.00	•••••	0.00	0.00	0.00	DEGS
INVLAT	60.1	59.7	75.2	47.5	0.0	0.0	0.0	68.1	0.0	0.0	0.0	DEGS

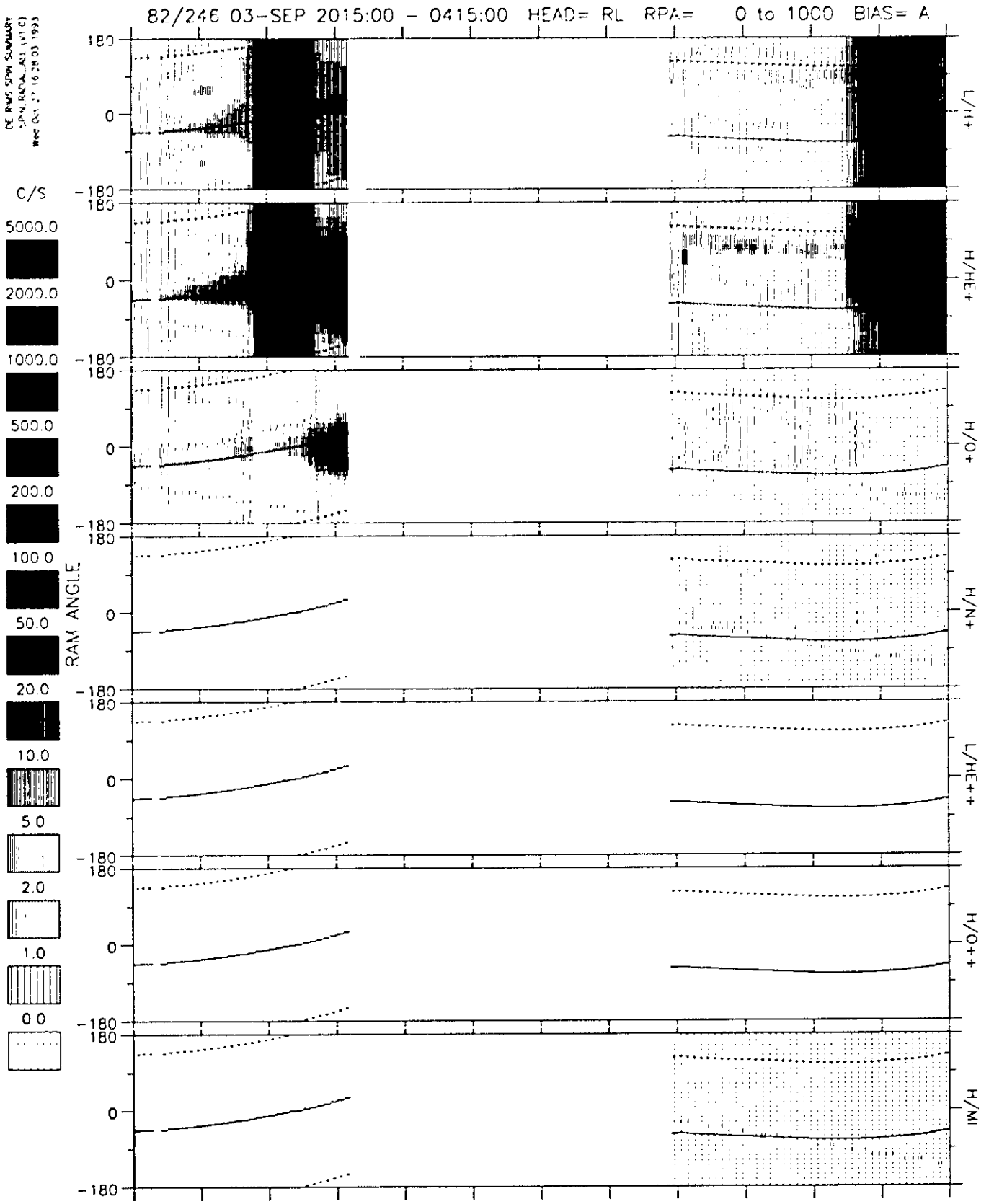


TIME	0000	0000	0000	0255	0335	0415	0455	0535	0615	0000	0735	HHMM
RE	0.0	0.0	0.0	2.2	3.3	4.0	4.5	4.7	4.6	0.0	3.6	RE
L	0.0	0.0	0.0	12.5	100.0	25.3	12.7	8.5	6.2	0.0	3.6	
MLT	0.0	0.0	0.0	23.2	13.2	12.0	11.8	11.8	11.7	0.0	11.9	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	-2.78	DEGS
INVLAT	0.0	0.0	0.0	73.6	86.2	78.5	73.7	69.9	66.3	0.0	58.0	DEGS

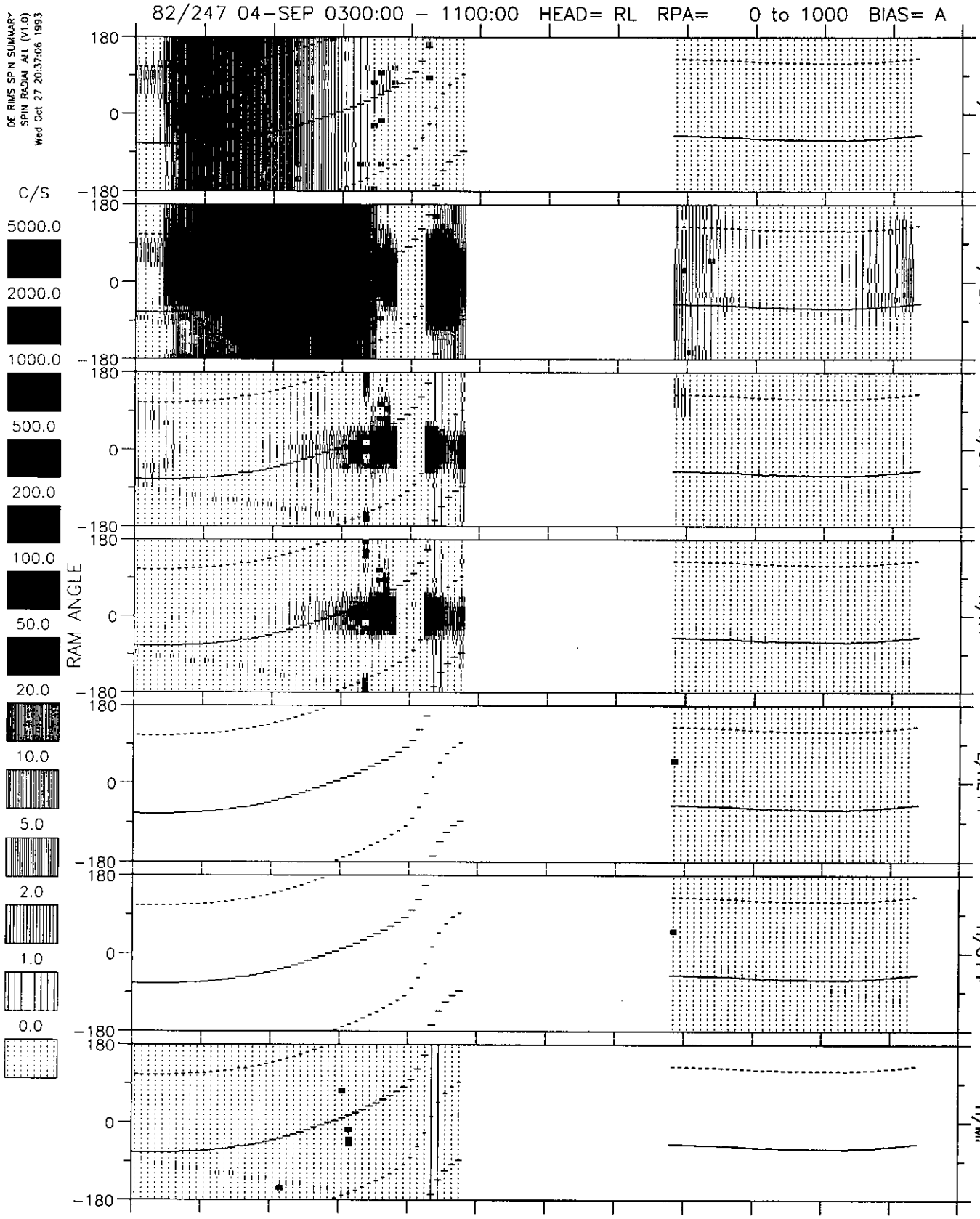

82/246 03-SEP 0630:00 - 1430:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE PWS SPW SUMMARY
SPW_RADIAL_ALL (V1.0)
Wed Oct 27 16:24:24 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HL+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 0000 0750 0000 0000 0000 0000 0000 0000 0000 1310 1350 HHMM
RE 0.0 3.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.6 4.2 RE
L 0.0 3.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.9 4.3
MLT 0.0 12.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 11.6 11.8 HRS
MLAT 0.00 4.95 0.00 0.00 0.00 0.00 0.00 0.00 0.00 ***** 0.56 DEGS
INVLAT 0.0 56.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 63.2 61.0 DEGS



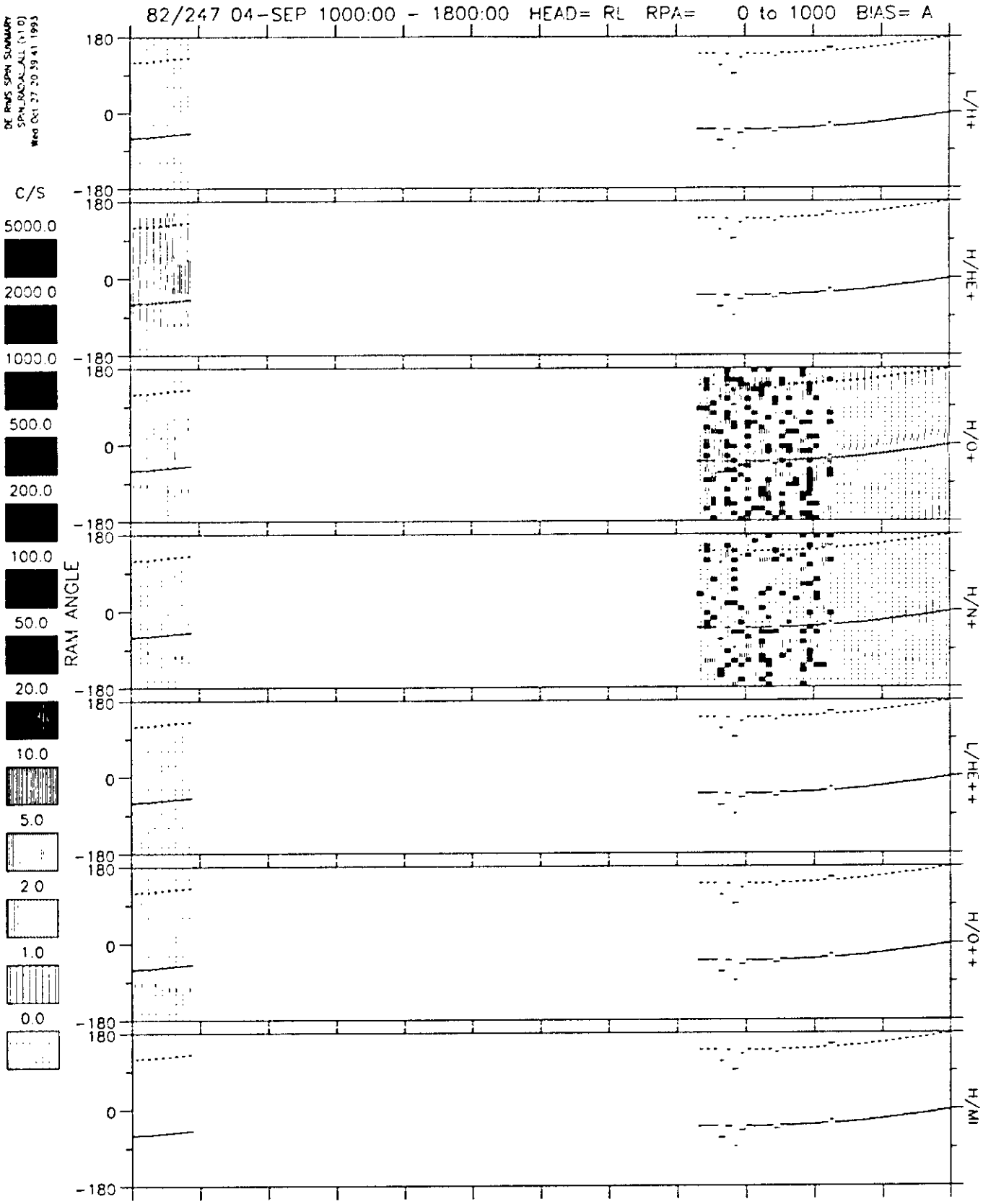
TIME	1410	1450	1530	0000	0000	0000	0000	0000	1930	2010	2050	HHMM
RE	3.9	3.0	1.8	0.0	0.0	0.0	0.0	0.0	4.7	4.5	4.0	RE
L	4.0	3.9	12.0	0.0	0.0	0.0	0.0	0.0	5.3	4.7	4.0	
MLT	11.8	12.0	12.3	0.0	0.0	0.0	0.0	0.0	12.3	12.2	12.1	HRS
MLAT	8.08	27.94	69.22	0.00	0.00	0.00	0.00	0.00	*****	*****	-0.38	DEGS
INVLAT	60.0	59.4	73.2	0.0	0.0	0.0	0.0	0.0	64.2	62.4	60.1	DEGS



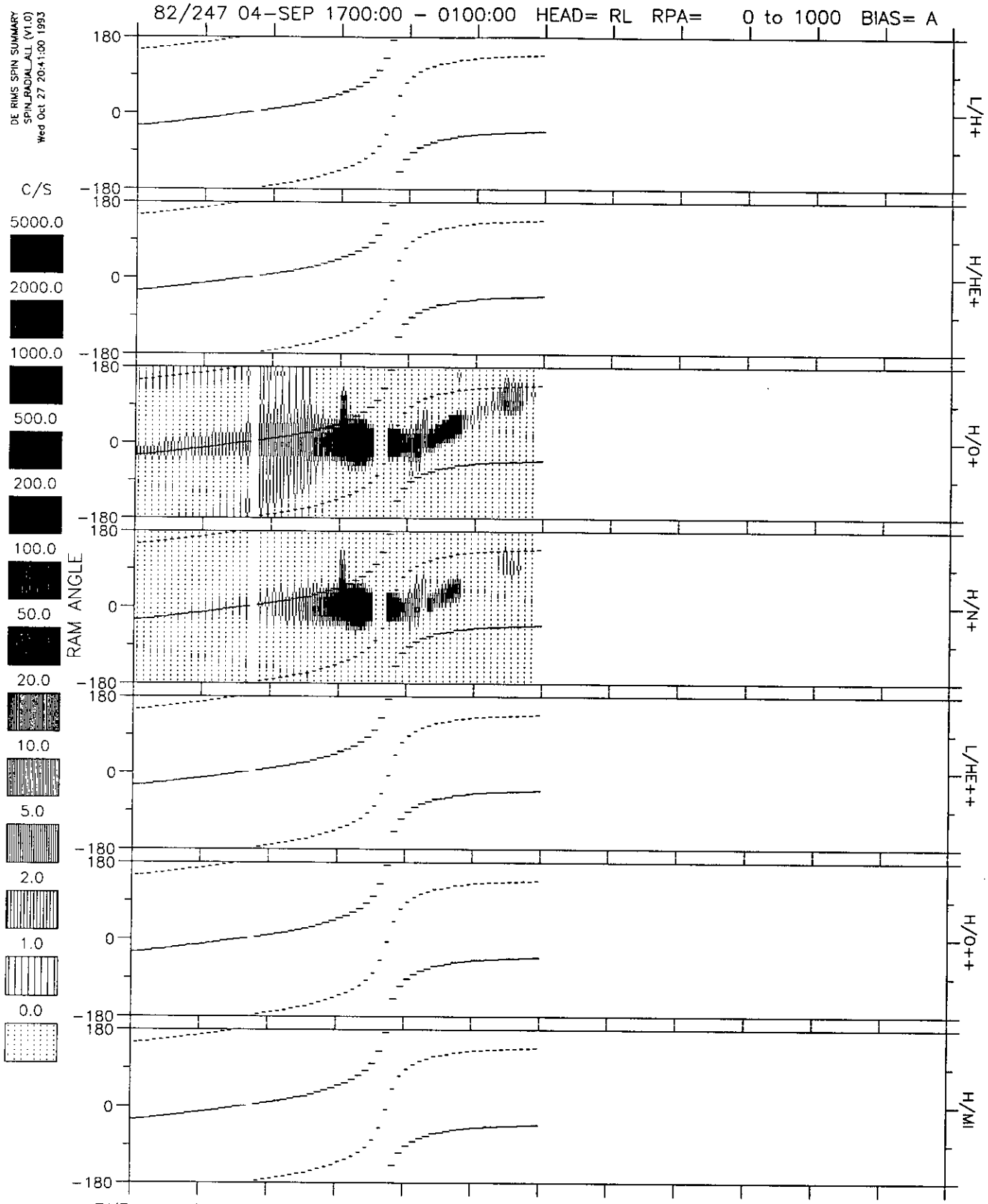
TIME	2055	2135	2215	0000	0000	0000	0000	0135	0215	0255	0335	HHMM
RE	4.0	3.2	2.0	0.0	0.0	0.0	0.0	4.5	4.7	4.5	4.1	RE
L	3.9	3.4	4.4	0.0	0.0	0.0	0.0	10.4	7.8	5.9	4.5	
MLT	12.0	11.8	11.1	0.0	0.0	0.0	0.0	12.5	12.2	12.0	11.9	HRS
MLAT	1.10	16.60	48.58	0.00	0.00	0.00	0.00	*****	*****	*****	*****	DEGS
INVLAT	59.8	57.1	61.7	0.0	0.0	0.0	0.0	72.0	69.0	65.8	61.8	DEGS



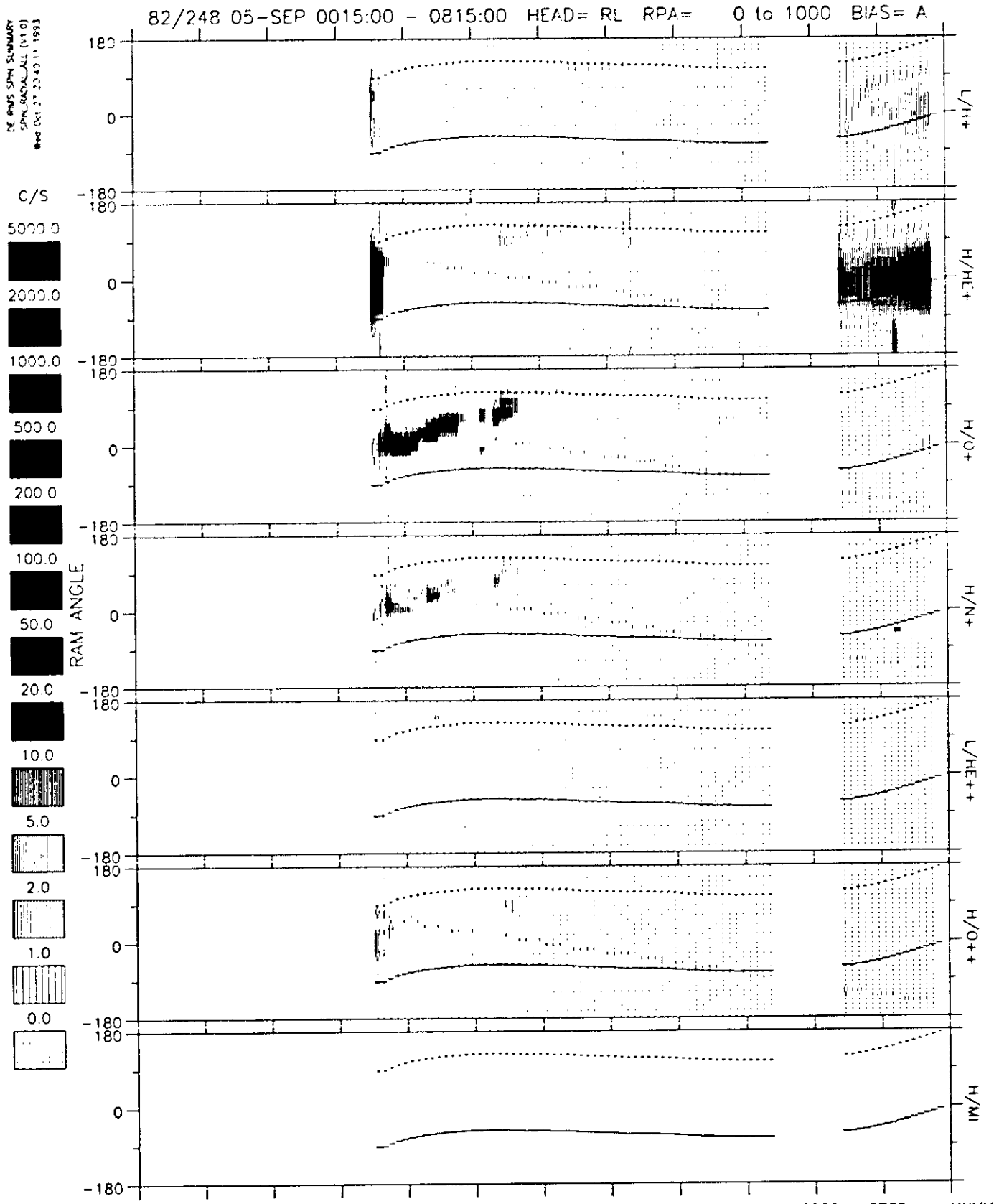
TIME	0340	0420	0500	0540	0000	0000	0000	0820	0900	0940	1020	HHMM
RE	4.1	3.3	2.2	1.1	0.0	0.0	0.0	4.5	4.7	4.6	4.2	RE
L	4.3	3.2	3.0	1.7	0.0	0.0	0.0	9.9	7.1	5.5	4.4	
MLT	11.9	11.9	12.0	23.7	0.0	0.0	0.0	11.1	11.3	11.5	11.6	HRS
MLAT	*****	-0.34	30.40	36.17	0.00	0.00	0.00	*****	*****	*****	-9.29	DEGS
INVLAT	61.3	56.2	54.8	40.1	0.0	0.0	0.0	71.5	68.0	64.8	61.6	DEGS



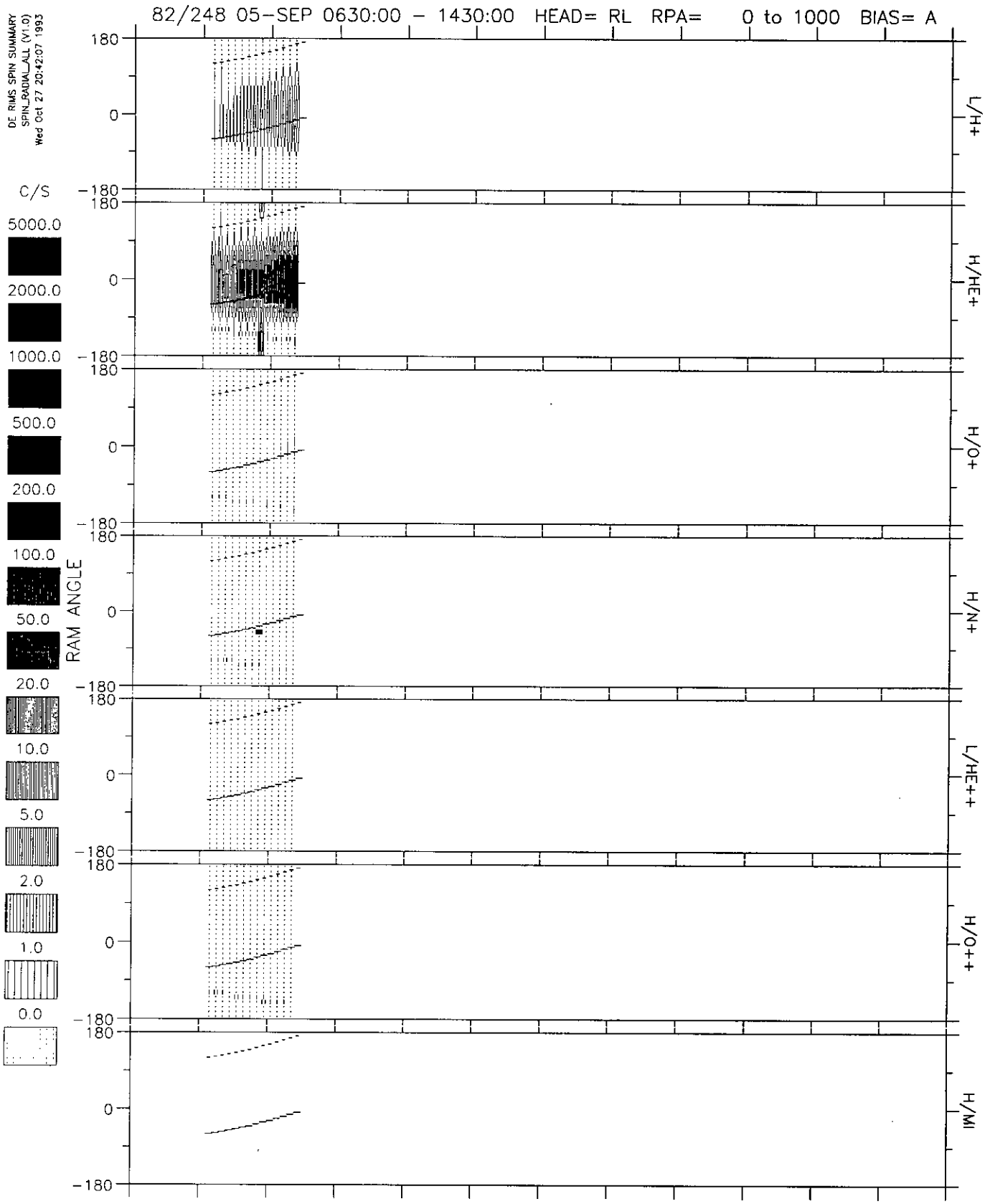
TIME	0000	0000	0000	0000	0000	0000	0000	0000	1600	1640	1720	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.5	4.1	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	4.6	4.2	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	11.9	11.9	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	•••••	-7.35	4.91	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.0	62.3	60.6	DEGS



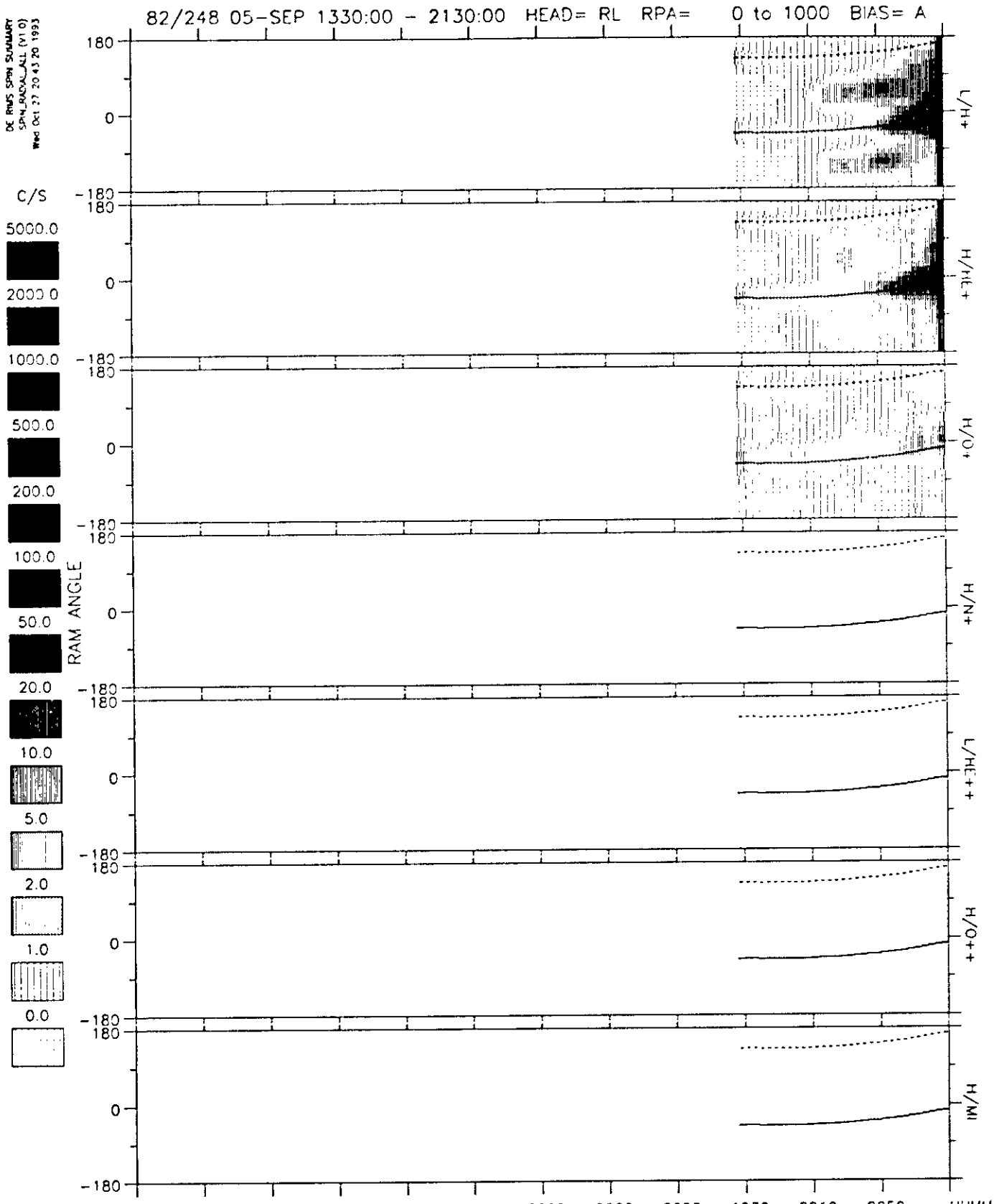
TIME	1740	1820	1900	1940	2020	0000	0000	0000	0000	0000	0000	HHMM
RE	3.7	2.8	1.5	1.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	4.0	4.0	50.6	4.0	34.6	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	11.9	11.7	9.2	23.3	14.5	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	12.00	31.98	79.33	*****	*****	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	59.9	59.9	81.9	60.0	80.2	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



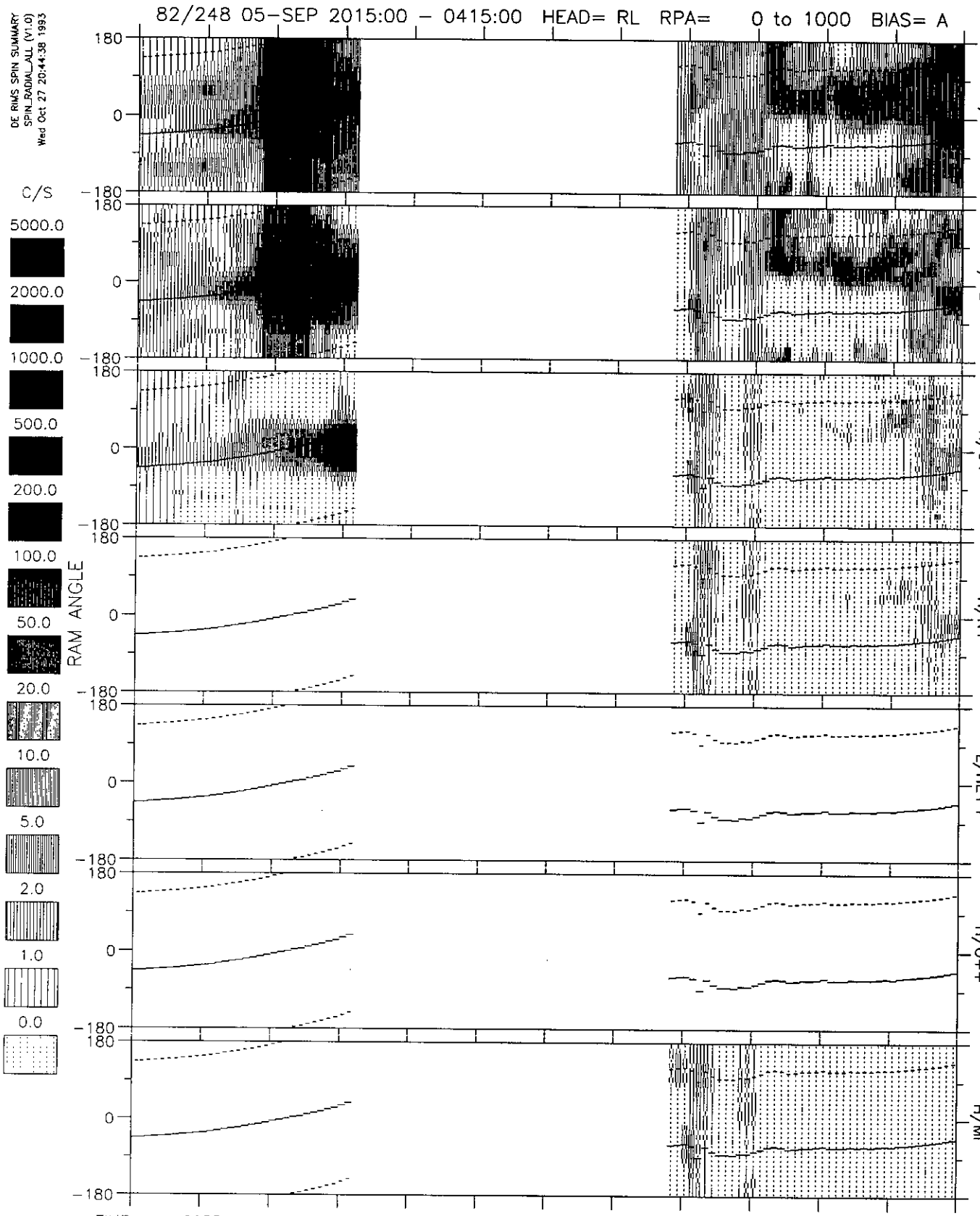
TIME	0000	0000	0000	0255	0335	0415	0455	0535	0615	0000	0735	HHMM
RE	0.0	0.0	0.0	2.3	3.4	4.1	4.5	4.7	4.5	0.0	3.5	RE
L	0.0	0.0	0.0	21.2	100.0	23.4	12.3	8.3	6.0	0.0	3.5	
MLT	0.0	0.0	0.0	23.0	12.7	11.8	11.7	11.6	11.6	0.0	11.8	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	-0.79	DEGS
INVLAT	0.0	0.0	0.0	77.5	85.3	78.1	73.4	69.6	65.9	0.0	57.5	DEGS



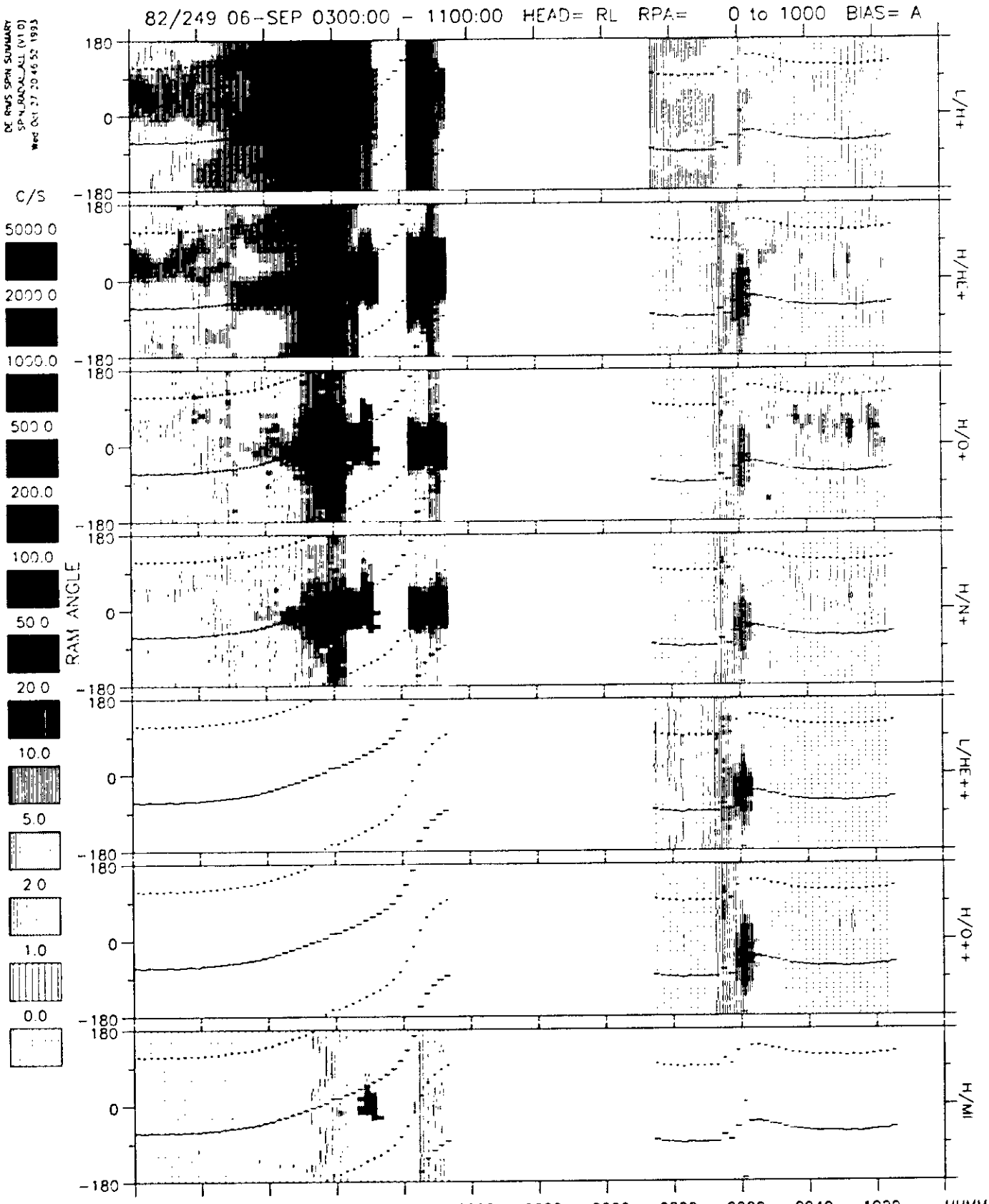
TIME	0000	0750	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	7.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	55.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



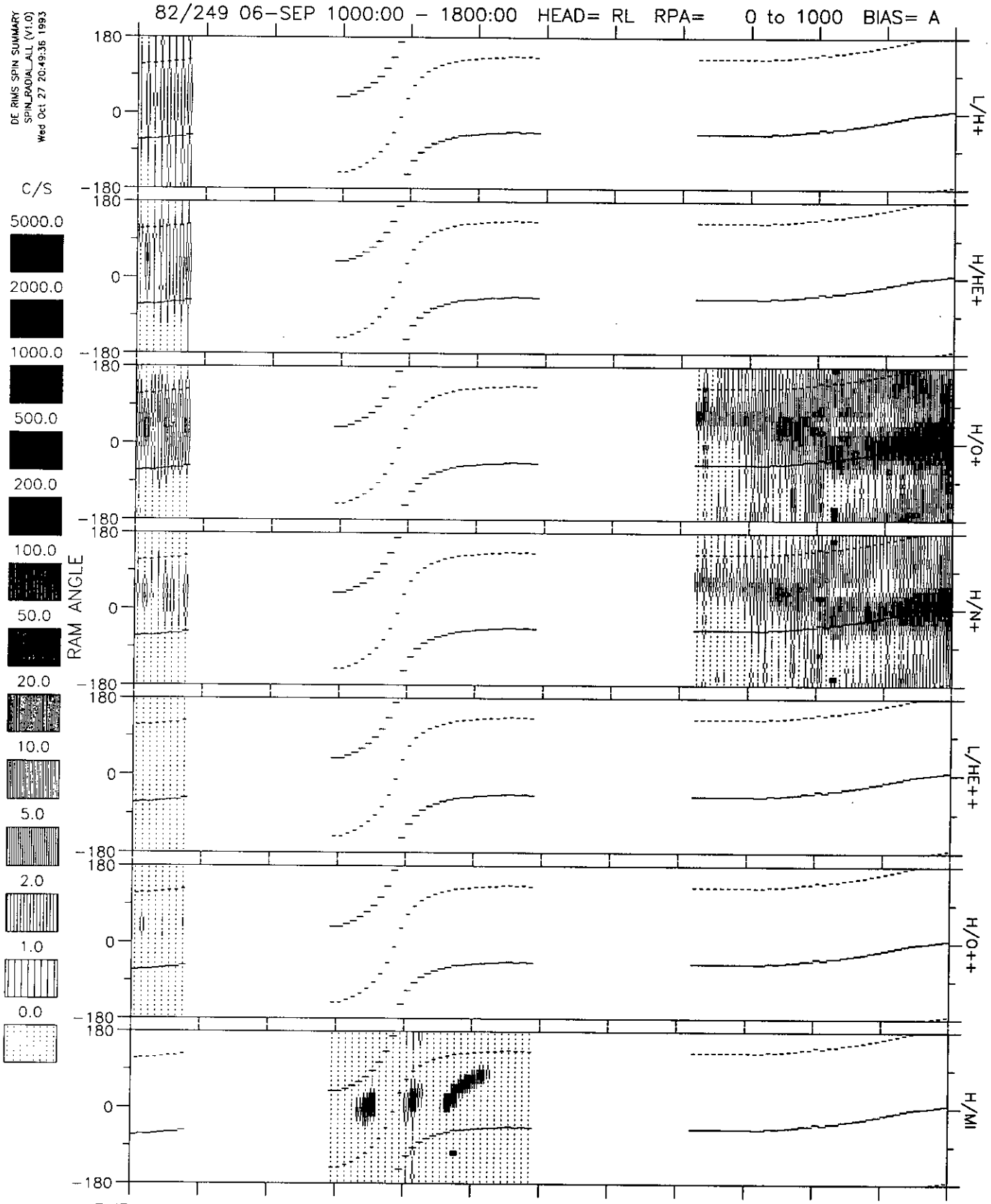
TIME	0000	0000	0000	0000	0000	0000	0000	0000	1930	2010	2050	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.4	4.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	4.6	3.9	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	12.1	11.9	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	0.44	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.1	62.2	59.8	DEGS



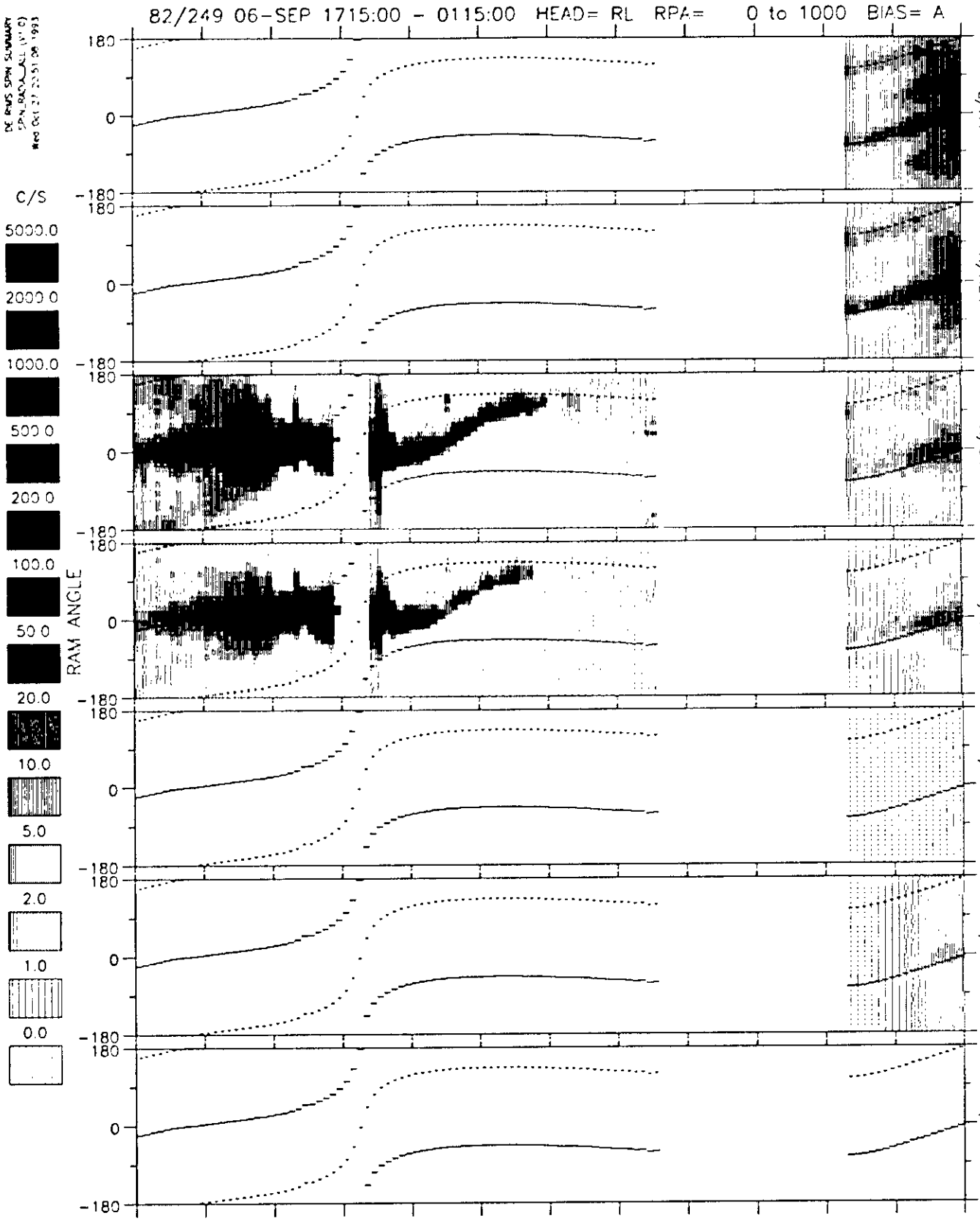
TIME	2055	2135	2215	0000	0000	0000	0000	0135	0215	0255	0335	HHMM
RE	3.9	3.0	1.8	0.0	0.0	0.0	0.0	4.6	4.7	4.5	4.0	RE
L	3.9	3.3	5.6	0.0	0.0	0.0	0.0	10.3	7.6	5.8	4.3	
MLT	11.9	11.6	10.7	0.0	0.0	0.0	0.0	12.3	12.1	11.9	11.8	HRS
MLAT	2.00	18.57	55.64	0.00	0.00	0.00	0.00	*****	*****	*****	*****	DEGS
INVLAT	59.4	56.7	65.0	0.0	0.0	0.0	0.0	71.8	68.8	65.4	61.3	DEGS



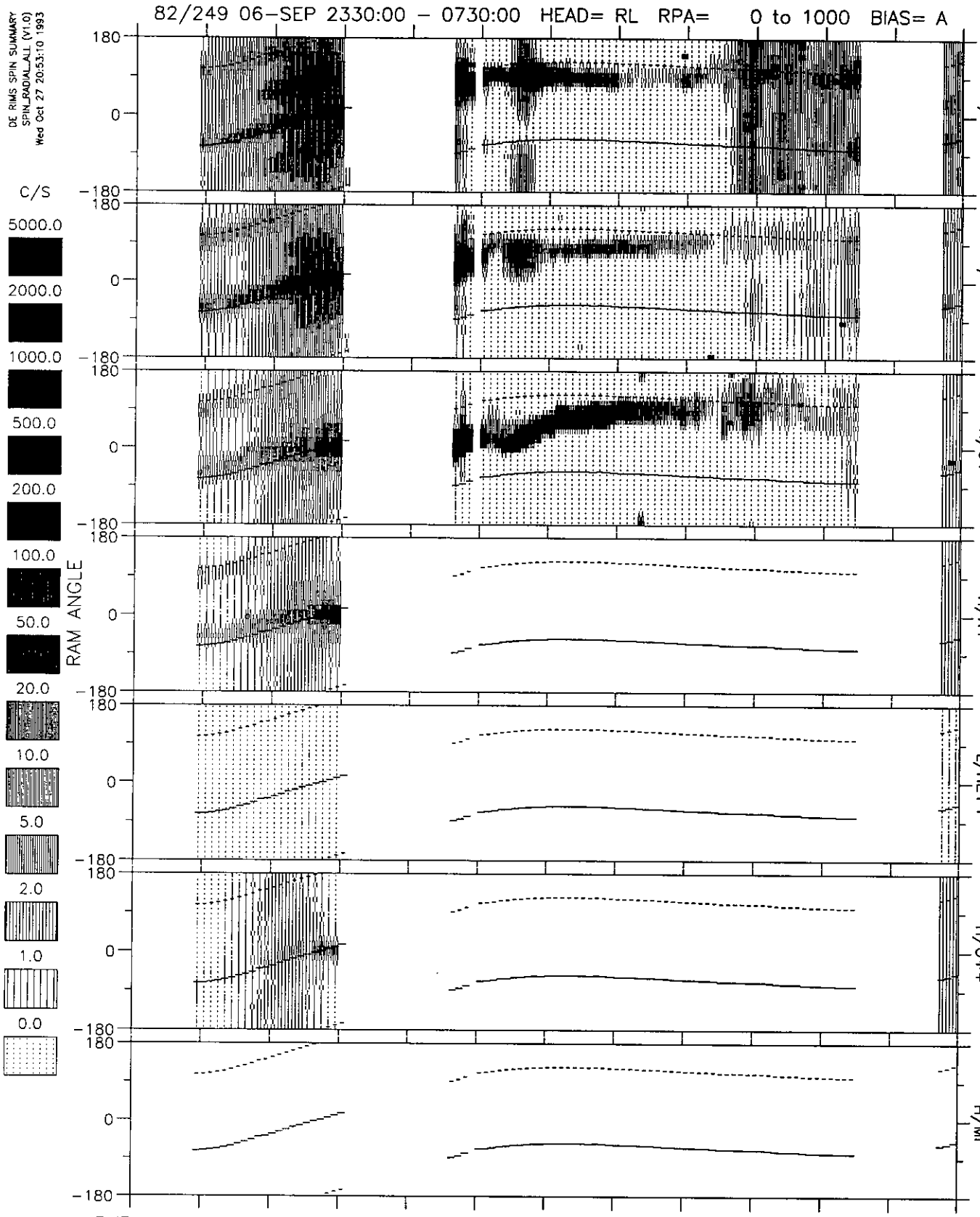
TIME	0340	0420	0500	0540	0000	0000	0000	0820	0900	0940	1020	HHMM
RE	4.0	3.2	2.0	1.1	0.0	0.0	0.0	4.5	4.7	4.5	4.1	RE
L	4.2	3.1	3.3	1.2	0.0	0.0	0.0	9.6	6.9	5.4	4.3	
MLT	11.8	11.8	11.9	23.7	0.0	0.0	0.0	11.0	11.2	11.4	11.6	HRS
MLAT	•••••	1.82	36.63	12.37	0.00	0.00	0.00	•••••	•••••	•••••	-7.86	DEGS
INVLAT	60.8	55.5	56.5	24.7	0.0	0.0	0.0	71.2	67.7	64.4	61.2	DEGS



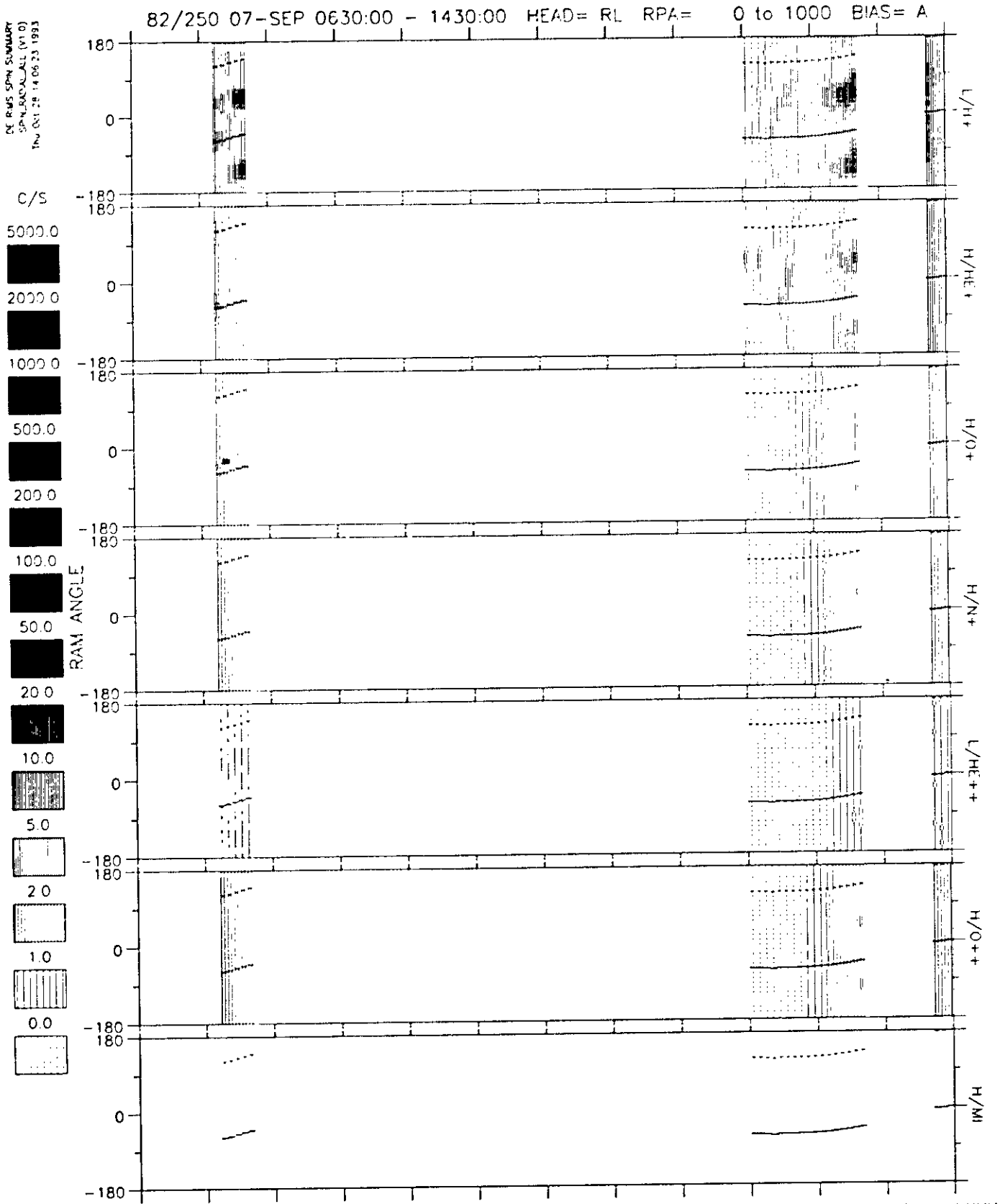
TIME	0000	0000	1200	1240	1320	0000	0000	0000	1600	1640	1720	HHMM
RE	0.0	0.0	1.7	1.4	2.7	0.0	0.0	0.0	4.7	4.5	4.0	RE
L	0.0	0.0	8.6	2.3	40.1	0.0	0.0	0.0	5.1	4.6	4.1	
MLT	0.0	0.0	13.3	0.1	9.3	0.0	0.0	0.0	11.7	11.8	11.8	HRS
MLAT	0.00	0.00	66.27	*****	*****	0.00	0.00	0.00	*****	-6.18	6.02	DEGS
INVLAT	0.0	0.0	70.0	49.3	80.9	0.0	0.0	0.0	63.8	62.1	60.4	DEGS



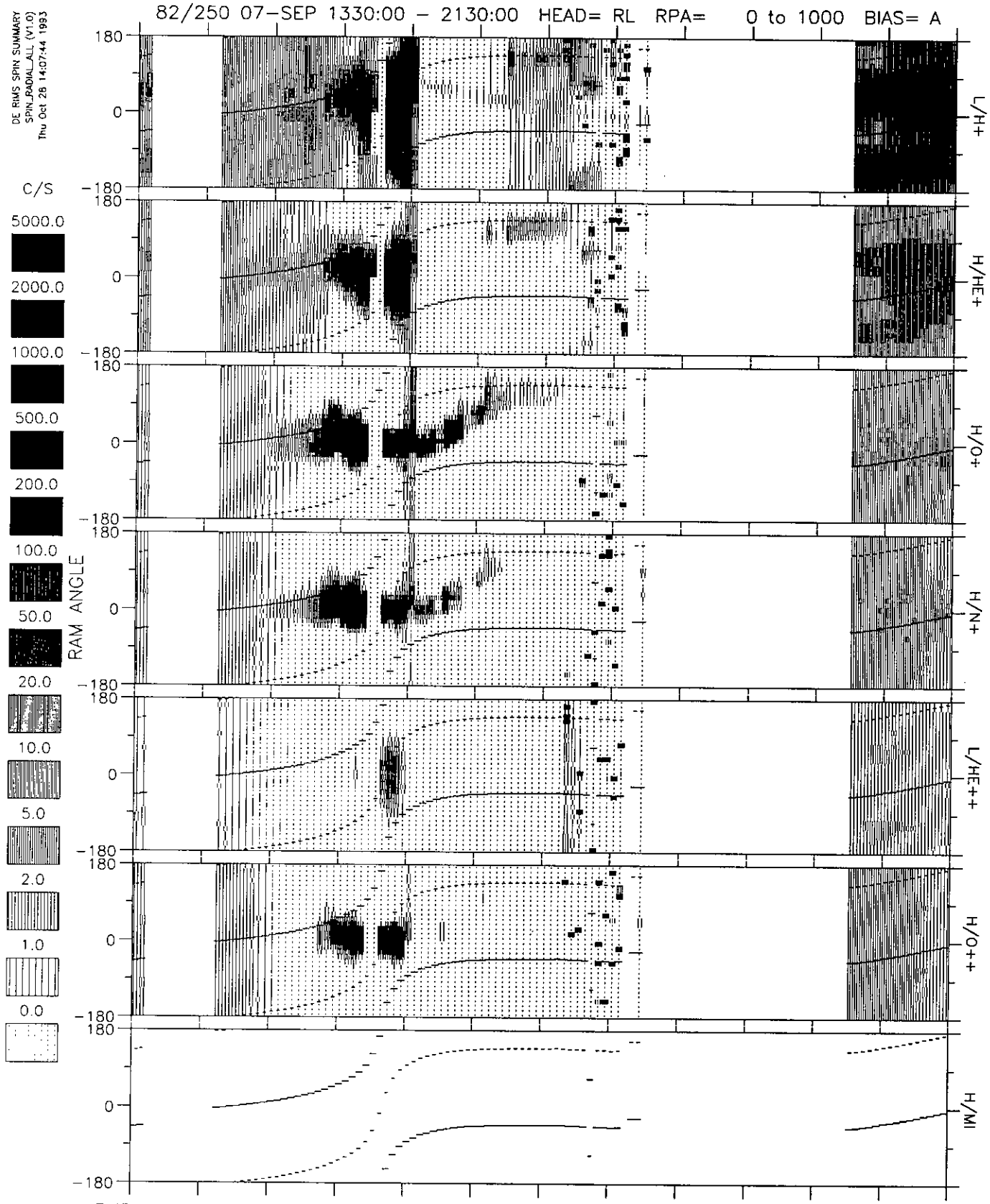
TIME	1755	1835	1915	1955	2035	2115	2155	0000	0000	0000	0035	HHMM
RE	3.3	2.2	1.1	2.2	3.3	4.1	4.5	0.0	0.0	0.0	3.6	RE
L	3.8	5.1	1.3	50.2	18.3	10.4	8.1	0.0	0.0	0.0	3.5	
MLT	11.7	11.3	0.1	19.8	13.4	12.8	12.5	0.0	0.0	0.0	11.7	HRS
MLAT	20.06	48.71	22.99	•••••	•••••	•••••	•••••	0.00	0.00	0.00	-2.01	DEGS
INVLAT	59.2	63.8	27.5	81.9	76.5	72.0	69.4	0.0	0.0	0.0	57.7	DEGS



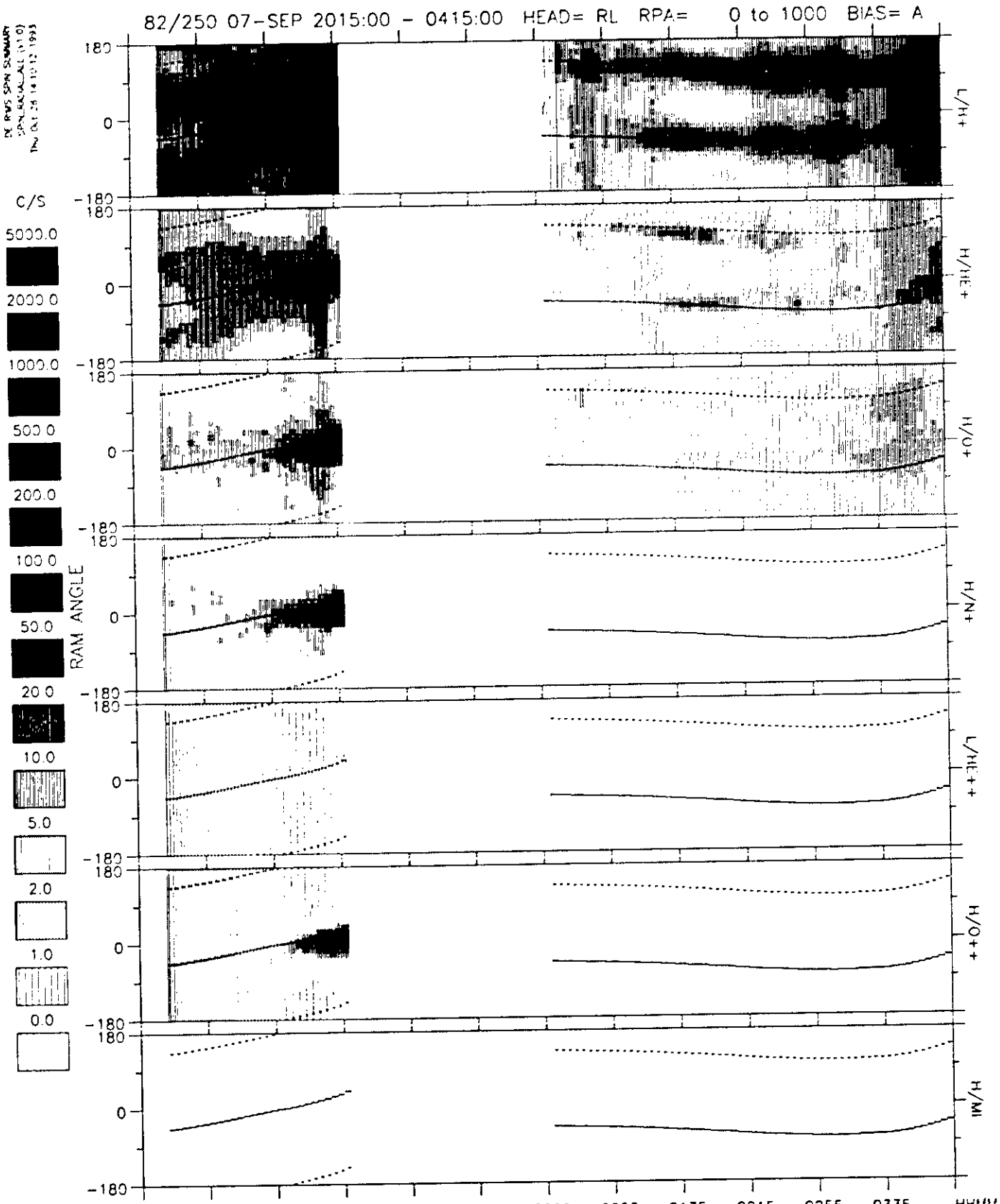
TIME	0010	0050	0130	0000	0250	0330	0410	0450	0530	0610	0000	HHMM
RE	4.0	3.2	2.2	0.0	2.3	3.4	4.1	4.5	4.7	4.5	0.0	RE
L	4.1	3.2	3.0	0.0	20.4	100.0	24.6	12.6	8.4	6.1	0.0	
MLT	11.9	11.7	11.4	0.0	22.9	12.6	11.7	11.5	11.5	11.5	0.0	HRS
MLAT	*****	4.63	31.11	0.00	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	60.4	55.9	54.7	0.0	77.2	85.6	78.4	73.7	69.8	66.1	0.0	DEGS



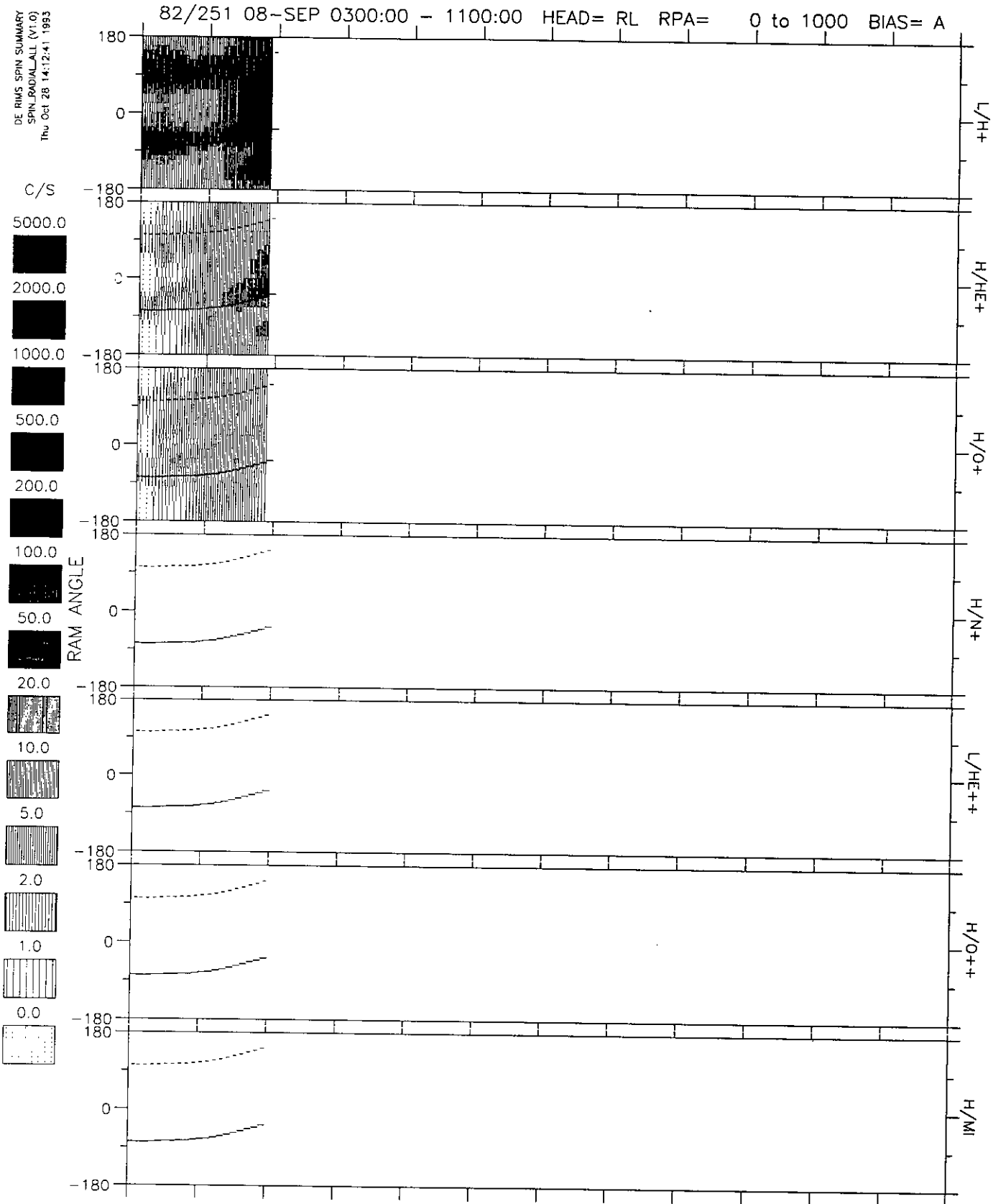
TIME	0000	0000	0000	0000	0000	0000	0000	0000	1230	1310	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.5	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	4.8	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	11.4	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.1	62.7	0.0	DEGS



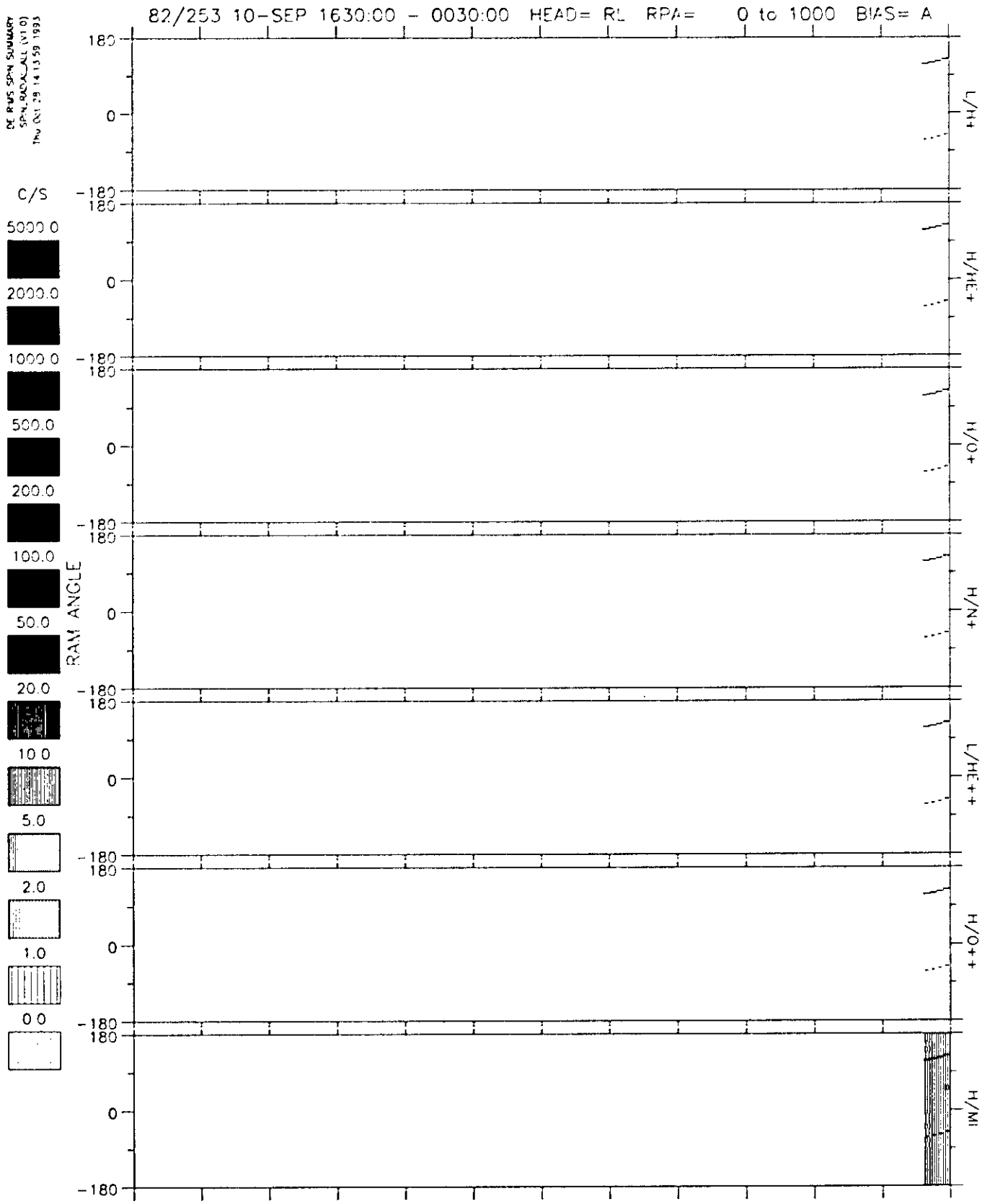
TIME	0000	1450	1530	1610	1650	1730	1810	0000	0000	0000	2050	HHMM
RE	0.0	2.7	1.4	1.6	2.9	3.8	4.3	0.0	0.0	0.0	3.9	RE
L	0.0	4.0	100.0	8.5	24.2	9.4	7.0	0.0	0.0	0.0	3.9	
MLT	0.0	11.8	20.8	23.7	12.1	12.1	12.1	0.0	0.0	0.0	11.8	HRS
MLAT	0.00	34.21	86.95	*****	*****	*****	*****	0.00	0.00	0.00	1.35	DEGS
INVLAT	0.0	59.8	87.2	69.9	78.3	70.9	67.8	0.0	0.0	0.0	59.4	DEGS



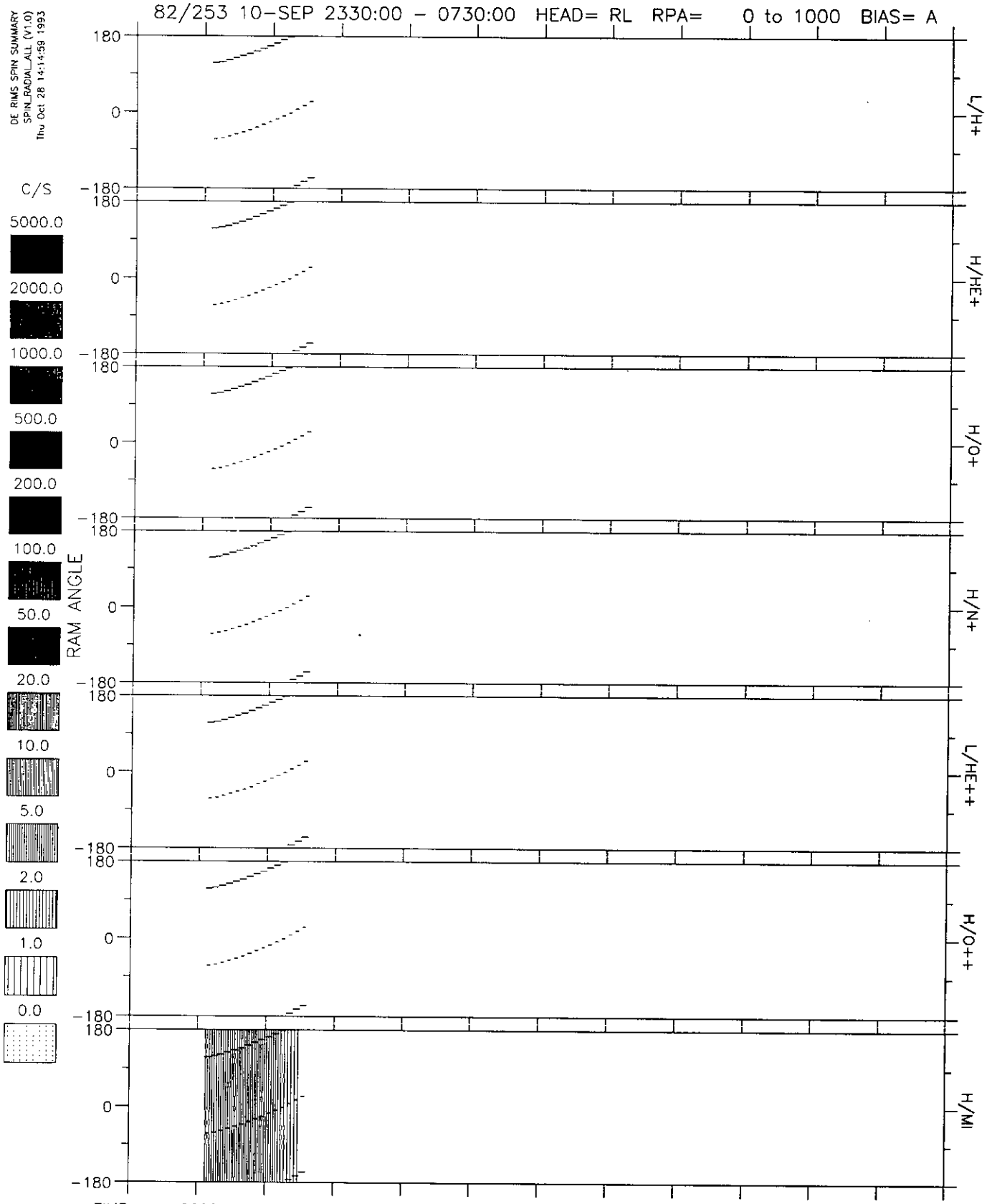
TIME	2055	2135	2215	0000	0000	0000	0055	0135	0215	0255	0335	HHMM
RE	3.8	2.9	1.7	0.0	0.0	0.0	4.3	4.6	4.7	4.4	4.0	RE
L	3.8	3.3	6.3	0.0	0.0	0.0	14.8	10.1	7.5	5.7	4.2	
MLT	11.8	11.5	10.5	0.0	0.0	0.0	12.5	12.1	11.9	11.8	11.7	HRS
MLAT	3.03	20.94	58 37	0.00	0.00	0.00	*****	*****	*****	*****	*****	DEGS
INVLAT	59.0	56.3	66 5	0.0	0.0	0.0	75.0	71.7	68.6	65.1	60.8	DEGS



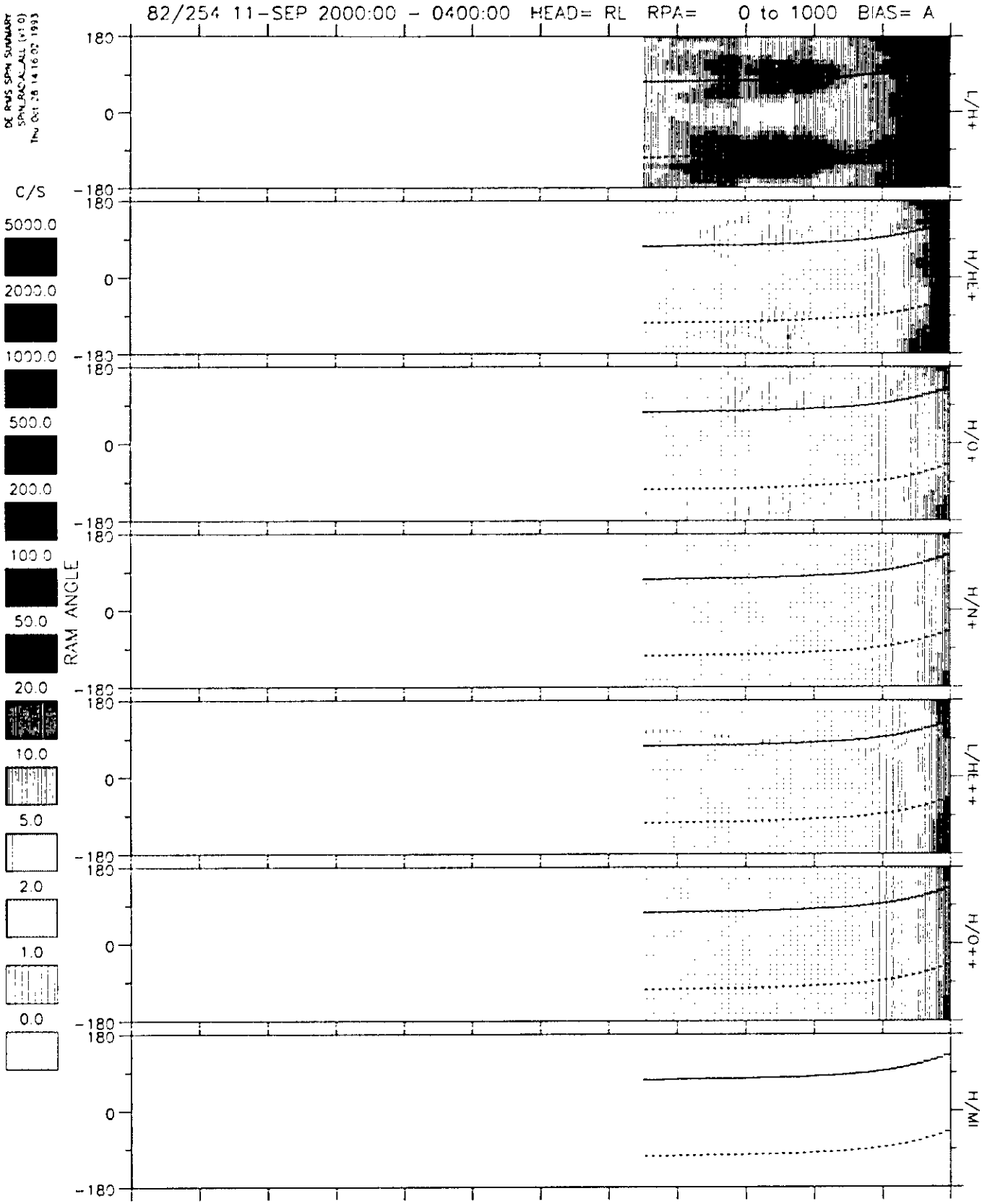
TIME	0340	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	*****	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	60.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



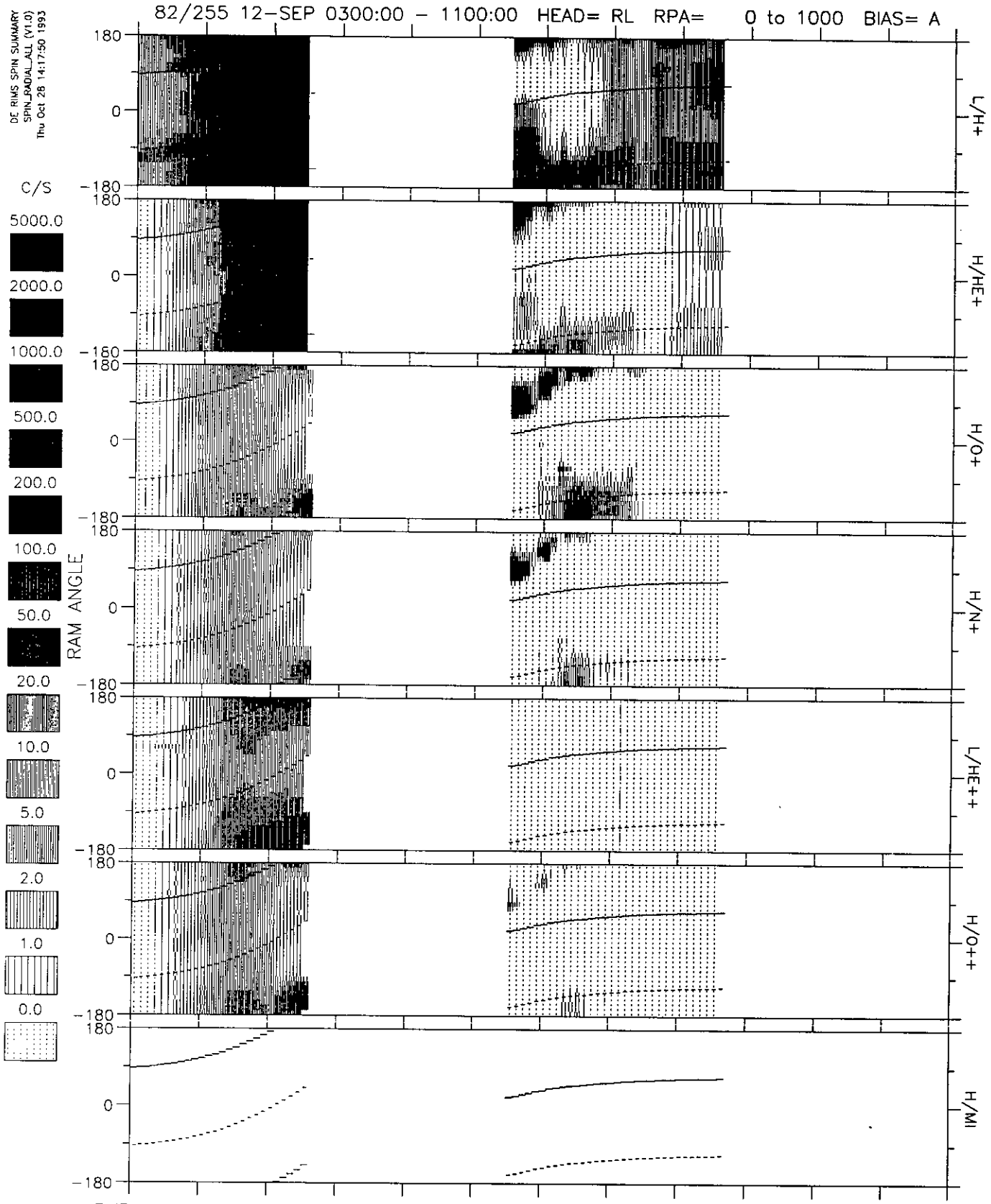
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0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



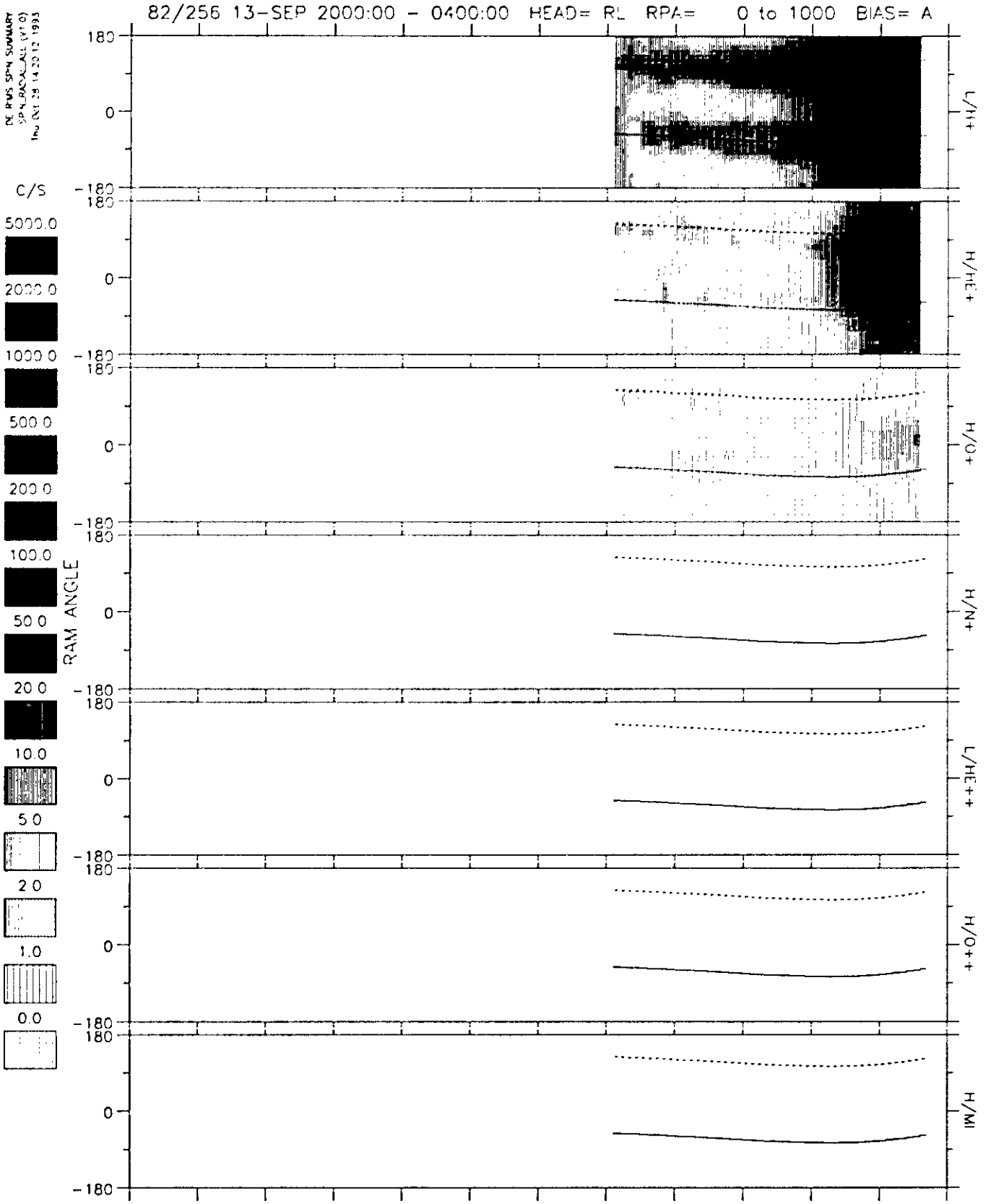
TIME	0000	0050	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	9.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	54.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



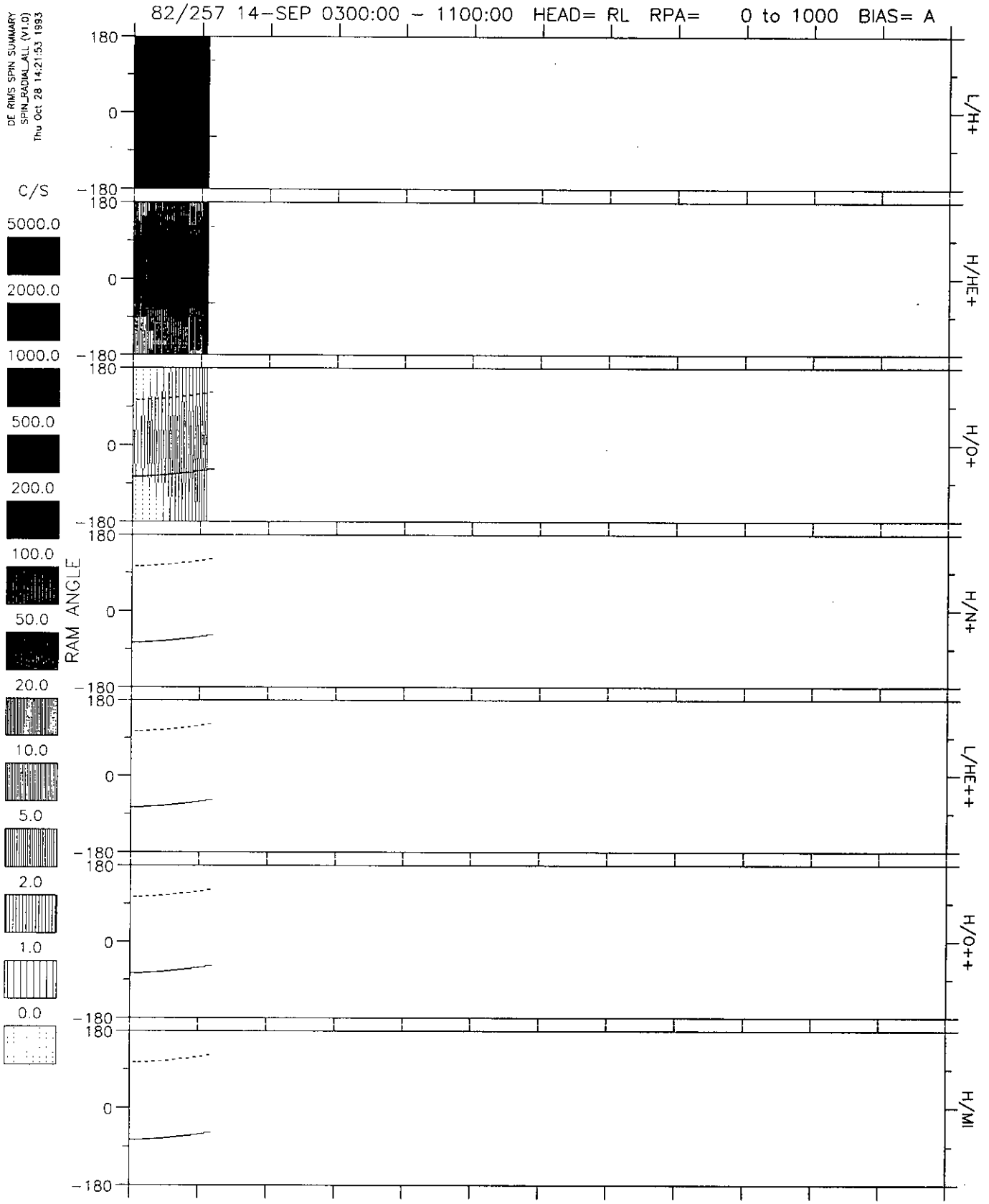
TIME	0000	0000	0000	0000	0000	0000	0000	0120	0200	0240	0320	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.7	4.5	4.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	8.1	6.1	4.4	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	11.7	11.5	11.4	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.6	69.4	66.2	61.6	DEGS



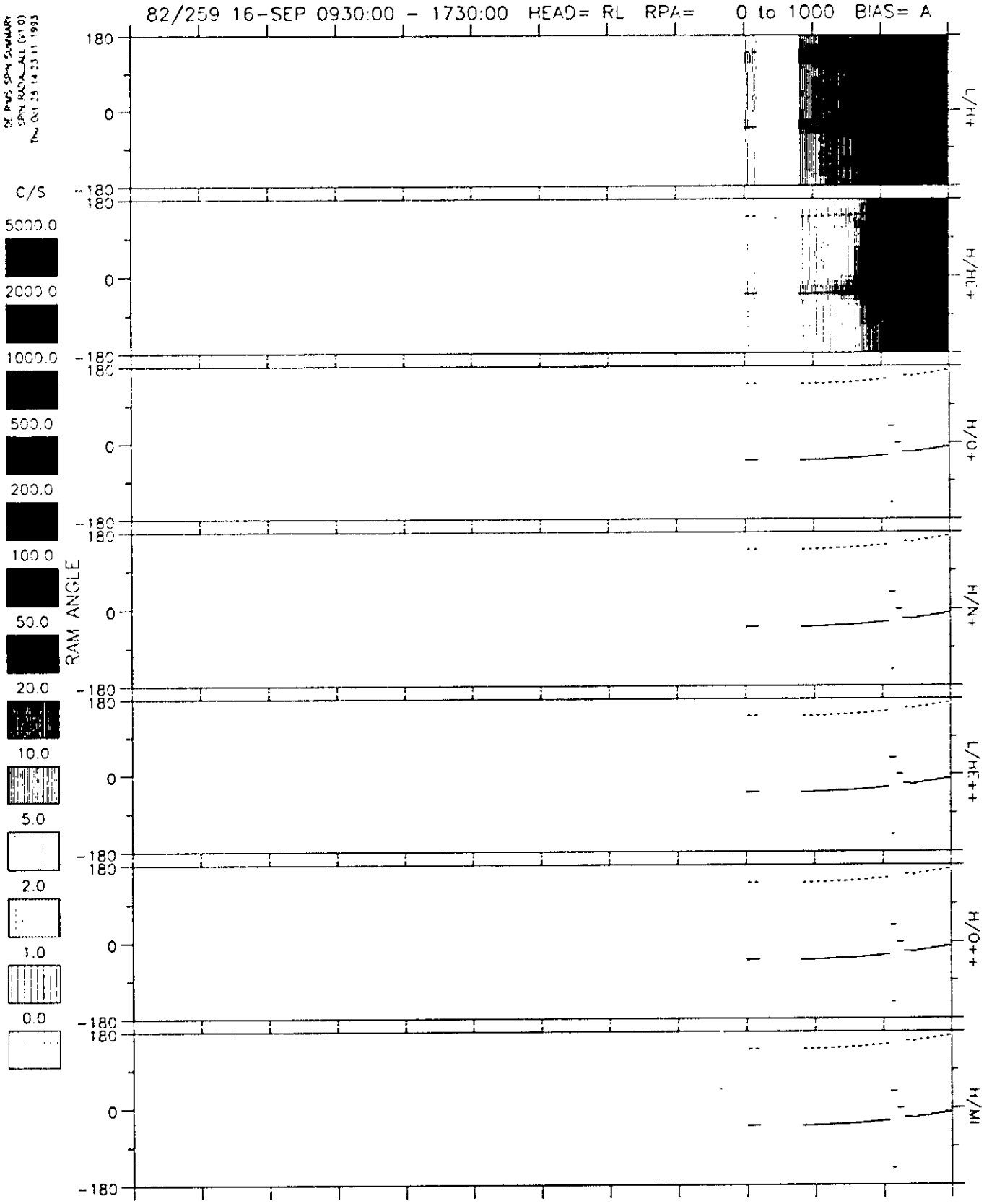
TIME	0340	0420	0000	0000	0000	0700	0740	0820	0000	0000	0000	HHMM
RE	3.7	2.8	0.0	0.0	0.0	3.8	4.3	4.6	0.0	0.0	0.0	RE
L	3.8	2.8	0.0	0.0	0.0	32.4	13.7	8.8	0.0	0.0	0.0	
MLT	11.4	11.4	0.0	0.0	0.0	9.8	10.5	10.7	0.0	0.0	0.0	HRS
MLAT	*****	10.20	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	59.0	53.4	0.0	0.0	0.0	79.9	74.3	70.3	0.0	0.0	0.0	DEGS



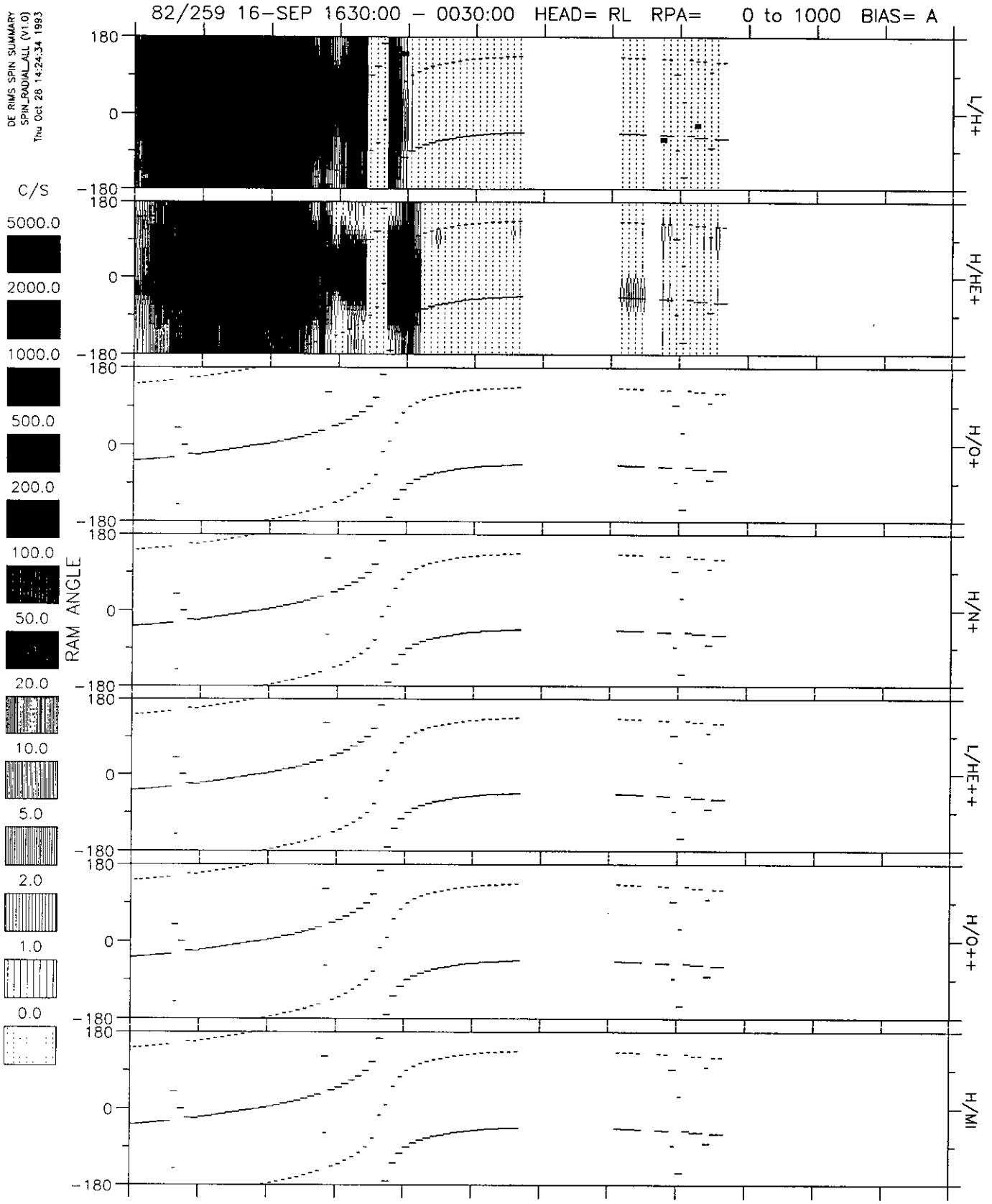
TIME	0000	0000	0000	0000	0000	0000	0000	0120	0200	0240	0320	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	4.4	4.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	7.9	5.8	4.3	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	11.5	11.4	11.3	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.5	69.2	65.6	61.0	DEGS



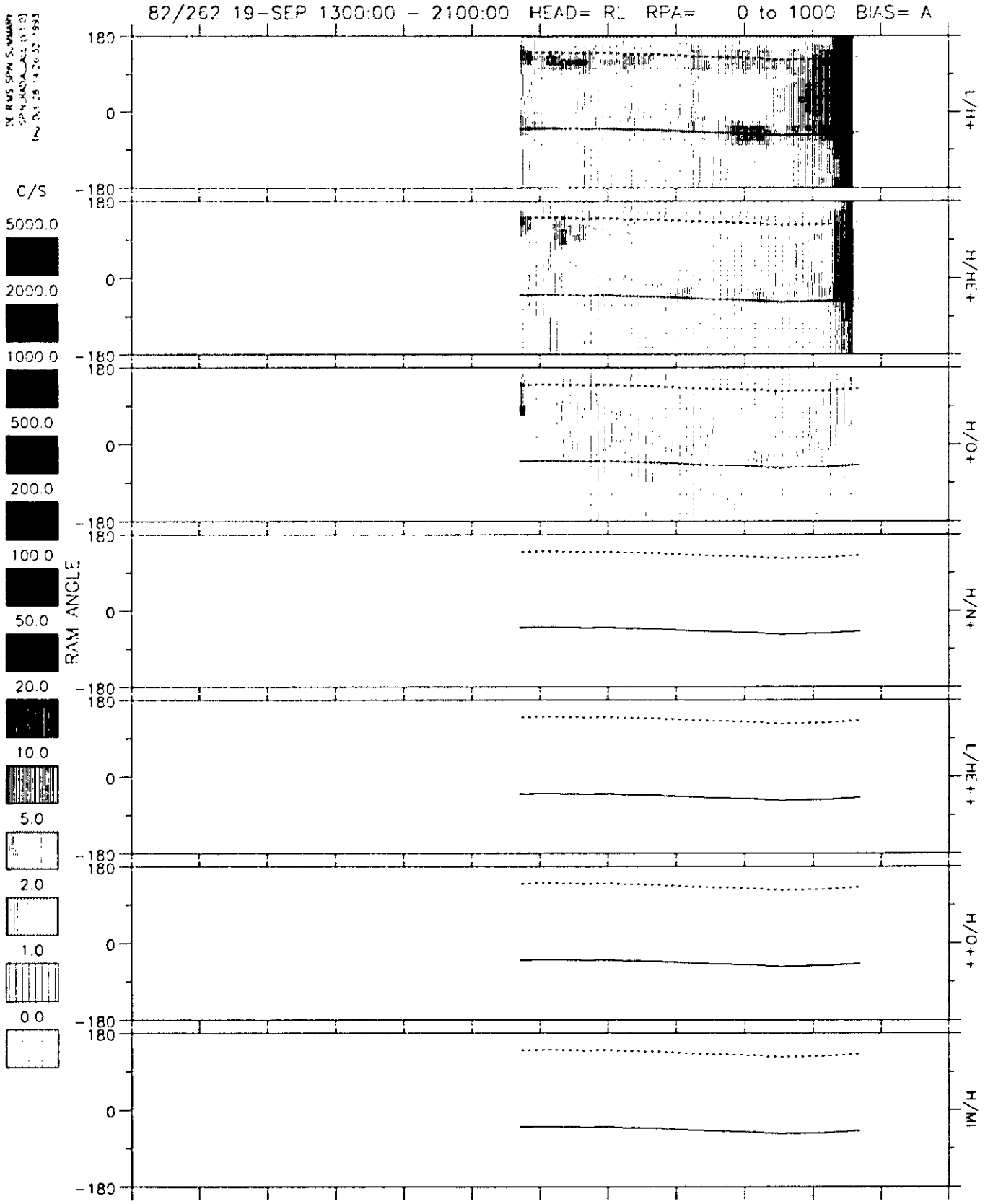
TIME	0340	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	-9.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	58.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



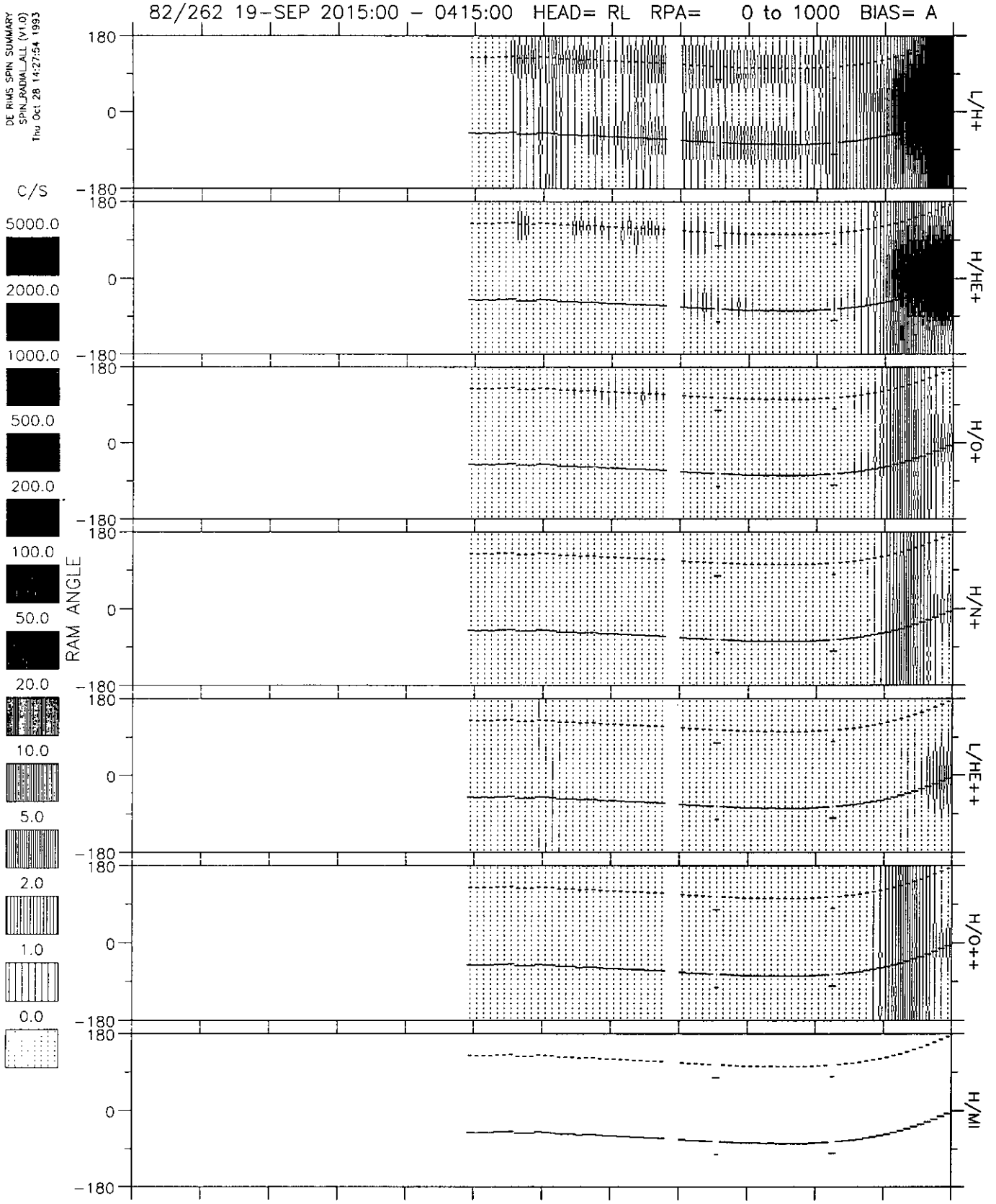
TIME	0000	0000	0000	0000	0000	0000	0000	0000	1530	1610	1650	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.5	4.1	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	4.7	4.1	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	11.2	11.2	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	•••••	•••••	1.23	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.5	62.5	60.4	DEGS



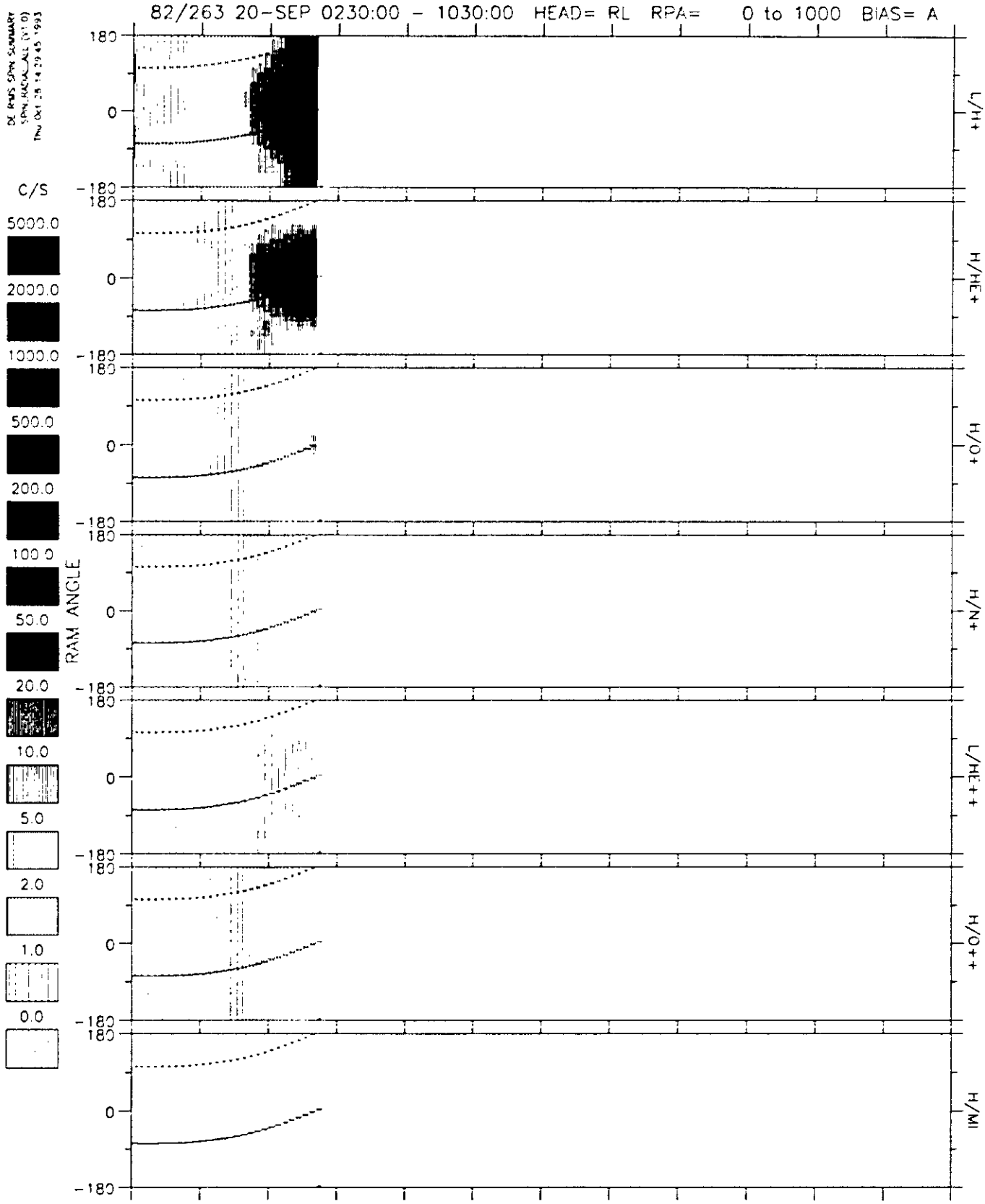
TIME	1710	1750	1830	1910	1950	0000	0000	2150	0000	0000	0000	HHMM
RE	3.7	2.8	1.5	1.6	2.9	0.0	0.0	4.6	0.0	0.0	0.0	RE
L	3.8	3.7	50.6	4.2	46.0	0.0	0.0	8.1	0.0	0.0	0.0	
MLT	11.1	11.0	8.1	22.5	14.5	0.0	0.0	11.8	0.0	0.0	0.0	HRS
MLAT	8.57	29.06	79.36	*****	*****	0.00	0.00	*****	0.00	0.00	0.00	DEGS
INVLAT	59.3	58.5	81.9	60.6	81.5	0.0	0.0	69.4	0.0	0.0	0.0	DEGS



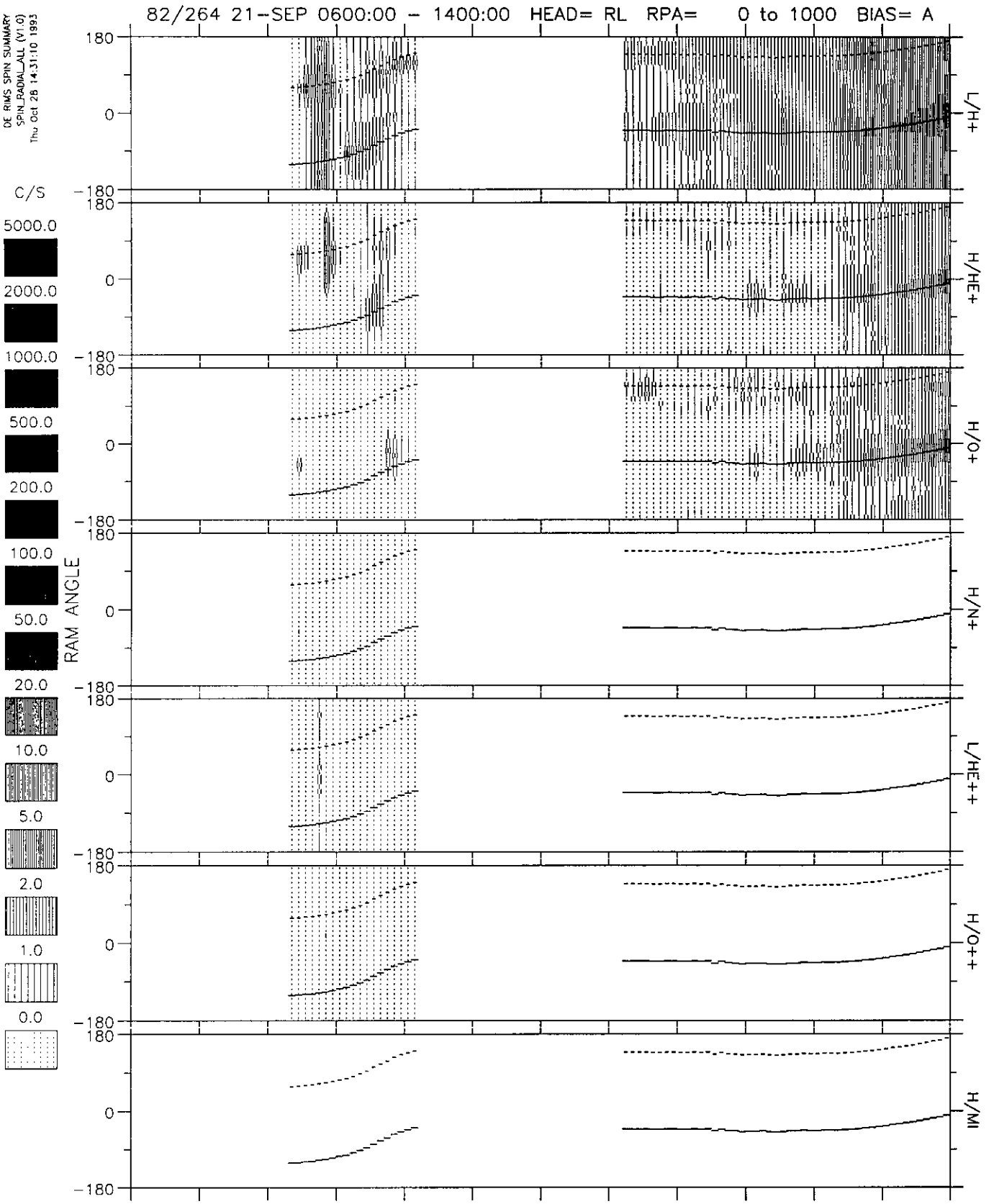
TIME	0000	0000	0000	0000	0000	1700	1740	1820	1900	1940	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	3.8	4.4	4.6	4.6	4.4	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	11.1	7.8	6.4	5.5	4.7	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	11.4	11.4	11.4	11.3	11.2	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	72.5	69.1	66.8	64.7	62.4	0.0	DEGS



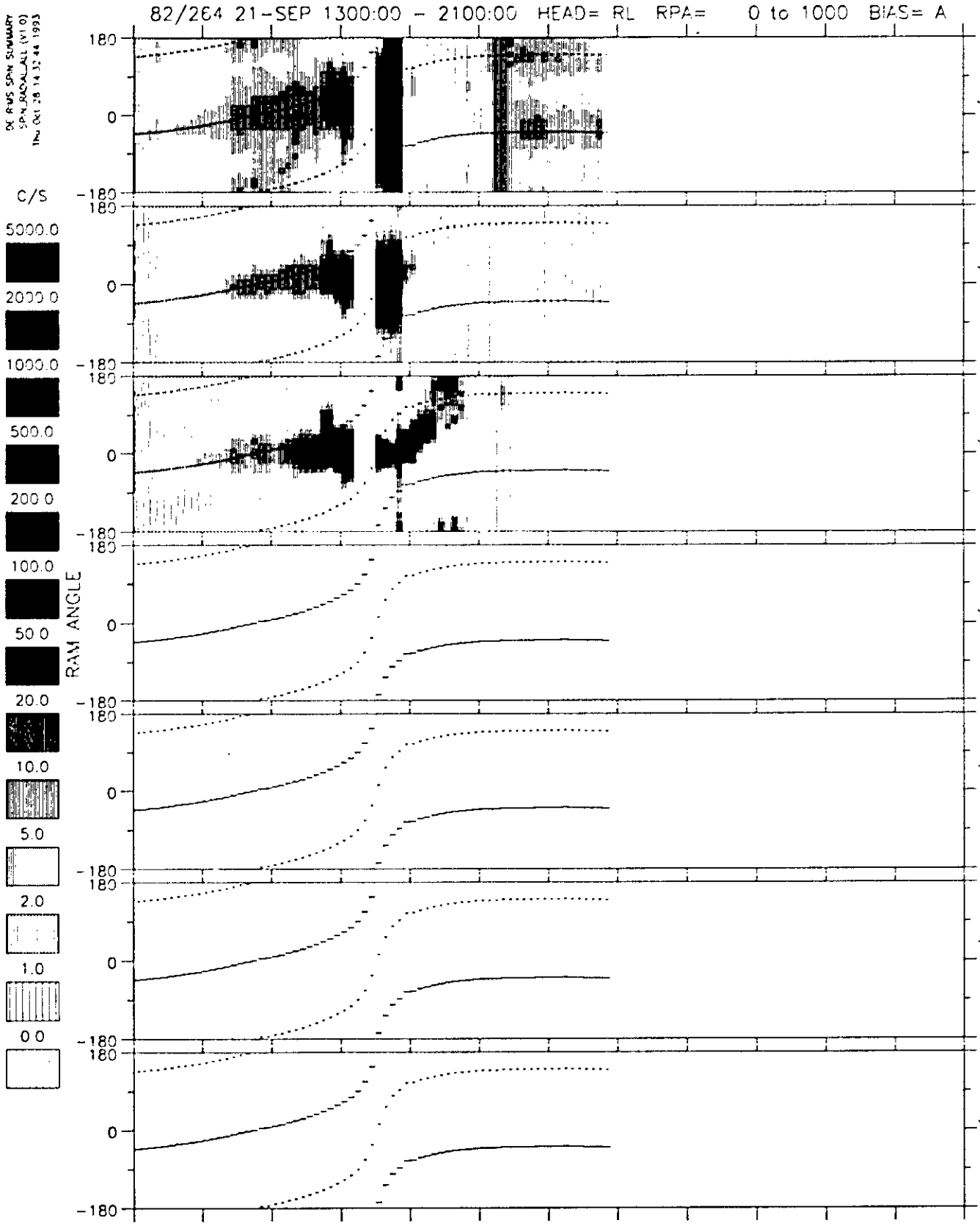
TIME	0000	0000	0000	0000	2335	0015	0055	0135	0215	0255	0335	HHMM
RE	0.0	0.0	0.0	0.0	3.5	4.2	4.6	4.7	4.5	4.1	3.4	RE
L	0.0	0.0	0.0	0.0	56.1	22.0	13.3	9.2	6.6	4.7	3.3	
MLT	0.0	0.0	0.0	0.0	13.5	12.0	11.5	11.2	11.0	10.9	10.9	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	-6.79	DEGS
INVLAT	0.0	0.0	0.0	0.0	82.3	77.7	74.1	70.7	67.1	62.6	56.7	DEGS

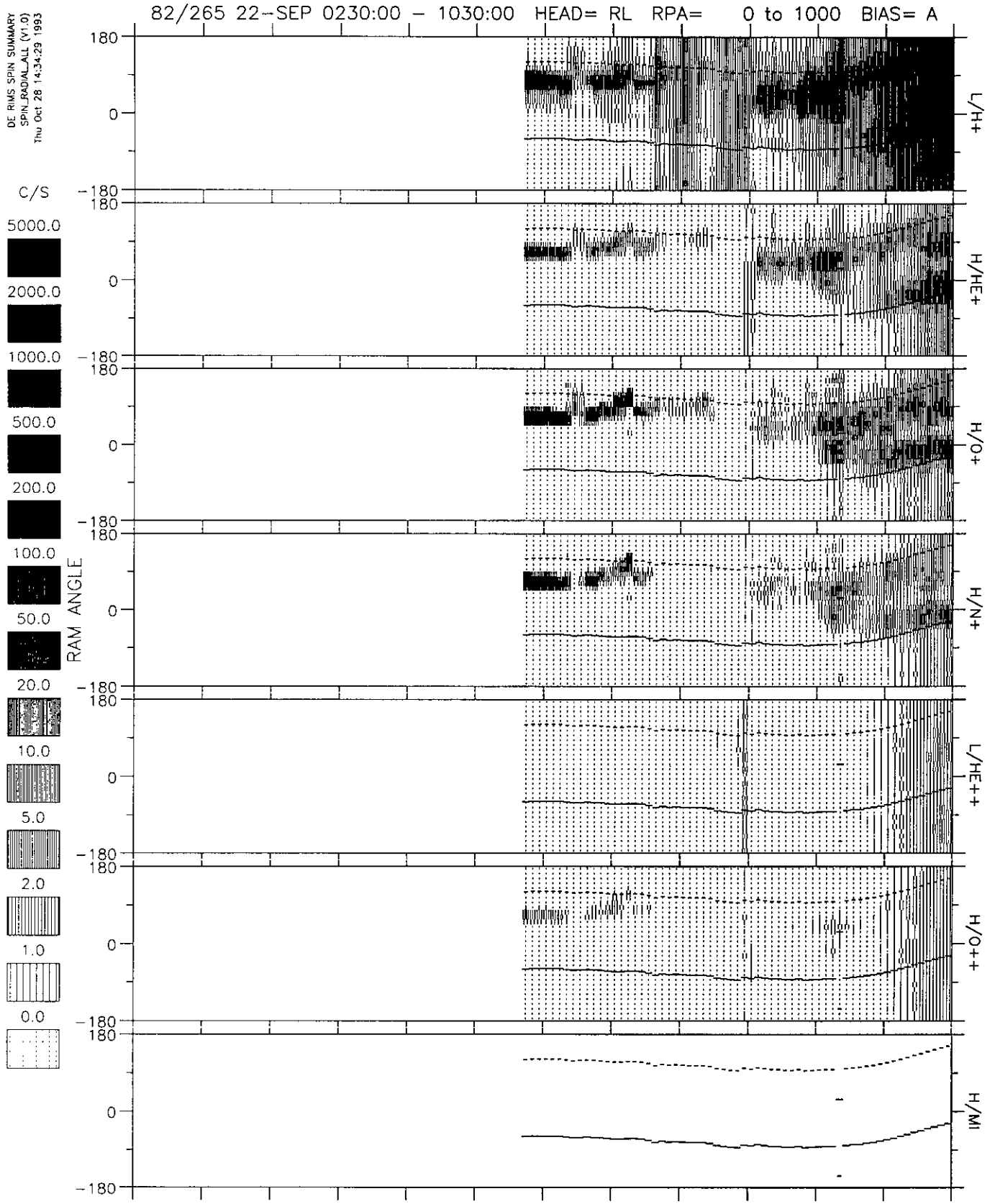


TIME	0310	0350	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	3.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	4.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	10.9	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	*****	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	60.6	54.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

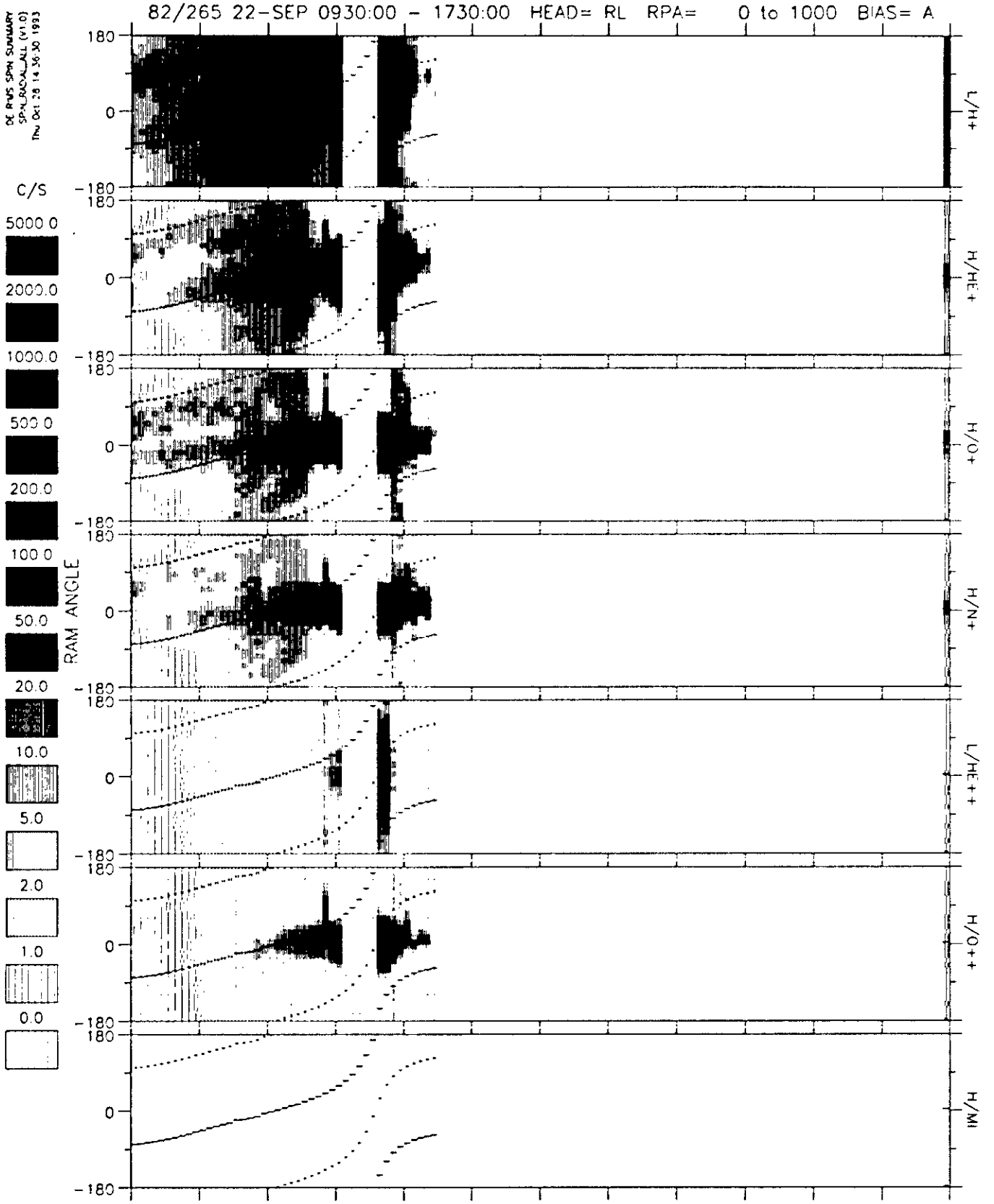


TIME	0000	0000	0800	0840	0000	0000	0000	1120	1200	1240	1320	HHMM
RE	0.0	0.0	1.5	1.5	0.0	0.0	0.0	4.6	4.6	4.4	3.9	RE
L	0.0	0.0	8.8	2.6	0.0	0.0	0.0	7.3	5.8	4.7	4.0	
MLT	0.0	0.0	12.5	23.5	0.0	0.0	0.0	10.3	10.5	10.7	10.8	HRS
MLAT	0.00	0.00	64.55	*****	0.00	0.00	0.00	*****	*****	*****	1.95	DEGS
INVLAT	0.0	0.0	70.2	52.0	0.0	0.0	0.0	68.2	65.3	62.6	60.0	DEGS

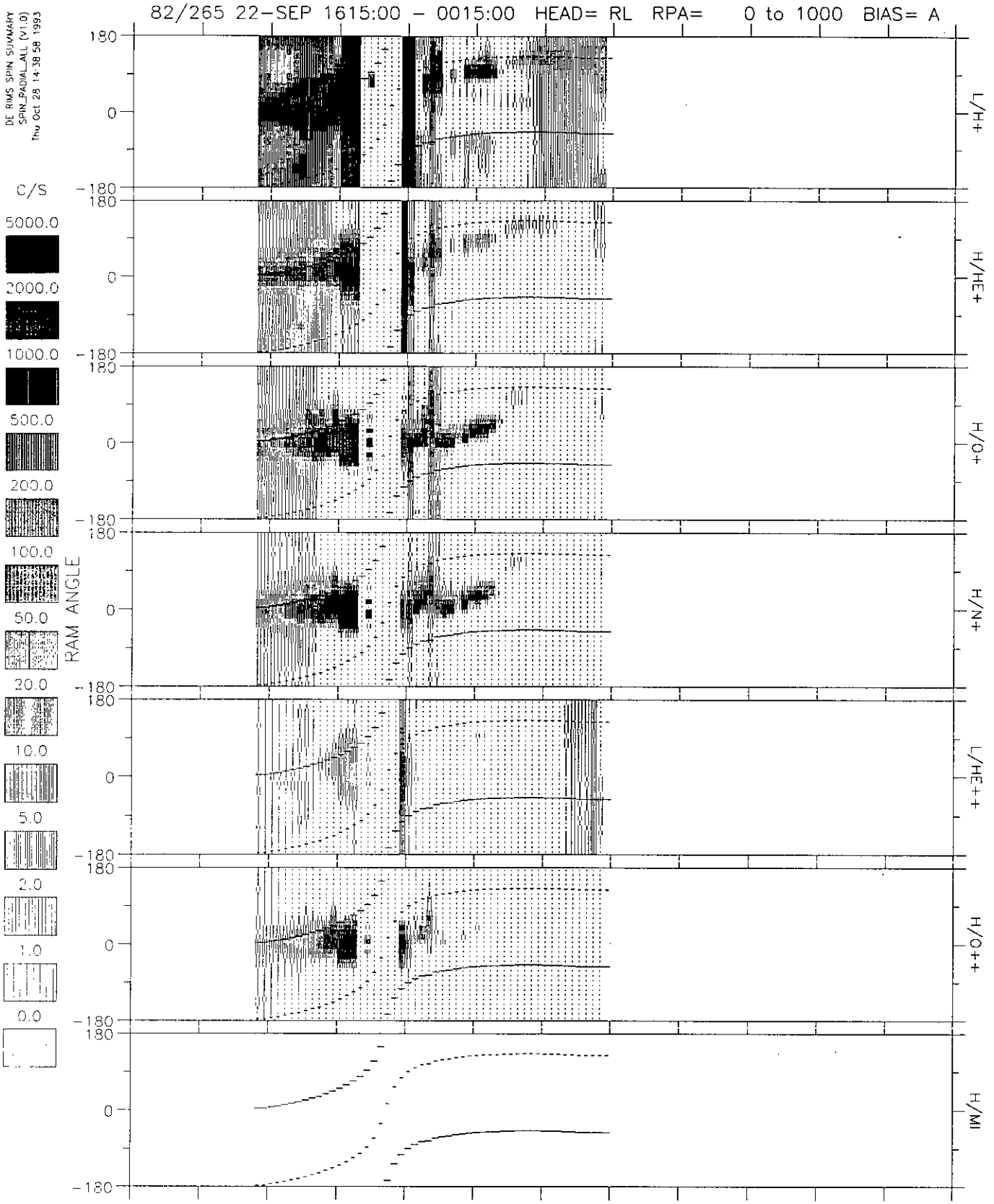

82/264 21-SEP 1300:00 - 2100:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
+H/L+
+H/HE+
+H/O+
+H/N+
+L/HE++
+H/O++
H/M
TIME 1340 1420 1500 1540 1620 1700 0000 0000 0000 0000 0000 HHMM
RE 3.5 2.5 1.2 1.9 3.1 3.9 0.0 0.0 0.0 0.0 0.0 RE
L 3.7 3.8 13.3 20.5 26.8 10.7 0.0 0.0 0.0 0.0 0.0
MLT 10.8 10.9 22.7 22.6 11.5 11.3 0.0 0.0 0.0 0.0 0.0 HRS
MLAT 10.52 35.95 68.51 ***** ***** ***** 0.00 0.00 0.00 0.00 0.00 DEGS
INVLAT 58.8 59.3 74.0 77.2 78.9 72.2 0.0 0.0 0.0 0.0 0.0 DEGS



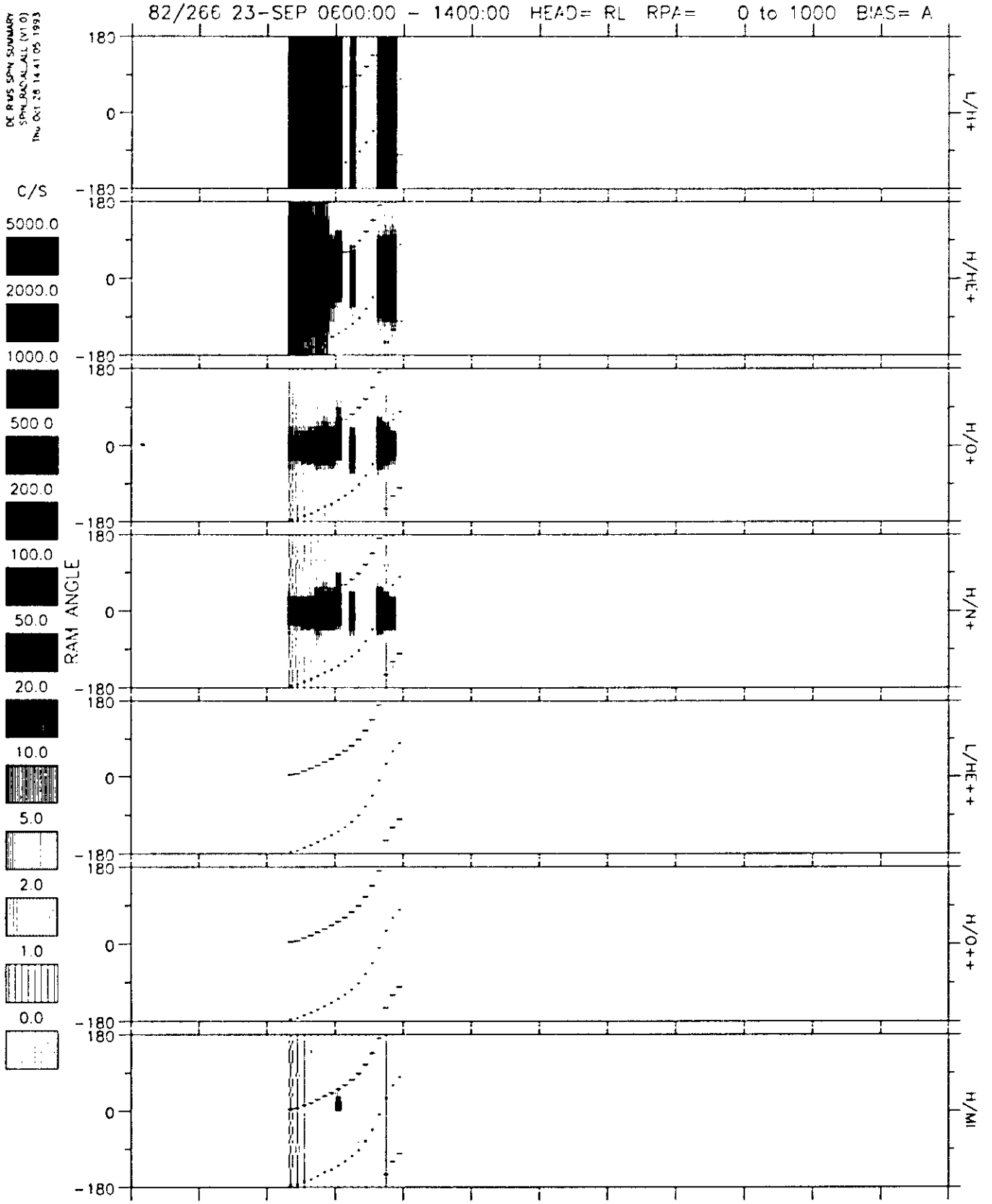
TIME	0000	0000	0000	0000	0000	0630	0710	0750	0830	0910	0950	HHMM
RE	0.0	0.0	0.0	0.0	0.0	3.7	4.3	4.6	4.6	4.4	3.9	RE
L	0.0	0.0	0.0	0.0	0.0	46.4	16.6	9.9	7.0	5.3	4.1	
MLT	0.0	0.0	0.0	0.0	0.0	8.8	9.7	10.1	10.3	10.5	10.7	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	-7.11	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	81.6	75.8	71.5	67.8	64.2	60.4	DEGS

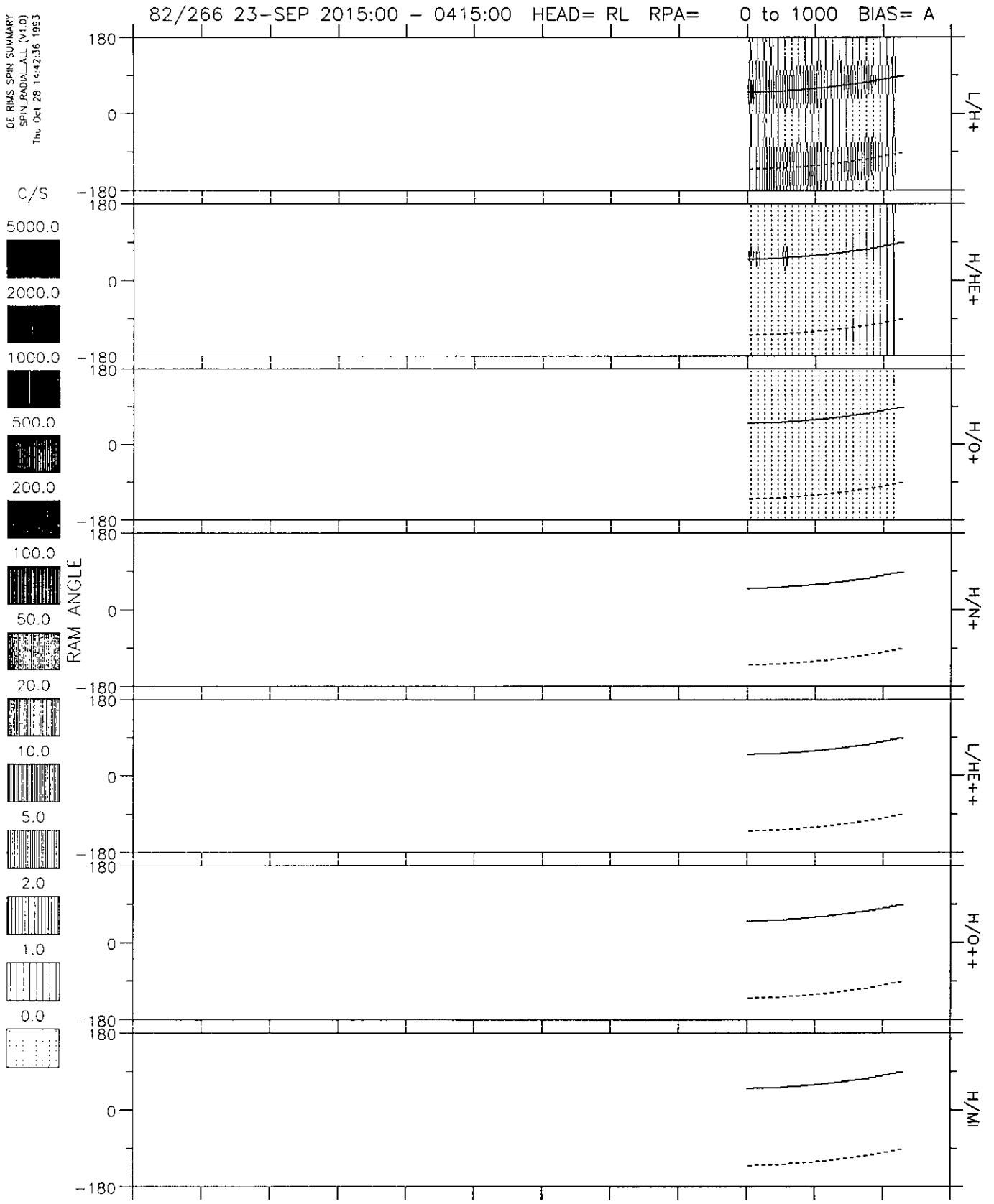


TIME	1010	1050	1130	1210	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	3.6	2.6	1.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	3.6	3.1	43.4	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	10.8	11.1	19.6	23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	1.68	27.08	76.94	•••••	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	58.4	55.5	81.2	71.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

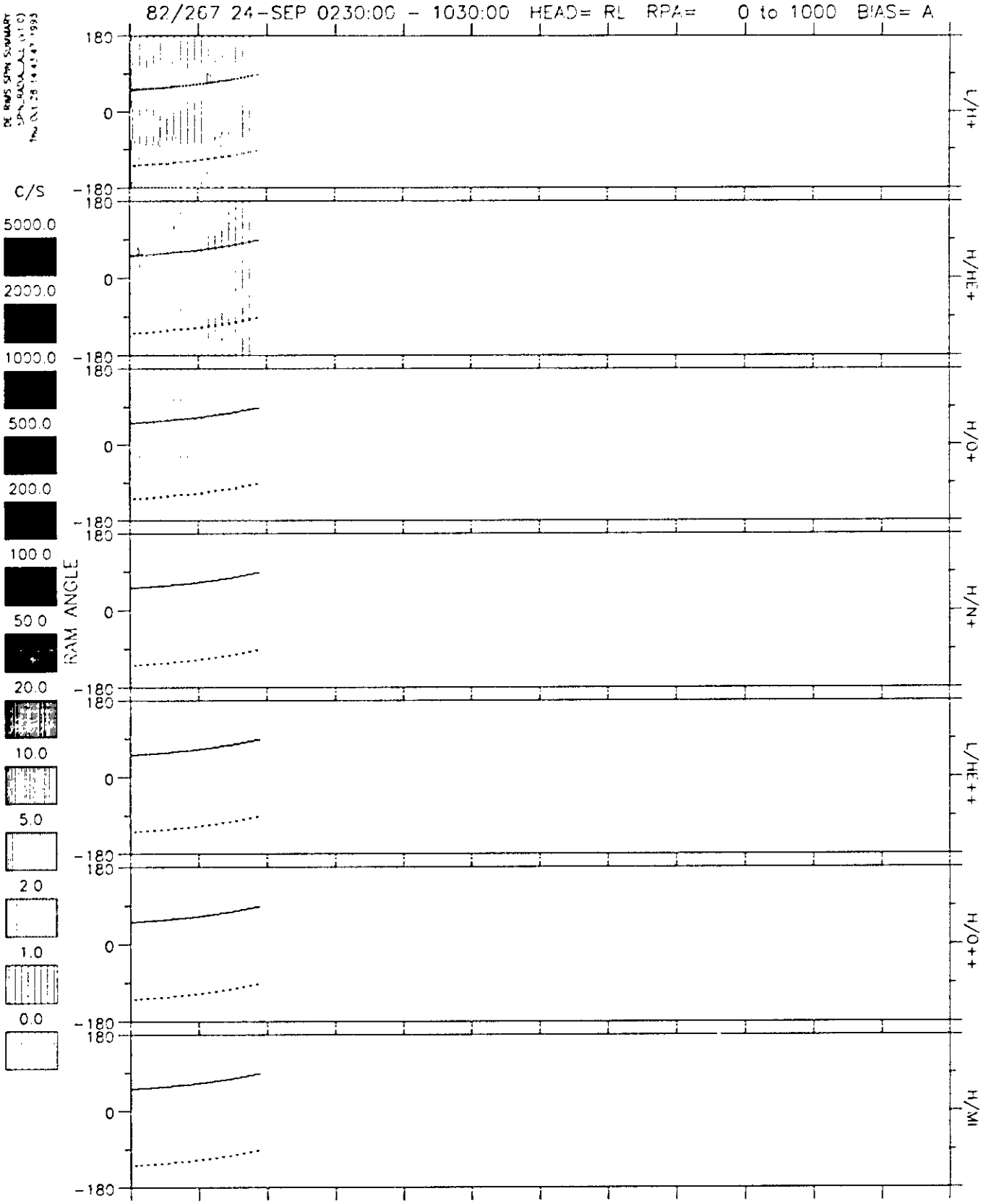


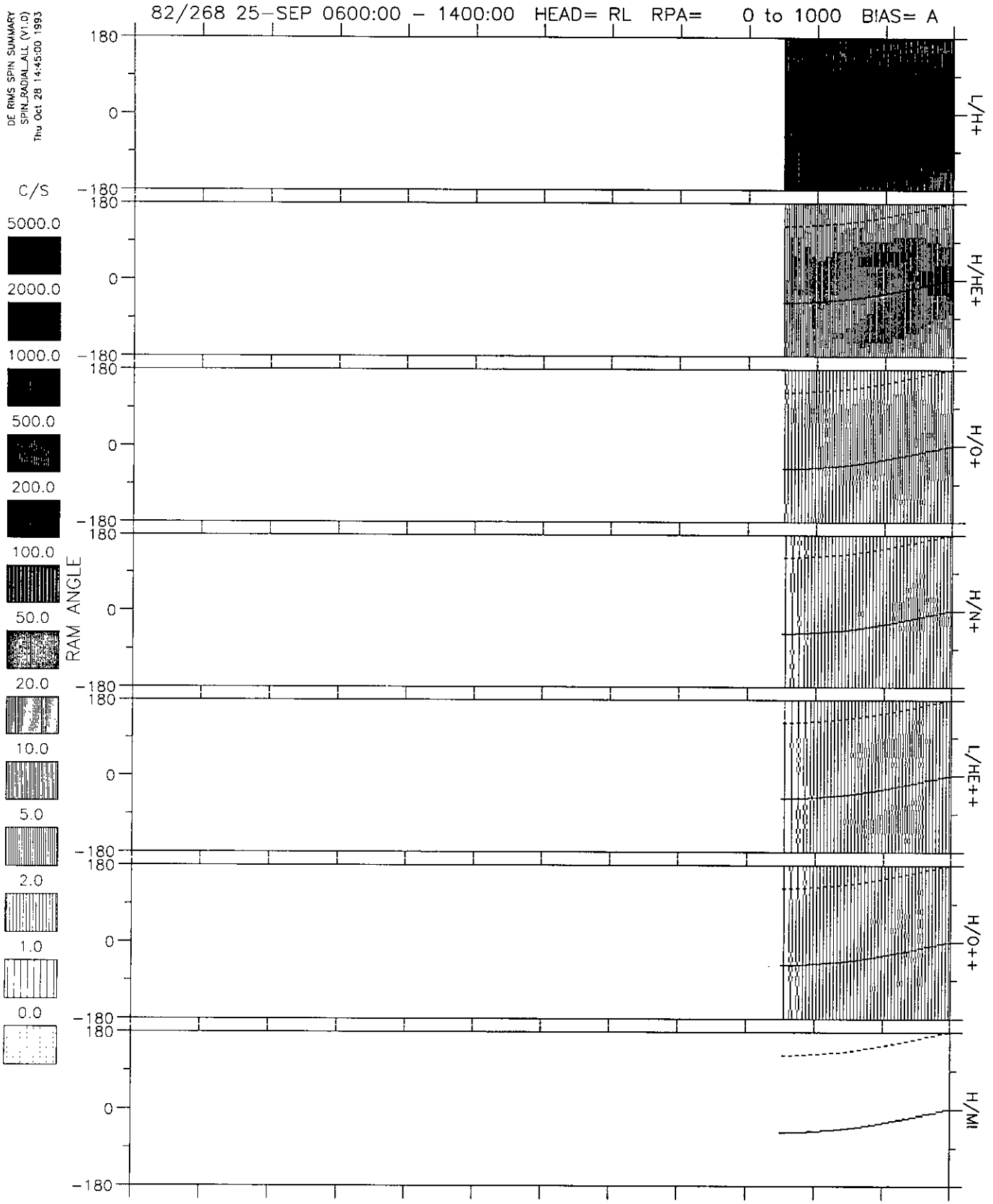
TIME	0000	1735	1815	1855	1935	2015	0000	0000	0000	0000	0000	HHMM
RE	0.0	2.7	1.4	1.6	2.9	3.8	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	3.5	50.0	4.2	52.5	17.5	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	10.6	7.6	22.1	14.5	12.3	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	27.53	79.28	*****	*****	*****	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	57.8	81.8	60.8	82.1	76.2	0.0	0.0	0.0	0.0	0.0	DEGS


82/266 23-SEP 0600:00 - 1400:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RWS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Thu Oct 28 14 41 05 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 0800 0000 0000 0000 0000 0000 0000 0000 0000 HHMM
RE 0.0 0.0 1.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 RE
L 0.0 0.0 35.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
MLT 0.0 0.0 14.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 HRS
MLAT 0.00 0.00 76.41 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 DEGS
INVLAT 0.0 0.0 80.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 DEGS

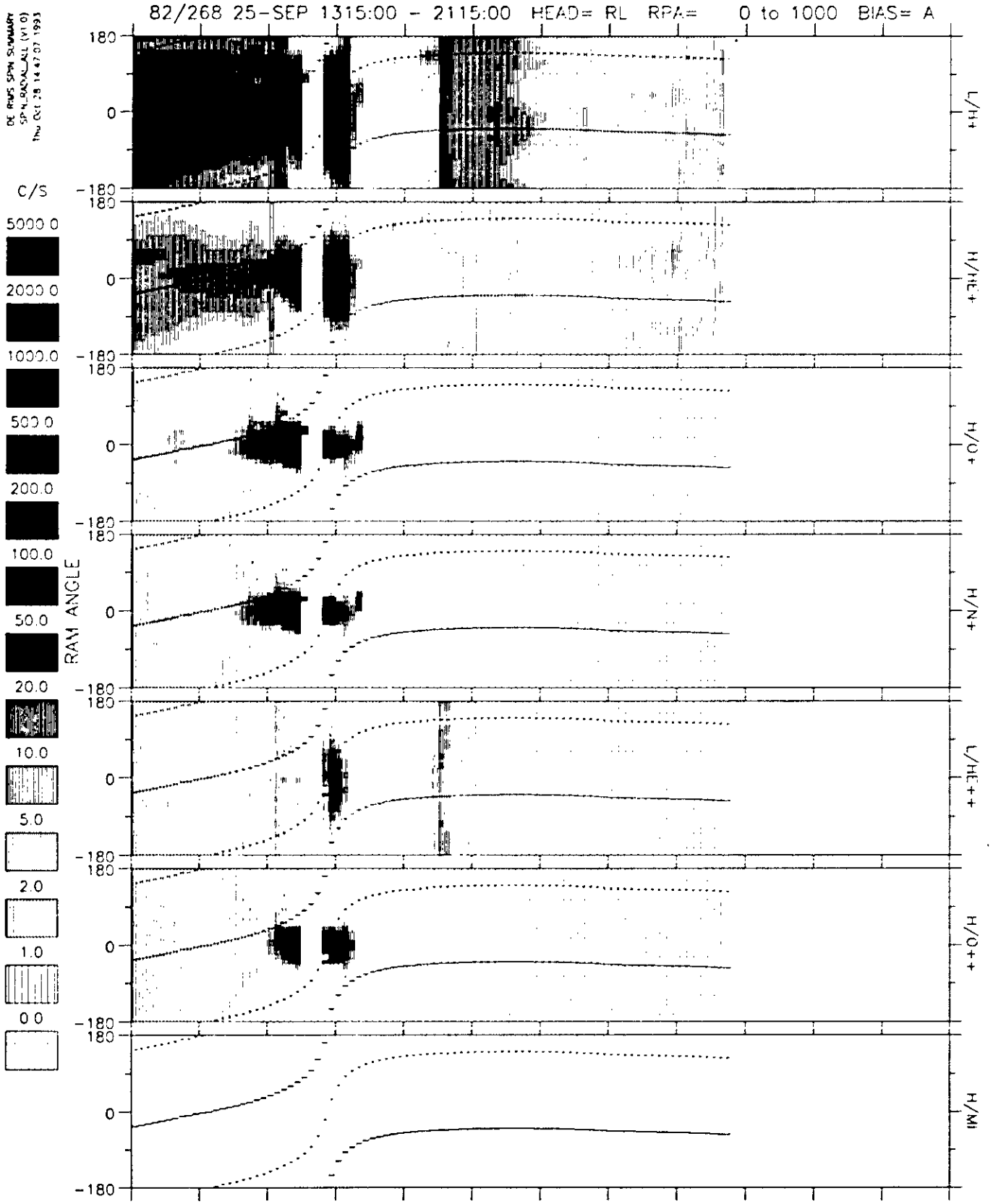


TIME	0000	0000	0000	0000	0000	0000	0000	0000	0215	0255	0335	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	3.9	3.1	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	4.4	3.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	10.7	10.7	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	-2.28	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.4	61.4	55.0	DEGS

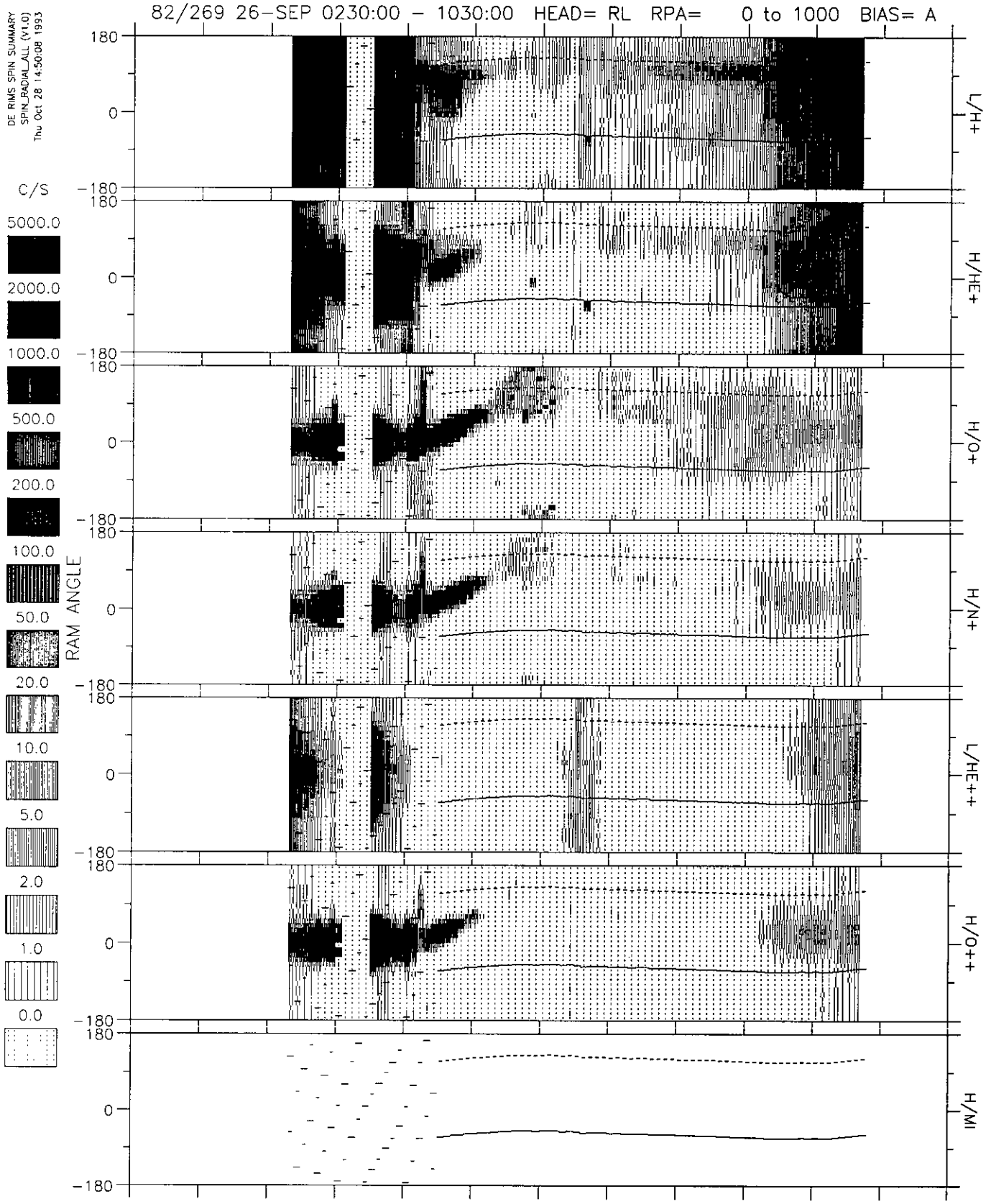

82/267 24-SEP 0230:00 - 1030:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M
TIME 0310 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 HHMM
RE 3.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 RE
L 3.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
MLT 10.7 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 DEGS
INVLAT 59.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 DEGS



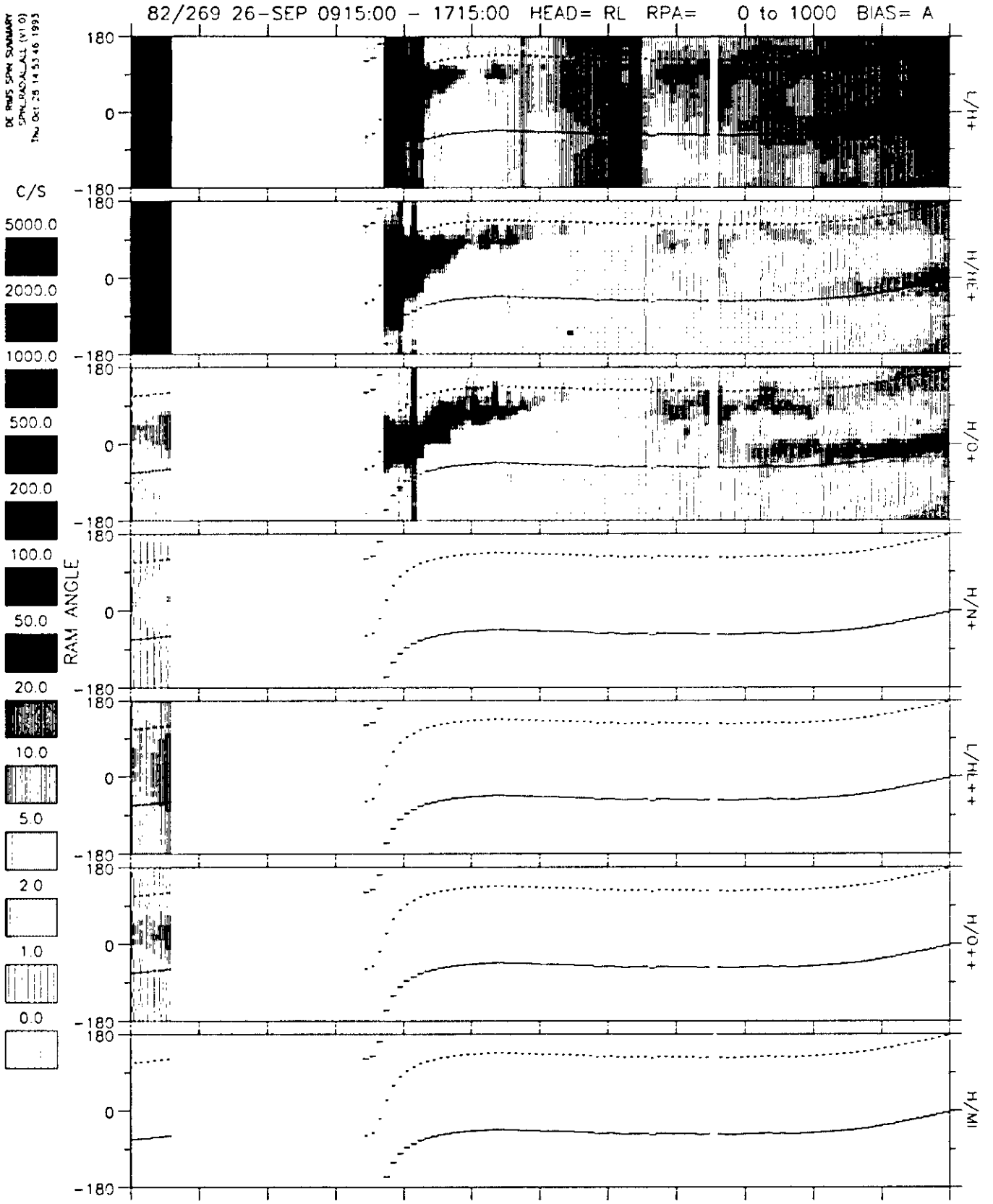
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	1240	1320	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	3.7	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.8	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	10.6	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-9.69	5.16	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.0	59.2	DEGS

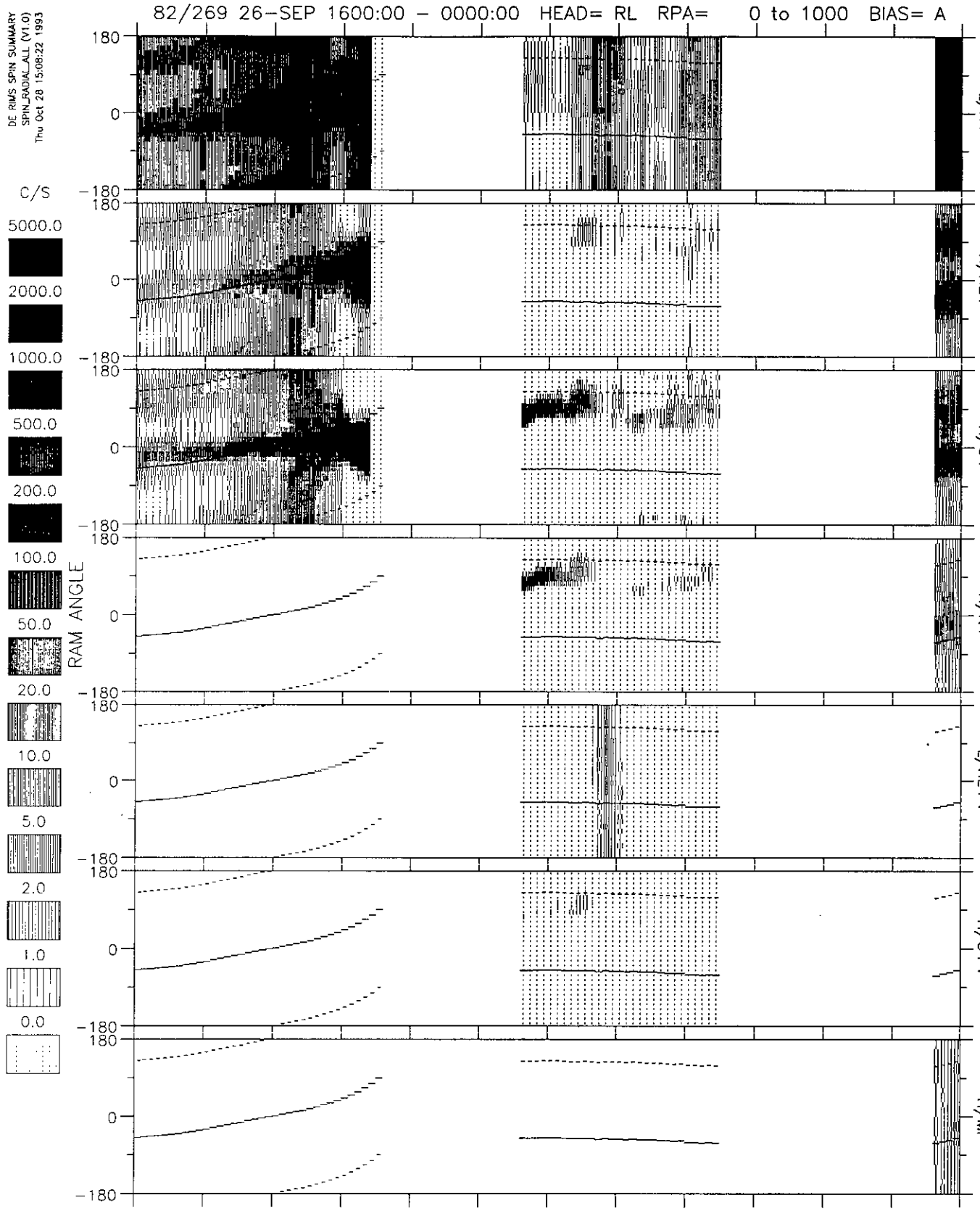


TIME	1355	1435	1515	1555	1635	1715	1755	1835	0000	0000	0000	HHMM
RE	2.9	1.7	1.4	2.7	3.7	4.3	4.6	4.7	0.0	0.0	0.0	RE
L	3.5	11.6	2.2	-0.0	14.2	9.0	7.1	5.9	0.0	0.0	0.0	
MLT	10.6	10.8	22.5	11.8	11.2	11.1	11.1	11.0	0.0	0.0	0.0	HRS
MLAT	23.61	69.23	*****	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	57.8	72.9	47.5	-0.0	74.6	70.5	67.9	65.7	0.0	0.0	0.0	DEGS

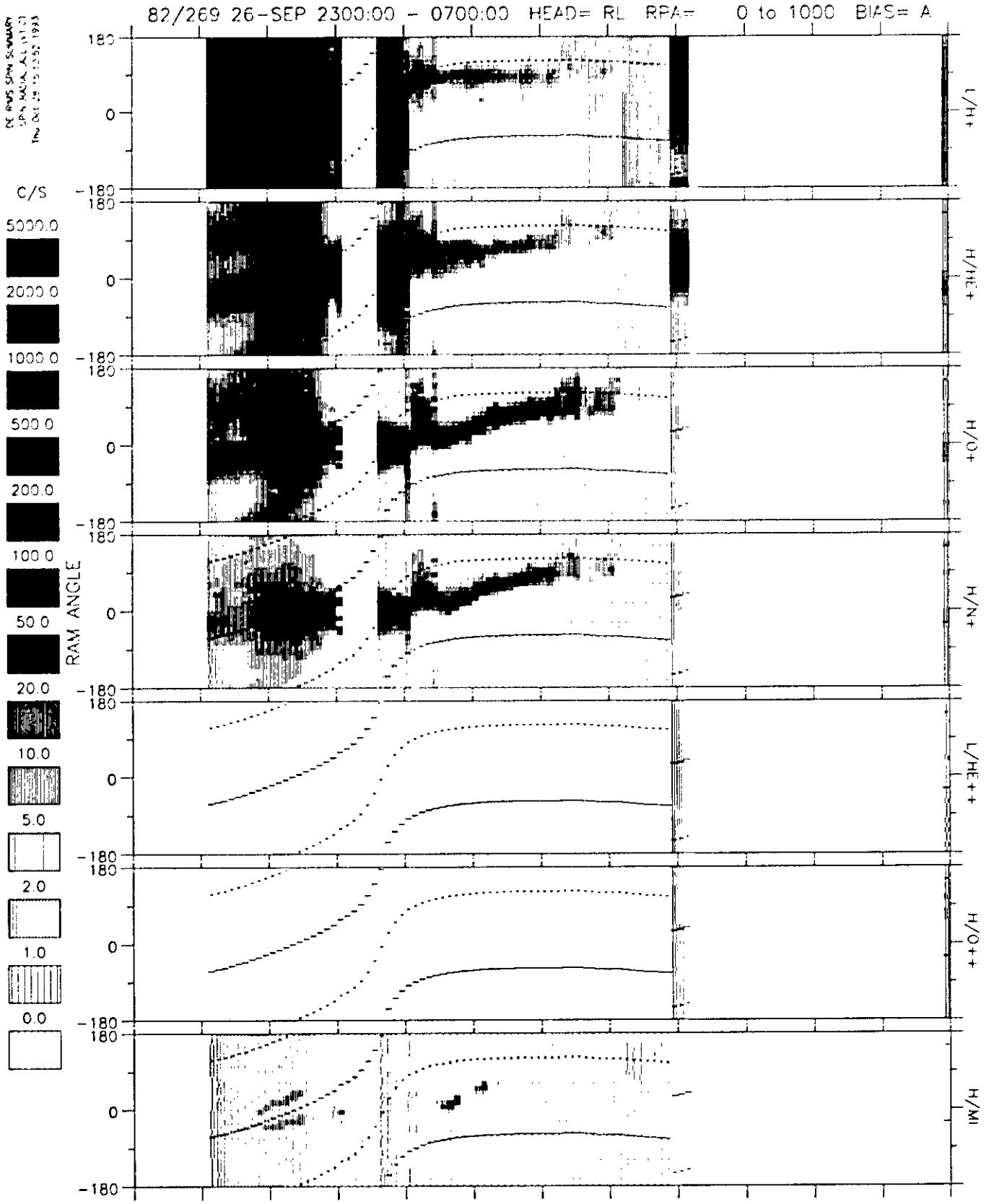


TIME	0000	0000	0430	0510	0550	0630	0710	0750	0830	0910	0000	HHMM
RE	0.0	0.0	1.2	1.8	3.1	3.9	4.4	4.6	4.6	4.3	0.0	RE
L	0.0	0.0	100.0	3.9	100.0	35.0	14.8	9.3	6.6	5.0	0.0	
MLT	0.0	0.0	13.6	23.1	3.4	8.8	9.6	9.9	10.1	10.3	0.0	HRS
MLAT	0.00	0.00	83.57	*****	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	86.9	59.4	84.6	80.3	75.0	70.8	67.2	63.5	0.0	DEGS

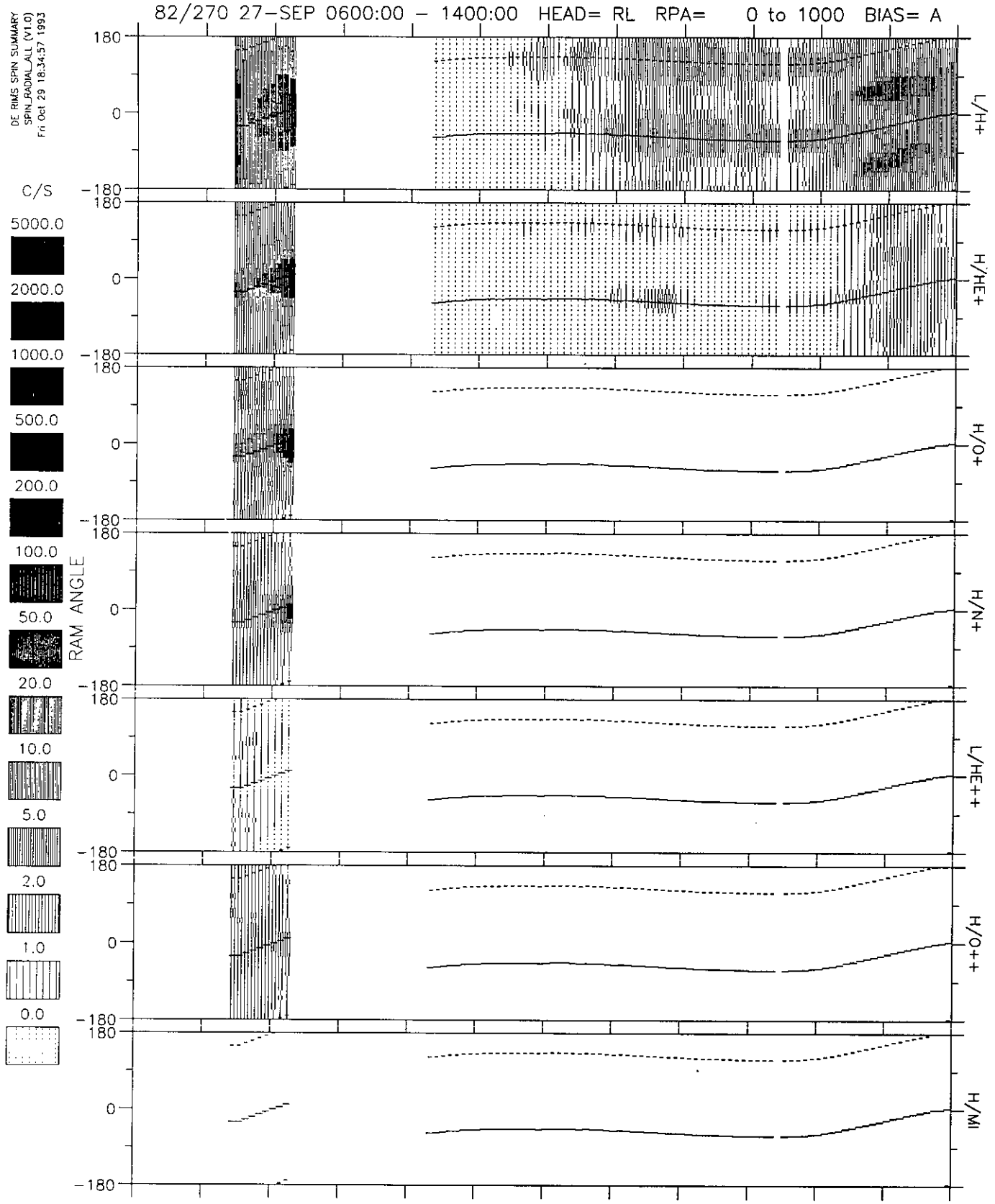

82/269 26-SEP 0915:00 - 1715:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RMS SPW SUMMARY
SPW_RADIALL (V1.0)
Thu Oct 28 14:53:46 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 0000 0000 0000 1155 1235 1315 1355 1435 1515 1555 1635 HHMM
RE 0.0 0.0 0.0 1.7 2.9 3.8 4.4 4.6 4.6 4.4 3.9 RE
L 0.0 0.0 0.0 5.2 47.3 12.7 8.2 6.4 5.4 4.6 3.9
MLT 0.0 0.0 0.0 23.3 8.5 10.0 10.3 10.5 10.6 10.6 10.6 HRS
MLAT 0.00 0.00 0.00 ***** ***** ***** ***** ***** ***** ***** 1.88 DEGS
INVLAT 0.0 0.0 0.0 64.1 81.6 73.7 69.6 66.8 64.4 62.1 59.6 DEGS



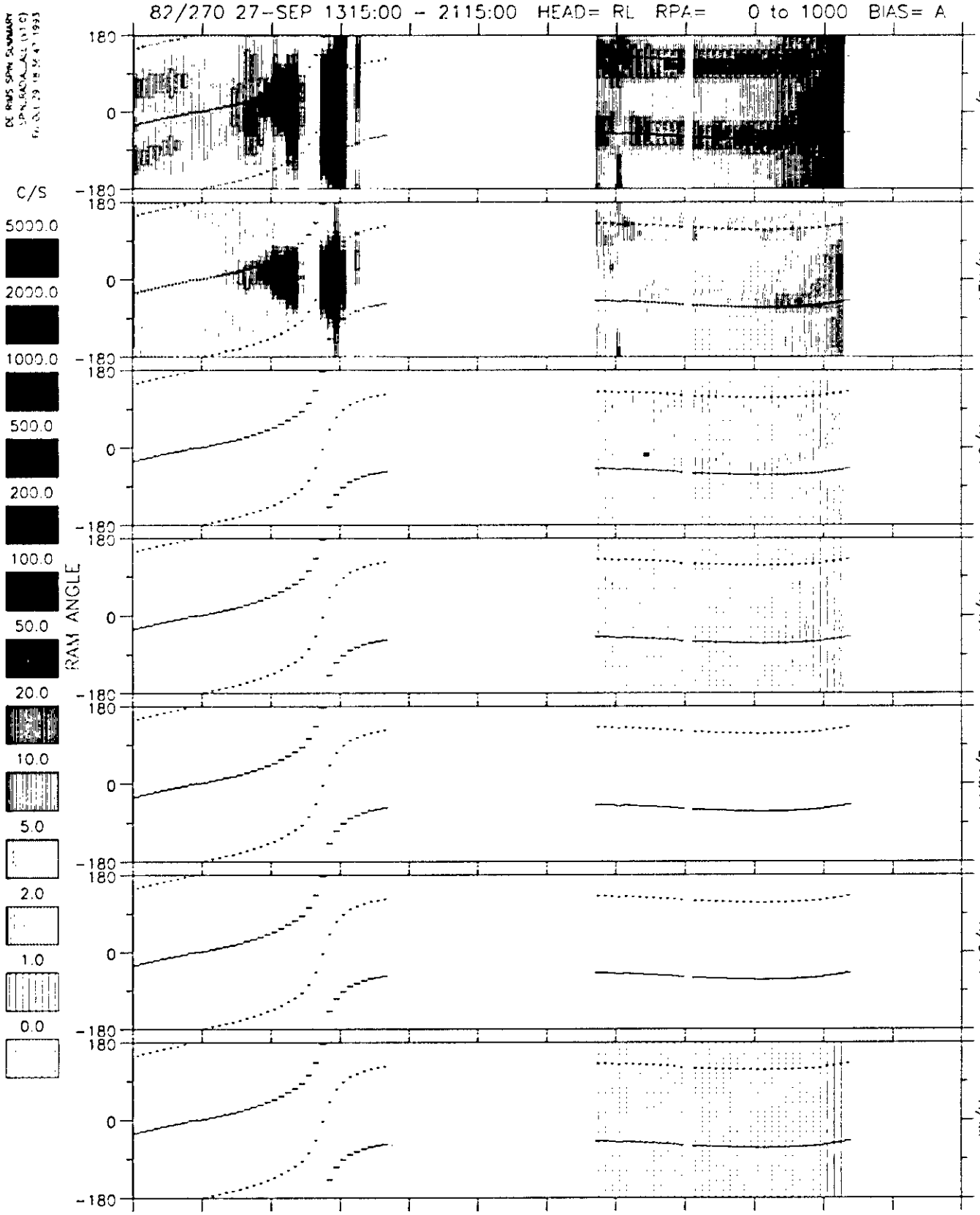
TIME	1640	1720	1800	0000	0000	2000	2040	2120	0000	0000	0000	HHMM
RE	3.8	2.9	1.6	0.0	0.0	3.7	4.3	4.6	0.0	0.0	0.0	RE
L	3.8	3.4	12.9	0.0	0.0	20.8	12.8	9.4	0.0	0.0	0.0	
MLT	10.6	10.4	9.1	0.0	0.0	12.2	11.6	11.3	0.0	0.0	0.0	HRS
MLAT	3.74	23.13	69.20	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	59.2	57.2	73.8	0.0	0.0	77.3	73.7	70.9	0.0	0.0	0.0	DEGS



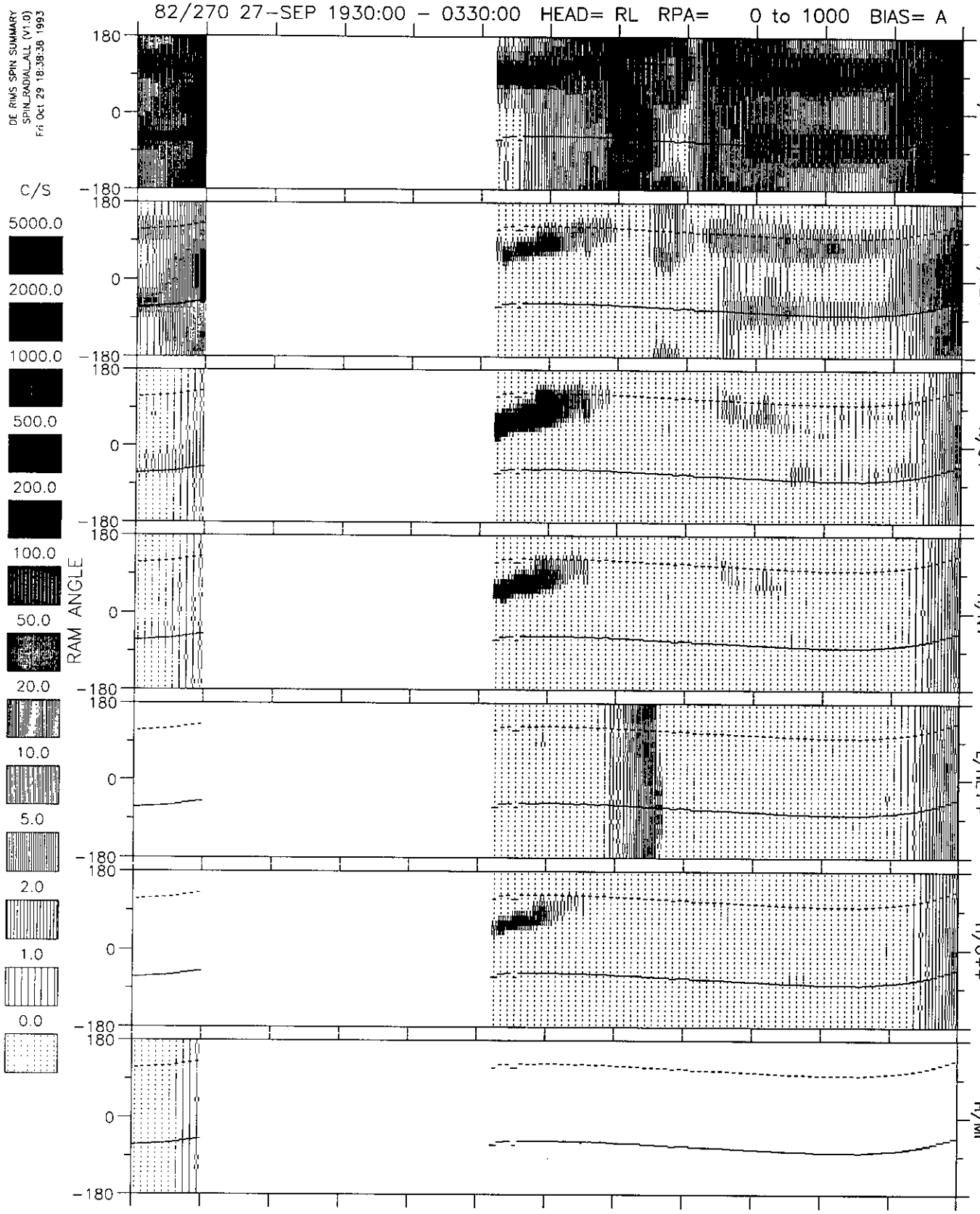
TIME	0000	0020	0100	0140	0220	0300	0340	0420	0000	0000	0000	HHMM
RE	0.0	2.6	1.3	1.8	3.0	3.9	4.4	4.6	0.0	0.0	0.0	RE
L	0.0	2.7	47.2	3.2	100.0	99.4	24.2	12.7	0.0	0.0	0.0	
MLT	0.0	10.3	8.8	22.2	21.6	10.3	10.2	10.1	0.0	0.0	0.0	HRS
MLAT	0.00	11.89	77.47	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	0.0	52.2	81.6	56.2	85.7	84.2	78.3	73.7	0.0	0.0	0.0	DEGS



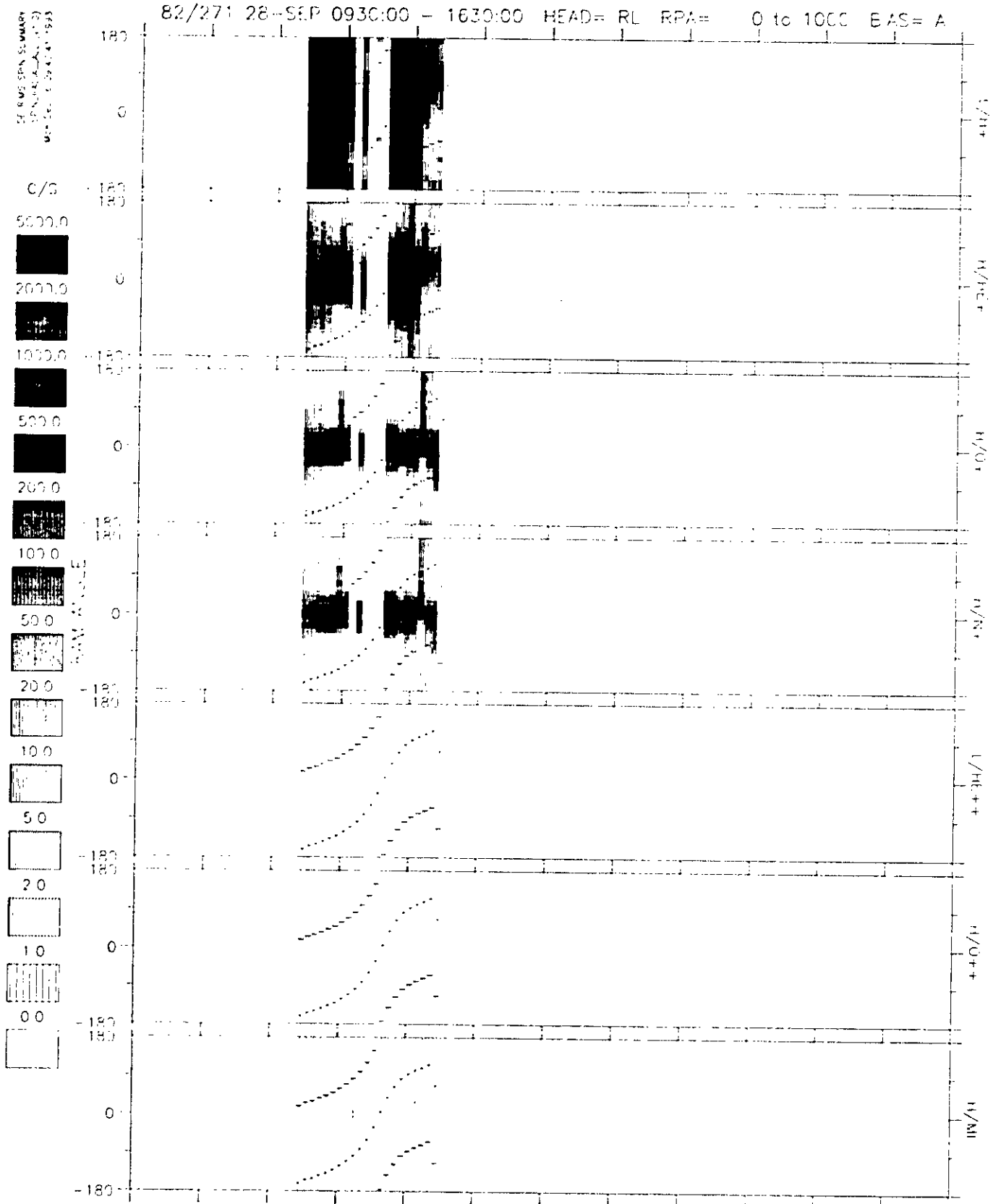
TIME	0000	0720	0000	0000	0920	1000	1040	1120	1200	1240	1320	HHMM
RE	0.0	2.3	0.0	0.0	3.3	4.0	4.5	4.7	4.6	4.2	3.6	RE
L	0.0	2.8	0.0	0.0	39.9	14.7	9.2	6.8	5.4	4.4	3.7	
MLT	0.0	10.9	0.0	0.0	7.5	9.3	9.8	10.1	10.2	10.4	10.5	HRS
MLAT	0.00	24.46	0.00	0.00	*****	*****	*****	*****	*****	-8.50	6.88	DEGS
INVLAT	0.0	52.9	0.0	0.0	80.9	74.9	70.7	67.5	64.5	61.7	58.9	DEGS



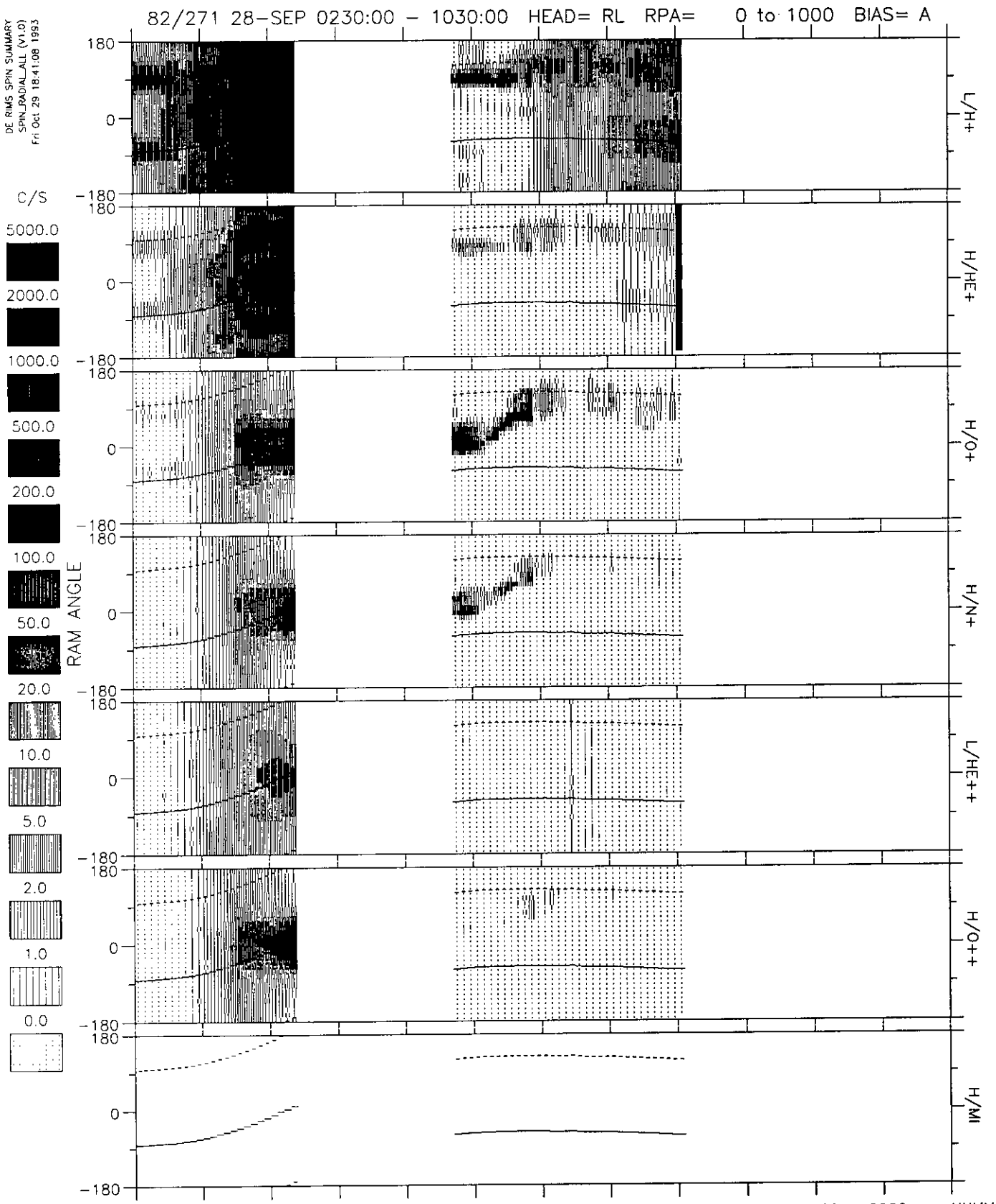
TIME	1355	1435	1515	0000	0000	0000	1755	0000	1915	1955	0000	HHMM
RE	2.8	1.5	1.6	0.0	0.0	0.0	4.6	0.0	4.4	3.9	0.0	RE
L	3.5	39.8	4.2	0.0	0.0	0.0	7.0	0.0	4.9	3.9	0.0	
MLT	10.5	10.8	22.4	0.0	0.0	0.0	10.9	0.0	10.8	10.6	0.0	HRS
MLAT	26.73	80.80	*****	0.00	0.00	0.00	*****	0.00	*****	-6.84	0.00	DEGS
INVLAT	57.8	80.8	60.7	0.0	0.0	0.0	67.8	0.0	63.1	59.8	0.0	DEGS



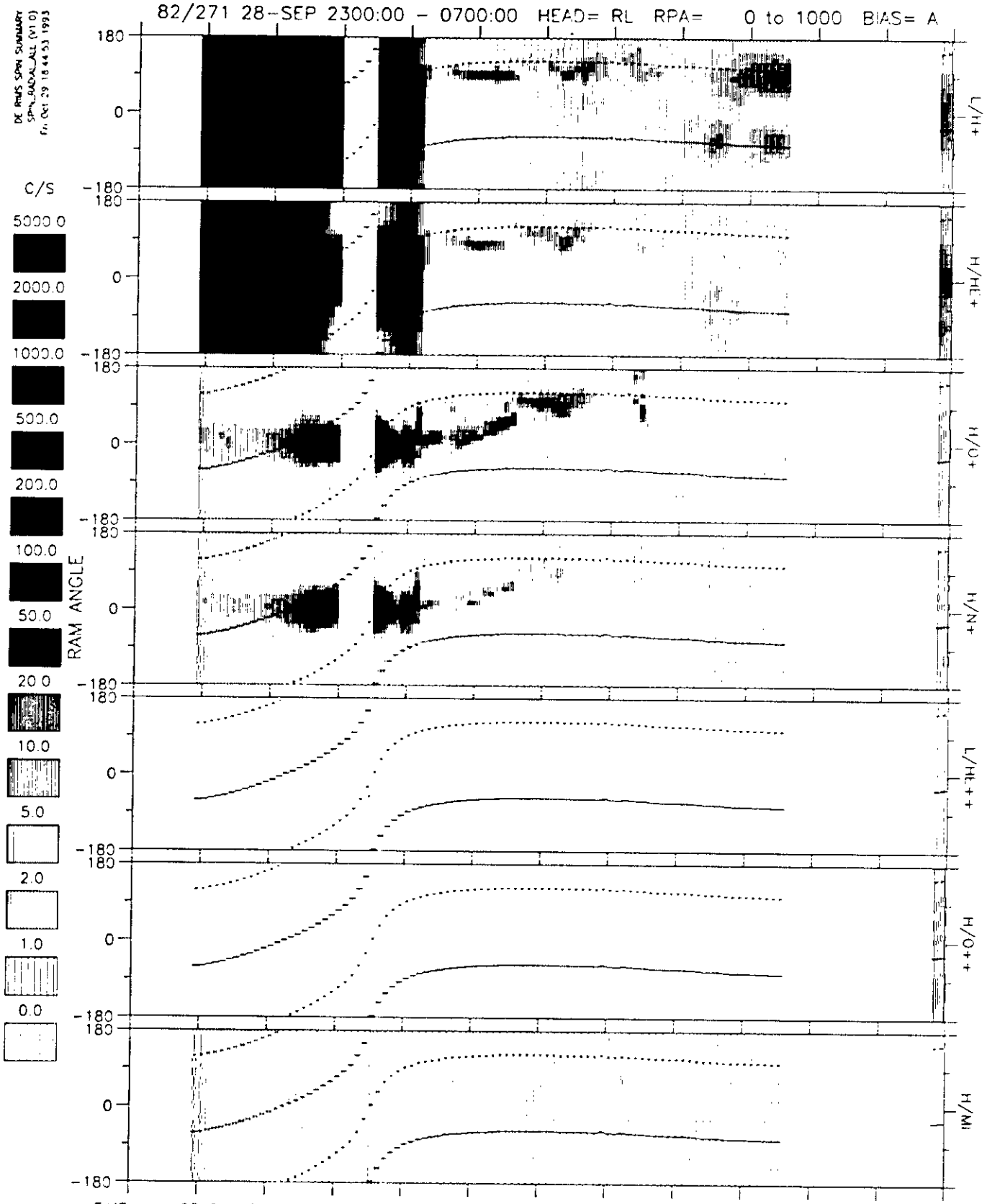
TIME	0000	0000	0000	0000	0000	2330	0010	0050	0130	0210	0250	HHMM
RE	0.0	0.0	0.0	0.0	0.0	3.8	4.4	4.6	4.6	4.4	3.8	RE
L	0.0	0.0	0.0	0.0	0.0	47.7	21.1	12.9	8.8	6.1	4.2	
MLT	0.0	0.0	0.0	0.0	0.0	12.4	11.3	10.9	10.6	10.5	10.4	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	81.7	77.4	73.8	70.2	66.1	60.9	DEGS



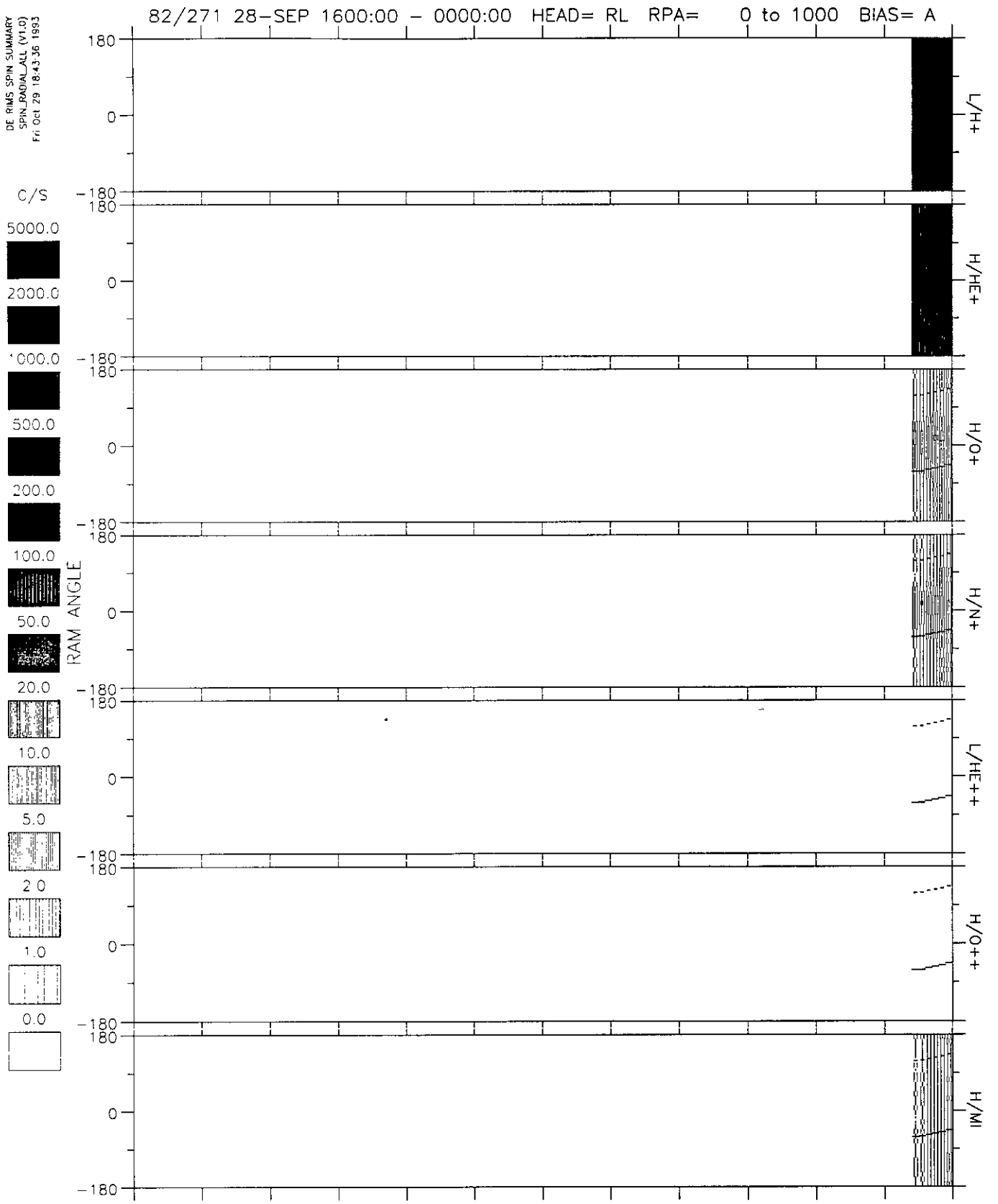
TIME	0000	0000	1115	1150	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	0.0	0.0	1.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	43.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	19.4	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	76.92	*****	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	81.1	63.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

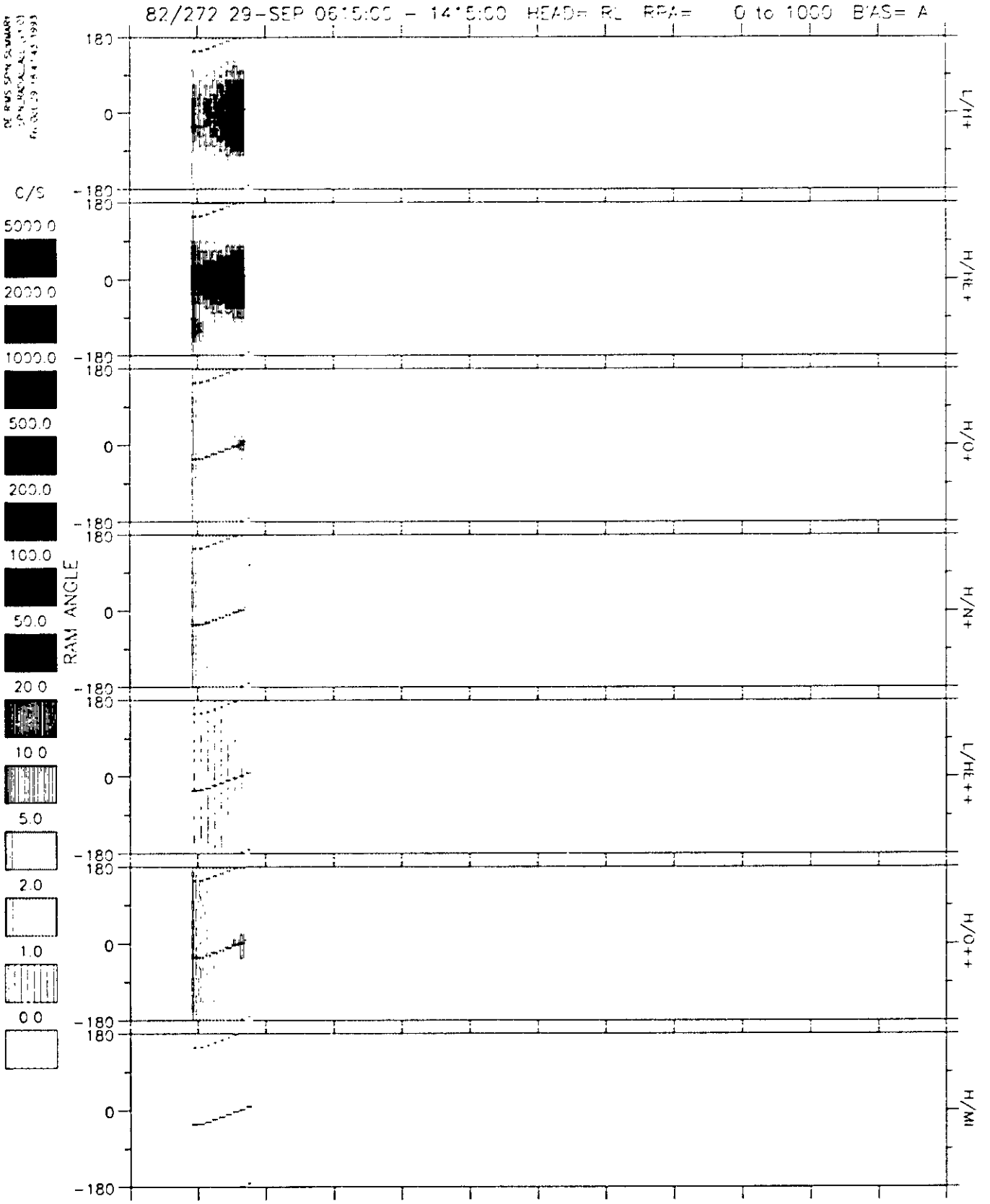


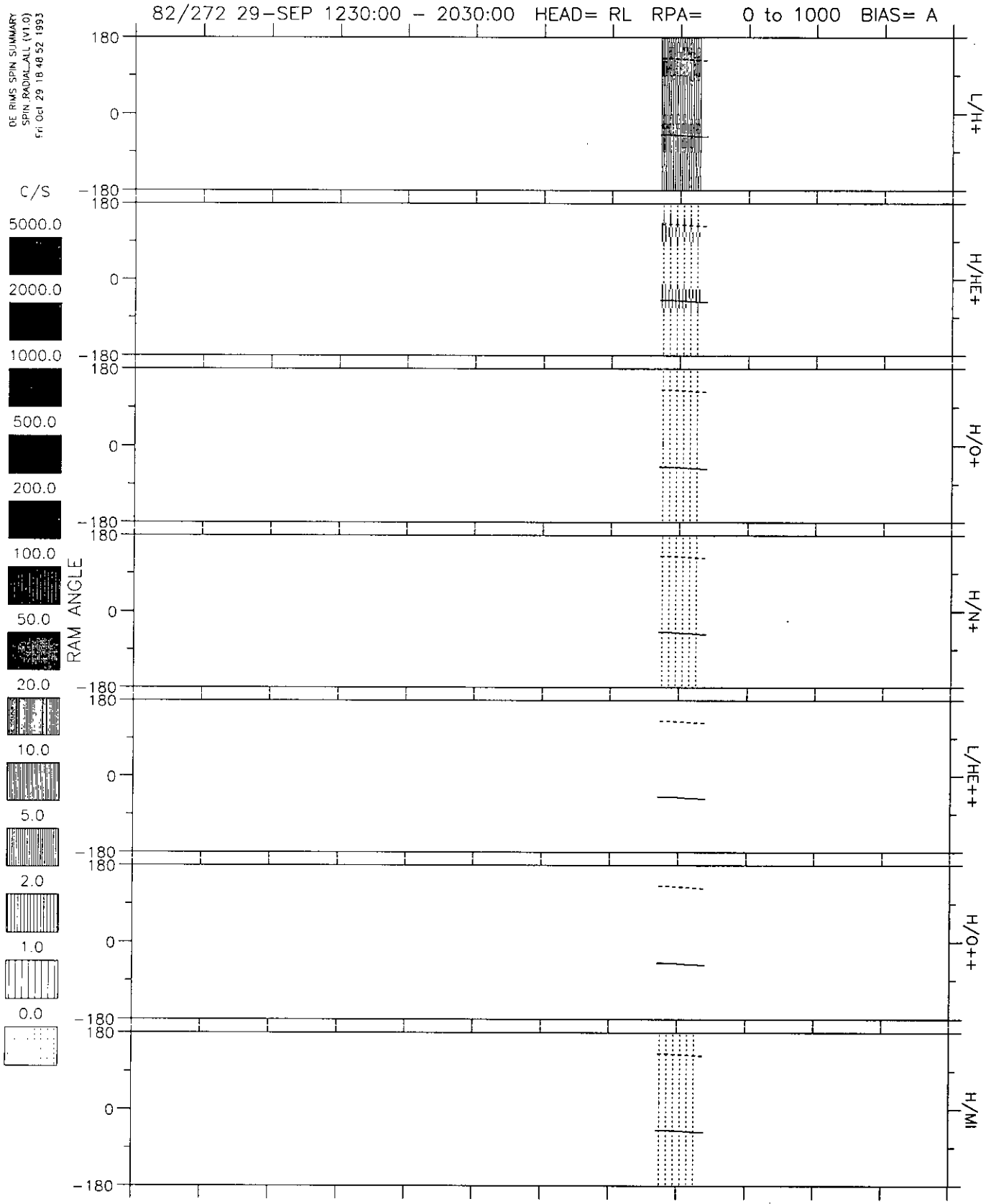
TIME	0310	0350	0000	0000	0550	0630	0710	0750	0000	0000	0000	HHMM
RE	3.4	2.4	0.0	0.0	3.2	4.0	4.5	4.6	0.0	0.0	0.0	RE
L	3.5	2.6	0.0	0.0	100.0	31.1	14.1	9.3	0.0	0.0	0.0	
MLT	10.4	10.5	0.0	0.0	4.5	8.8	9.5	9.8	0.0	0.0	0.0	HRS
MLAT	*****	16.11	0.00	0.00	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	57.6	51.4	0.0	0.0	84.9	79.7	74.5	70.9	0.0	0.0	0.0	DEGS



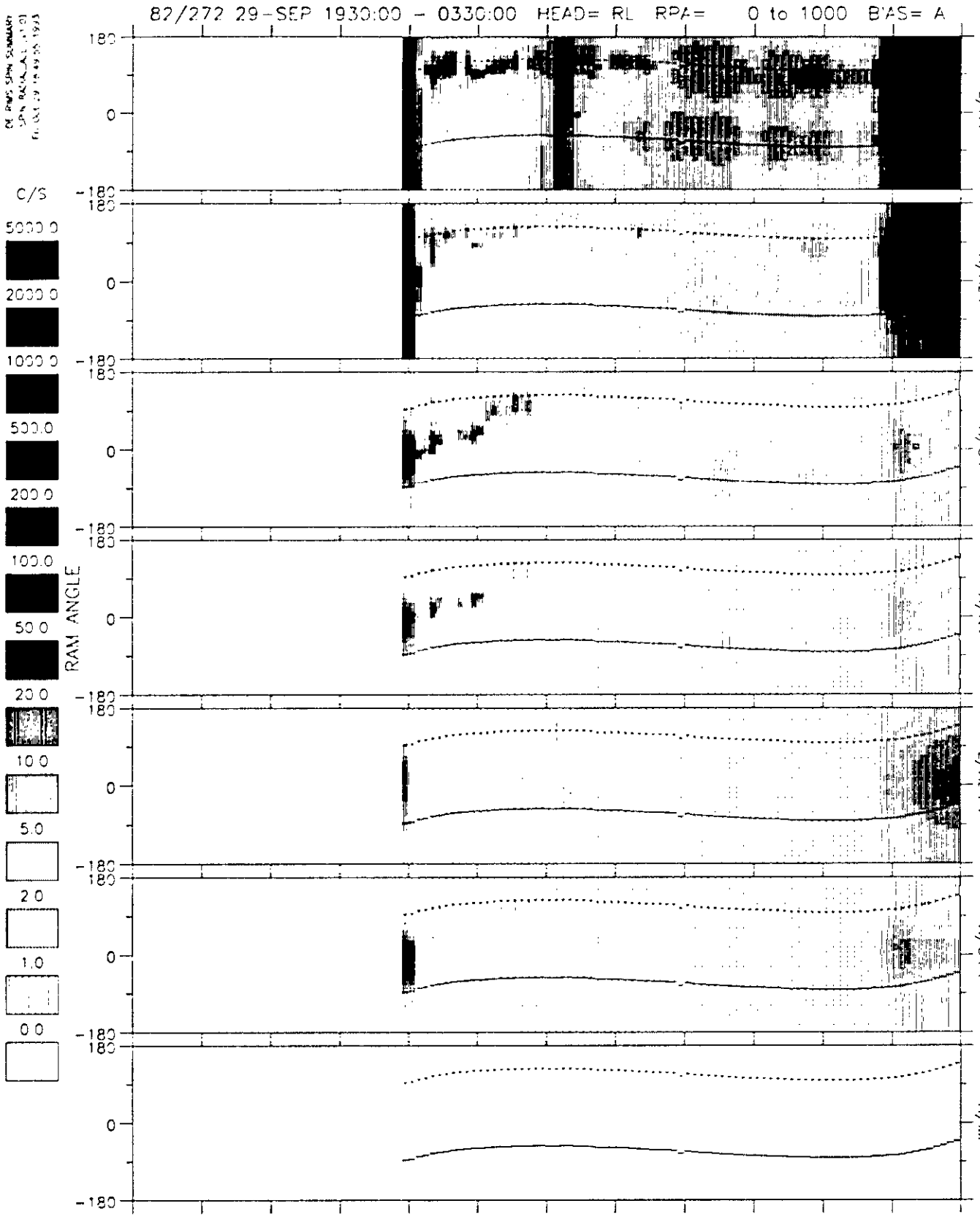
TIME	2340	0020	0100	0140	0220	0300	0340	0420	0500	0000	0000	HHMM
RE	3.5	2.4	1.2	2.0	3.2	4.0	4.4	4.6	4.6	0.0	0.0	RE
L	3.5	2.6	24.0	4.6	100.0	81.4	22.7	12.3	7.9	0.0	0.0	
MLT	10.4	10.2	0.5	22.1	21.4	10.1	10.0	10.0	10.1	0.0	0.0	HRS
MLAT	-8.79	15.68	80.39	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	57.8	51.5	78.0	62.2	87.3	83.6	77.9	73.4	69.2	0.0	0.0	DEGS


82/271 28-SEP 1600:00 - 0000:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Fri Oct 29 18:43:36 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 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

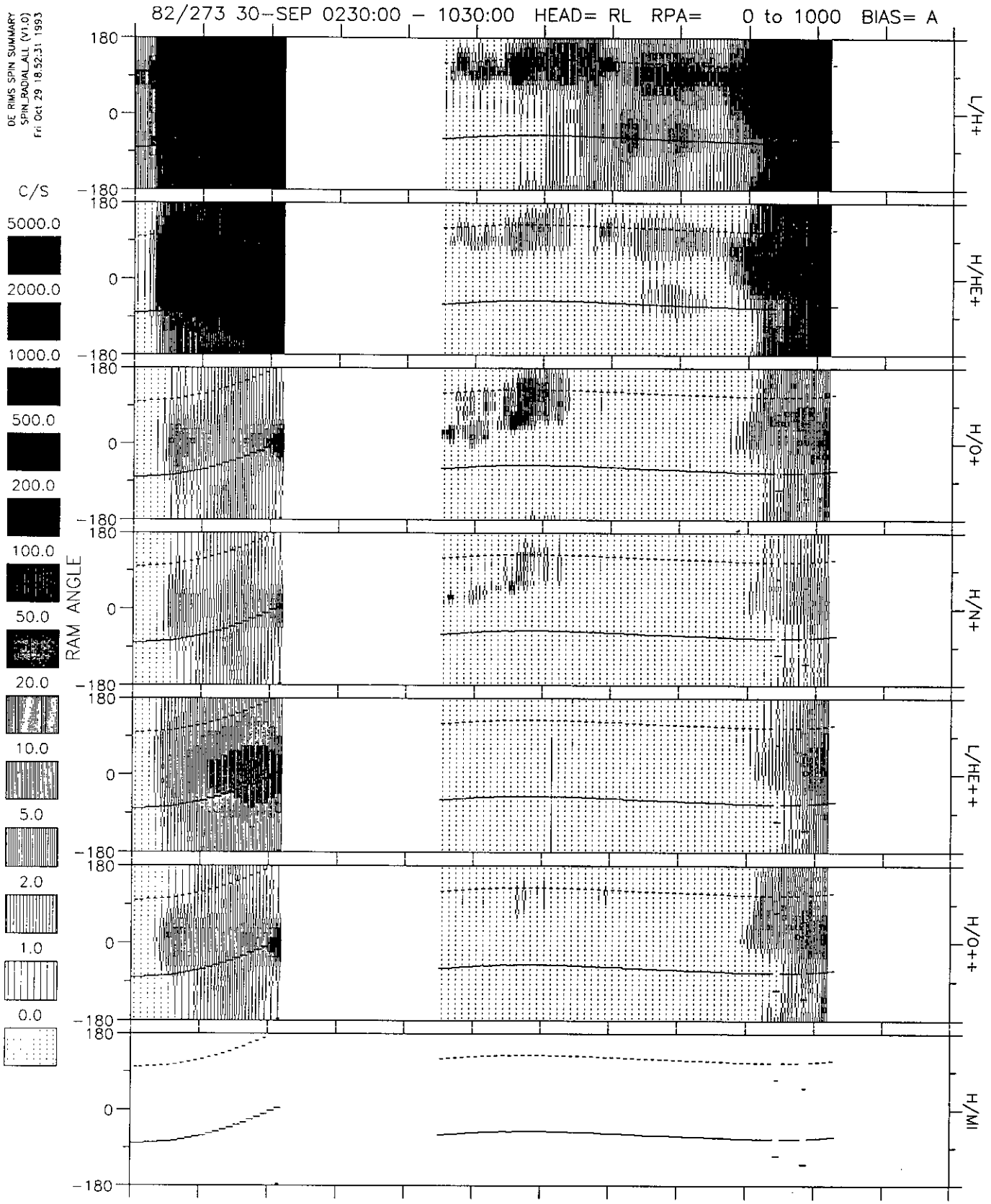

82/272 29-SEP 06:15:00 - 14:15:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M
TIME 0655 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 HHMM
RE 2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 RE
L 2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
MLT 10.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 HRS
MLAT 6.74 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 DEGS
INVLAT 54.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 DEGS



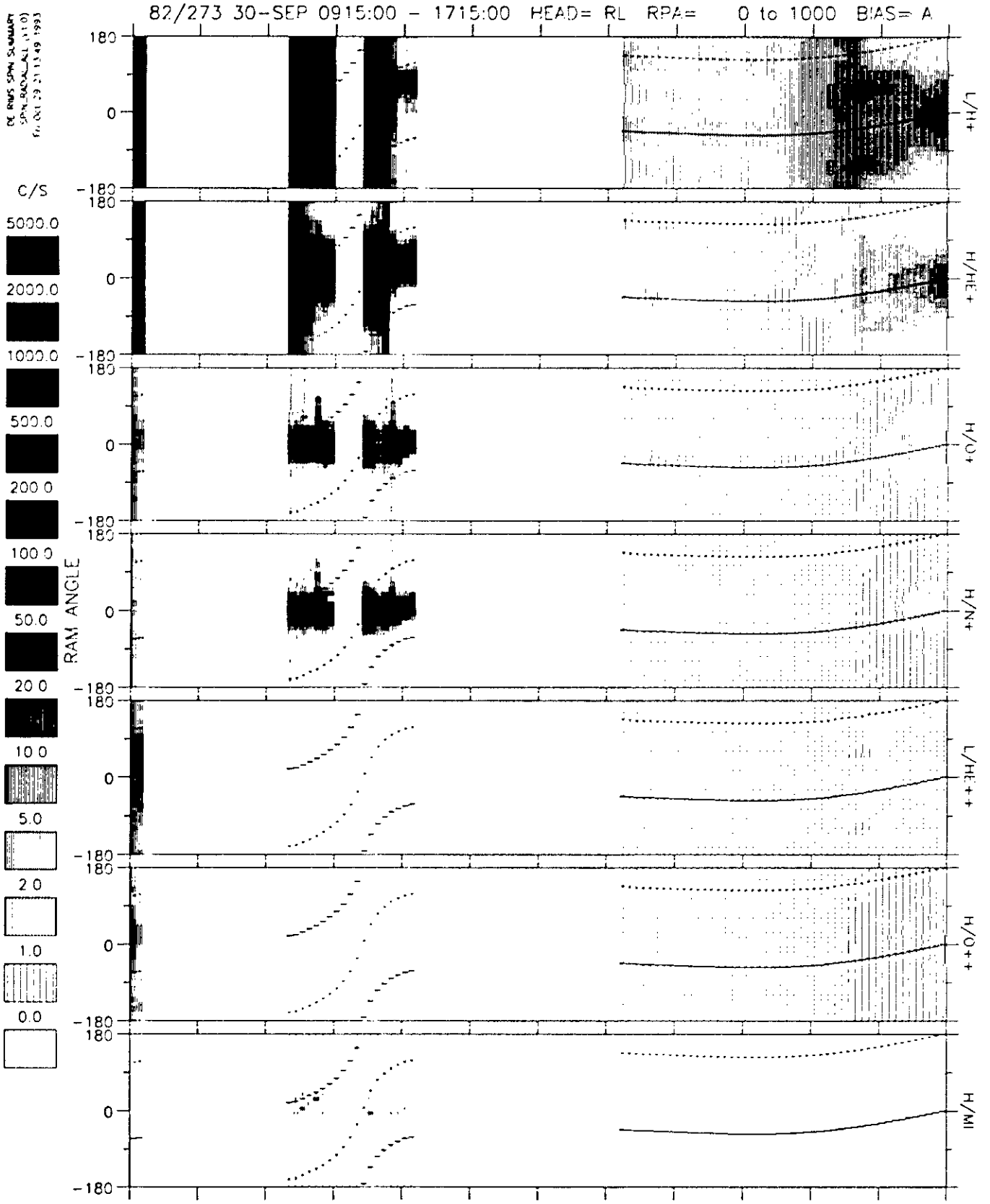
TIME	0000	0000	0000	0000	0000	0000	0000	1750	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.0	0.0	0.0	0.0	DEGS



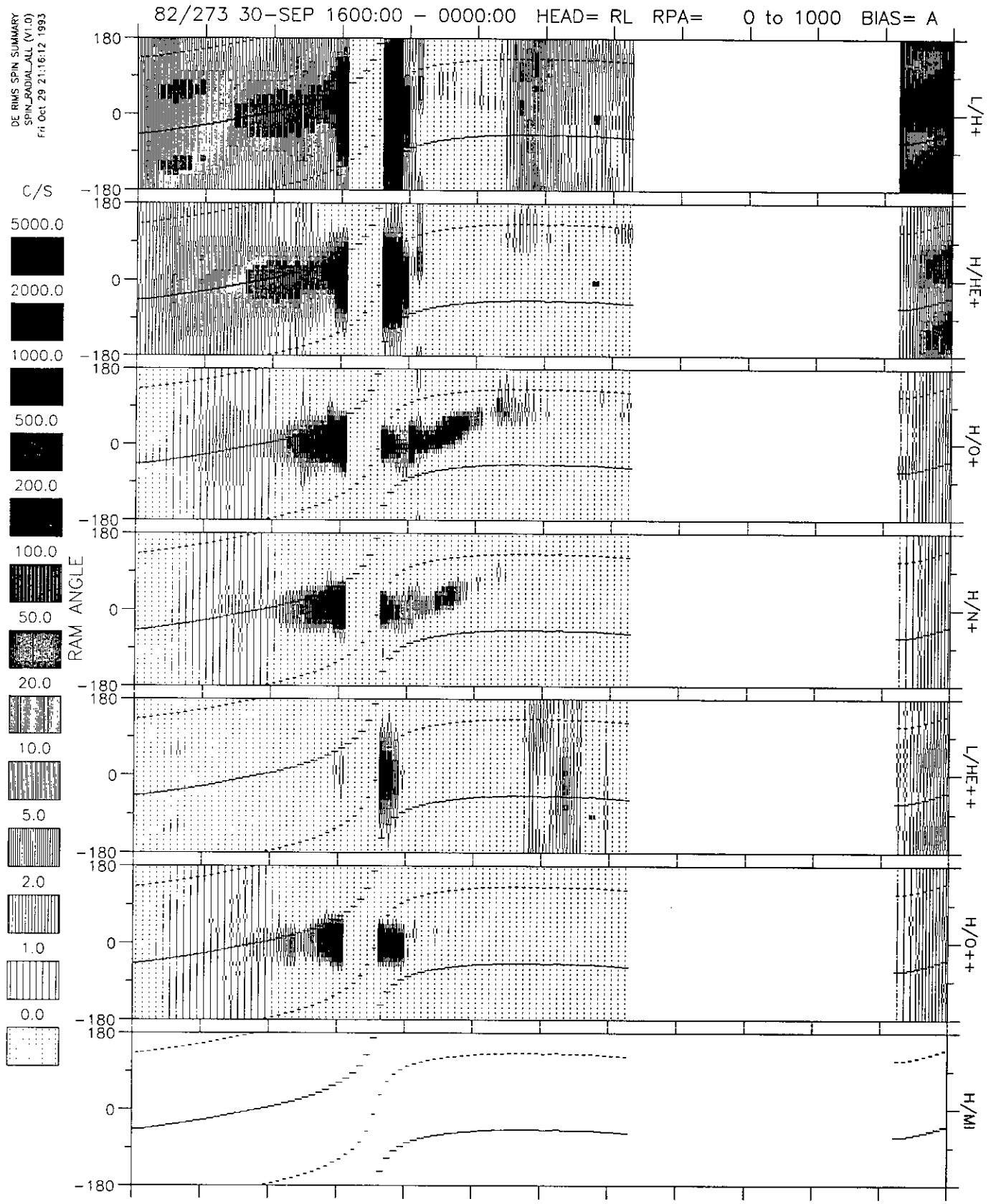
TIME	0000	0000	0000	2210	2250	2330	0010	0050	0130	0210	0250	HHMM
RE	0.0	0.0	0.0	1.9	3.1	3.9	4.4	4.6	4.6	4.3	3.7	RE
L	0.0	0.0	0.0	5.3	97.6	44.8	20.5	12.6	8.5	5.9	4.0	
MLT	0.0	0.0	0.0	21.4	16.6	12.1	11.1	10.7	10.5	10.3	10.3	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	64.2	84.2	81.4	77.2	73.7	70.0	65.7	60.2	DEGS



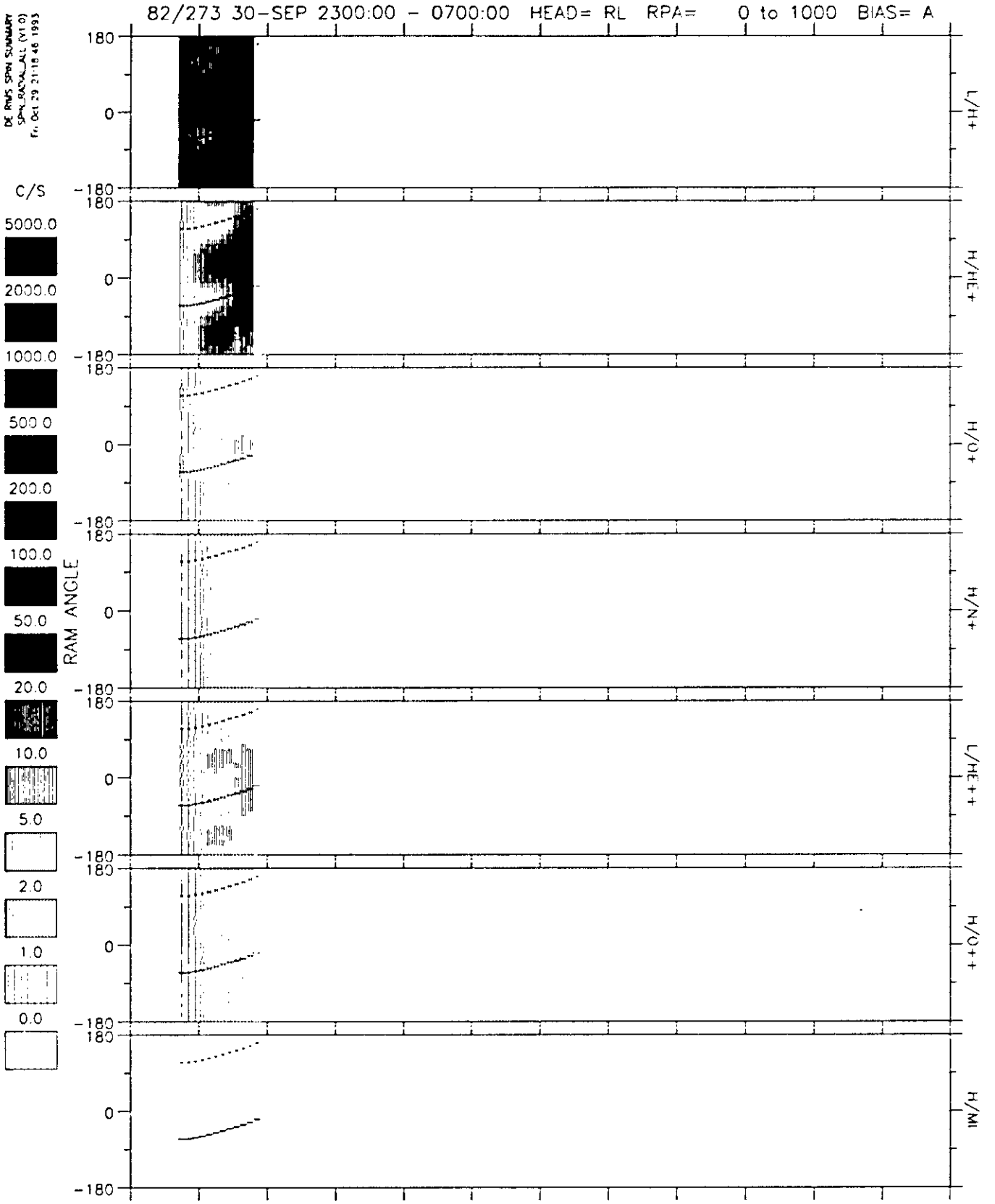
TIME	0310	0350	0000	0000	0550	0630	0710	0750	0830	0910	0000	HHMM
RE	3.3	2.2	0.0	0.0	3.3	4.1	4.5	4.7	4.6	4.2	0.0	RE
L	3.3	2.6	0.0	0.0	100.0	28.0	13.4	8.7	6.3	4.7	0.0	
MLT	10.3	10.4	0.0	0.0	5.5	8.8	9.4	9.7	9.9	10.1	0.0	HRS
MLAT	-9.24	21.25	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	56.7	51.3	0.0	0.0	84.8	79.1	74.2	70.2	66.5	62.6	0.0	DEGS



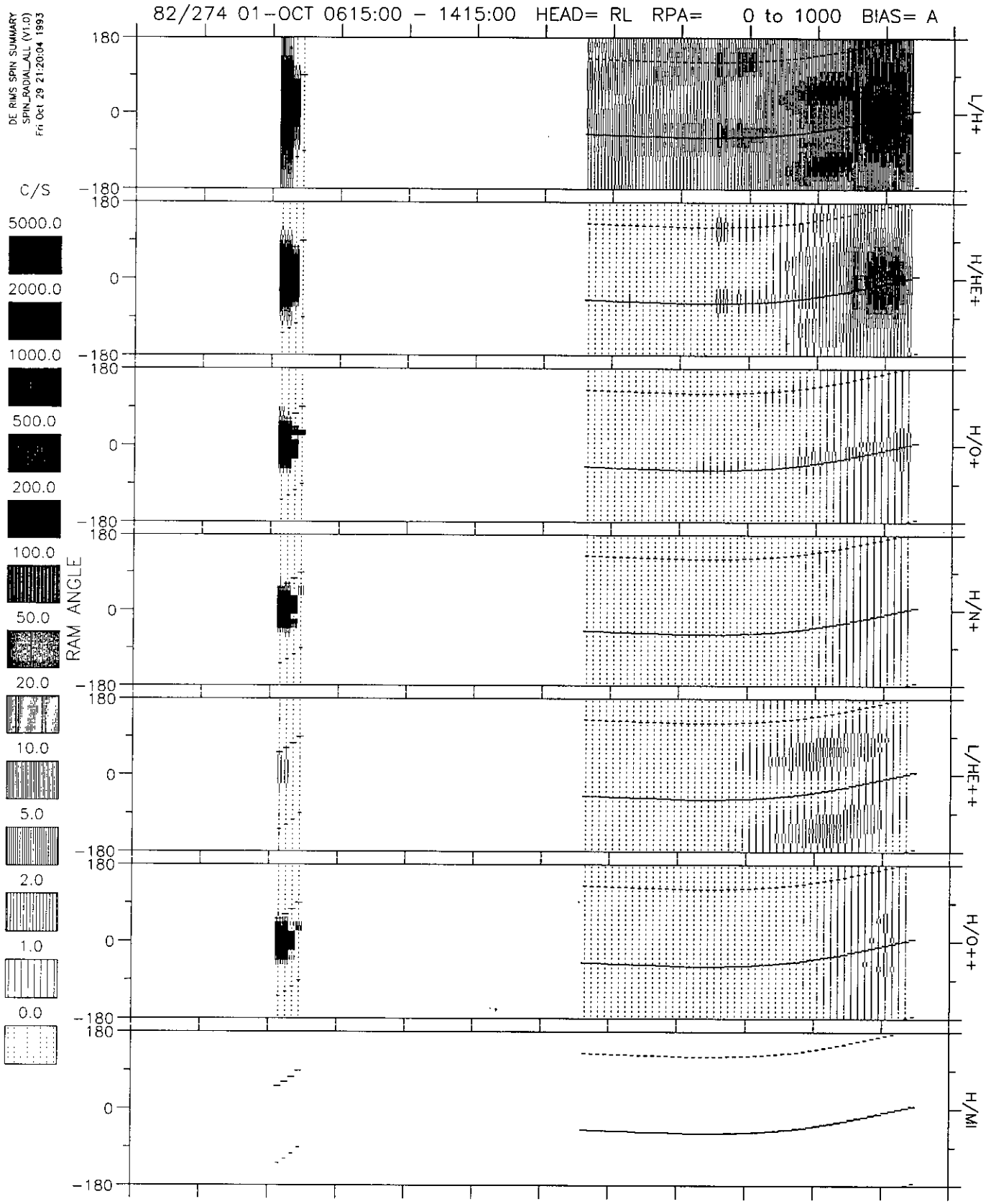
TIME	0000	0000	1115	1155	0000	0000	0000	1435	1515	1555	1635	HHMM
RE	0.0	0.0	1.1	2.0	0.0	0.0	0.0	4.7	4.6	4.3	3.7	RE
L	0.0	0.0	4.0	22.2	0.0	0.0	0.0	6.3	5.2	4.4	3.7	
MLT	0.0	0.0	21.4	23.8	0.0	0.0	0.0	10.3	10.3	10.3	10.3	HRS
MLAT	0.00	0.00	56.48	•••••	0.00	0.00	0.00	•••••	•••••	-8.99	4.46	DEGS
INVLAT	0.0	0.0	60.1	77.7	0.0	0.0	0.0	66.5	64.1	61.6	58.8	DEGS



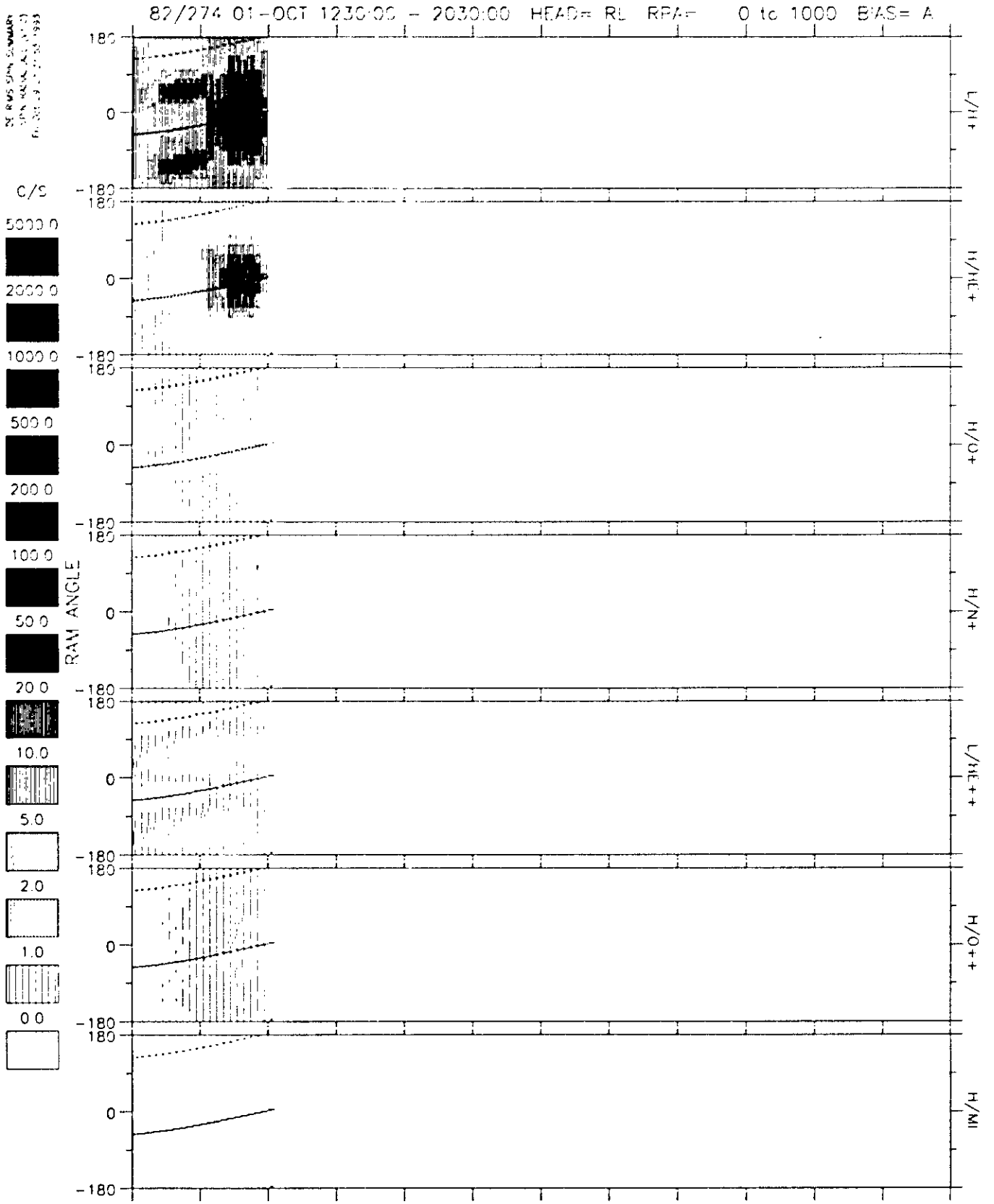
TIME	1640	1720	1800	1840	1920	2000	2040	0000	0000	0000	0000	HHMM
RE	3.6	2.6	1.2	1.8	3.1	3.9	4.4	0.0	0.0	0.0	0.0	RE
L	3.6	3.4	41.5	7.1	52.1	19.2	12.3	0.0	0.0	0.0	0.0	
MLT	10.3	10.1	1.1	21.2	13.9	11.8	11.3	0.0	0.0	0.0	0.0	HRS
MLAT	6.52	29.44	77.08	*****	*****	*****	*****	0.00	0.00	0.00	0.00	DEGS
INVLAT	58.4	57.1	81.0	67.9	82.0	76.8	73.4	0.0	0.0	0.0	0.0	DEGS



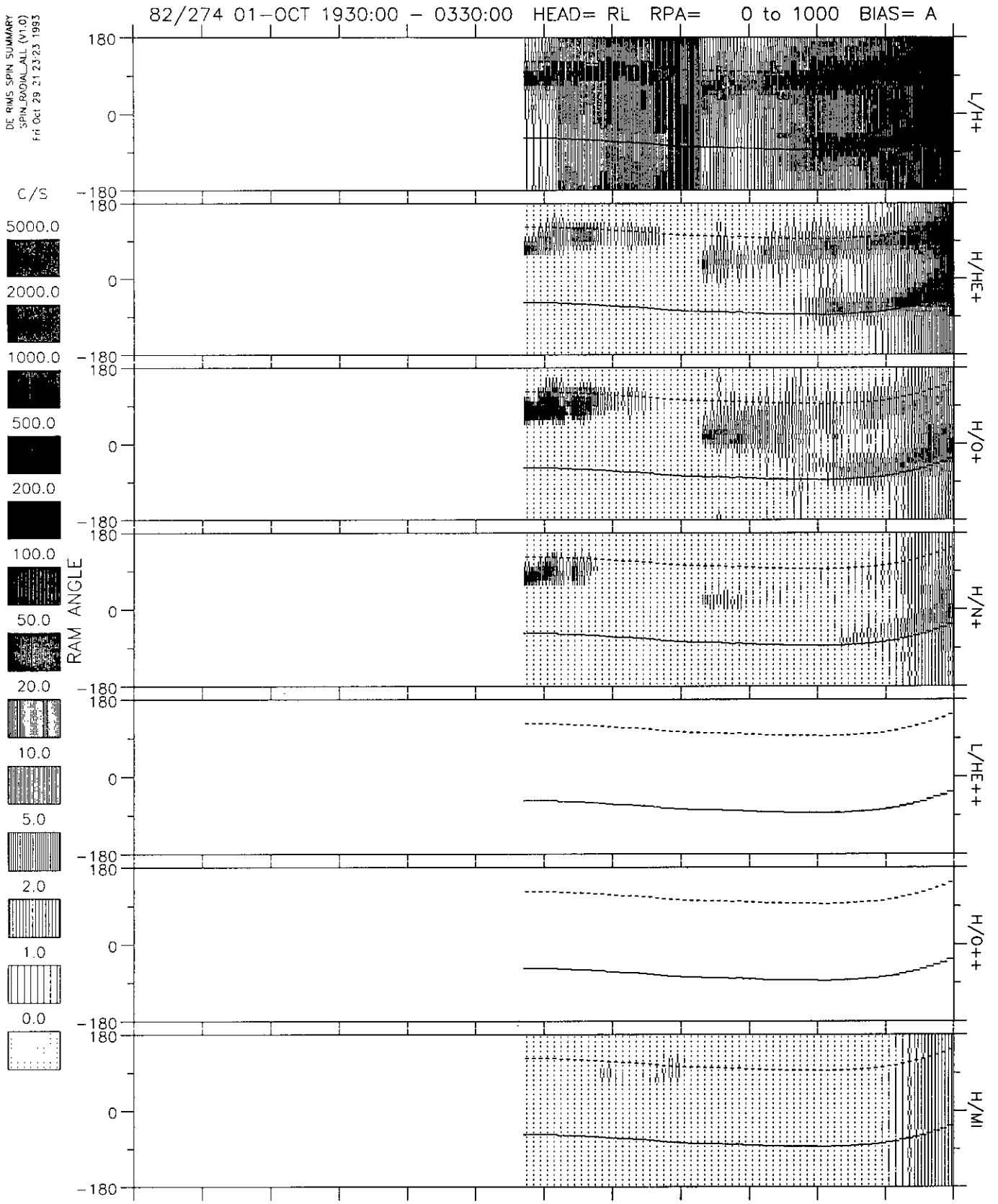
TIME	2340	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	-7.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	56.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



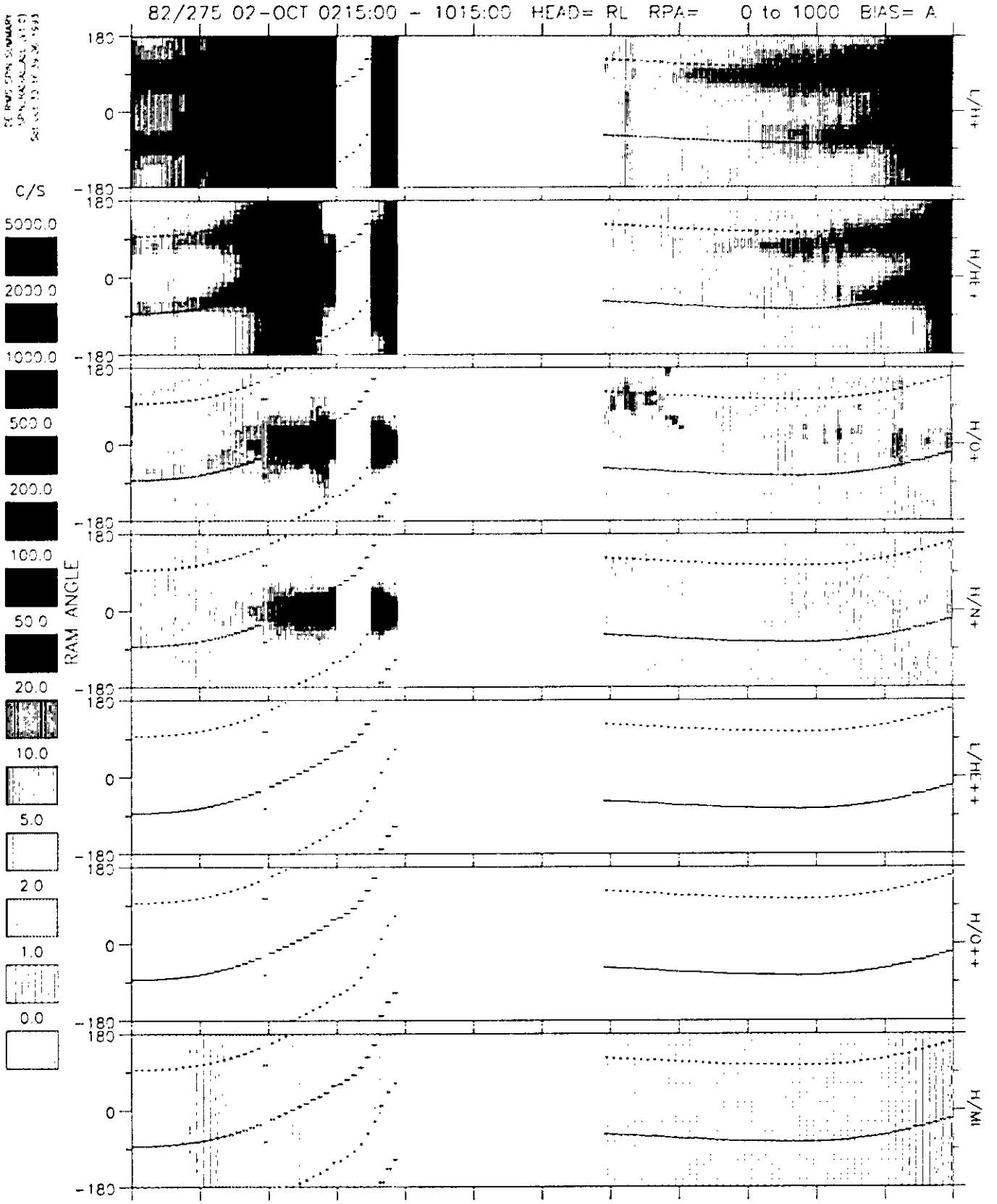
TIME	0000	0000	0000	0000	0000	0000	1055	1135	1215	1255	1335	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	4.4	3.9	3.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	7.7	6.0	4.8	4.0	3.4	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	9.7	9.9	10.1	10.2	10.3	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-0.37	19.15	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	68.9	65.8	62.9	59.8	57.4	DEGS



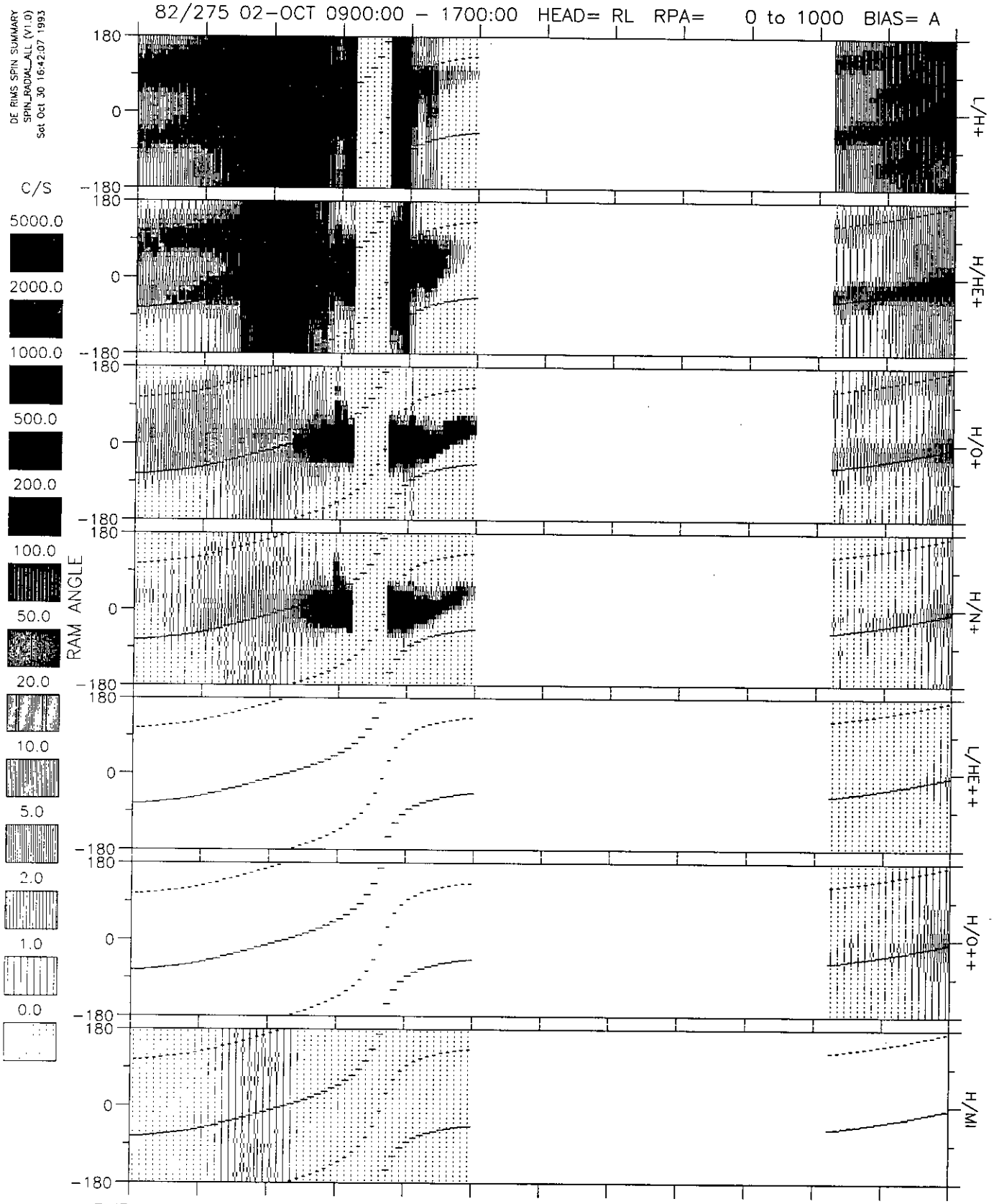
TIME	1310	1350	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	3.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	3.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	10.2	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	5.98	28.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	58.7	57.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



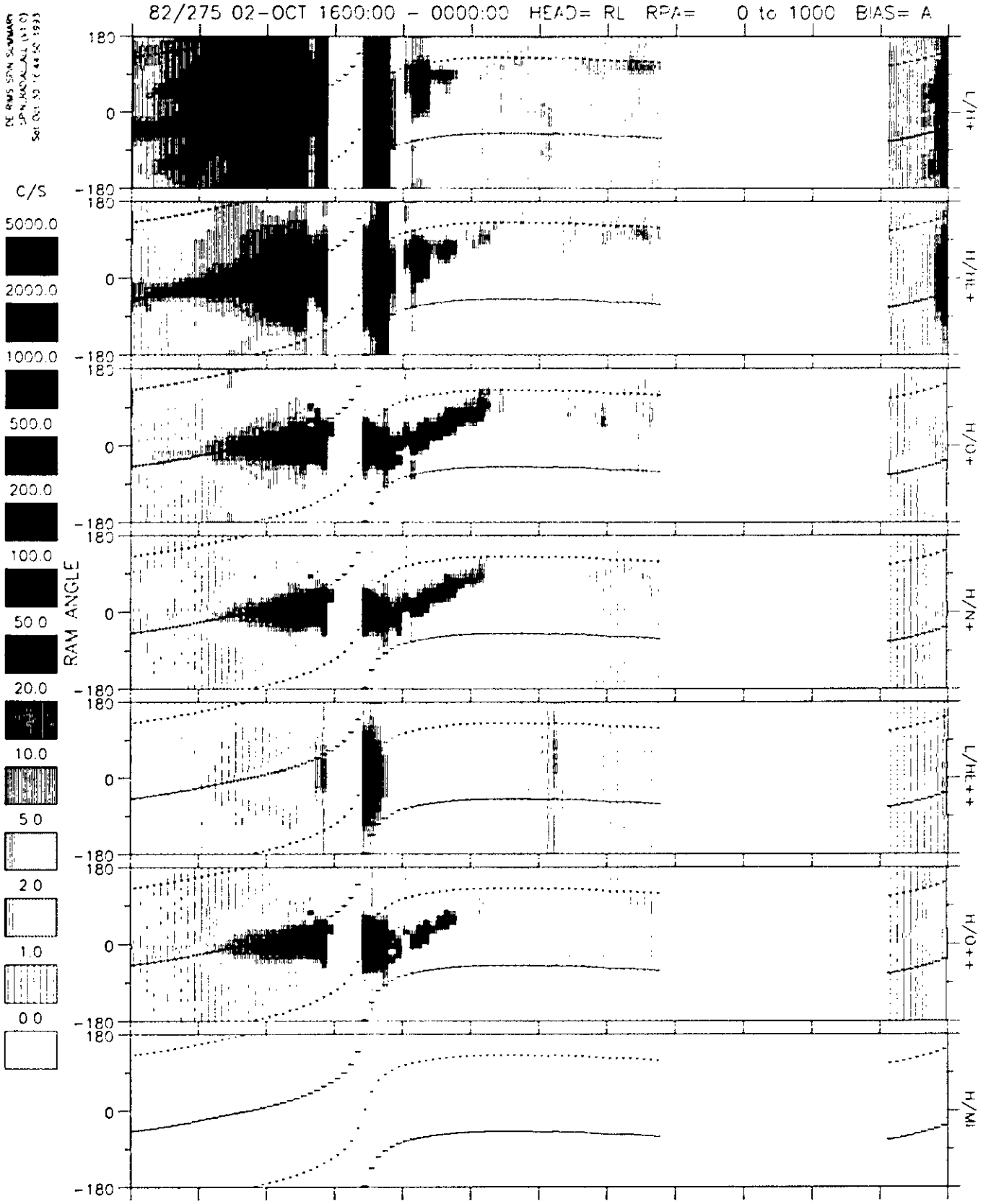
TIME	0000	0000	0000	0000	0000	2330	0010	0050	0130	0210	0250	HHMM
RE	0.0	0.0	0.0	0.0	0.0	4.0	4.5	4.7	4.6	4.3	3.6	RE
L	0.0	0.0	0.0	0.0	0.0	42.2	19.9	12.3	8.3	5.7	3.9	
MLT	0.0	0.0	0.0	0.0	0.0	11.8	10.9	10.5	10.3	10.2	10.1	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	81.1	77.1	73.4	69.7	65.2	59.4	DEGS



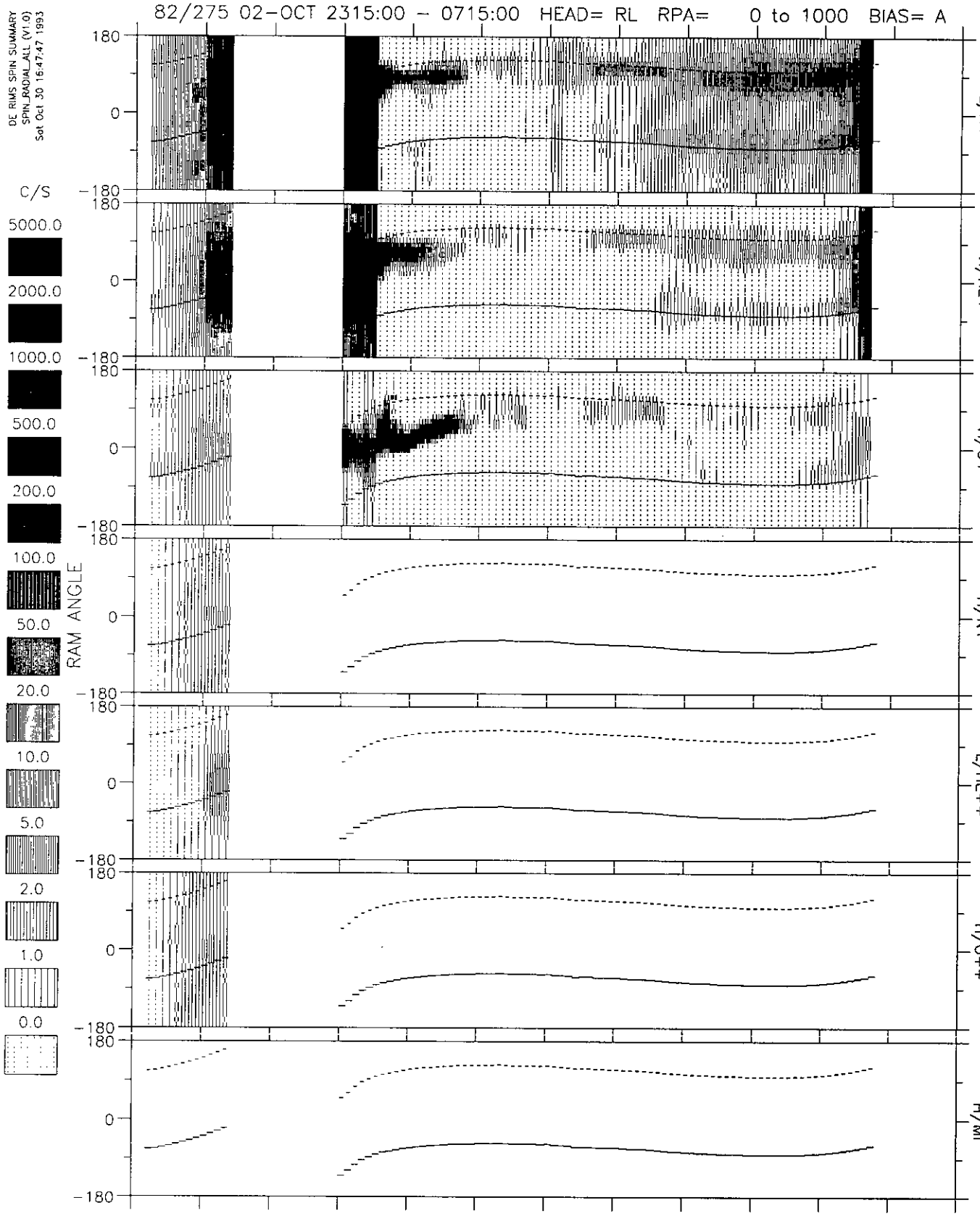
TIME	0255	0335	0415	0000	0000	0000	0655	0735	0815	0855	0935	HHMM
RE	3.5	2.5	1.2	0.0	0.0	0.0	4.4	4.6	4.6	4.3	3.7	RE
L	3.7	2.6	100.0	0.0	0.0	0.0	15.9	9.7	6.8	5.1	3.9	
MLT	10.1	10.2	14.4	0.0	0.0	0.0	9.1	9.5	9.8	10.0	10.2	HRS
MLAT	*****	10.66	84.51	0.00	0.00	0.00	*****	*****	*****	*****	-4.80	DEGS
INVLAT	58.6	51.4	87.5	0.0	0.0	0.0	75.5	71.3	67.5	63.7	59.4	DEGS



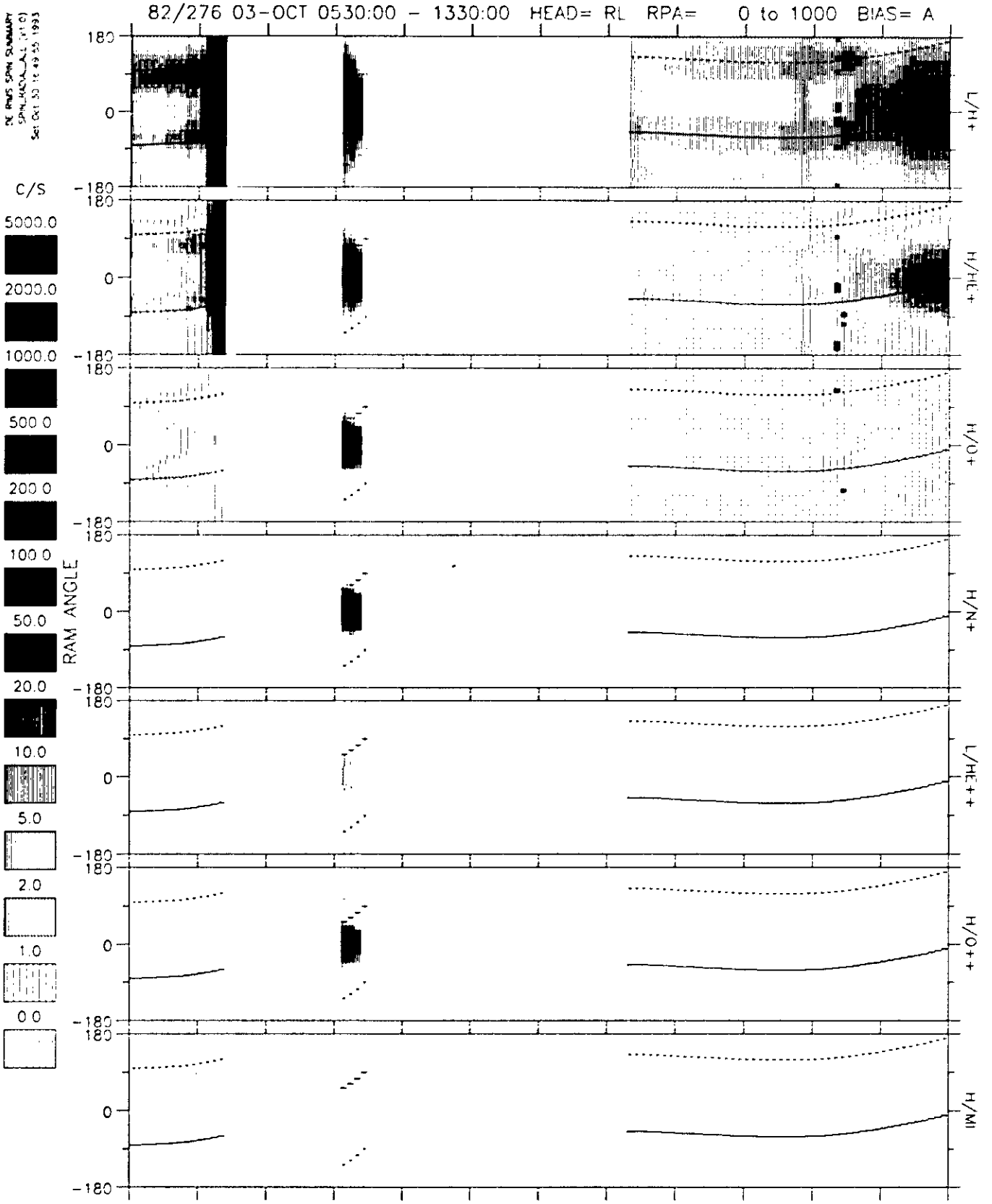
TIME	0940	1020	1100	1140	0000	0000	0000	0000	0000	0000	1620	HHMM
RE	3.6	2.7	1.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	3.8	RE
L	3.7	3.0	34.7	5.4	0.0	0.0	0.0	0.0	0.0	0.0	3.9	
MLT	10.2	10.5	14.4	22.9	0.0	0.0	0.0	0.0	0.0	0.0	10.2	HRS
MLAT	-2.50	21.65	79.49	*****	0.00	0.00	0.00	0.00	0.00	0.00	0.14	DEGS
INVLAT	58.9	54.9	80.2	64.5	0.0	0.0	0.0	0.0	0.0	0.0	59.4	DEGS



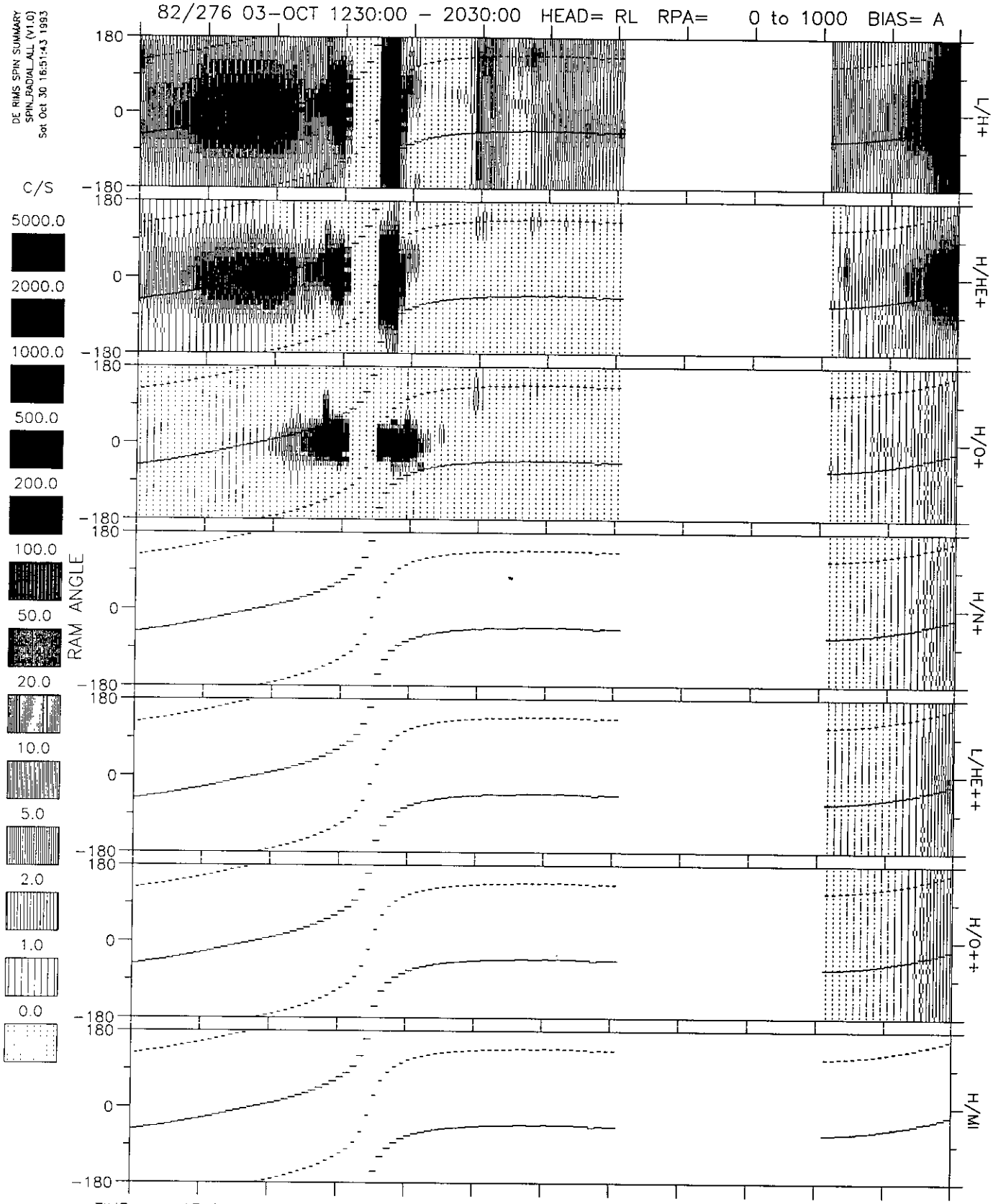
TIME	1640	1720	1800	1840	1920	2000	2040	0000	0000	0000	0000	HHMM
RE	3.5	2.4	1.1	2.0	3.2	4.0	4.4	0.0	0.0	0.0	0.0	RE
L	3.5	3.4	5.0	11.7	46.2	18.6	12.2	0.0	0.0	0.0	0.0	
MLT	10.1	9.9	23.2	20.7	13.3	11.7	11.2	0.0	0.0	0.0	0.0	HRS
MLAT	8.12	33.41	58.47	*****	*****	*****	*****	0.00	0.00	0.00	0.00	DEGS
INVLAT	58.0	57.4	63.4	73.0	81.5	76.6	73.4	0.0	0.0	0.0	0.0	DEGS



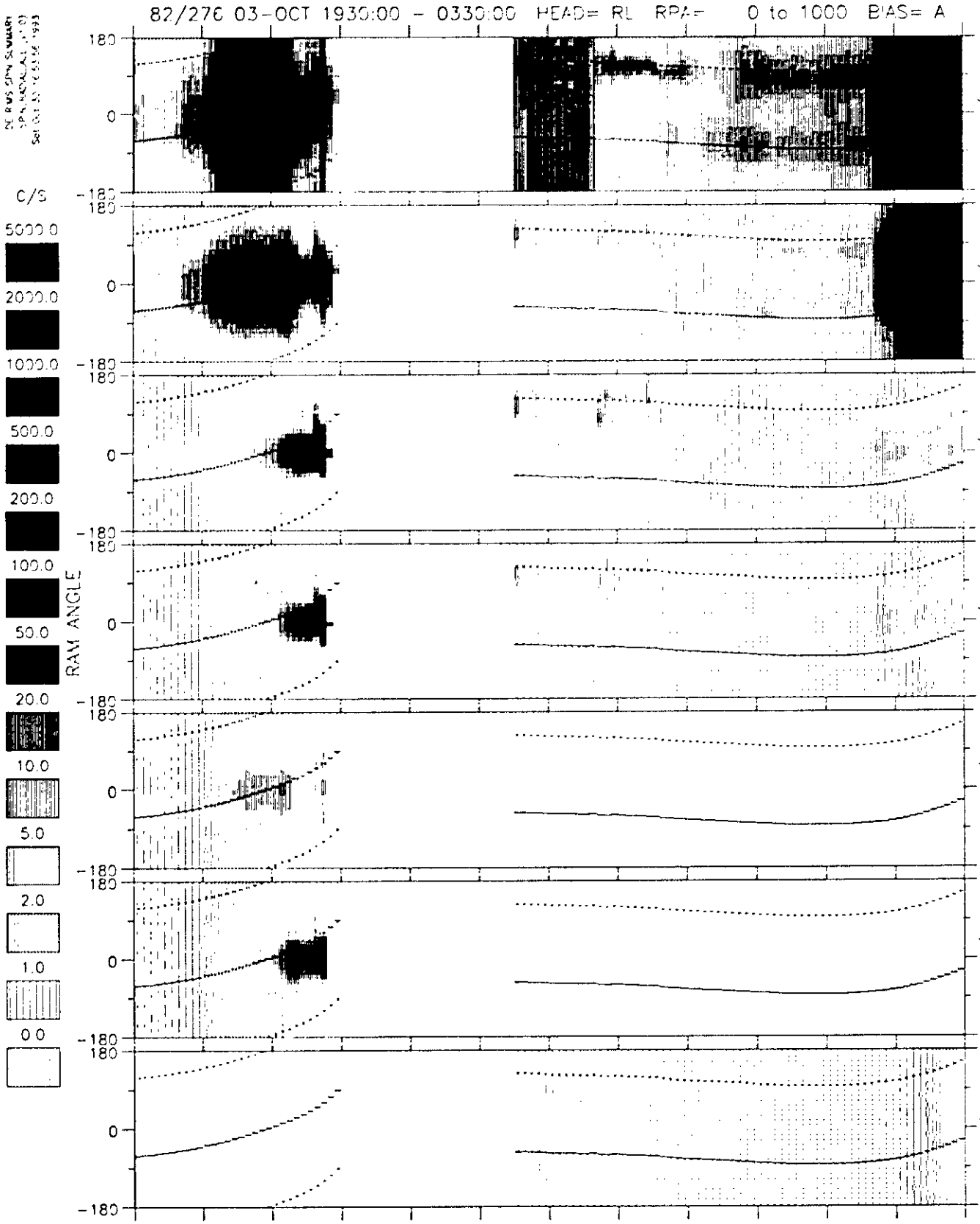
TIME	2355	0000	0115	0155	0235	0315	0355	0435	0515	0555	0000	HHMM
RE	2.9	0.0	1.5	2.8	3.7	4.3	4.6	4.7	4.4	3.9	0.0	RE
L	2.8	0.0	1.8	35.4	-0.0	35.2	15.8	9.9	6.4	4.5	0.0	
MLT	10.0	0.0	22.0	21.7	9.9	9.7	9.7	9.8	9.9	10.0	0.0	HRS
MLAT	3.24	0.00	*****	*****	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	53.3	0.0	41.0	80.3	-0.0	80.3	75.4	71.5	66.8	61.7	0.0	DEGS



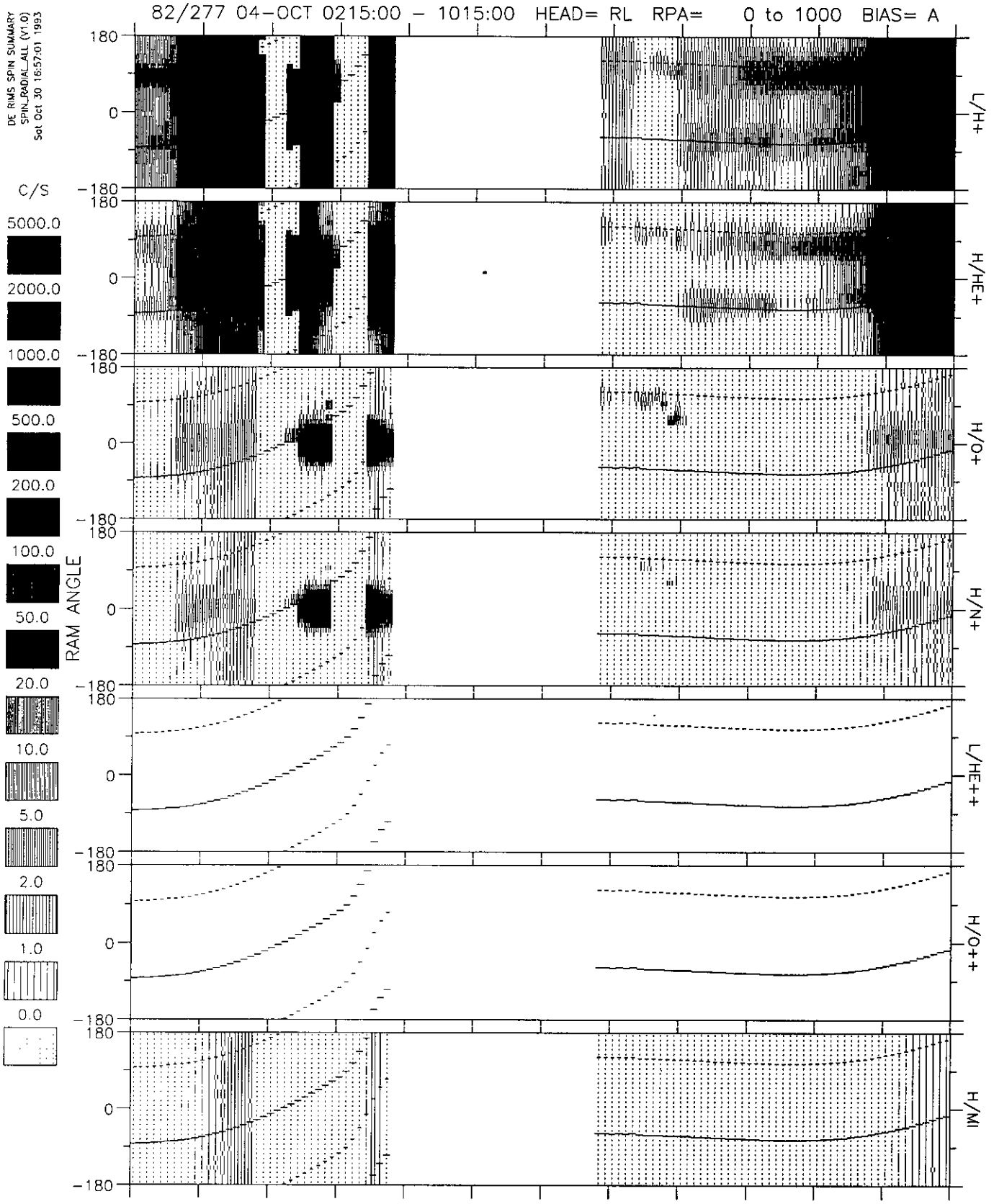
TIME	0610	0000	0000	0000	0000	0000	0000	1050	1130	1210	1250	HHMM
RE	3.7	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	4.4	3.9	RE
L	3.9	0.0	0.0	0.0	0.0	0.0	0.0	7.8	6.0	4.9	4.0	
MLT	10.1	0.0	0.0	0.0	0.0	0.0	0.0	9.6	9.8	10.0	10.1	HRS
MLAT	•••••	0.00	0.00	0.00	0.00	0.00	0.00	•••••	•••••	•••••	-0.81	DEGS
INVLAT	59.6	0.0	0.0	0.0	0.0	0.0	0.0	69.0	65.9	63.1	59.8	DEGS



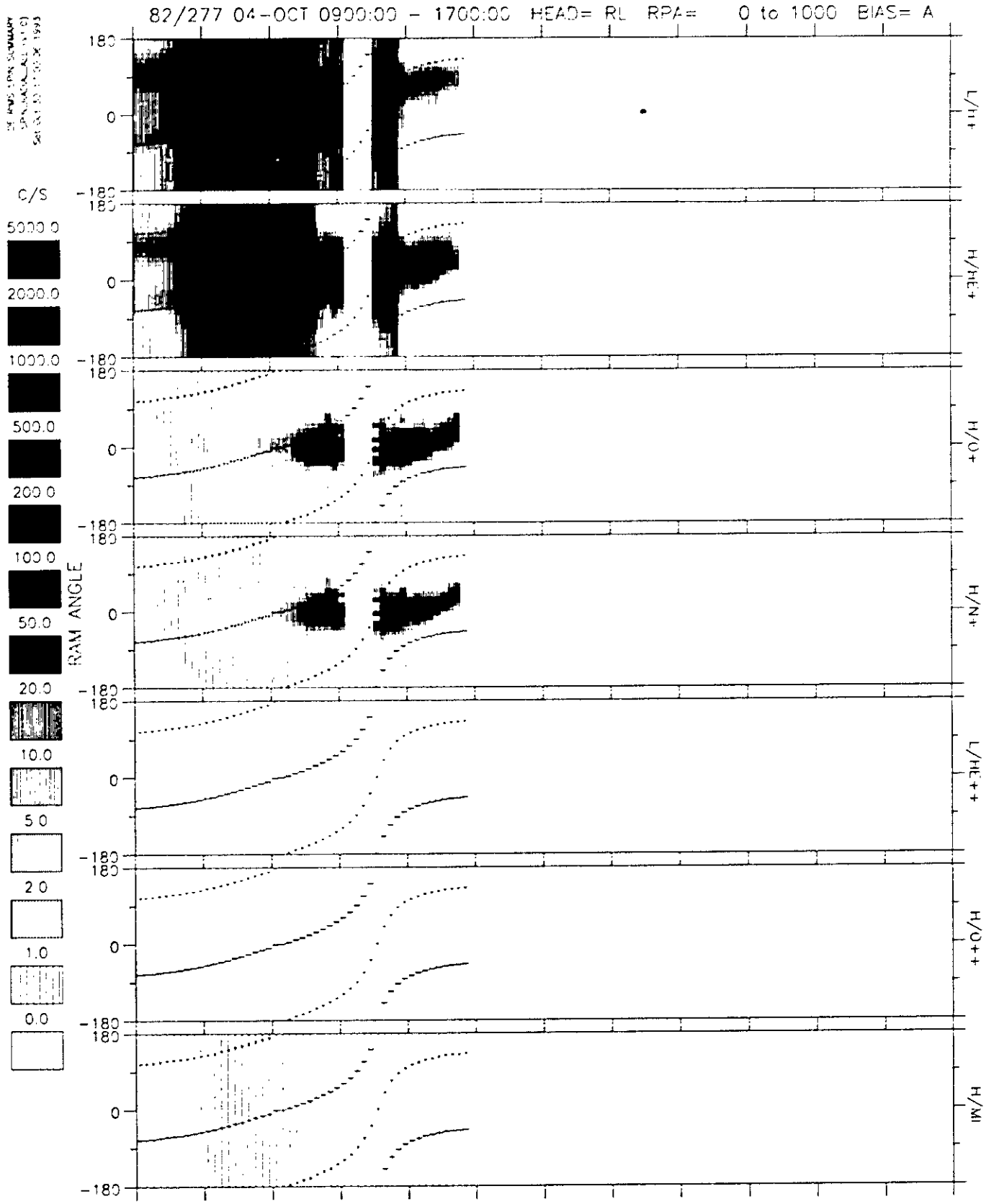
TIME	1310	1350	1430	1510	1550	1630	1710	0000	0000	0000	1950	HHMM
RE	3.5	2.5	1.2	1.9	3.1	3.9	4.4	0.0	0.0	0.0	3.7	RE
L	3.6	3.6	9.1	18.2	36.7	12.9	9.0	0.0	0.0	0.0	3.7	
MLT	10.1	10.2	22.1	21.8	11.1	10.7	10.7	0.0	0.0	0.0	10.2	HRS
MLAT	7.86	34.03	64.64	*****	*****	*****	*****	0.00	0.00	0.00	-5.46	DEGS
INVLAT	58.3	58.2	70.5	76.4	80.5	73.8	70.5	0.0	0.0	0.0	58.8	DEGS

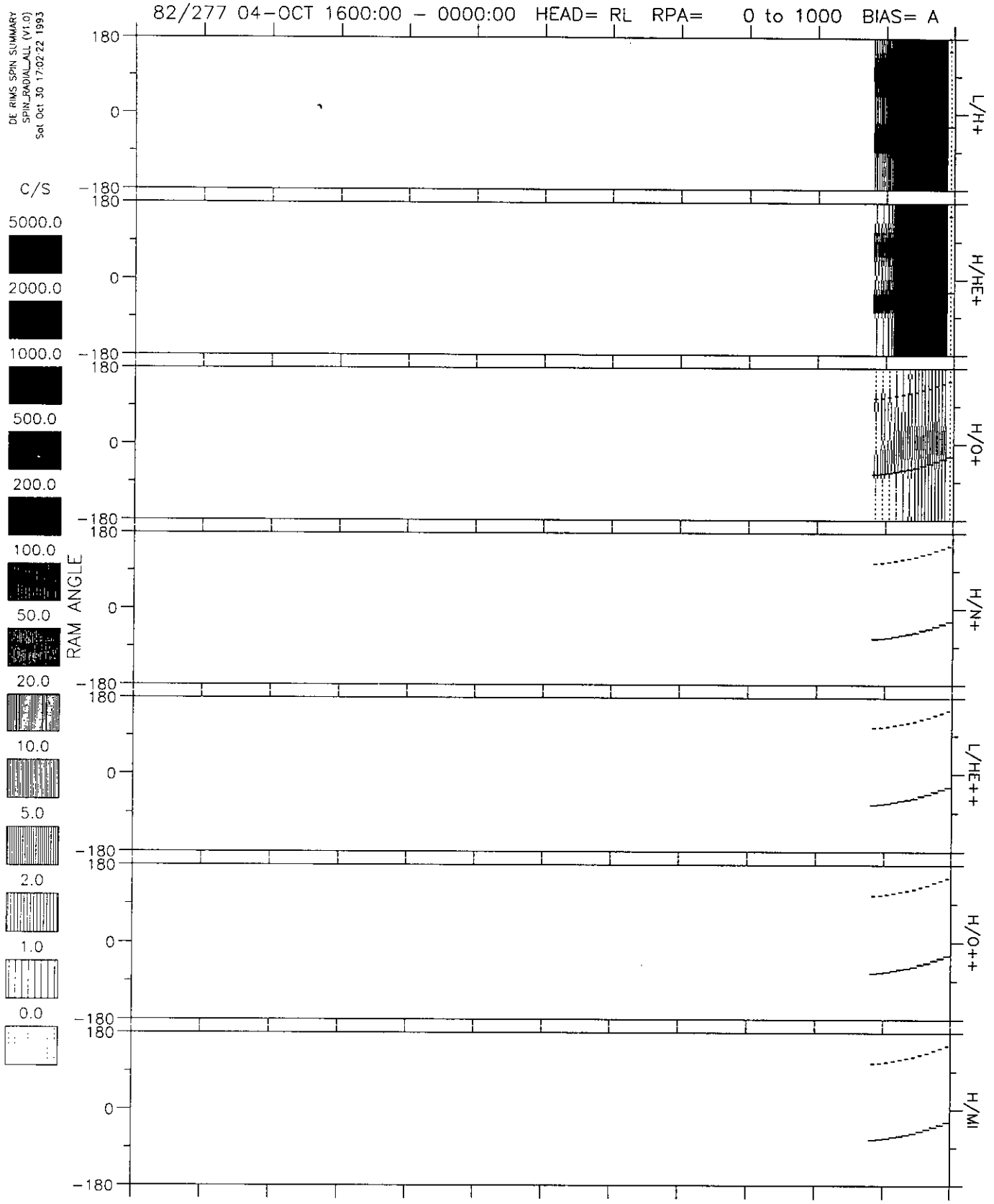


TIME	2010	2050	0000	0000	0000	2330	0010	0050	0130	0210	0250	HHMM
RE	3.3	2.2	0.0	0.0	0.0	4.1	4.5	4.7	4.6	4.2	3.5	RE
L	3.3	2.8	0.0	0.0	0.0	40.0	19.4	12.0	8.1	5.5	3.7	
MLT	10.1	9.7	0.0	0.0	0.0	11.6	10.8	10.4	10.2	10.1	10.0	HRS
MLAT	2.61	28.15	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	56.4	53.4	0.0	0.0	0.0	80.9	76.9	73.2	69.4	64.8	58.6	DEGS

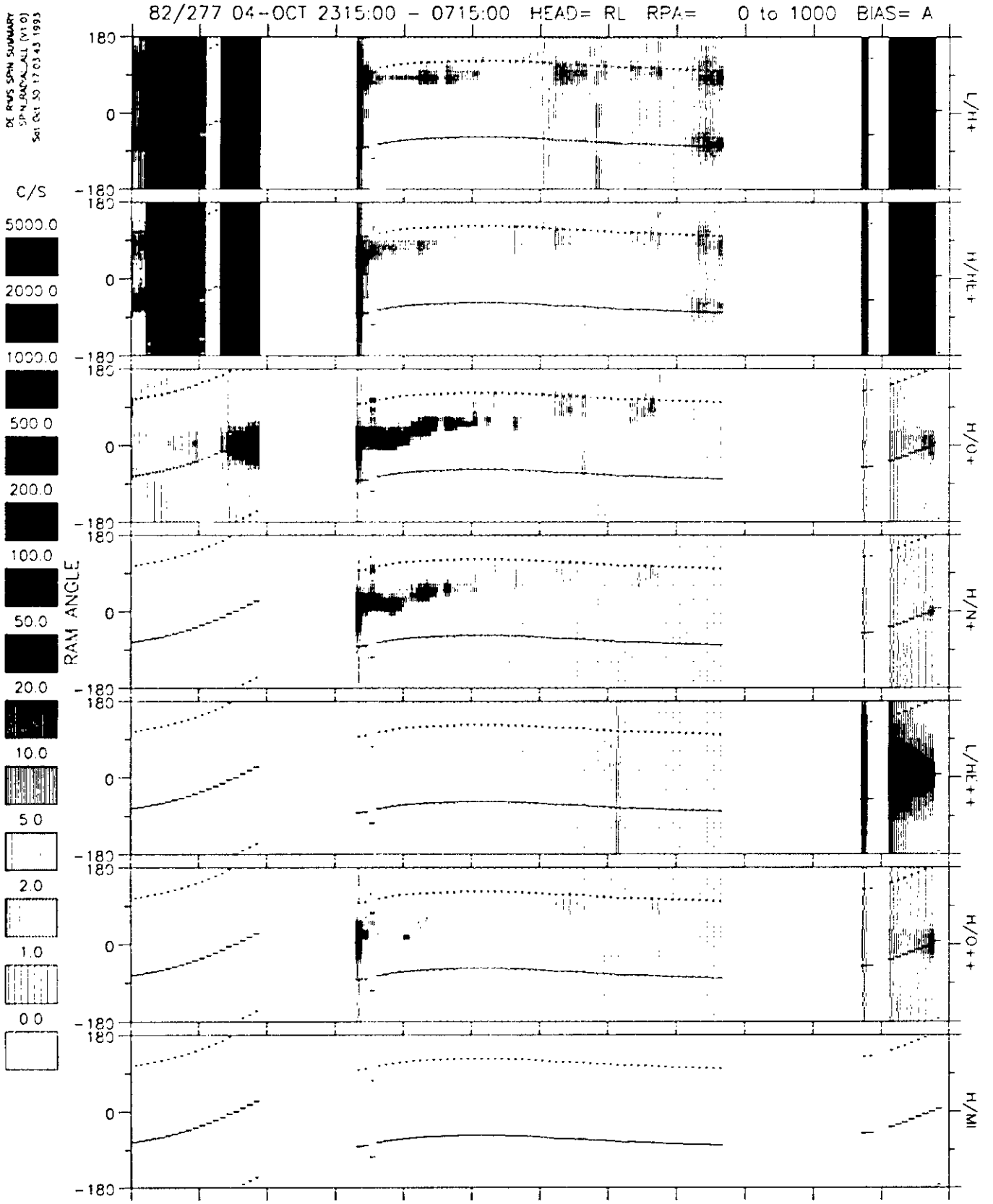


TIME	0255	0335	0415	0000	0000	0000	0655	0735	0815	0855	0935	HHMM
RE	3.4	2.3	1.1	0.0	0.0	0.0	4.5	4.7	4.6	4.3	3.6	RE
L	3.5	2.5	9.6	0.0	0.0	0.0	15.0	9.4	6.6	4.9	3.7	
MLT	10.0	10.1	21.1	0.0	0.0	0.0	9.1	9.4	9.7	9.9	10.1	HRS
MLAT	*****	15.32	69.33	0.00	0.00	0.00	*****	*****	*****	*****	-2.86	DEGS
INVLAT	57.7	50.8	71.1	0.0	0.0	0.0	75.0	70.9	67.1	63.2	58.8	DEGS

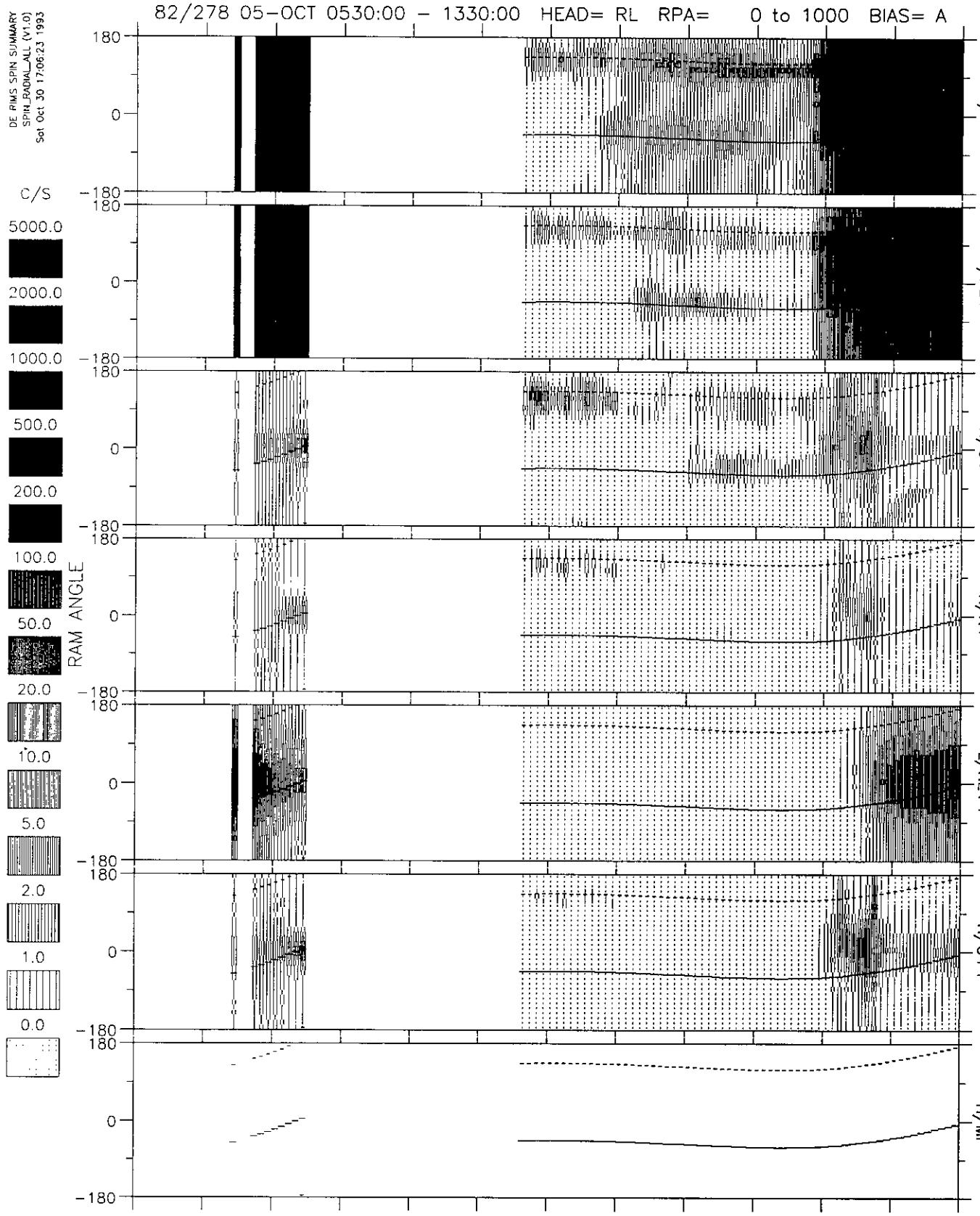

82/277 04-OCT 0900:00 - 1700:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M
TIME 0940 1020 1100 1140 0000 0000 0000 0000 0000 0000 0000 HHMM
RE 3.5 2.5 1.2 1.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 RE
L 3.6 3.0 26.2 10.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0
MLT 10.1 10.4 19.8 23.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 HRS
MLAT -0.49 25.71 74.25 ***** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 DEGS
INVLAT 58.3 54.6 78.6 72.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 DEGS



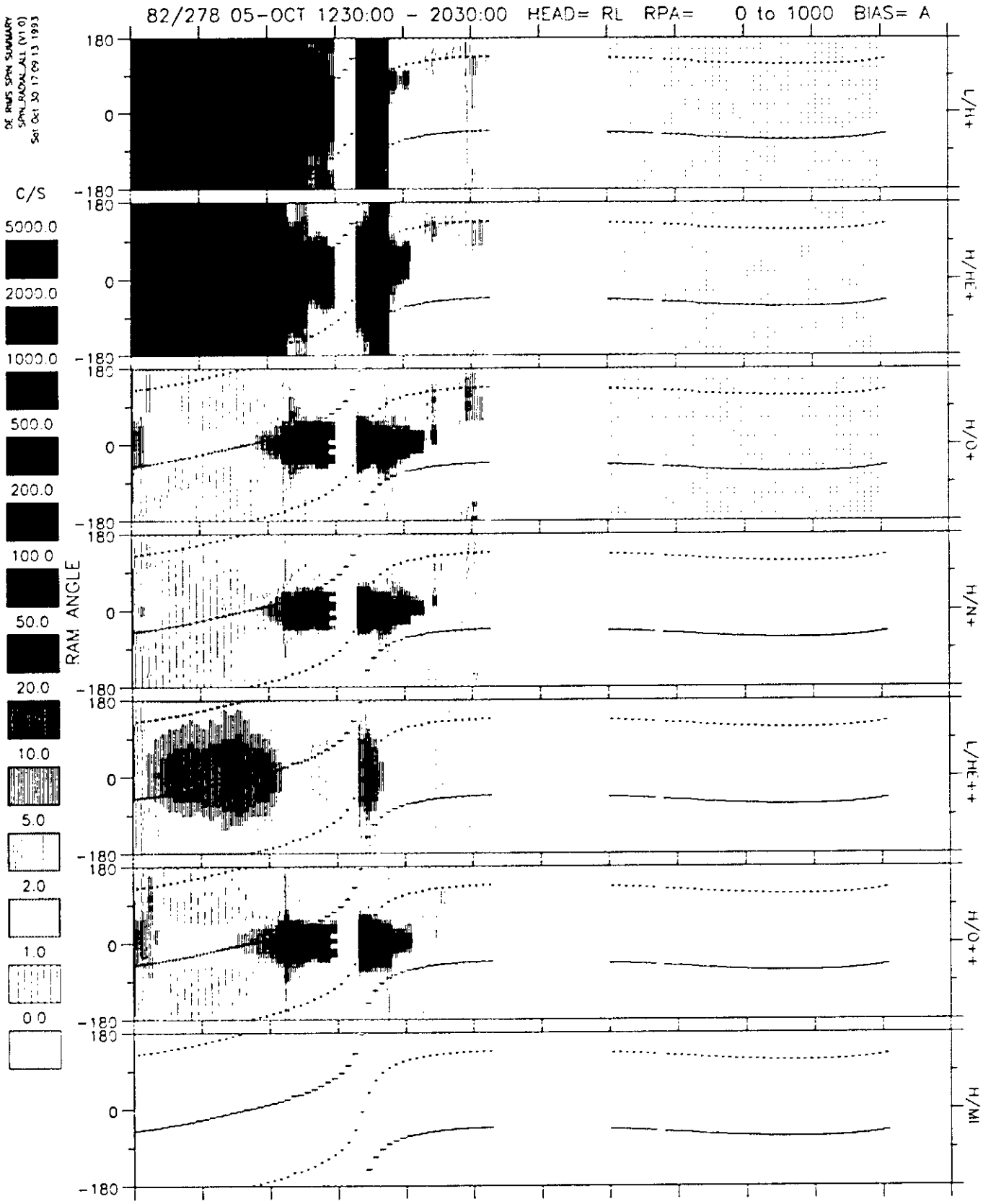
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	2320	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.6	DEGS

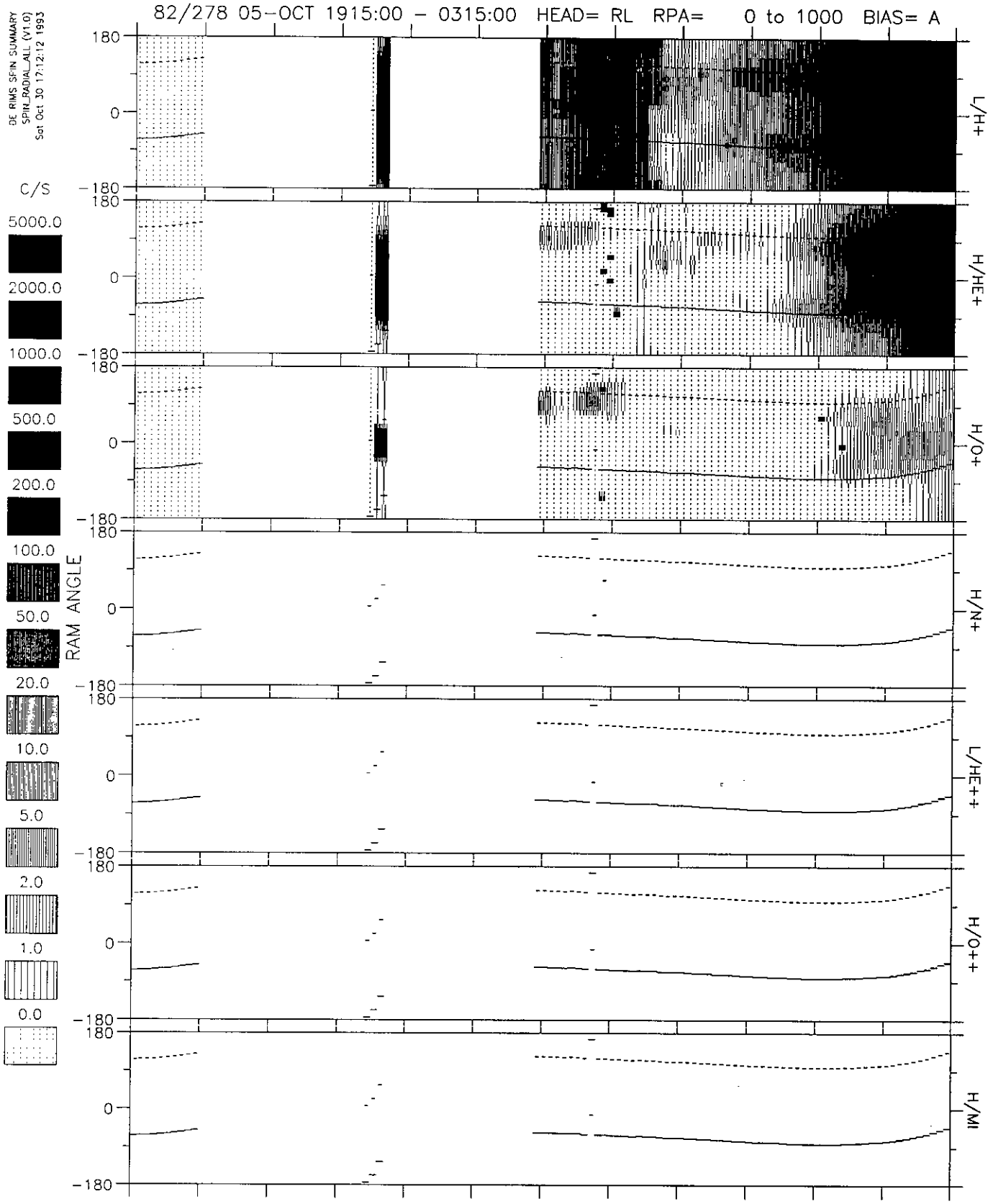


TIME	2355	0000	0000	0155	0235	0315	0355	0435	0000	0000	0000	HHMM
RE	2.7	0.0	0.0	2.9	3.8	4.4	4.6	4.6	0.0	0.0	0.0	RE
L	2.7	0.0	0.0	57.3	100.0	32.3	15.1	9.2	0.0	0.0	0.0	
MLT	9.9	0.0	0.0	21.6	9.6	9.5	9.6	9.6	0.0	0.0	0.0	HRS
MLAT	6.20	0.00	0.00	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	52.3	0.0	0.0	82.4	86.3	79.9	75.1	70.8	0.0	0.0	0.0	DEGS

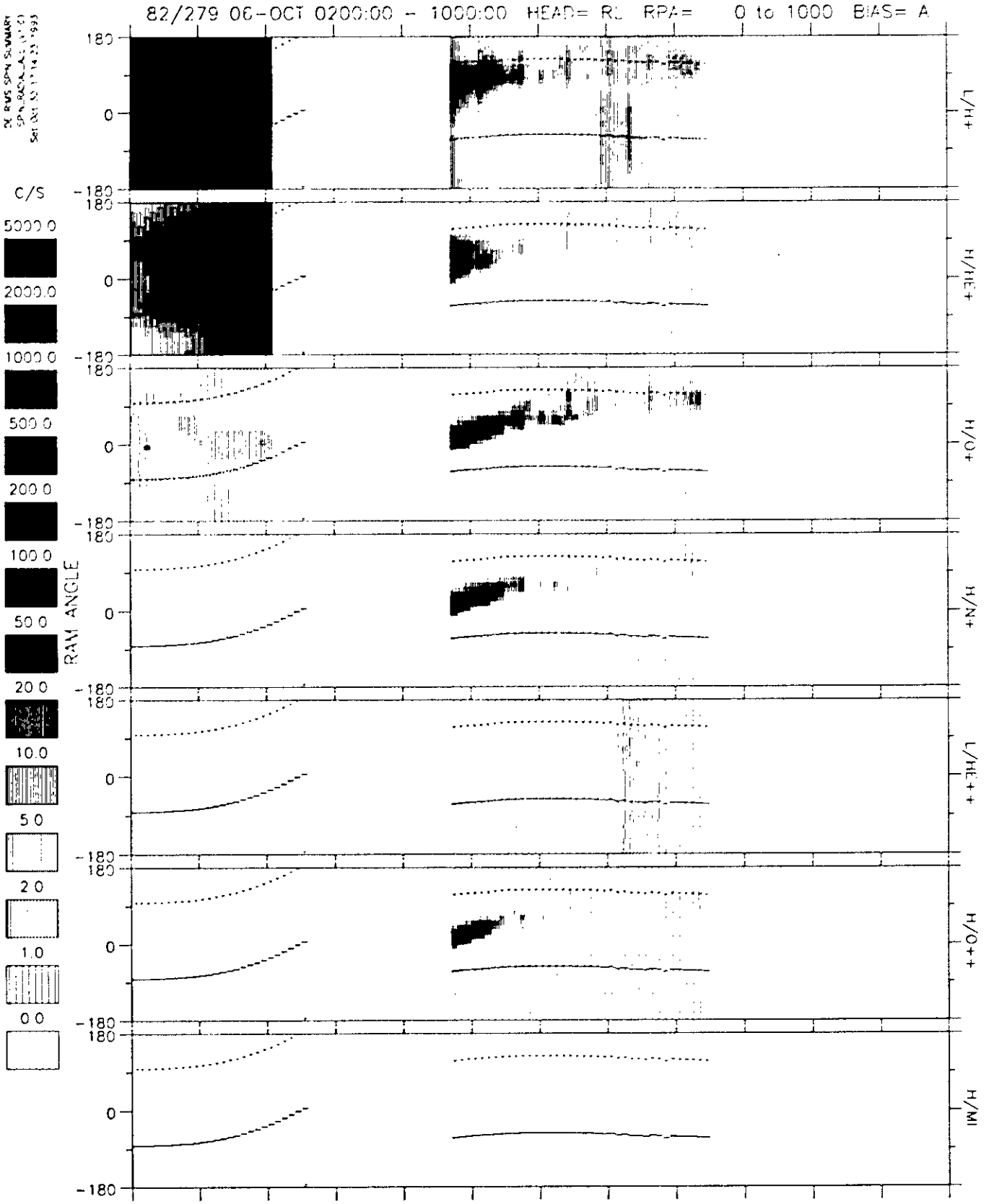


TIME	0000	0650	0000	0000	0000	0930	1010	1050	1130	1210	1250	HHMM
RE	0.0	2.6	0.0	0.0	0.0	3.9	4.4	4.6	4.6	4.3	3.8	RE
L	0.0	2.7	0.0	0.0	0.0	19.4	10.8	7.6	5.9	4.7	3.9	
MLT	0.0	10.3	0.0	0.0	0.0	8.5	9.2	9.5	9.8	9.9	10.0	HRS
MLAT	0.00	13.88	0.00	0.00	0.00	*****	*****	*****	*****	*****	0.69	DEGS
INVLAT	0.0	52.6	0.0	0.0	0.0	76.9	72.3	68.7	65.6	62.6	59.4	DEGS

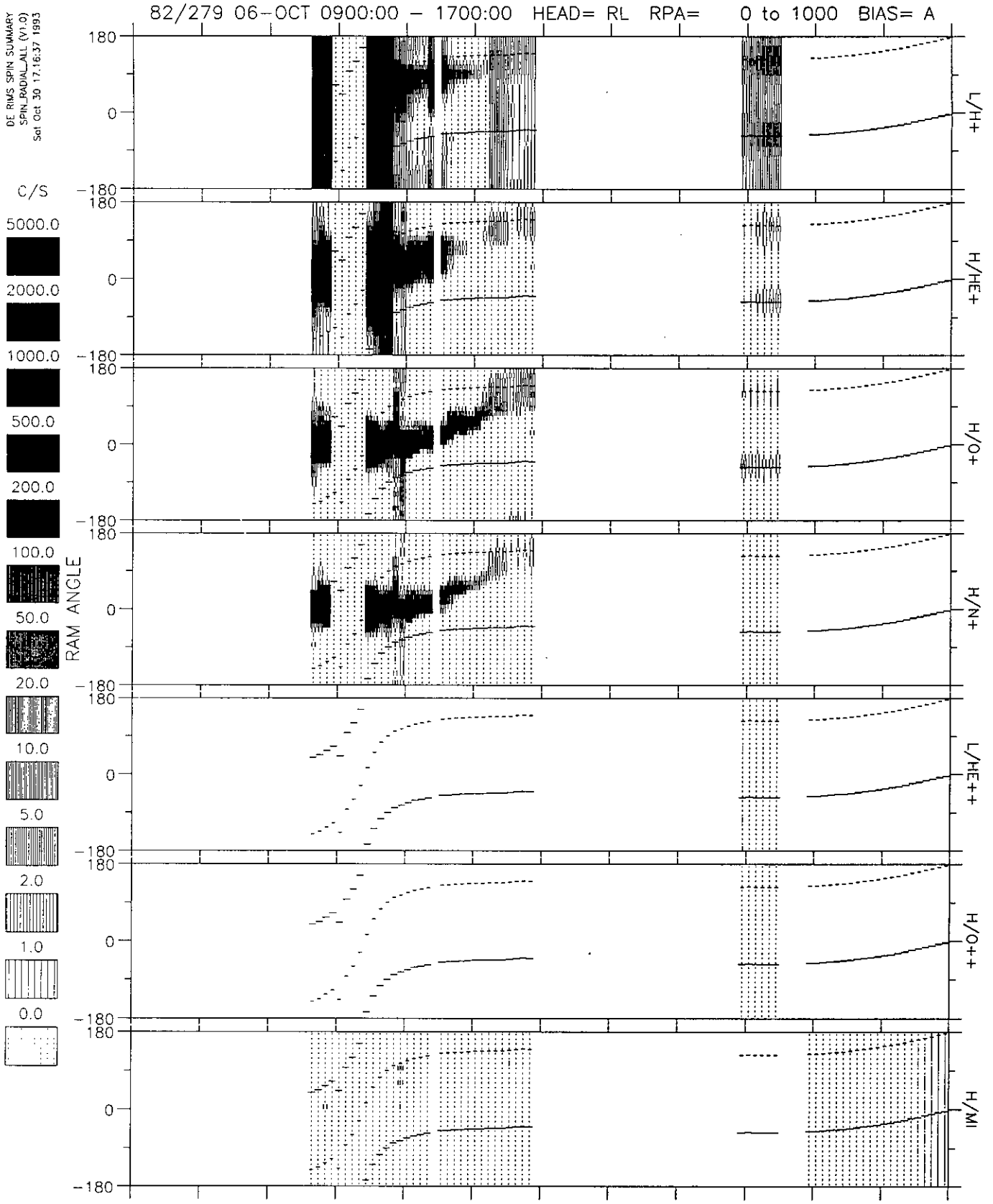

82/278 05-OCT 1230:00 - 2030:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Oct 30 17:09:13 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 1310 1350 1430 1510 1550 0000 1710 1750 1830 1910 1950 HHMM
RE 3.4 2.3 1.1 2.1 3.3 0.0 4.5 4.7 4.6 4.2 3.6 RE
L 3.5 3.8 2.3 43.2 30.8 0.0 8.7 7.0 5.7 4.6 3.7
MLT 10.0 10.1 22.0 21.4 10.9 0.0 10.5 10.5 10.4 10.2 10.1 HRS
MLAT 9.83 38.79 41.51 ***** ***** 0.00 ***** ***** ***** ***** -5.04 DEGS
INVLAT 57.9 59.0 48.2 81.2 79.6 0.0 70.2 67.7 65.3 62.3 58.5 DEGS



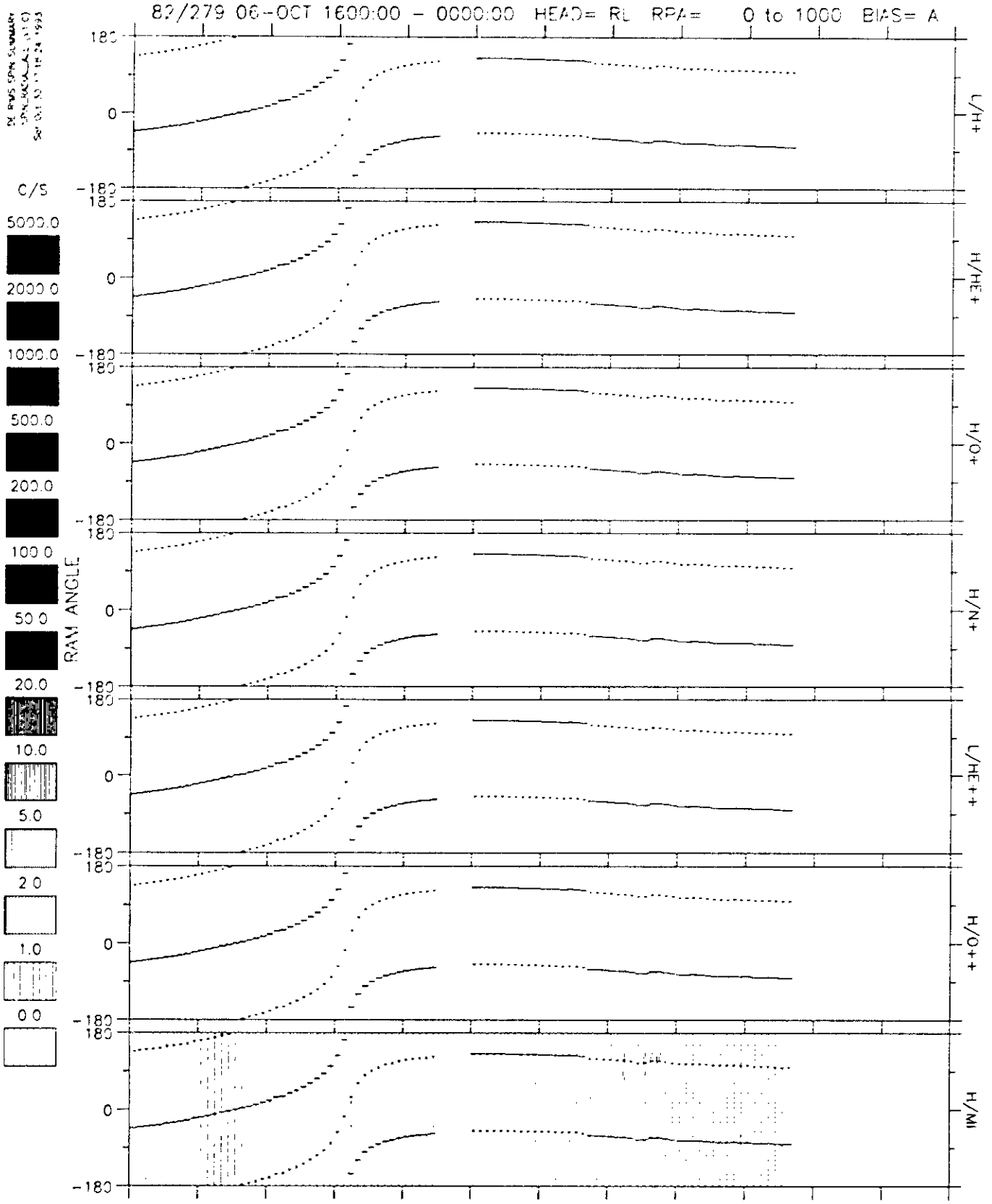
TIME	0000	0000	0000	0000	0000	2315	2355	0035	0115	0155	0235	HHMM
RE	0.0	0.0	0.0	0.0	0.0	3.9	4.4	4.6	4.6	4.3	3.7	RE
L	0.0	0.0	0.0	0.0	0.0	56.0	23.6	13.8	9.1	6.1	4.1	
MLT	0.0	0.0	0.0	0.0	0.0	11.9	10.8	10.3	10.1	9.9	9.9	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	82.3	78.1	74.4	70.6	66.2	60.4	DEGS

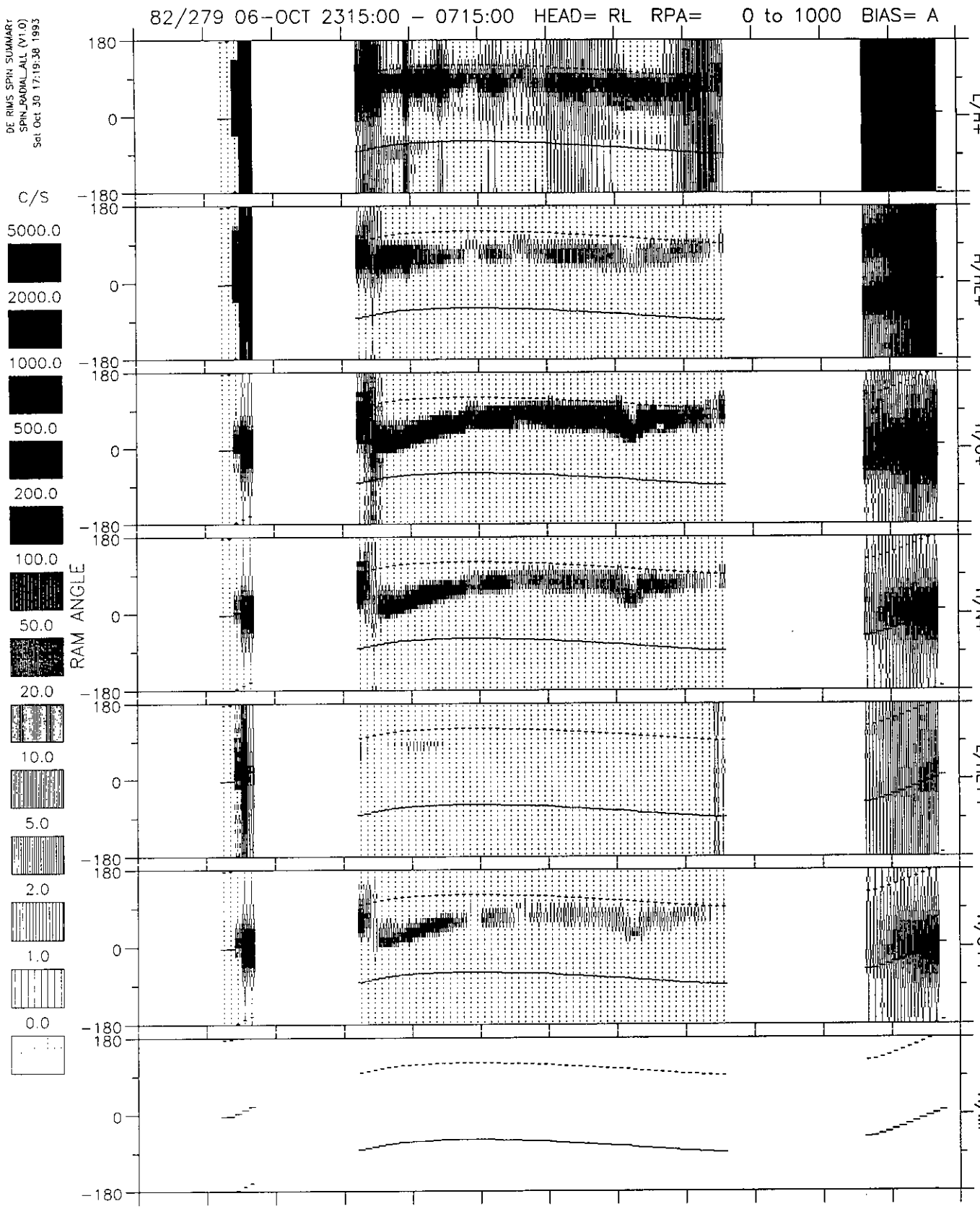


TIME	0240	0320	0000	0000	0520	0600	0640	0720	0000	0000	0000	HHMM
RE	3.6	2.6	0.0	0.0	3.0	3.8	4.4	4.6	0.0	0.0	0.0	RE
L	3.9	2.6	0.0	0.0	66.4	48.8	18.0	10.5	0.0	0.0	0.0	
MLT	9.9	10.0	0.0	0.0	1.2	7.7	8.8	9.2	0.0	0.0	0.0	HRS
MLAT	*****	5.75	0.00	0.00	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	59.5	51.8	0.0	0.0	82.9	81.8	76.4	72.0	0.0	0.0	0.0	DEGS

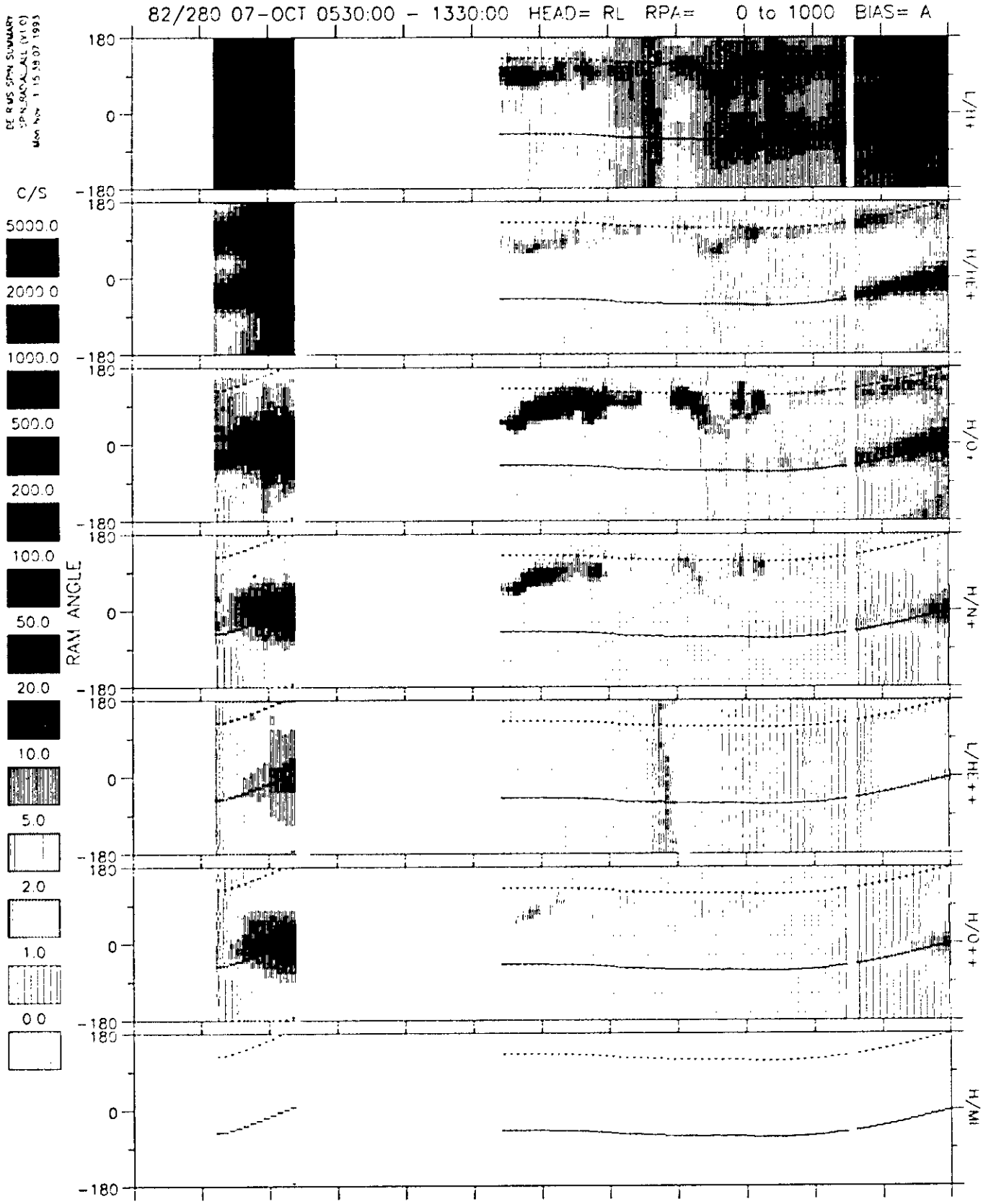


TIME	0000	0000	1100	1140	1220	0000	0000	0000	1500	1540	1620	HHMM
RE	0.0	0.0	1.1	2.1	3.2	0.0	0.0	0.0	4.6	4.3	3.6	RE
L	0.0	0.0	3.5	21.8	34.8	0.0	0.0	0.0	5.3	4.4	3.7	
MLT	0.0	0.0	21.1	23.4	8.7	0.0	0.0	0.0	10.0	10.0	9.9	HRS
MLAT	0.00	0.00	53.91	*****	*****	0.00	0.00	0.00	*****	*****	2.72	DEGS
INVLAT	0.0	0.0	57.6	77.6	80.2	0.0	0.0	0.0	64.3	61.7	58.6	DEGS

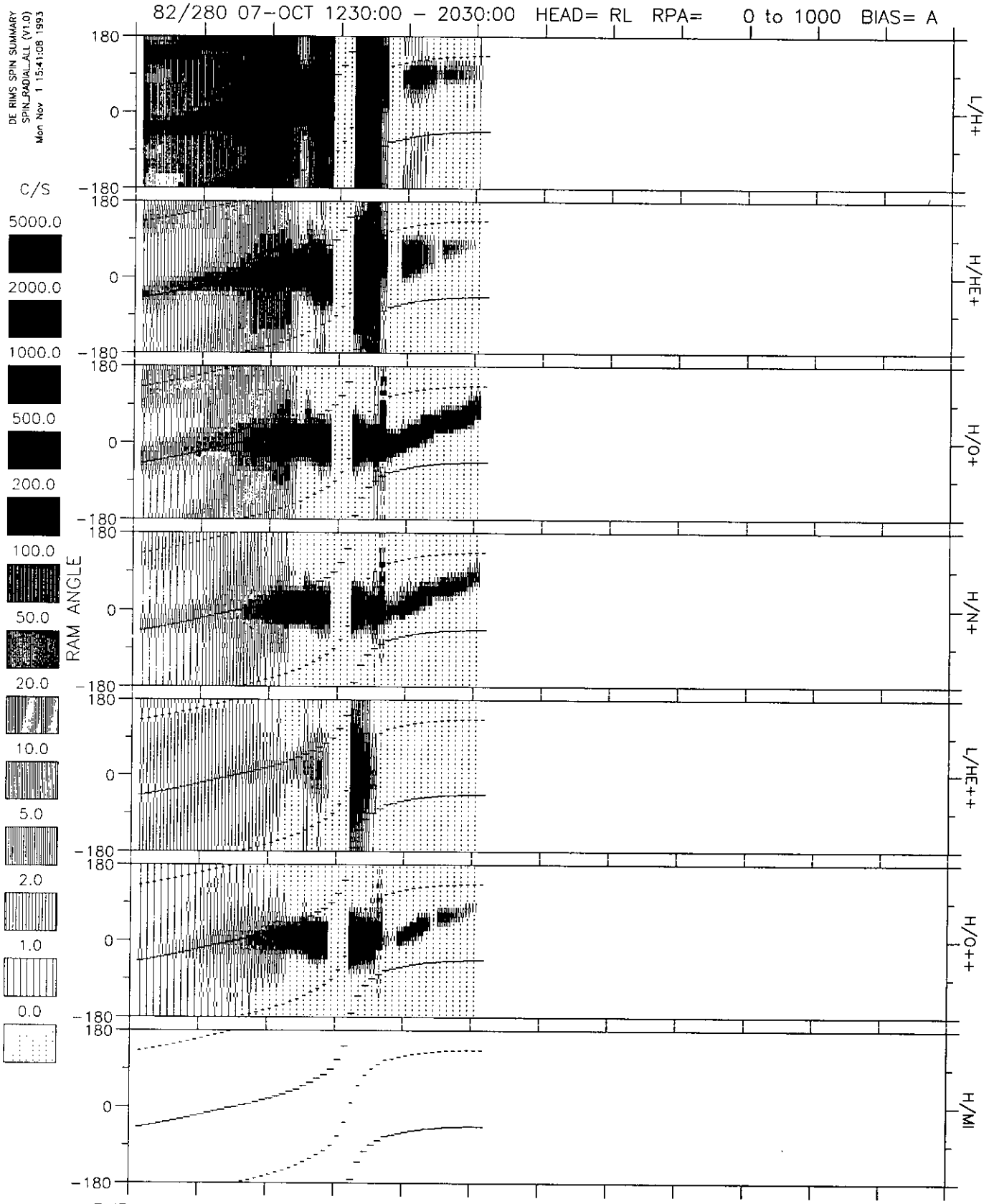

82/279 06-OCT 1600:00 - 0000:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M
TIME 1640 1720 1800 1840 1920 2000 2040 2120 2200 0000 0000 HHMM
RE 3.2 2.1 1.1 2.4 3.4 4.1 4.5 4.7 4.5 0.0 0.0 RE
L 3.4 3.8 1.1 29.3 37.8 17.7 12.0 9.0 6.8 0.0 0.0
MLT 9.9 9.5 22.1 19.2 12.6 11.3 10.9 10.6 10.3 0.0 0.0 HRS
MLAT 11.75 41.54 11.41 ***** ***** ***** ***** ***** ***** 0.00 0.00 DEGS
INVLAT 57.0 58.9 18.8 79.3 80.6 76.3 73.2 70.5 67.5 0.0 0.0 DEGS



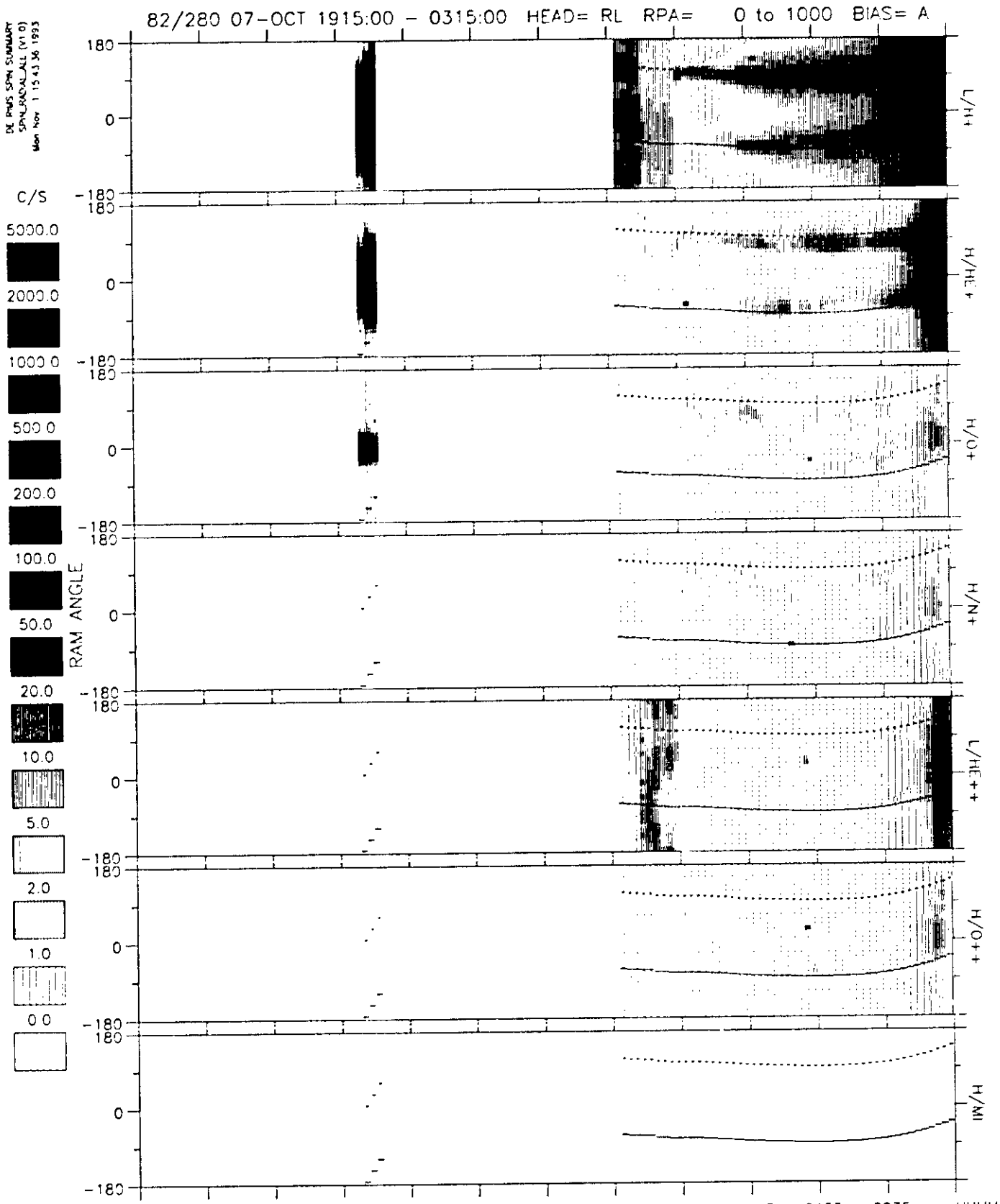
TIME	0000	0000	0000	0155	0235	0315	0355	0435	0000	0000	0635	HHMM
RE	0.0	0.0	0.0	3.1	3.9	4.4	4.6	4.6	0.0	0.0	2.9	RE
L	0.0	0.0	0.0	99.5	100.0	32.3	14.4	8.9	0.0	0.0	2.9	
MLT	0.0	0.0	0.0	21.5	9.4	9.4	9.4	9.5	0.0	0.0	10.1	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	0.00	0.00	5.59	DEGS
INVLAT	0.0	0.0	0.0	84.4	85.5	79.9	74.7	70.4	0.0	0.0	53.9	DEGS

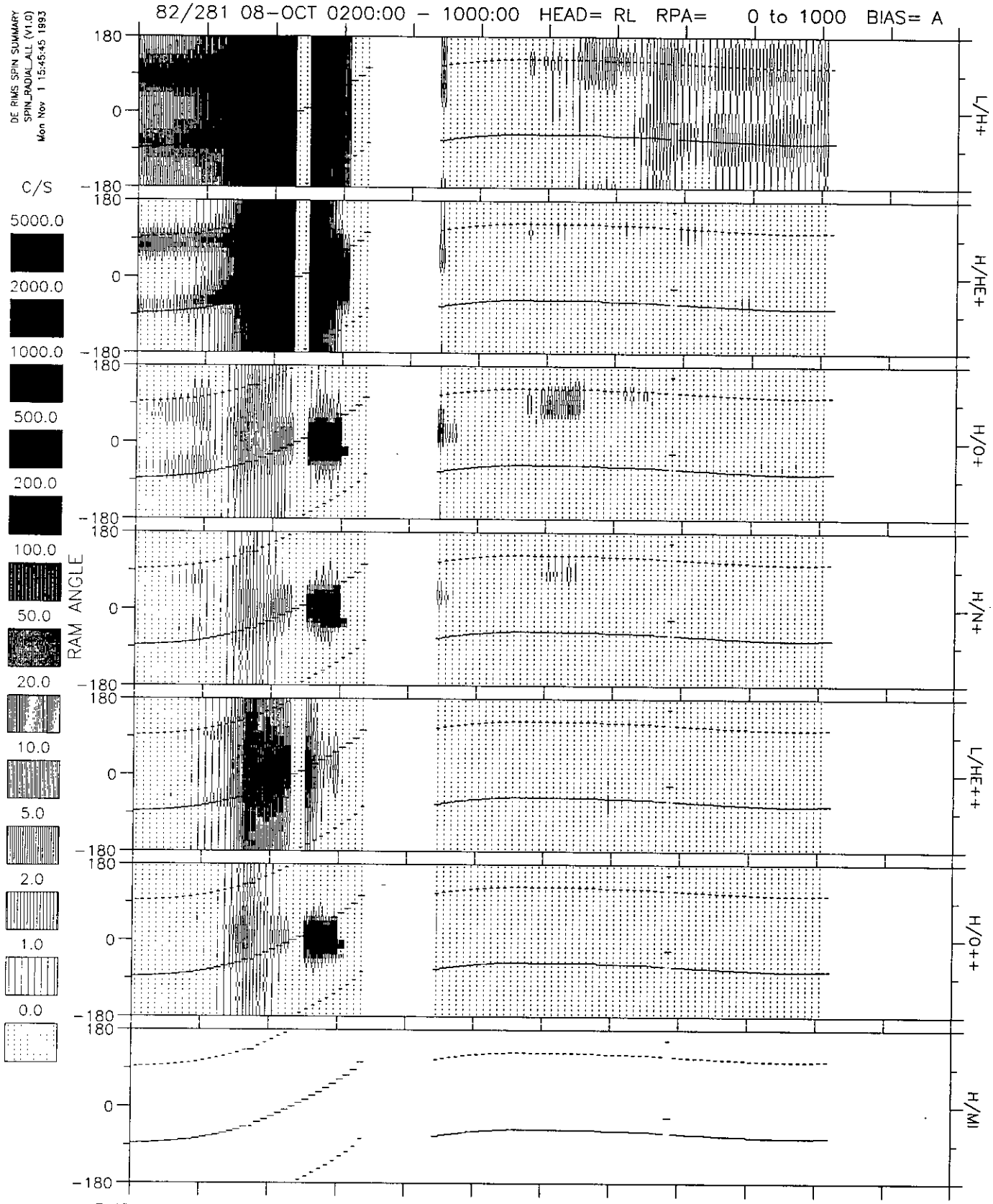


TIME	0000	0650	0000	0000	0000	0930	1010	1050	1130	1210	1250	HHMM
RE	0.0	2.4	0.0	0.0	0.0	4.0	4.4	4.6	4.6	4.3	3.7	RE
L	0.0	2.6	0.0	0.0	0.0	18.0	10.4	7.4	5.8	4.6	3.8	
MLT	0.0	10.2	0.0	0.0	0.0	8.5	9.1	9.5	9.7	9.8	9.9	HRS
MLAT	0.00	18.33	0.00	0.00	0.00	*****	*****	*****	*****	*****	2.37	DEGS
INVLAT	0.0	52.1	0.0	0.0	0.0	76.4	71.9	68.5	65.3	62.2	59.0	DEGS

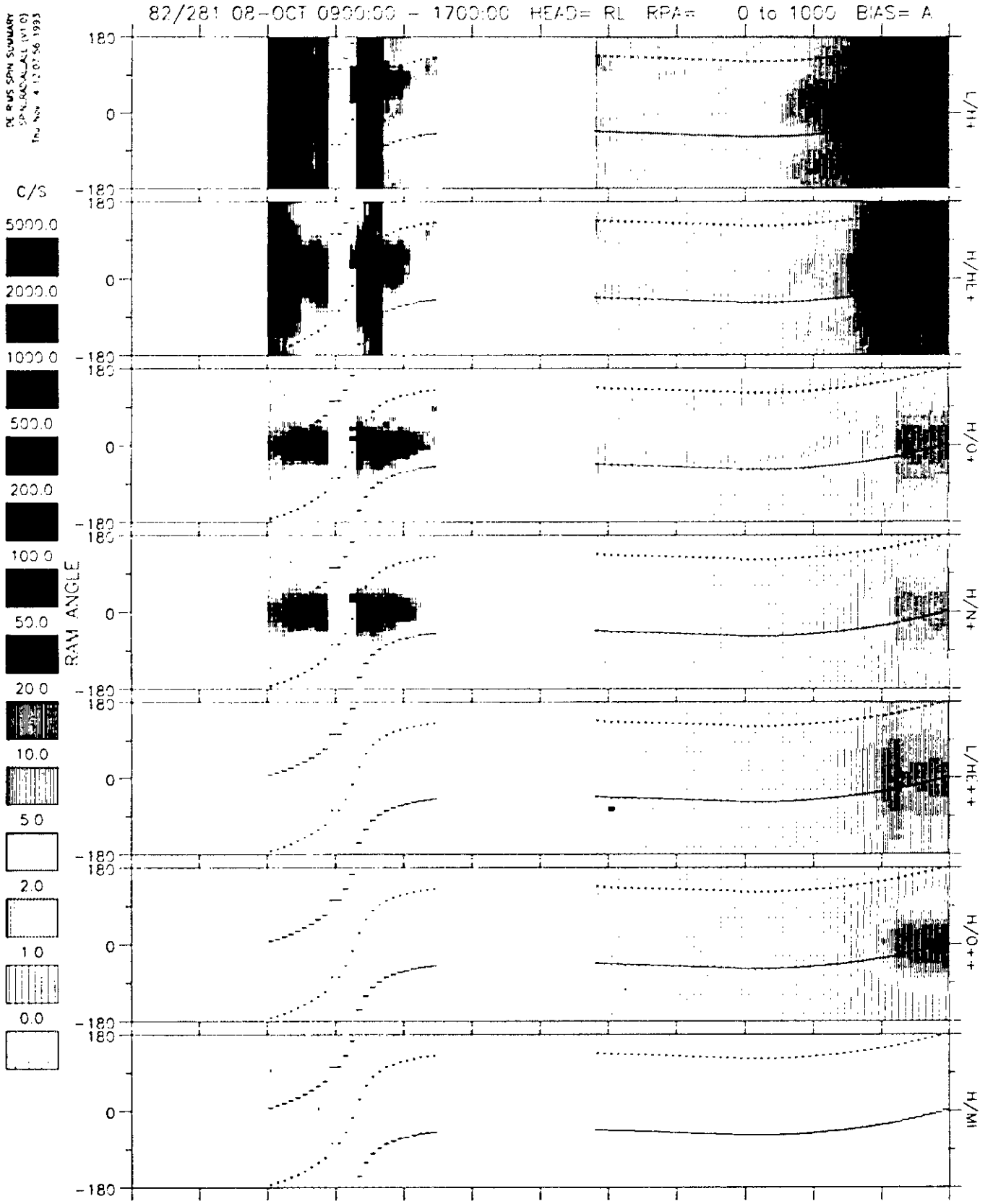


TIME	1310	1350	1430	1510	1550	0000	0000	0000	0000	0000	0000	HHMM
RE	3.3	2.1	1.1	2.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	3.5	4.1	1.2	99.8	26.6	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	9.9	10.0	21.9	20.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	12.07	44.50	16.32	*****	*****	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	57.5	60.5	22.1	84.8	78.8	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

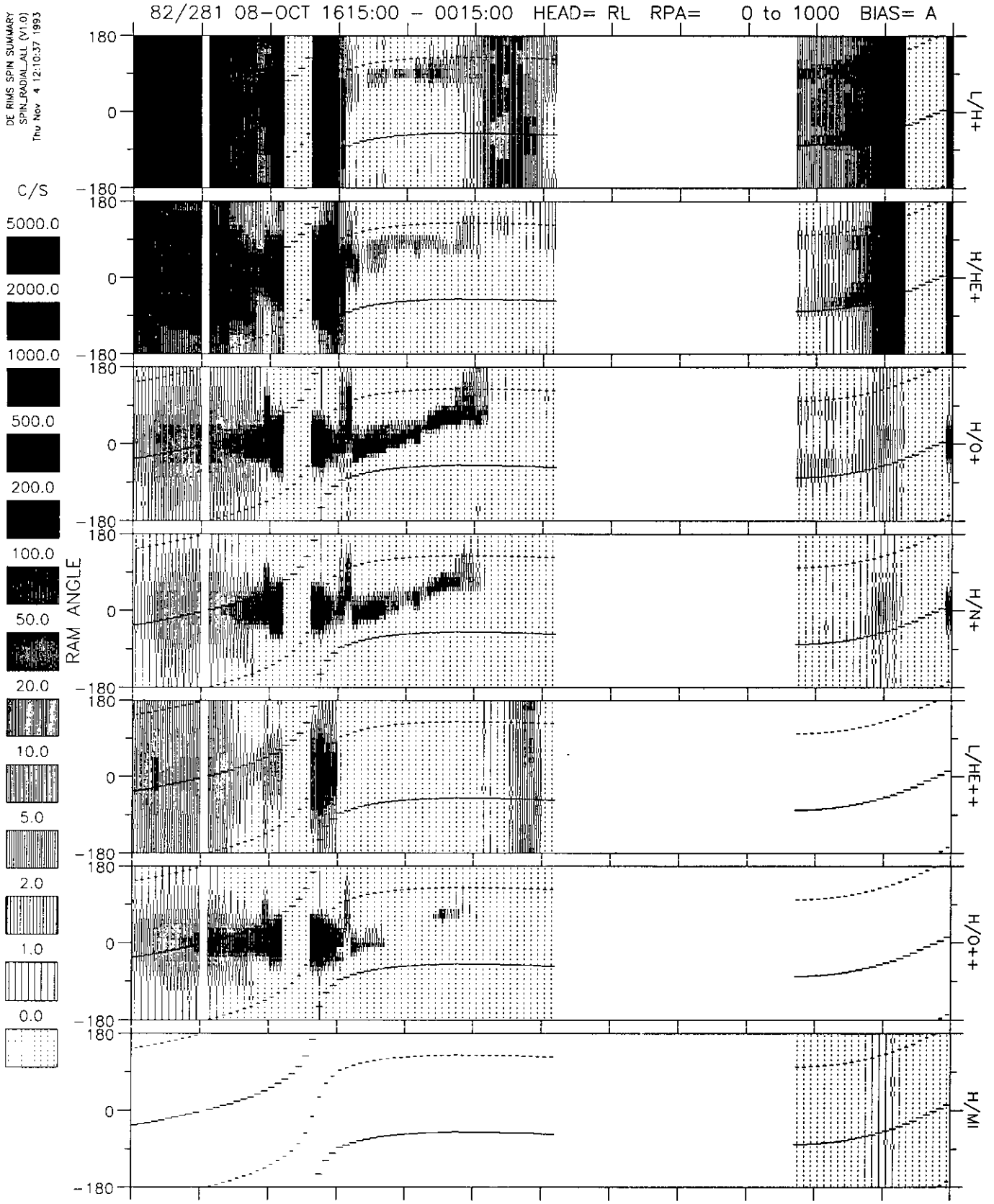

82/280 07-OCT 1915:00 - 0315:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE PWS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Nov 1 15:43:36 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M+
TIME 0000 0000 0000 0000 0000 0000 0000 0035 0115 0155 0235 HHMM
RE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.7 4.6 4.2 3.6 RE
L 0.0 0.0 0.0 0.0 0.0 0.0 0.0 13.5 8.8 5.9 3.9
MLT 0.0 0.0 0.0 0.0 0.0 0.0 0.0 10.1 9.9 9.8 9.8 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 0.0 74.2 70.3 65.7 59.6 DEGS



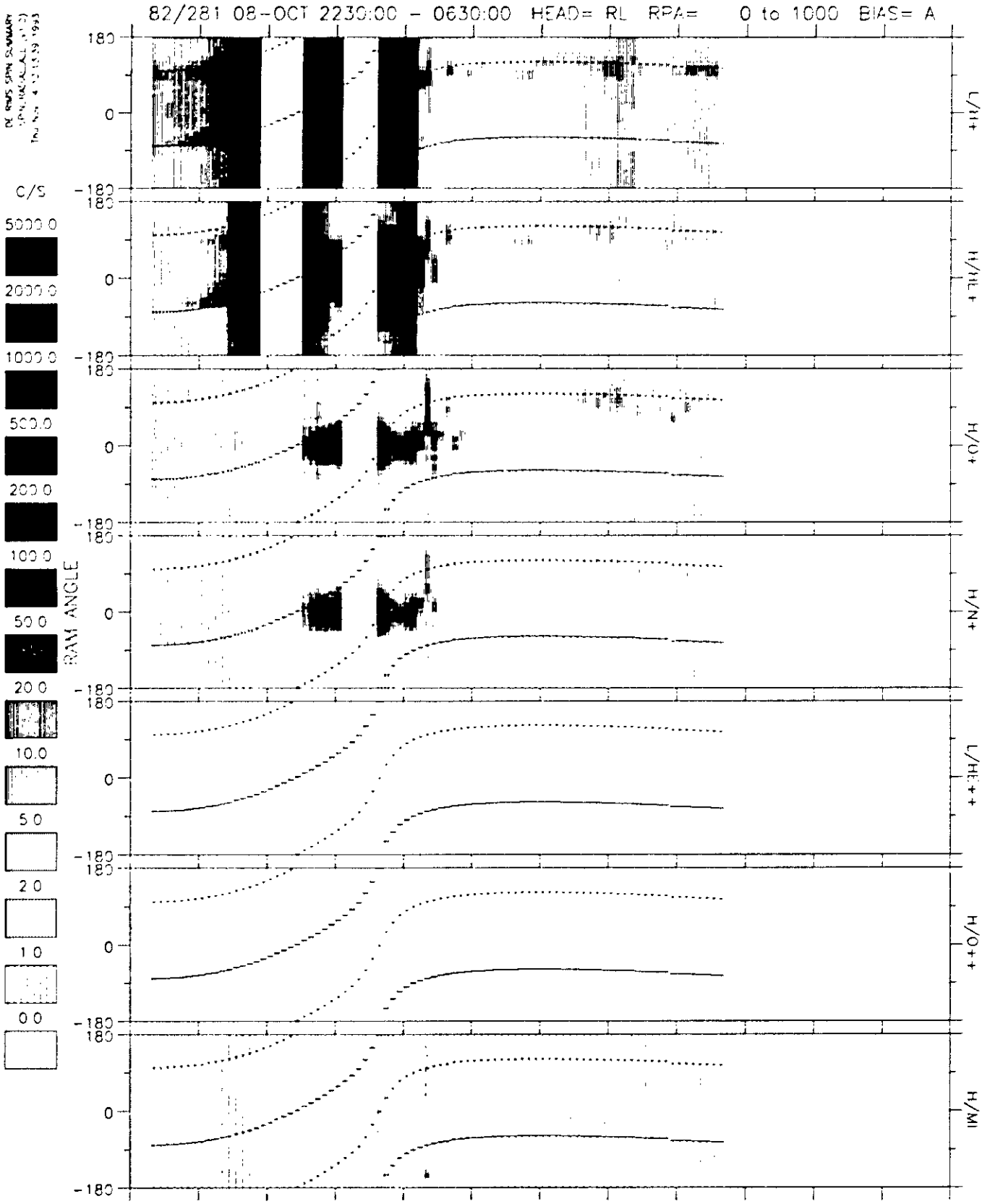
TIME	0240	0320	0400	0000	0520	0600	0640	0720	0800	0840	0000	HHMM
RE	3.5	2.5	1.2	0.0	3.1	3.9	4.4	4.6	4.6	4.3	0.0	RE
L	3.7	2.5	100.0	0.0	88.4	42.6	17.0	10.1	7.0	5.2	0.0	
MLT	9.8	9.9	15.5	0.0	1.9	7.7	8.7	9.1	9.4	9.6	0.0	HRS
MLAT	*****	9.71	84.76	0.00	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	58.7	51.0	87.0	0.0	83.9	81.2	75.9	71.7	67.8	63.9	0.0	DEGS



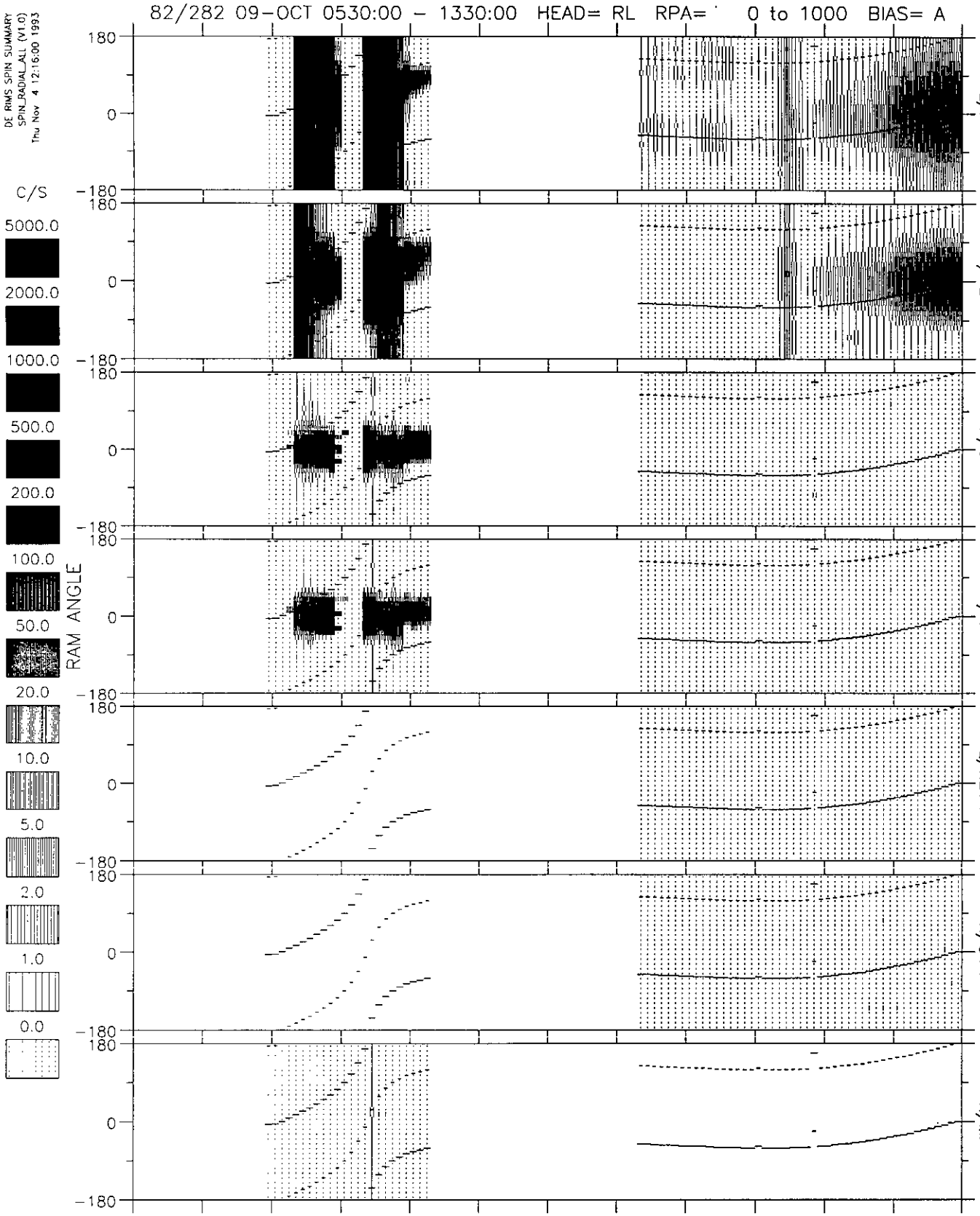
TIME	0000	1020	1100	1140	0000	0000	1340	1420	1500	1540	1620	HHMM
RE	0.0	2.2	1.1	2.2	0.0	0.0	4.5	4.7	4.6	4.2	3.5	RE
L	0.0	3.1	1.4	48.5	0.0	0.0	8.2	6.4	5.2	4.3	3.6	
MLT	0.0	10.3	21.5	23.8	0.0	0.0	9.7	9.8	9.9	9.9	9.8	HRS
MLAT	0.00	35.94	29.35	*****	0.00	0.00	*****	*****	*****	-9.89	4.19	DEGS
INVLAT	0.0	55.2	32.5	81.7	0.0	0.0	69.5	66.7	64.1	61.4	58.1	DEGS



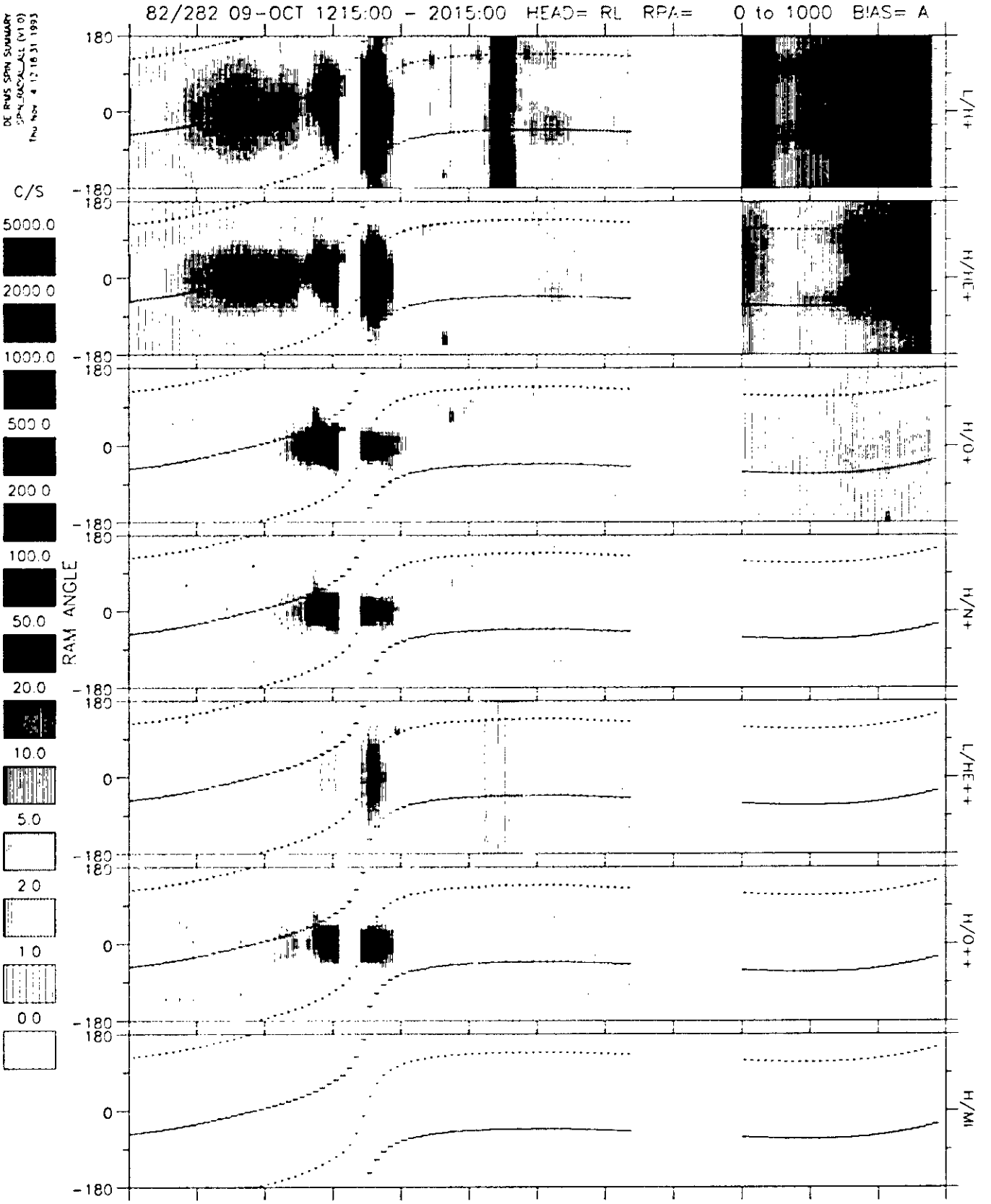
TIME	0000	1735	1815	1855	1935	2015	0000	0000	0000	2255	2335	HHMM
RE	0.0	1.4	1.7	3.0	3.8	4.4	0.0	0.0	0.0	3.8	3.0	RE
L	0.0	57.0	4.3	67.1	25.1	14.8	0.0	0.0	0.0	4.3	2.9	
MLT	0.0	5.9	21.0	14.9	11.7	11.0	0.0	0.0	0.0	9.9	9.7	HRS
MLAT	0.00	79.70	*****	*****	*****	*****	0.00	0.00	0.00	*****	-1.47	DEGS
INVLAT	0.0	82.4	61.2	83.0	78.5	74.9	0.0	0.0	0.0	61.1	54.0	DEGS



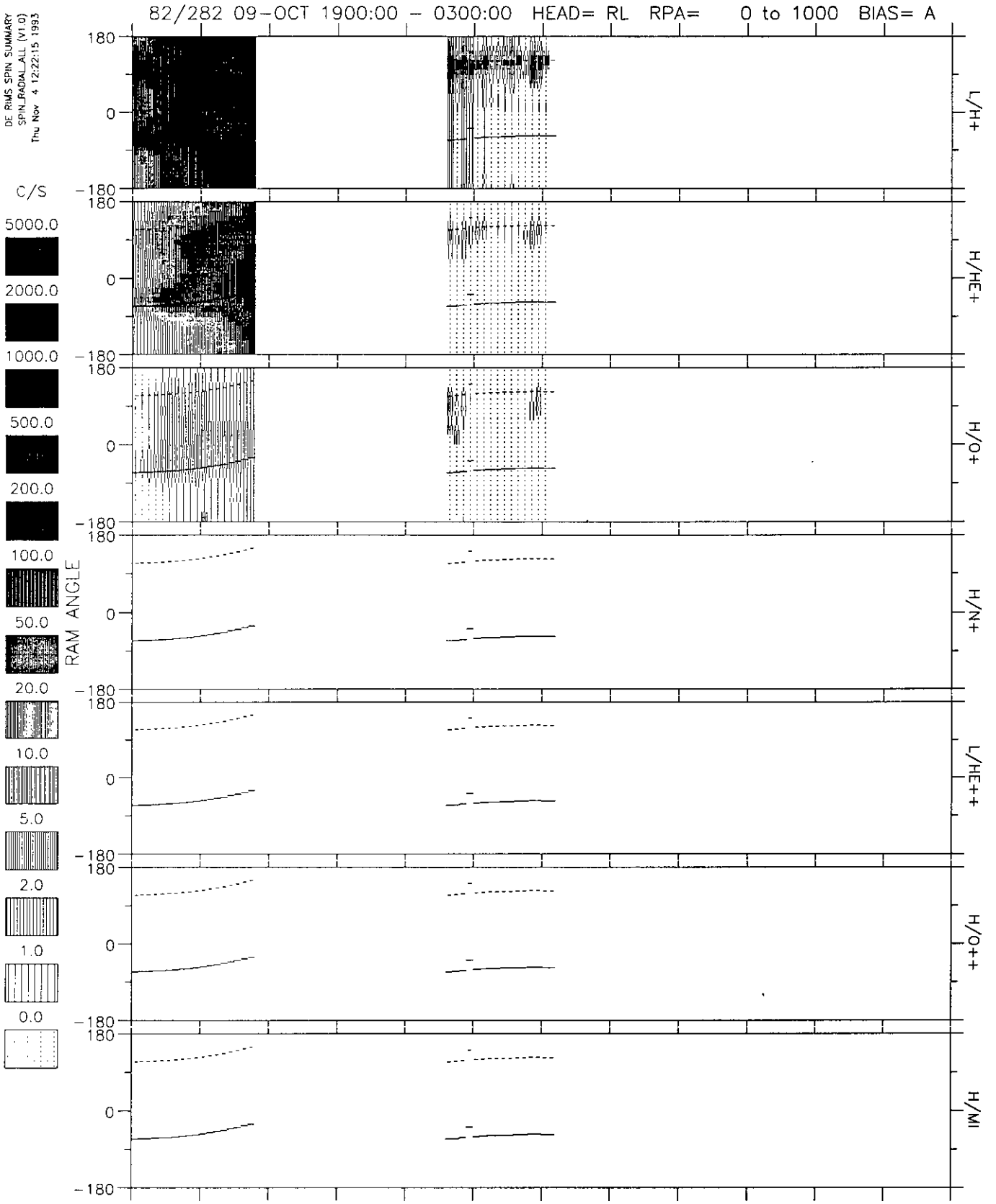
TIME	2310	2350	0030	0110	0150	0230	0310	0350	0000	0000	0000	HHMM
RE	3.6	2.5	1.2	1.8	3.1	3.9	4.4	4.6	0.0	0.0	0.0	RE
L	3.8	2.5	84.3	3.2	84.4	-0.0	31.2	14.8	0.0	0.0	0.0	
MLT	9.8	9.6	7.8	21.5	21.4	9.1	9.2	9.3	0.0	0.0	0.0	HRS
MLAT	*****	9.17	80.19	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	58.9	51.2	83.6	56.3	83.8	-0.0	79.7	74.9	0.0	0.0	0.0	DEGS



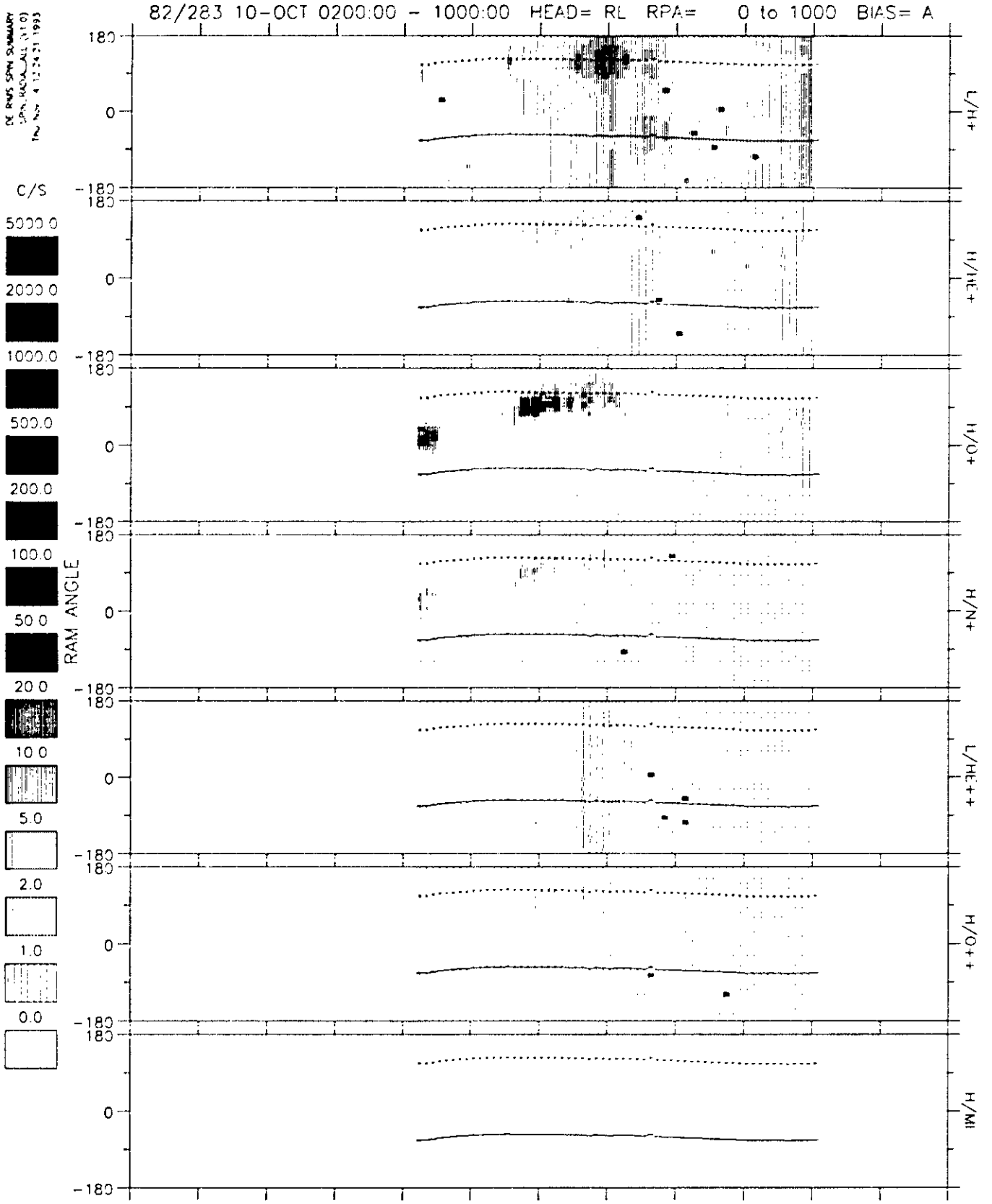
TIME	0000	0650	0730	0810	0000	0000	0000	1050	1130	1210	1250	HHMM
RE	0.0	2.2	1.1	2.2	0.0	0.0	0.0	4.7	4.6	4.2	3.6	RE
L	0.0	2.6	2.3	11.5	0.0	0.0	0.0	7.2	5.6	4.5	3.7	
MLT	0.0	10.2	21.0	23.5	0.0	0.0	0.0	9.4	9.6	9.7	9.8	HRS
MLAT	0.00	23.48	47.98	*****	0.00	0.00	0.00	*****	*****	*****	4.12	DEGS
INVLAT	0.0	51.9	49.2	72.9	0.0	0.0	0.0	68.2	65.0	61.9	58.5	DEGS



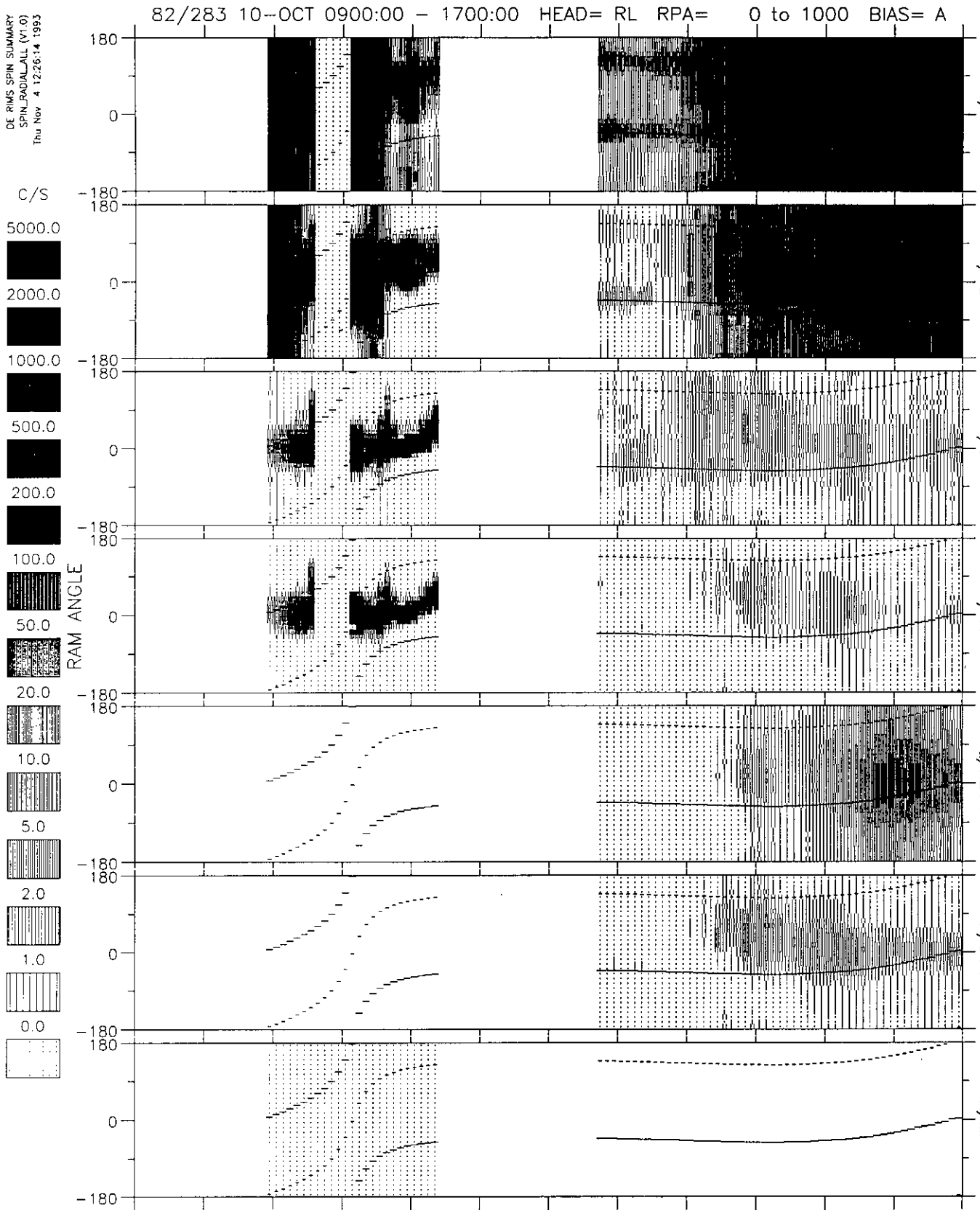
TIME	1255	1335	1415	1455	1535	1615	1655	0000	1815	1855	1935	HHMM
RE	3.5	2.4	1.1	2.0	3.2	4.0	4.4	0.0	4.6	4.3	3.7	RE
L	3.6	3.5	7.2	17.4	43.9	14.2	9.5	0.0	6.0	4.8	3.7	
MLT	9.8	9.8	21.8	21.3	10.9	10.5	10.3	0.0	10.1	10.0	9.8	HRS
MLAT	6.50	33.19	61.93	*****	*****	*****	*****	0.00	*****	*****	-7.44	DEGS
INVLAT	58.1	57.7	68.1	76.1	81.3	74.6	71.0	0.0	65.9	63.0	58.9	DEGS



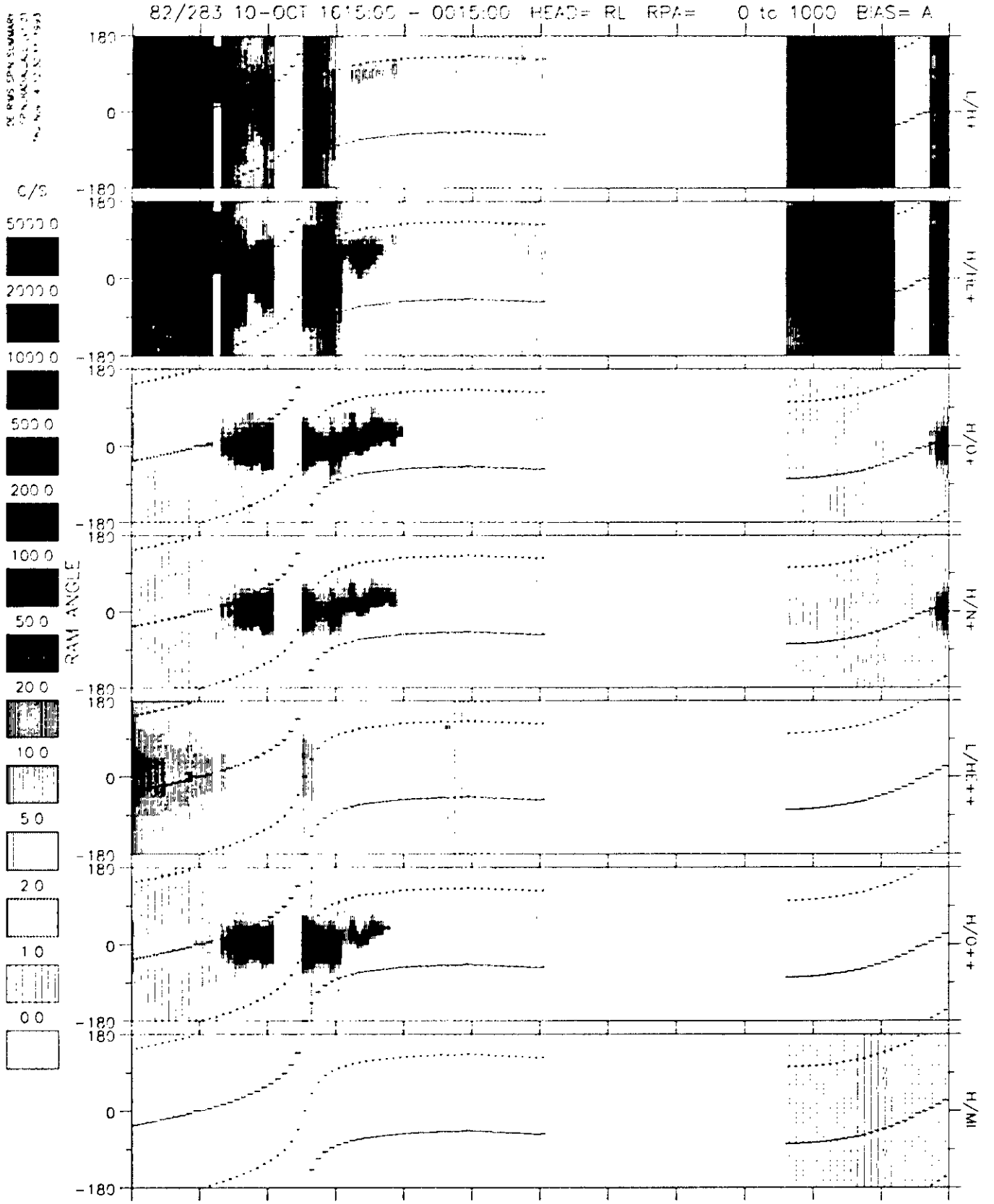
TIME	1940	0000	0000	0000	2220	2300	0000	0000	0000	0000	0000	HHMM
RE	3.6	0.0	0.0	0.0	3.0	3.9	0.0	0.0	0.0	0.0	0.0	RE
L	3.6	0.0	0.0	0.0	67.6	76.7	0.0	0.0	0.0	0.0	0.0	
MLT	9.8	0.0	0.0	0.0	17.9	12.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	-5.59	0.00	0.00	0.00	*****	*****	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	58.2	0.0	0.0	0.0	83.0	83.4	0.0	0.0	0.0	0.0	0.0	DEGS



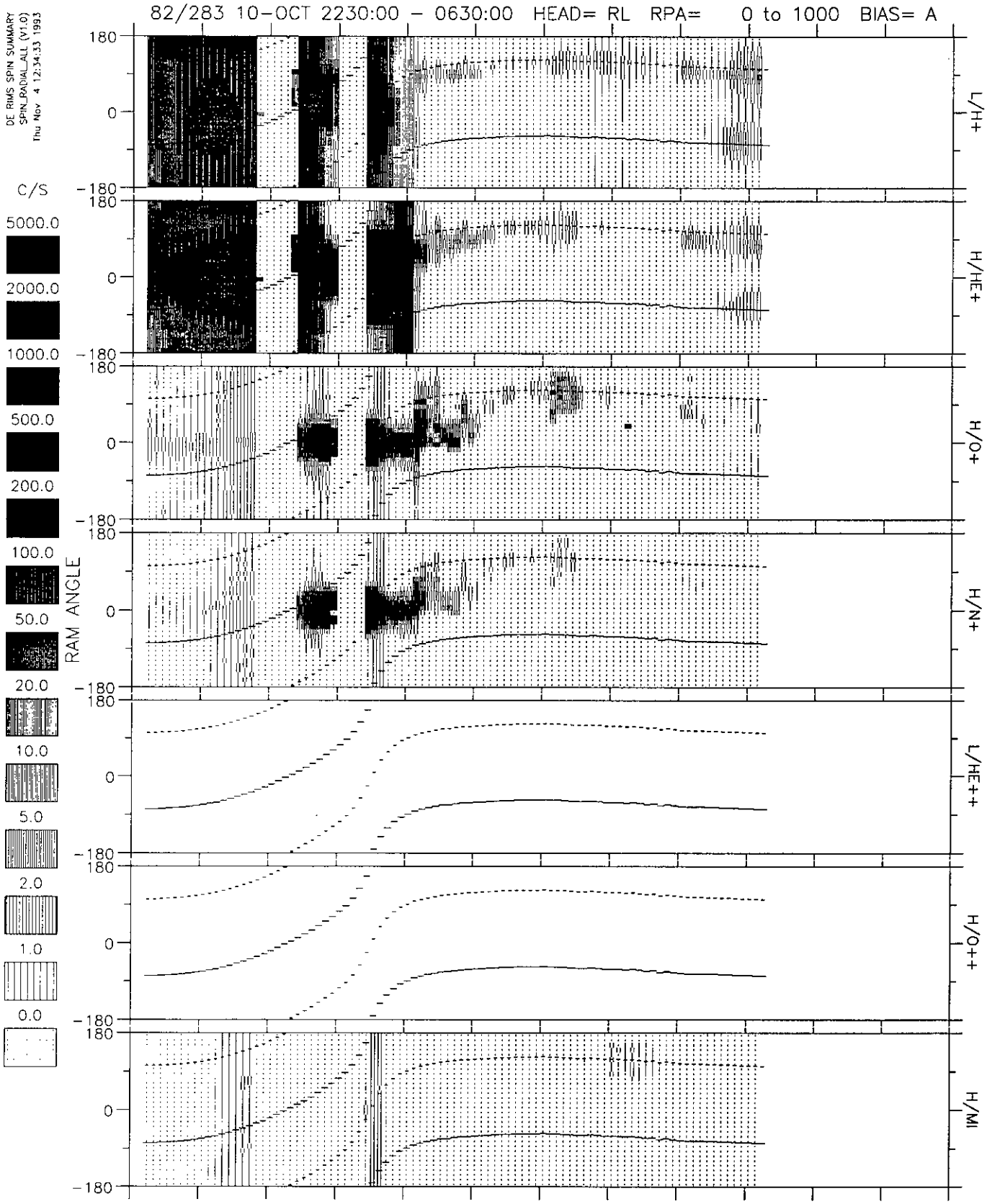
TIME	0000	0000	0000	0000	0520	0600	0640	0720	0800	0840	0000	HHMM
RE	0.0	0.0	0.0	0.0	3.3	4.0	4.5	4.7	4.6	4.3	0.0	RE
L	0.0	0.0	0.0	0.0	100.0	37.5	16.0	9.8	6.8	5.1	0.0	
MLT	0.0	0.0	0.0	0.0	2.8	7.8	8.6	9.0	9.3	9.5	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	84.4	80.6	75.5	71.3	67.5	63.7	0.0	DEGS



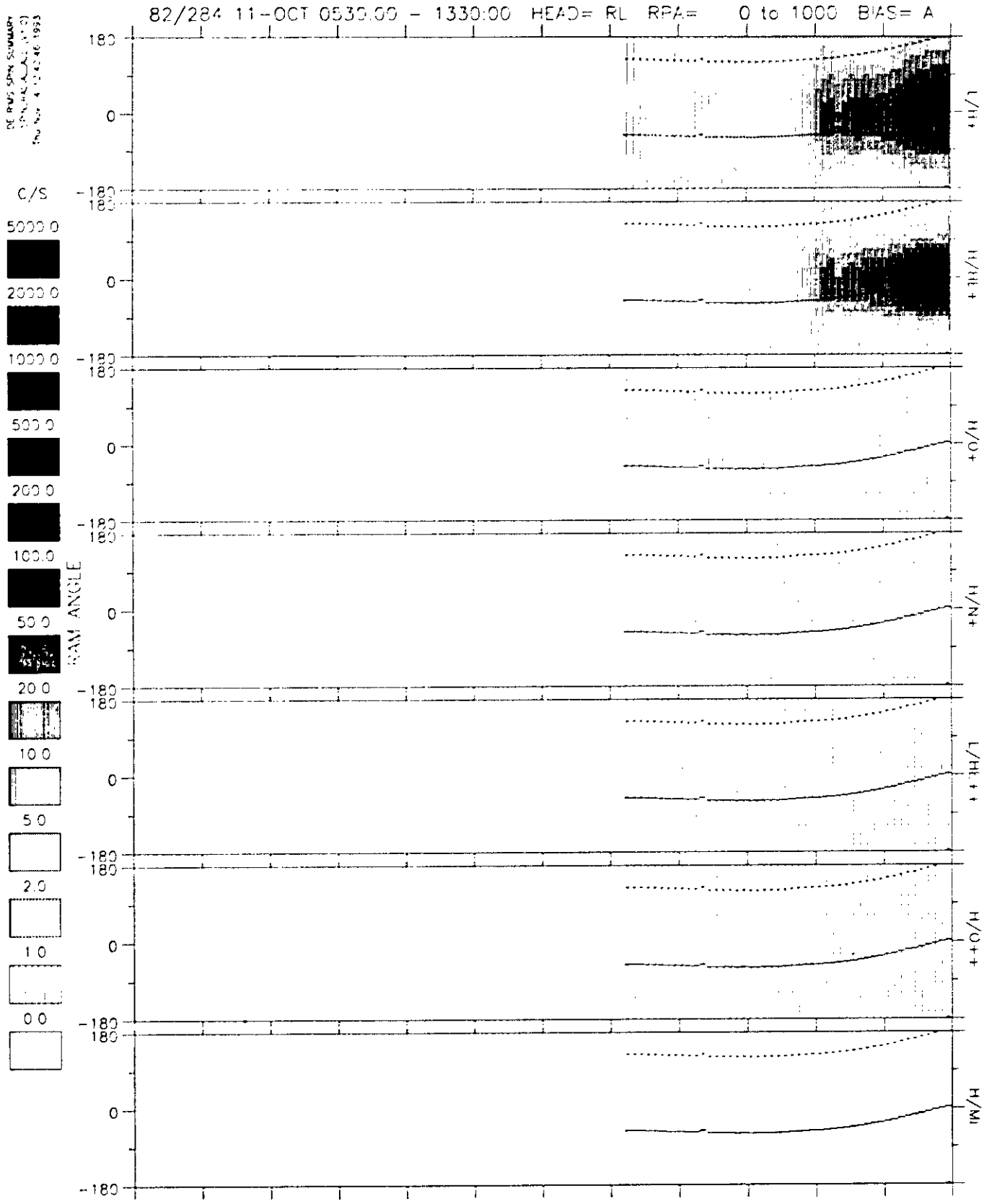
TIME	0000	1020	1100	1140	0000	0000	1340	1420	1500	1540	1620	HHMM
RE	0.0	2.0	1.1	2.4	0.0	0.0	4.5	4.7	4.5	4.1	3.4	RE
L	0.0	3.3	1.1	-0.0	0.0	0.0	8.0	6.3	5.2	4.2	3.5	
MLT	0.0	10.3	21.7	0.6	0.0	0.0	9.6	9.8	9.8	9.8	9.7	HRS
MLAT	0.00	42.36	5.47	*****	0.00	0.00	*****	*****	*****	-8.92	5.85	DEGS
INVLAT	0.0	56.5	17.8	-0.0	0.0	0.0	69.3	66.5	63.9	61.0	57.6	DEGS

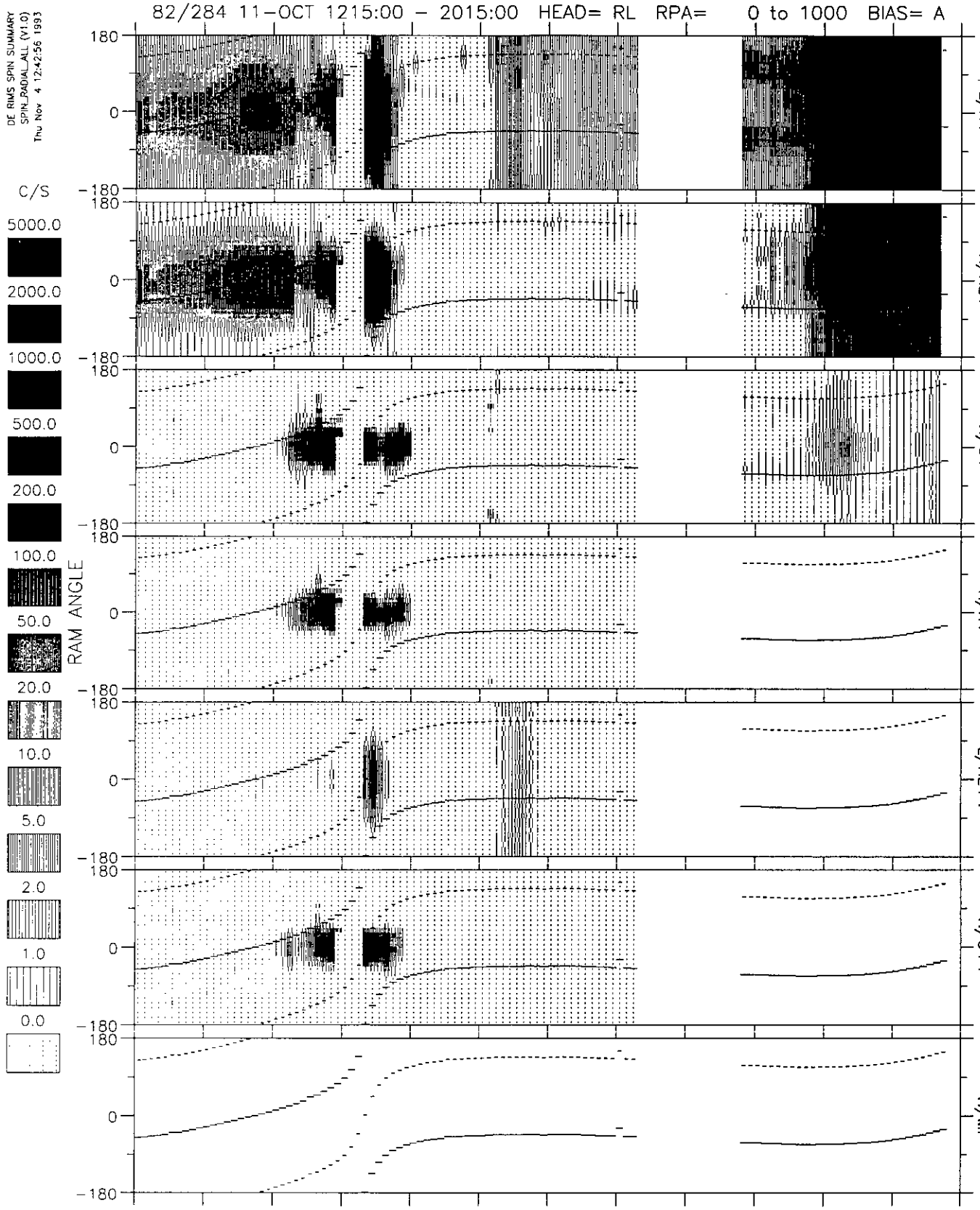


TIME	1655	1735	1815	1855	1935	2015	0000	0000	0000	2255	2335	HHMM
RE	2.5	1.2	1.9	3.1	3.9	4.4	0.0	0.0	0.0	3.7	2.8	RE
L	3.2	27.7	6.8	63.3	24.1	15.0	0.0	0.0	0.0	4.1	2.8	
MLT	9.4	0.2	20.6	14.1	11.5	10.8	0.0	0.0	0.0	9.7	9.5	HRS
MLAT	27.15	74.94	•••••	•••••	•••••	•••••	0.00	0.00	0.00	•••••	1.21	DEGS
INVLAT	55.8	78.9	67.5	82.8	78.3	75.0	0.0	0.0	0.0	60.4	52.9	DEGS

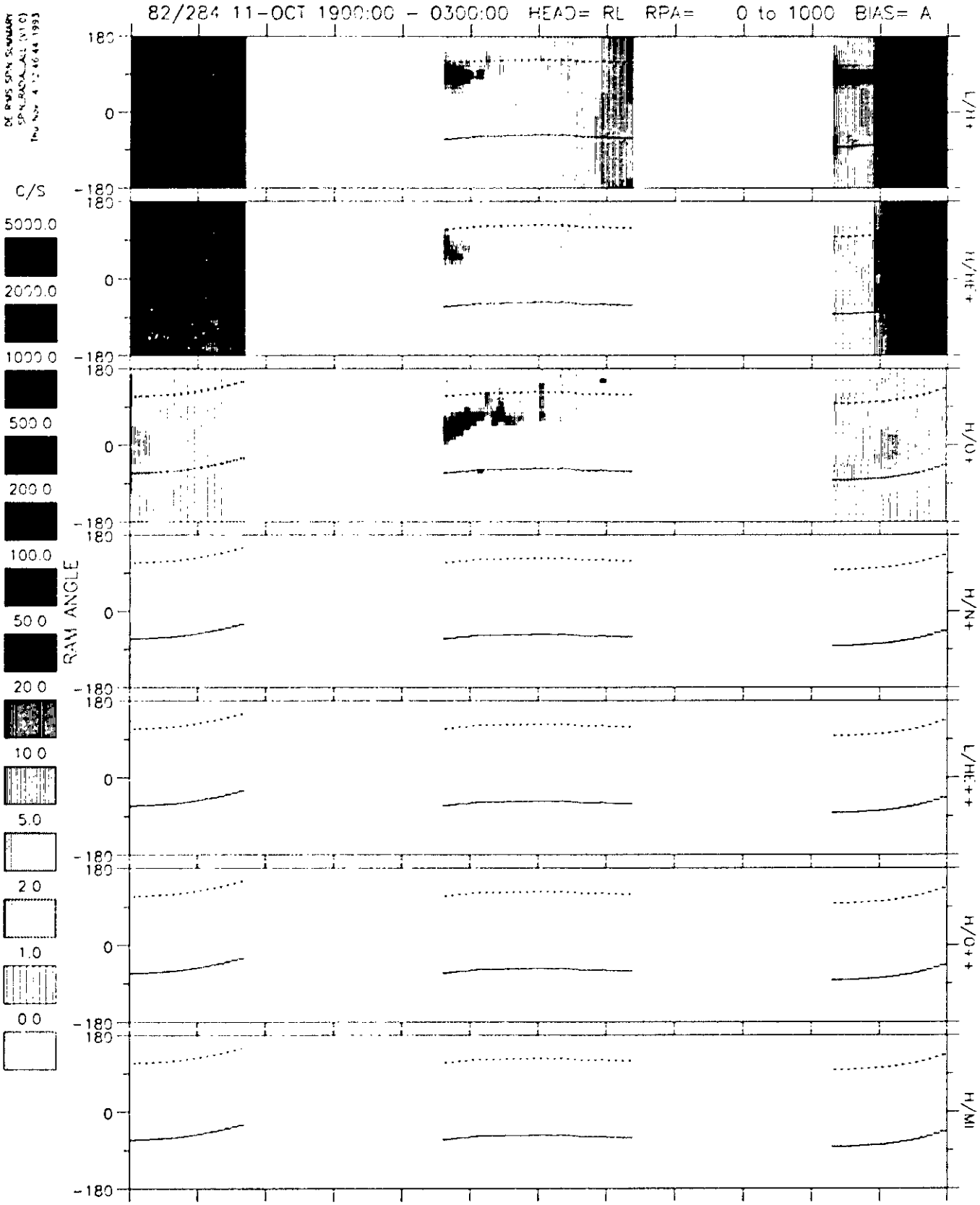


TIME	2310	2350	0030	0110	0150	0230	0310	0350	0430	0000	0000	HHMM
RE	3.4	2.4	1.1	2.0	3.2	4.0	4.5	4.7	4.6	0.0	0.0	RE
L	3.5	2.5	14.0	4.5	100.0	100.0	28.9	14.2	8.7	0.0	0.0	
MLT	9.6	9.4	22.8	21.4	21.4	9.0	9.1	9.1	9.2	0.0	0.0	HRS
MLAT	*****	13.27	76.70	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	57.9	50.3	74.3	62.0	85.2	85.2	79.3	74.6	70.2	0.0	0.0	DEGS

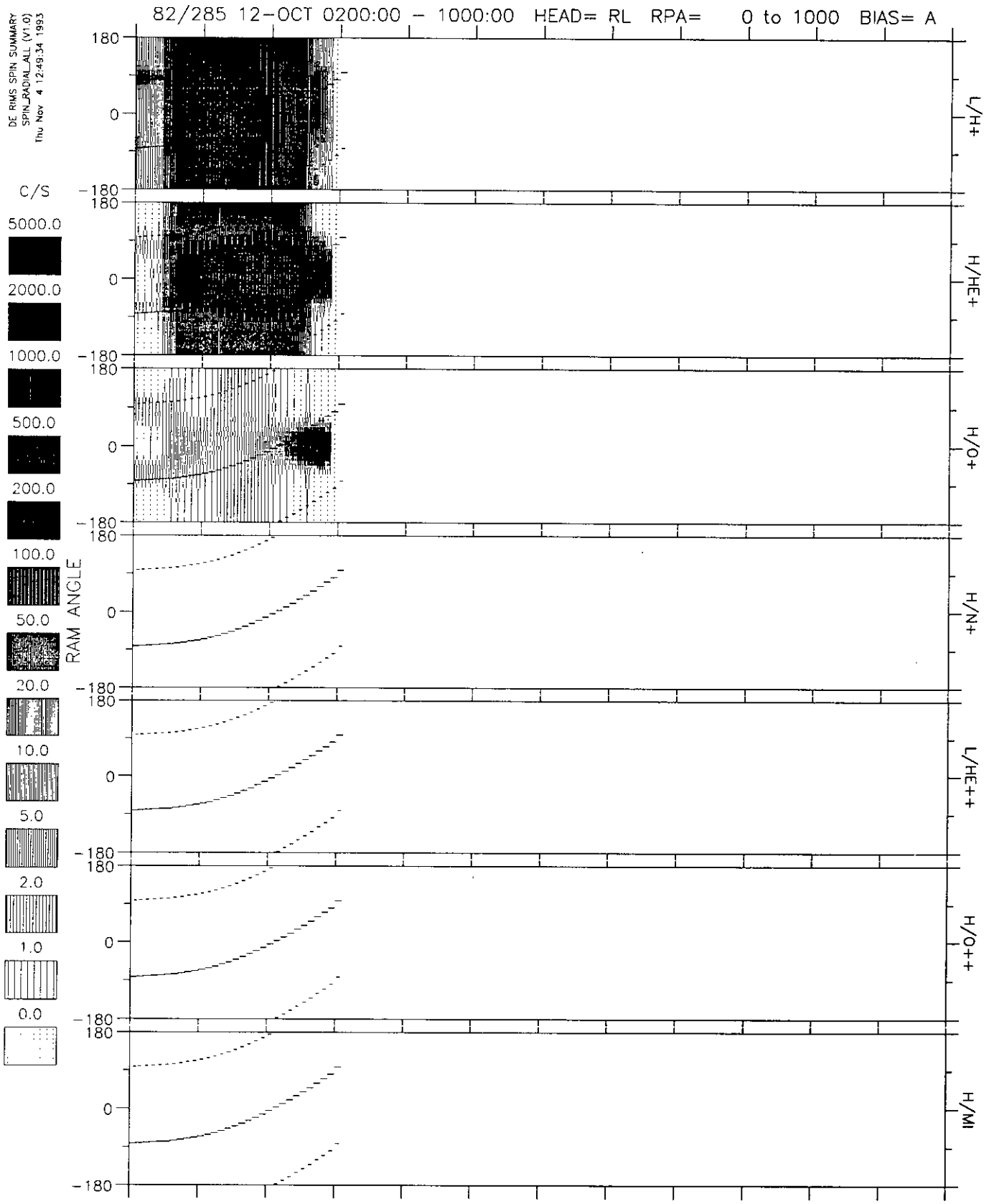

82/284 11-OCT 0530:00 - 1330:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/H+
H/O+
H/N+
L/H++
H/O++
H/M
TIME 0000 0000 0000 0000 0000 0000 0000 1050 1130 1210 1250 HHMM
RE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.7 4.5 4.2 3.5 RE
L 0.0 0.0 0.0 0.0 0.0 0.0 0.0 7.1 5.5 4.4 3.6
MLT 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.3 9.5 9.6 9.7 HRS
MLAT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 ***** ***** ***** 6.06 DEGS
INVLAT 0.0 0.0 0.0 0.0 0.0 0.0 0.0 67.9 64.7 61.5 58.1 DEGS



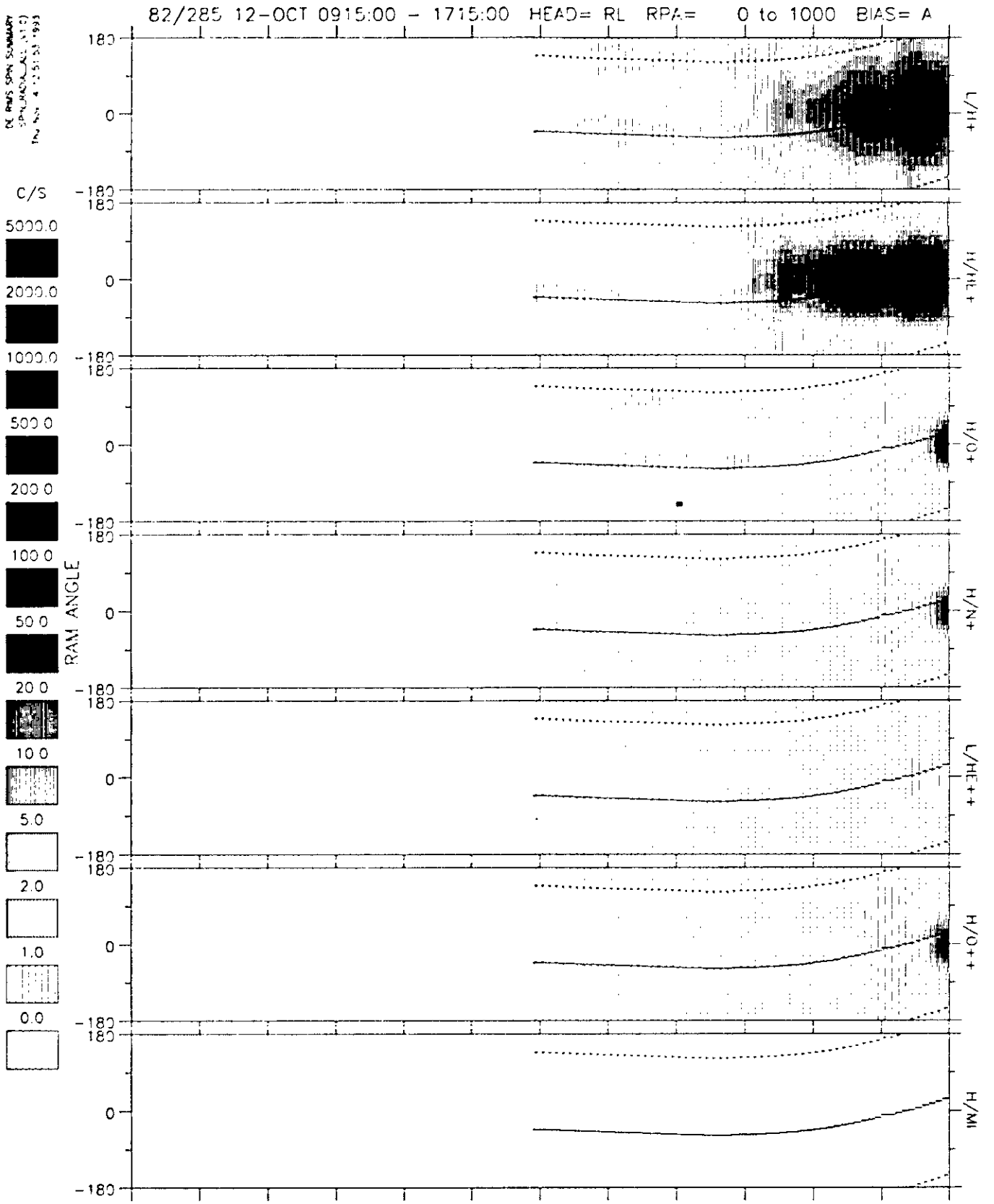
TIME	1255	1335	1415	1455	1535	1615	1655	0000	1815	1855	1935	HHMM
RE	3.4	2.3	1.1	2.2	3.3	4.0	4.5	0.0	4.6	4.2	3.6	RE
L	3.5	3.7	2.0	38.3	36.1	13.7	9.4	0.0	5.9	4.7	3.6	
MLT	9.7	9.7	21.7	20.9	10.7	10.3	10.2	0.0	10.0	9.9	9.7	HRS
MLAT	8.52	38.06	38.35	*****	*****	*****	*****	0.00	*****	*****	-6.21	DEGS
INVLAT	57.7	58.5	44.9	80.7	80.4	74.3	70.9	0.0	65.8	62.6	58.2	DEGS



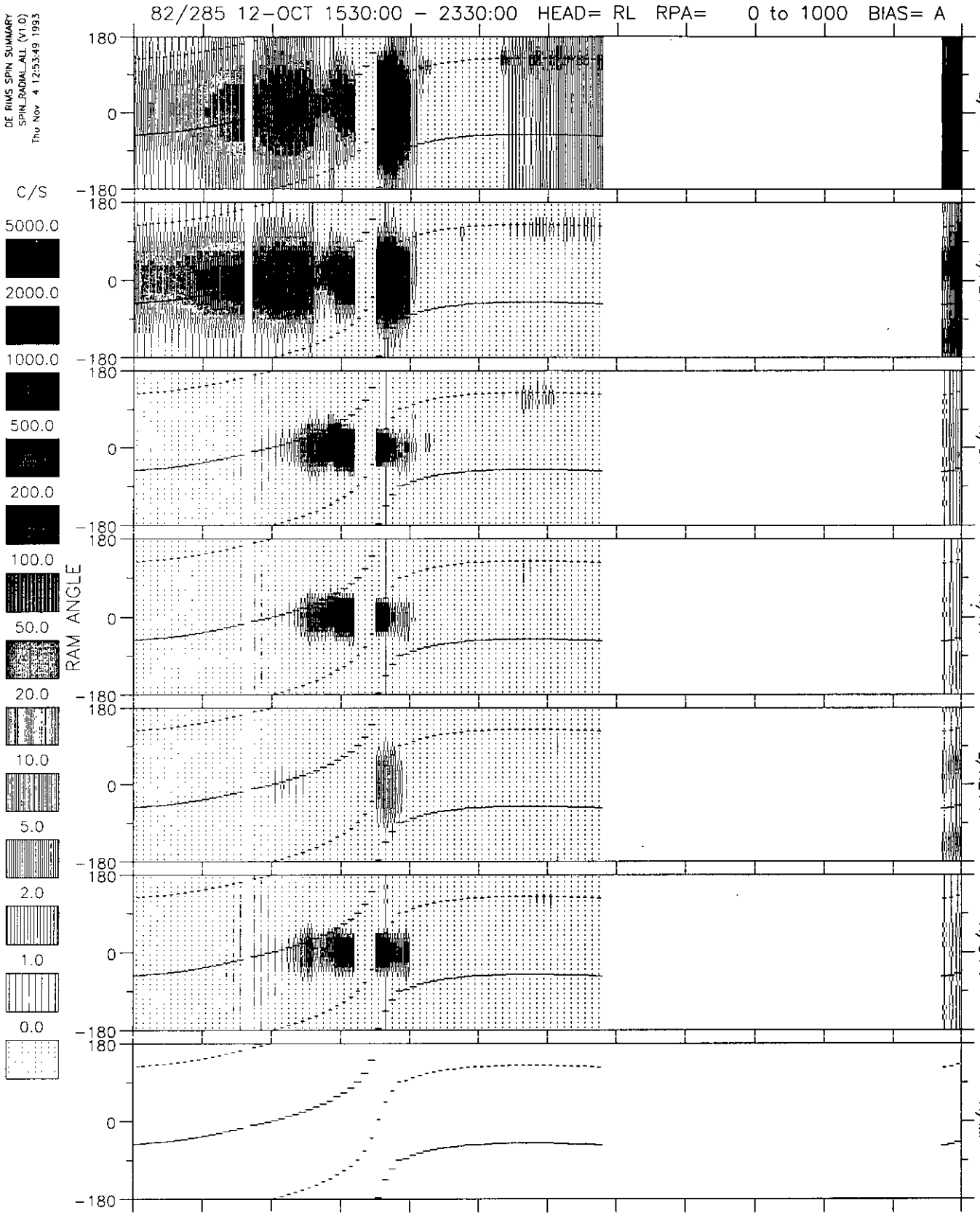
TIME	1940	0000	0000	0000	2220	2300	2340	0000	0000	0000	0220	HHMM
RE	3.5	0.0	0.0	0.0	3.2	4.0	4.4	0.0	0.0	0.0	3.7	RE
L	3.5	0.0	0.0	0.0	88.2	71.2	27.4	0.0	0.0	0.0	4.2	
MLT	9.6	0.0	0.0	0.0	17.2	11.6	10.4	0.0	0.0	0.0	9.5	HRS
MLAT	-4.21	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	*****	DEGS
INVLAT	57.6	0.0	0.0	0.0	83.9	83.2	79.0	0.0	0.0	0.0	60.6	DEGS



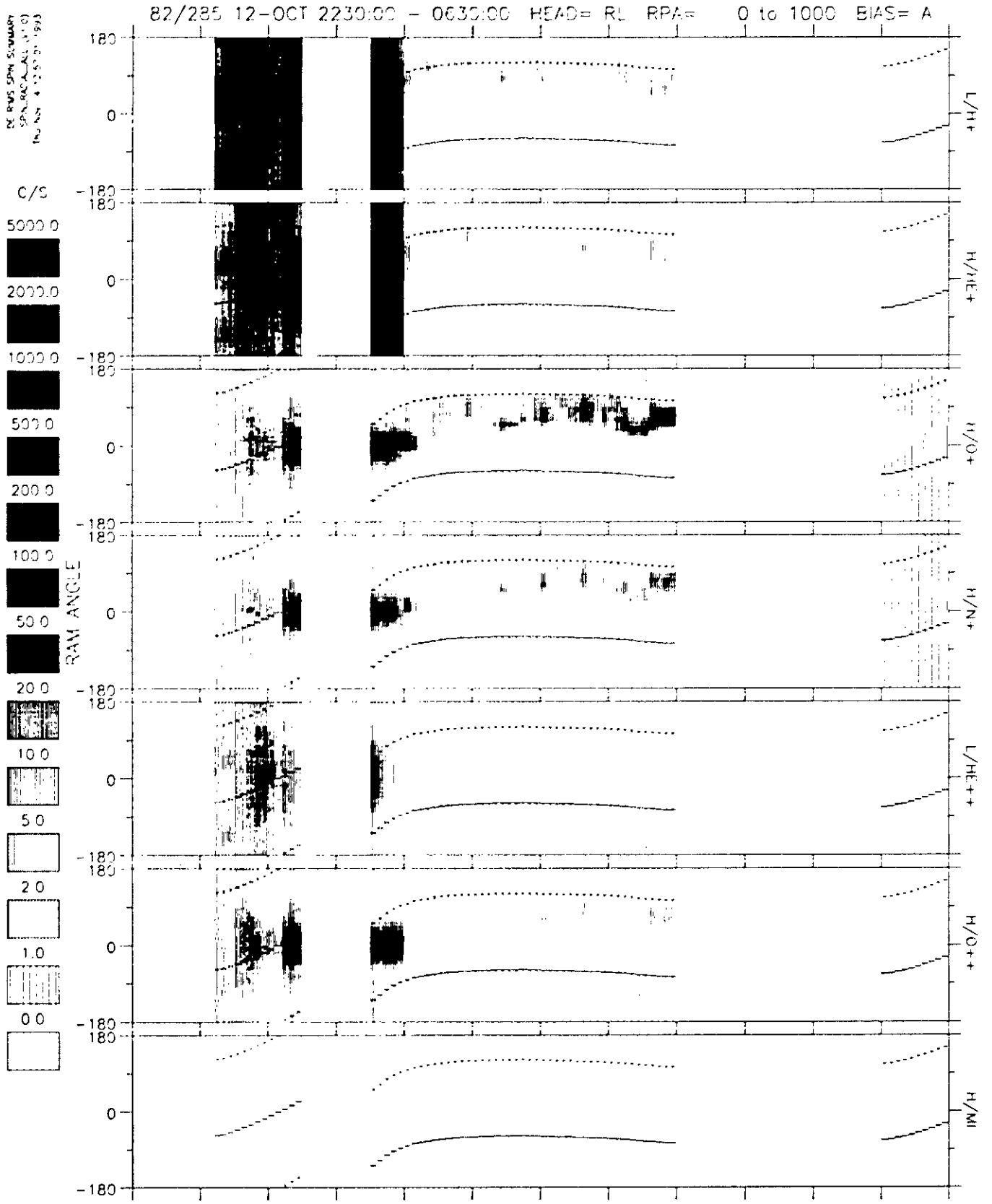
TIME	0240	0320	0400	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	3.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	3.3	2.4	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	9.5	9.7	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	*****	20.14	56.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	56.8	50.1	59.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



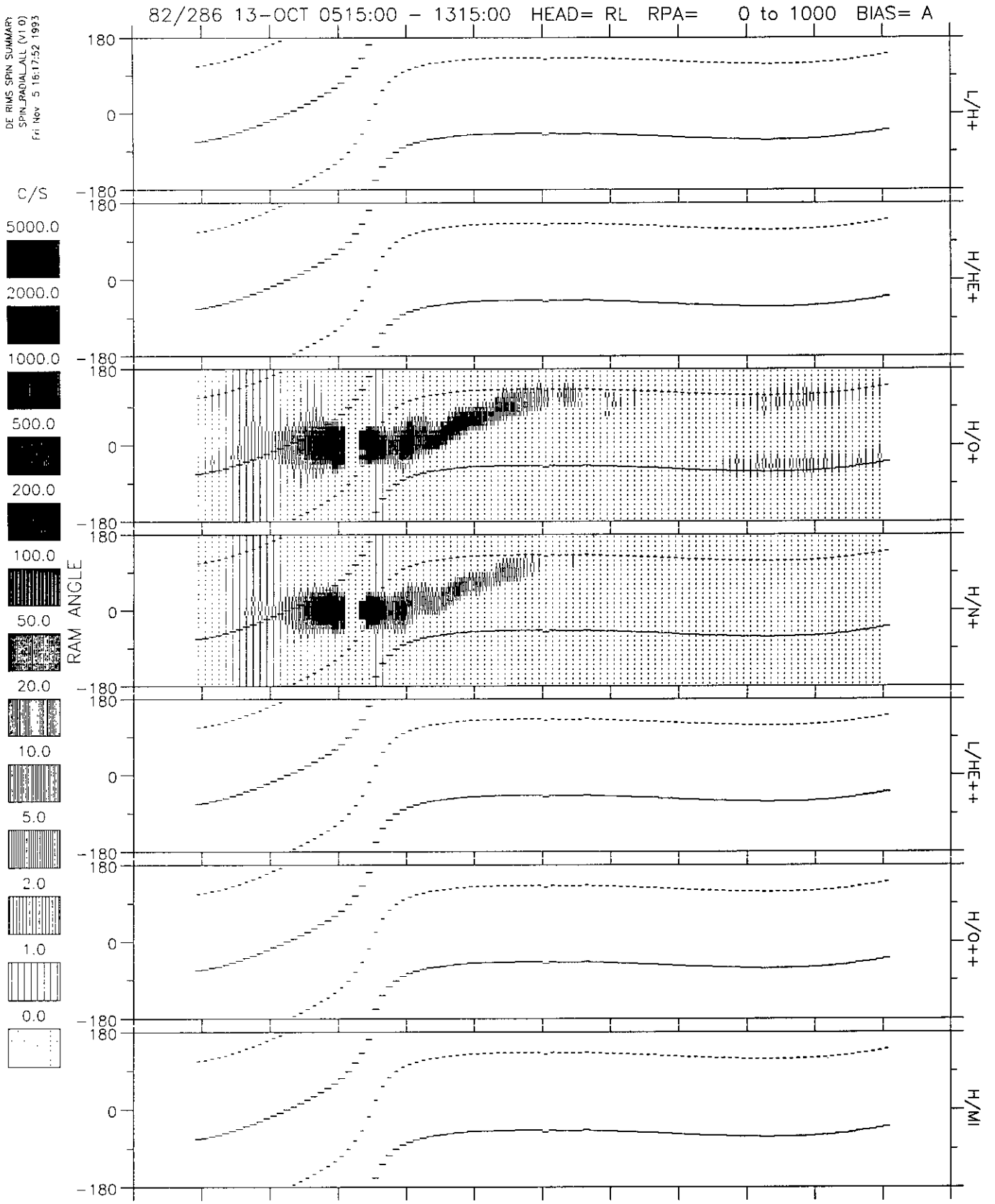
TIME	0000	0000	0000	0000	0000	1315	1355	1435	1515	1555	1635	HHMM
RE	0.0	0.0	0.0	0.0	0.0	4.4	4.6	4.6	4.4	3.8	2.9	RE
L	0.0	0.0	0.0	0.0	0.0	9.6	7.1	5.8	4.7	3.8	3.2	
MLT	0.0	0.0	0.0	0.0	0.0	9.4	9.6	9.7	9.7	9.6	9.5	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	-2.82	15.81	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	71.1	68.0	65.3	62.6	59.3	55.9	DEGS



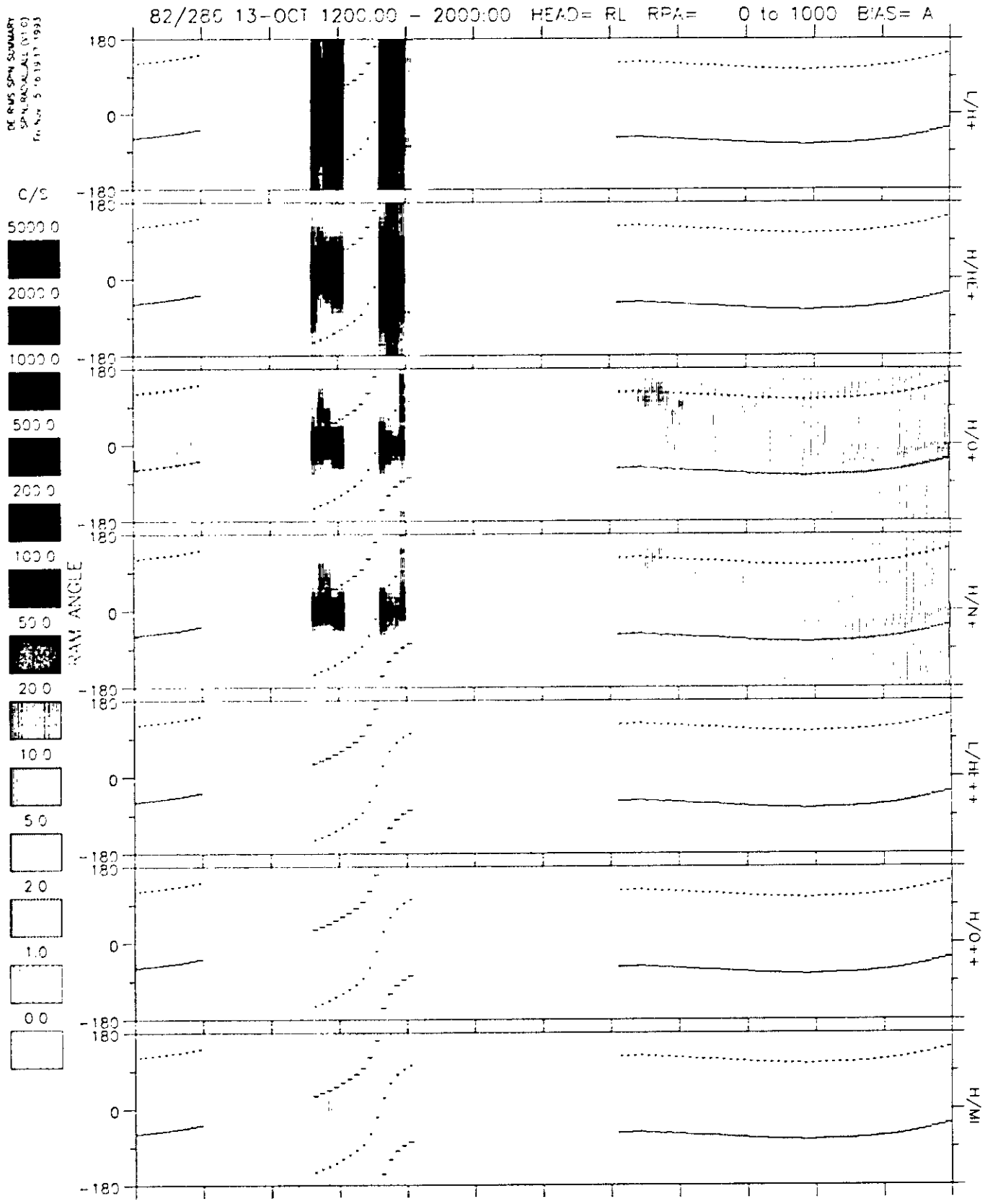
TIME	1610	1650	1730	1810	1850	1930	0000	0000	0000	0000	0000	HHMM
RE	3.5	2.5	1.2	1.9	3.1	3.9	0.0	0.0	0.0	0.0	0.0	RE
L	3.5	3.1	24.0	6.8	65.9	25.3	0.0	0.0	0.0	0.0	0.0	
MLT	9.6	9.3	23.6	20.5	14.1	11.4	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	3.08	26.78	74.18	*****	*****	*****	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	58.0	55.6	78.2	67.5	82.9	78.5	0.0	0.0	0.0	0.0	0.0	DEGS

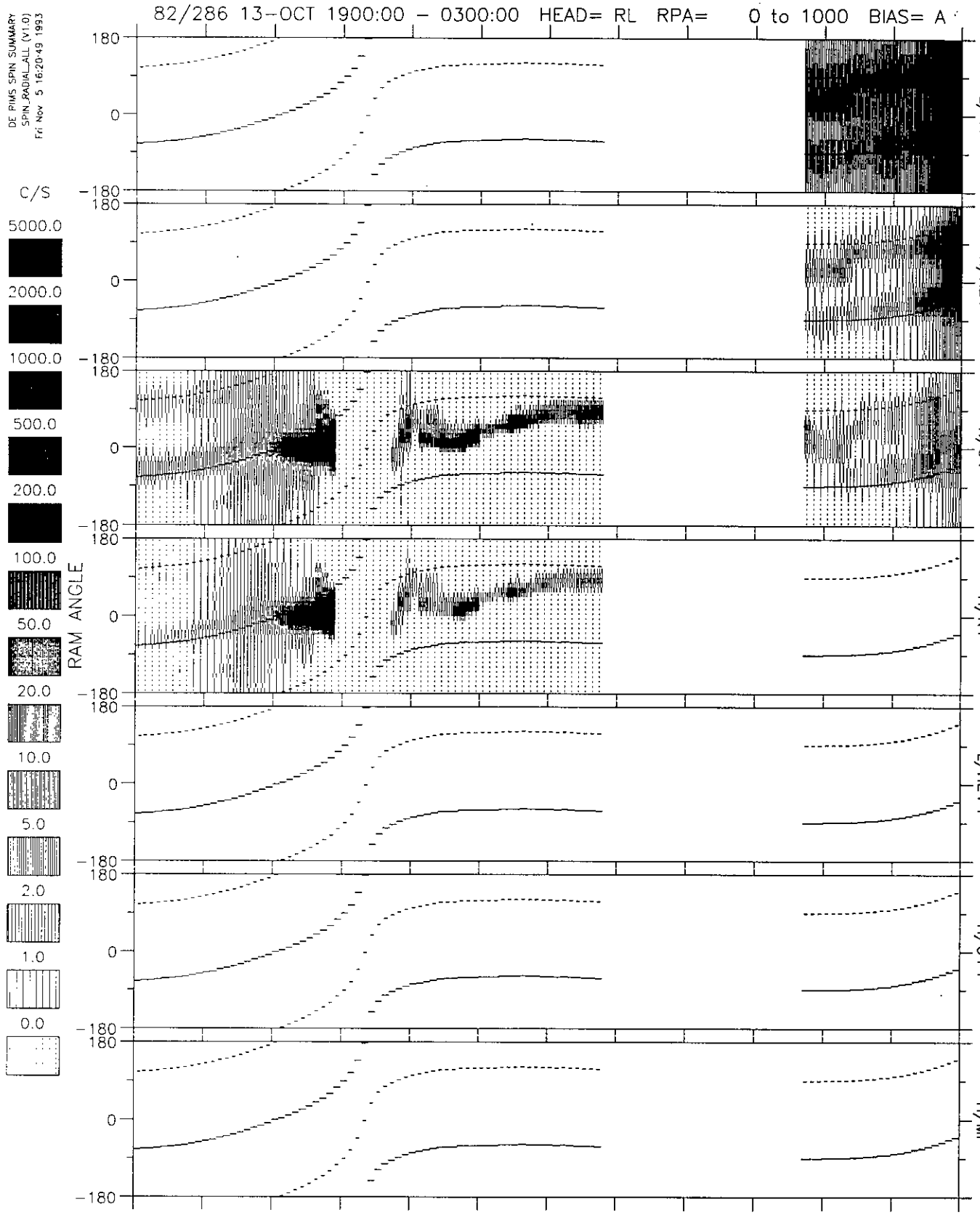


TIME	0000	2350	0000	0110	0150	0230	0310	0000	0000	0000	0550	HHMM
RE	0.0	2.2	0.0	2.2	3.3	4.1	4.5	0.0	0.0	0.0	3.5	RE
L	0.0	2.4	0.0	6.4	100.0	100.0	26.8	0.0	0.0	0.0	3.8	
MLT	0.0	9.3	0.0	21.2	21.5	8.8	8.9	0.0	0.0	0.0	9.5	HRS
MLAT	0.00	18.32	0.00	*****	*****	*****	*****	0.00	0.00	0.00	*****	DEGS
INVLAT	0.0	49.8	0.0	66.7	86.5	84.5	78.9	0.0	0.0	0.0	58.9	DEGS

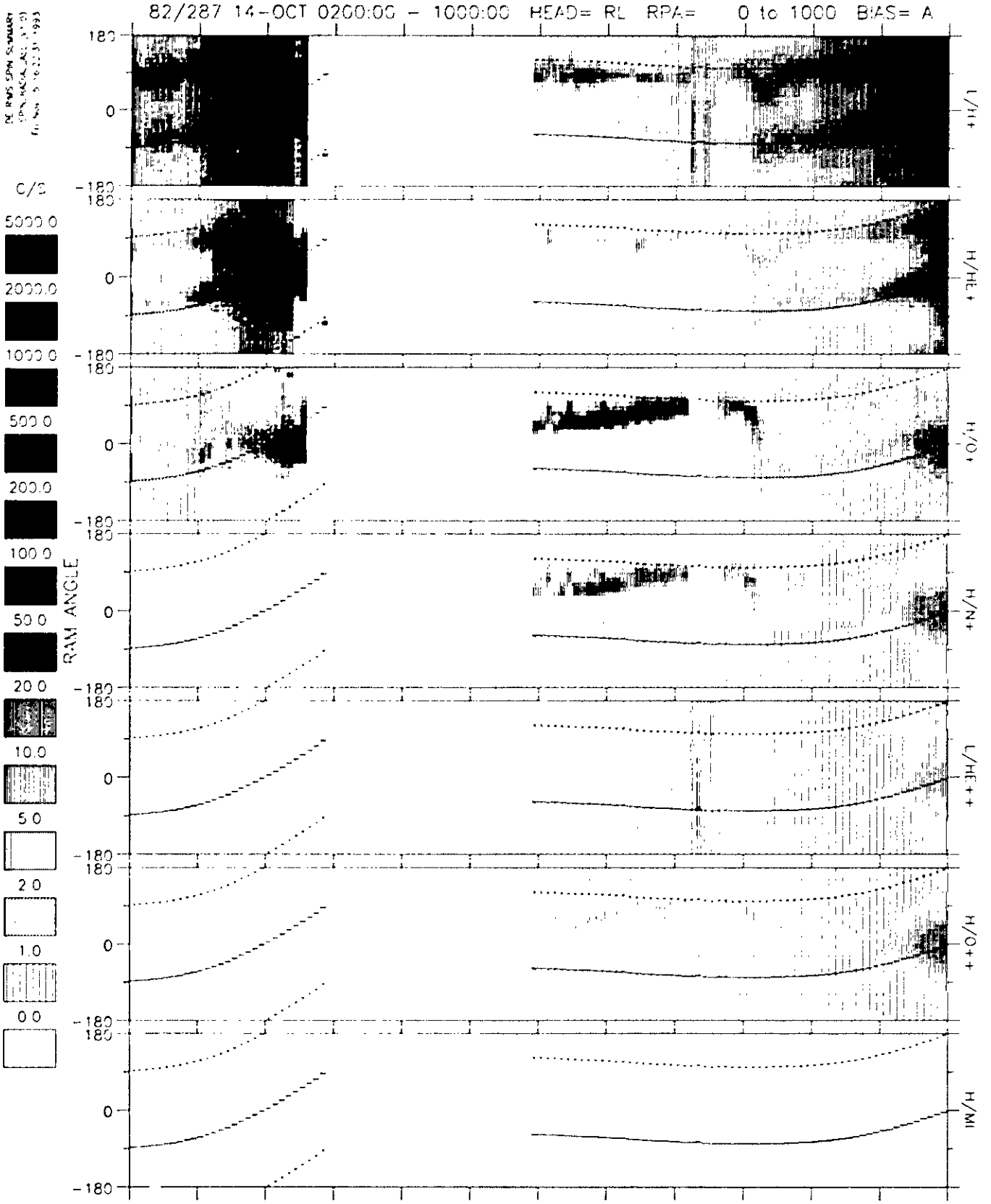


TIME	0555	0635	0715	0755	0835	0915	0955	1035	1115	1155	1235	HHMM
RE	3.4	2.4	1.1	2.0	3.2	4.0	4.5	4.6	4.6	4.3	3.7	RE
L	3.6	2.6	8.3	7.3	59.0	19.5	11.0	7.7	5.9	4.6	3.8	
MLT	9.5	9.9	19.7	22.9	5.3	8.1	8.8	9.1	9.3	9.5	9.5	HRS
MLAT	*****	17.74	67.75	*****	*****	*****	*****	*****	*****	*****	0.51	DEGS
INVLAT	58.1	51.6	69.6	68.3	82.5	76.9	72.4	68.9	65.6	62.3	58.9	DEGS

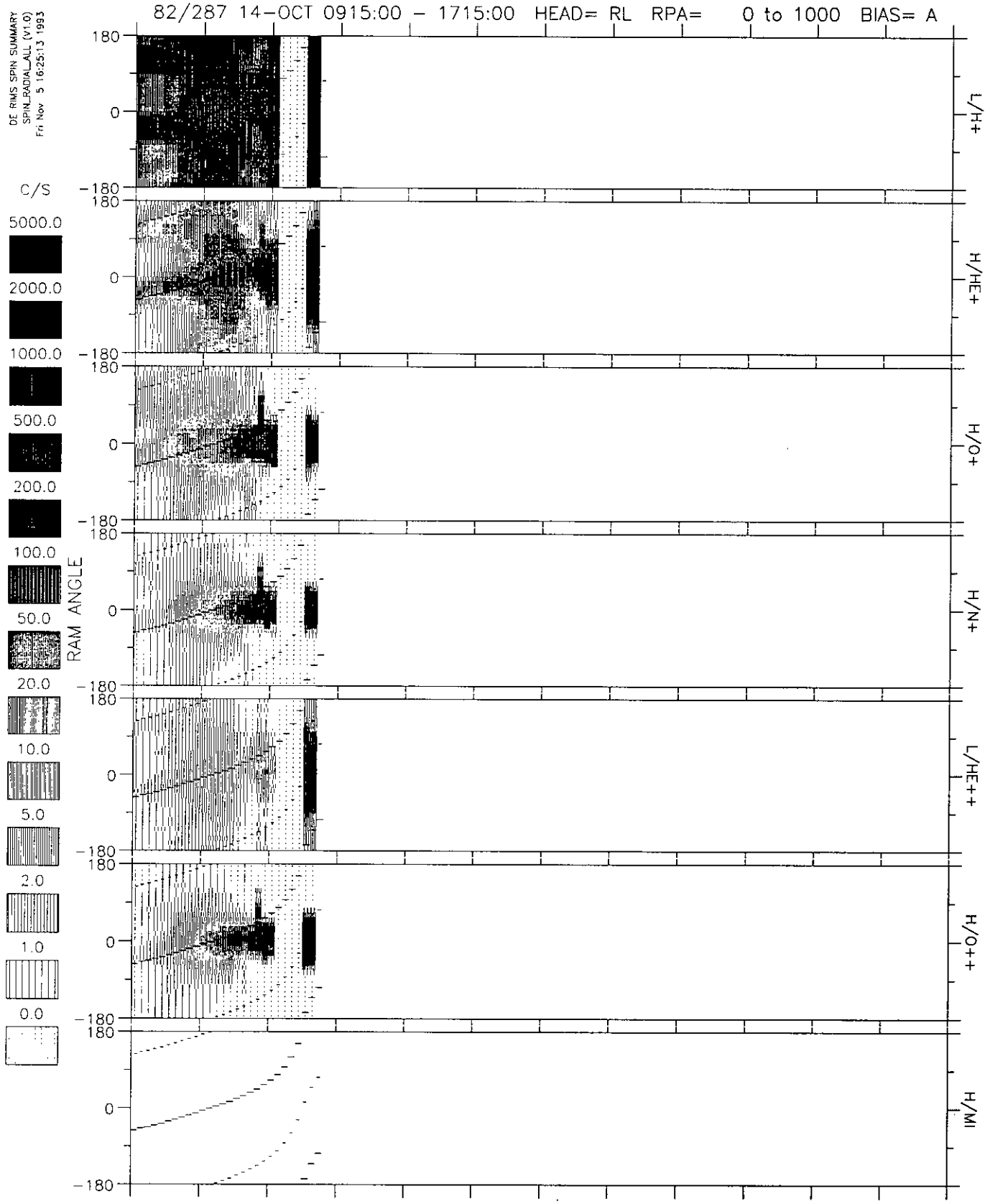

82/286 13-OCT 1200:00 - 2000:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/N
TIME 0000 0000 1400 1440 0000 0000 0000 1720 1800 1840 1920 HHMM
RE 0.0 0.0 1.2 1.7 0.0 0.0 0.0 4.6 4.6 4.3 3.8 RE
L 0.0 0.0 85.2 5.0 0.0 0.0 0.0 7.9 6.3 5.1 3.9
MLT 0.0 0.0 21.7 21.3 0.0 0.0 0.0 10.1 9.9 9.8 9.6 HRS
MLAT 0.00 0.00 80.43 ***** 0.00 0.00 0.00 ***** ***** ***** ***** DEGS
INVLAT 0.0 0.0 83.9 63.5 0.0 0.0 0.0 69.2 66.6 63.6 59.5 DEGS



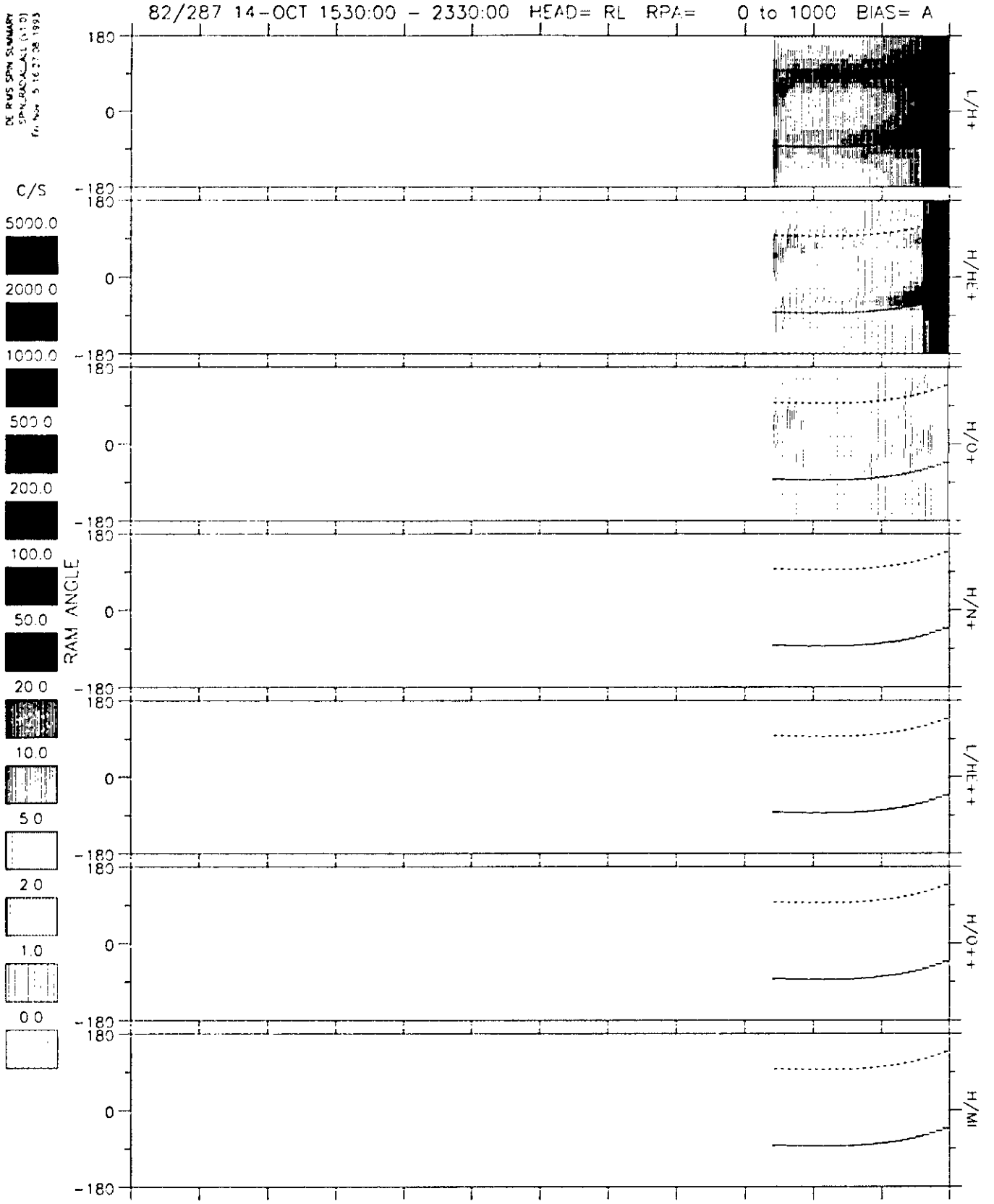
TIME	1940	2020	2100	2140	2220	2300	0000	0000	0000	0140	0220	HHMM
RE	3.4	2.3	1.1	2.1	3.3	4.0	0.0	0.0	0.0	4.2	3.6	RE
L	3.3	2.6	2.6	7.1	-0.0	66.5	0.0	0.0	0.0	6.1	3.9	
MLT	9.5	9.1	22.4	20.3	16.4	11.3	0.0	0.0	0.0	9.4	9.4	HRS
MLAT	-2.75	23.65	54.08	*****	*****	*****	0.00	0.00	0.00	*****	*****	DEGS
INVLAT	56.9	52.0	52.0	67.9	-0.0	82.9	0.0	0.0	0.0	66.2	59.8	DEGS

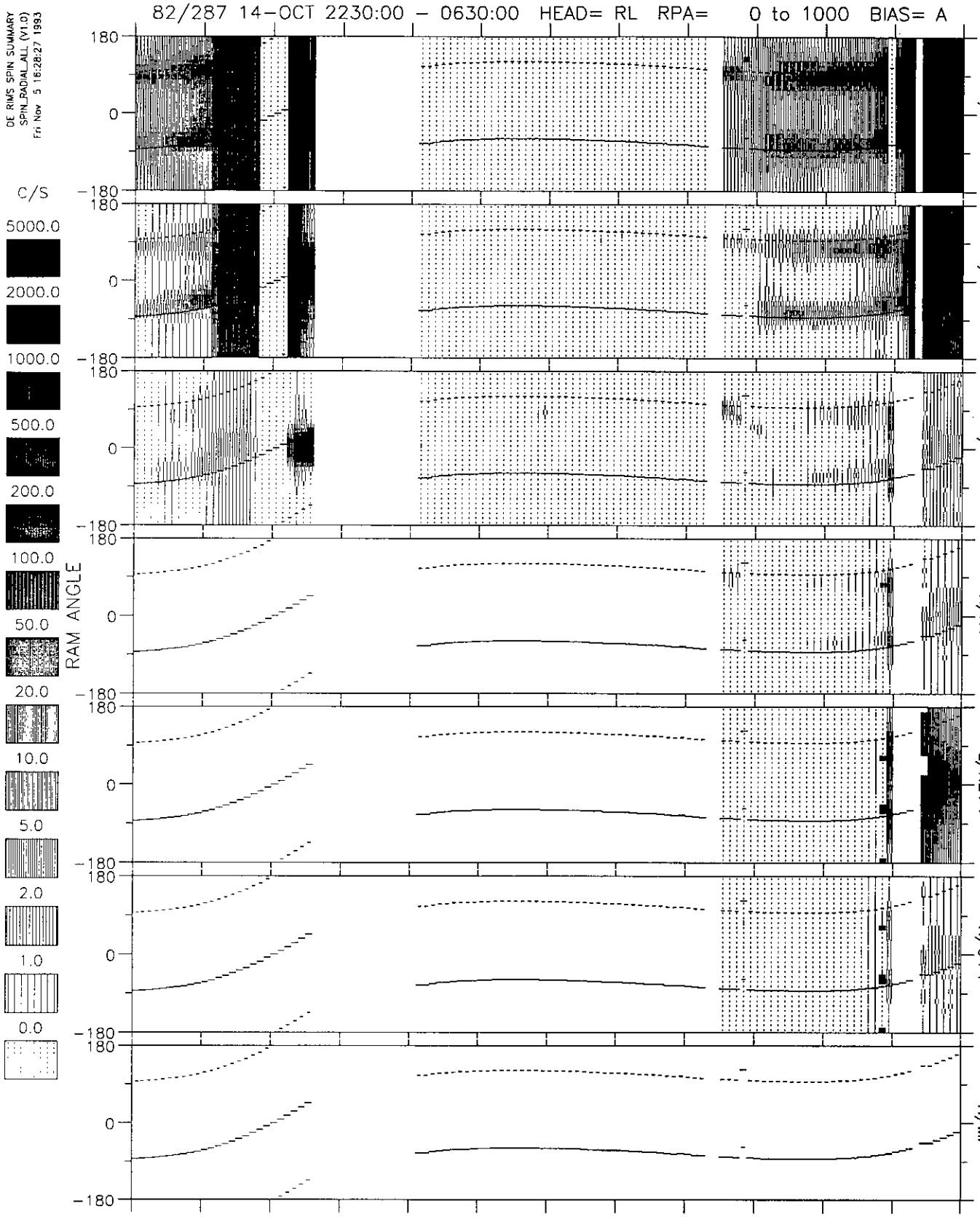


TIME	0240	0320	0000	0000	0000	0000	0640	0720	0800	0840	0920	HHMM
RE	3.1	2.0	0.0	0.0	0.0	4.2	4.5	4.7	4.5	4.1	3.4	RE
L	3.1	2.5	0.0	0.0	0.0	30.4	14.9	9.1	6.4	4.7	3.5	
MLT	9.4	9.6	0.0	0.0	0.0	7.8	8.5	8.8	9.1	9.3	9.6	HRS
MLAT	-9.59	26.83	0.00	0.00	0.00	*****	*****	*****	*****	*****	0.26	DEGS
INVLAT	55.7	50.8	0.0	0.0	0.0	79.5	75.0	70.7	66.7	62.5	57.5	DEGS

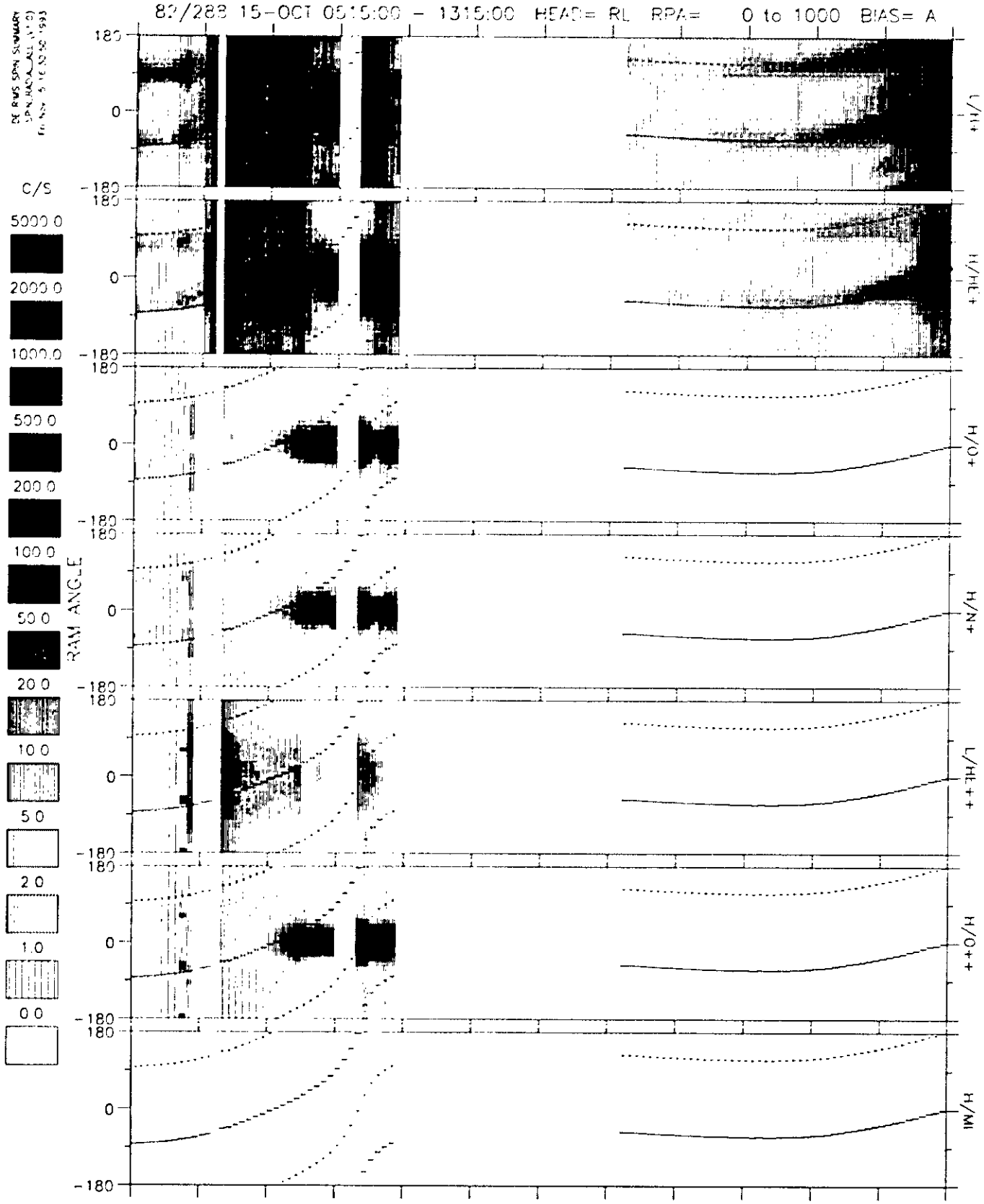


TIME	0955	1035	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	2.9	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	9.8	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	24.72	70.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	53.9	75.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

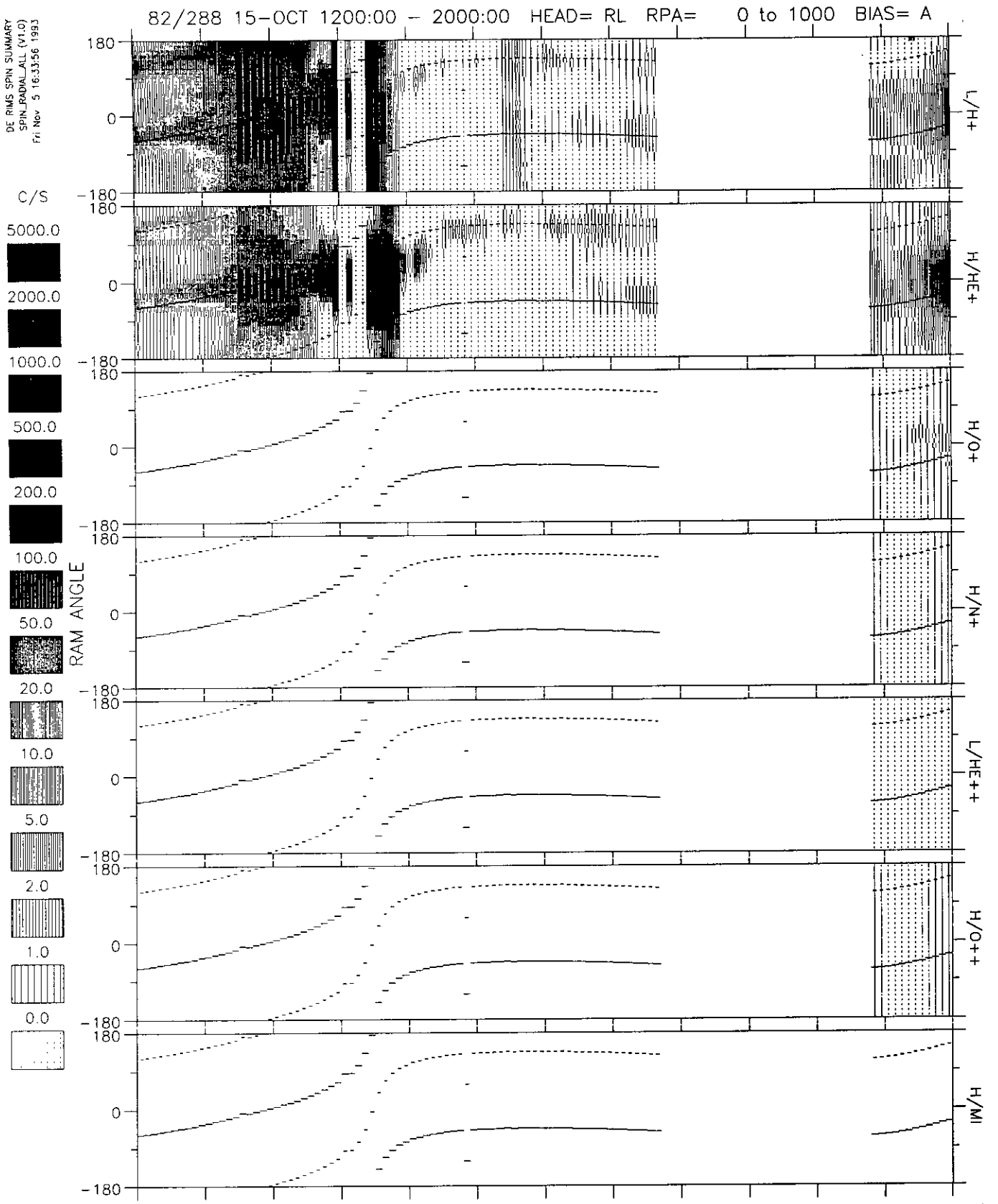

82/287 14-OCT 1530:00 - 2330:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M
TIME 0000 0000 0000 0000 0000 0000 0000 0000 0000 2210 2250 HHMM
RE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.3 3.6 RE
L 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5.8 3.9
MLT 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 9.6 9.4 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 0.0 0.0 65.4 59.8 DEGS



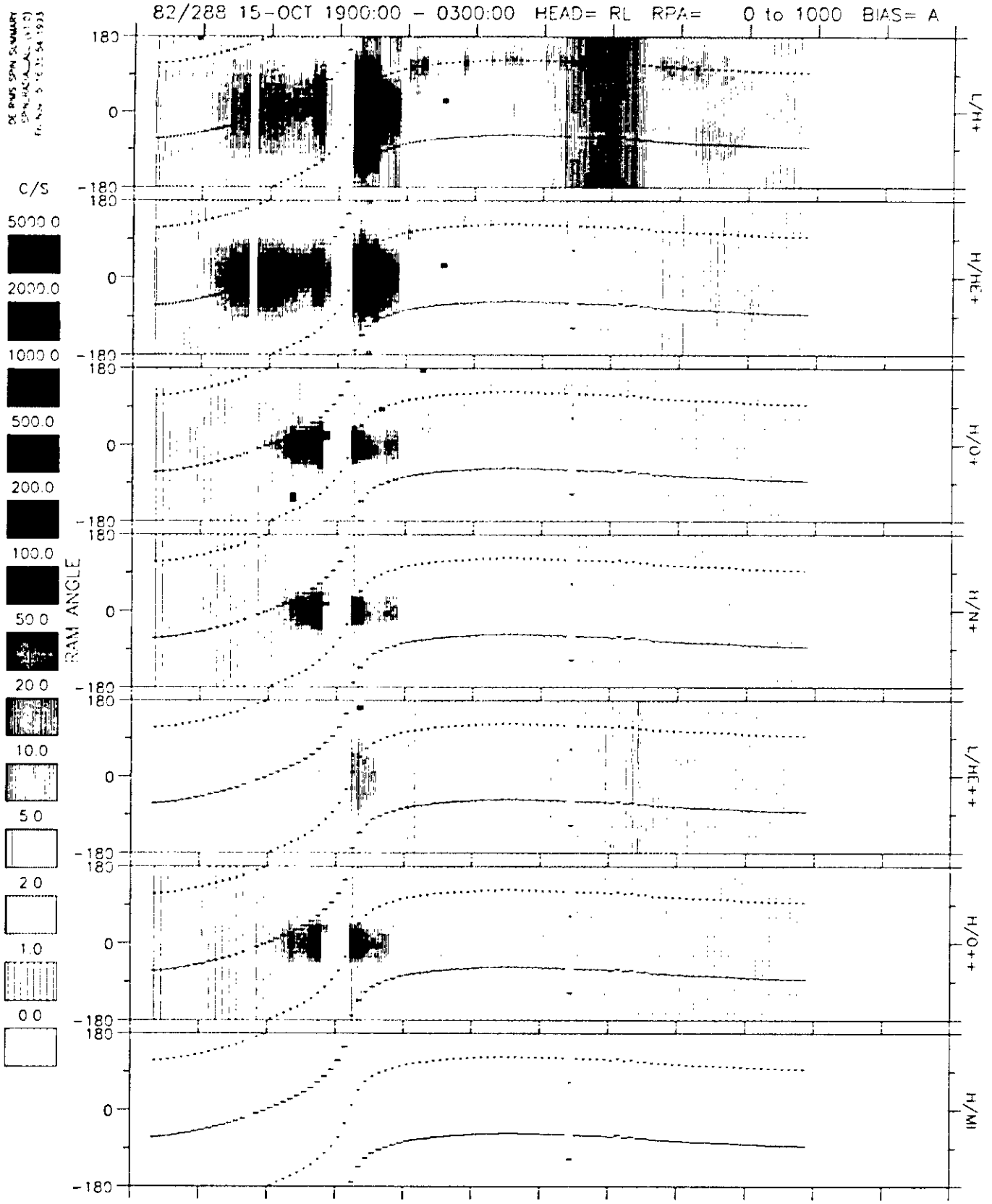
TIME	2310	2350	0000	0000	0150	0230	0310	0350	0430	0510	0550	HHMM
RE	3.2	2.0	0.0	0.0	3.4	4.1	4.5	4.7	4.5	4.1	3.4	RE
L	3.2	2.4	0.0	0.0	100.0	90.1	25.0	12.9	8.0	5.3	3.6	
MLT	9.3	9.1	0.0	0.0	21.8	8.6	8.8	8.9	9.0	9.2	9.4	HRS
MLAT	-8.70	24.17	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	56.0	49.9	0.0	0.0	87.7	83.9	78.5	73.9	69.3	64.3	58.1	DEGS



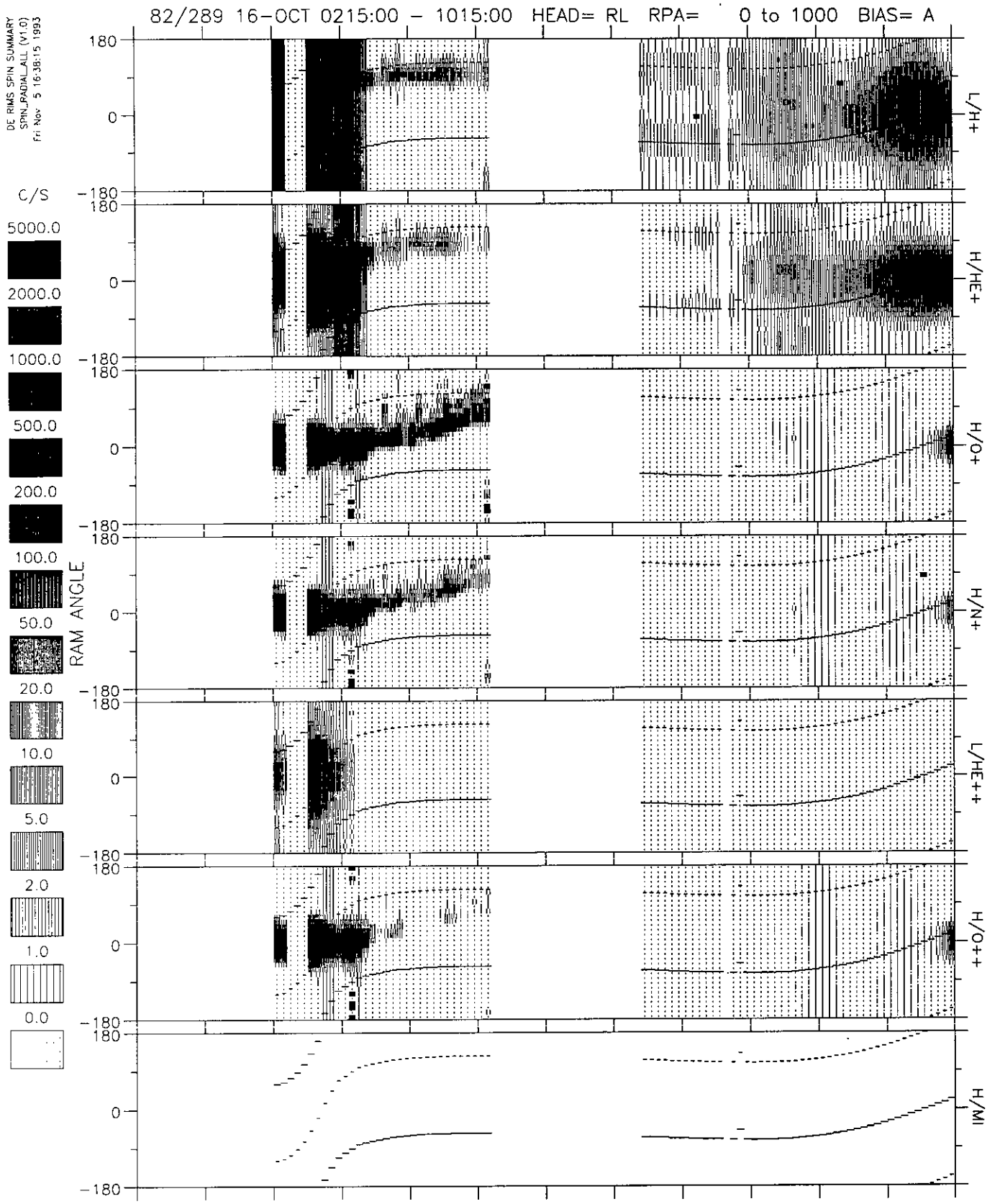
TIME	0555	0635	0715	0000	0000	0000	0000	1035	1115	1155	1235	HHMM
RE	3.3	2.2	1.1	0.0	0.0	0.0	0.0	4.7	4.6	4.2	3.6	RE
L	3.4	2.6	2.1	0.0	0.0	0.0	0.0	7.5	5.7	4.5	3.6	
MLT	9.4	9.9	20.8	0.0	0.0	0.0	0.0	9.0	9.2	9.4	9.4	HRS
MLAT	-8.20	23.17	44.53	0.00	0.00	0.00	0.00	*****	*****	*****	2.76	DEGS
INVLAT	57.2	51.4	45.9	0.0	0.0	0.0	0.0	68.6	65.3	62.0	58.4	DEGS



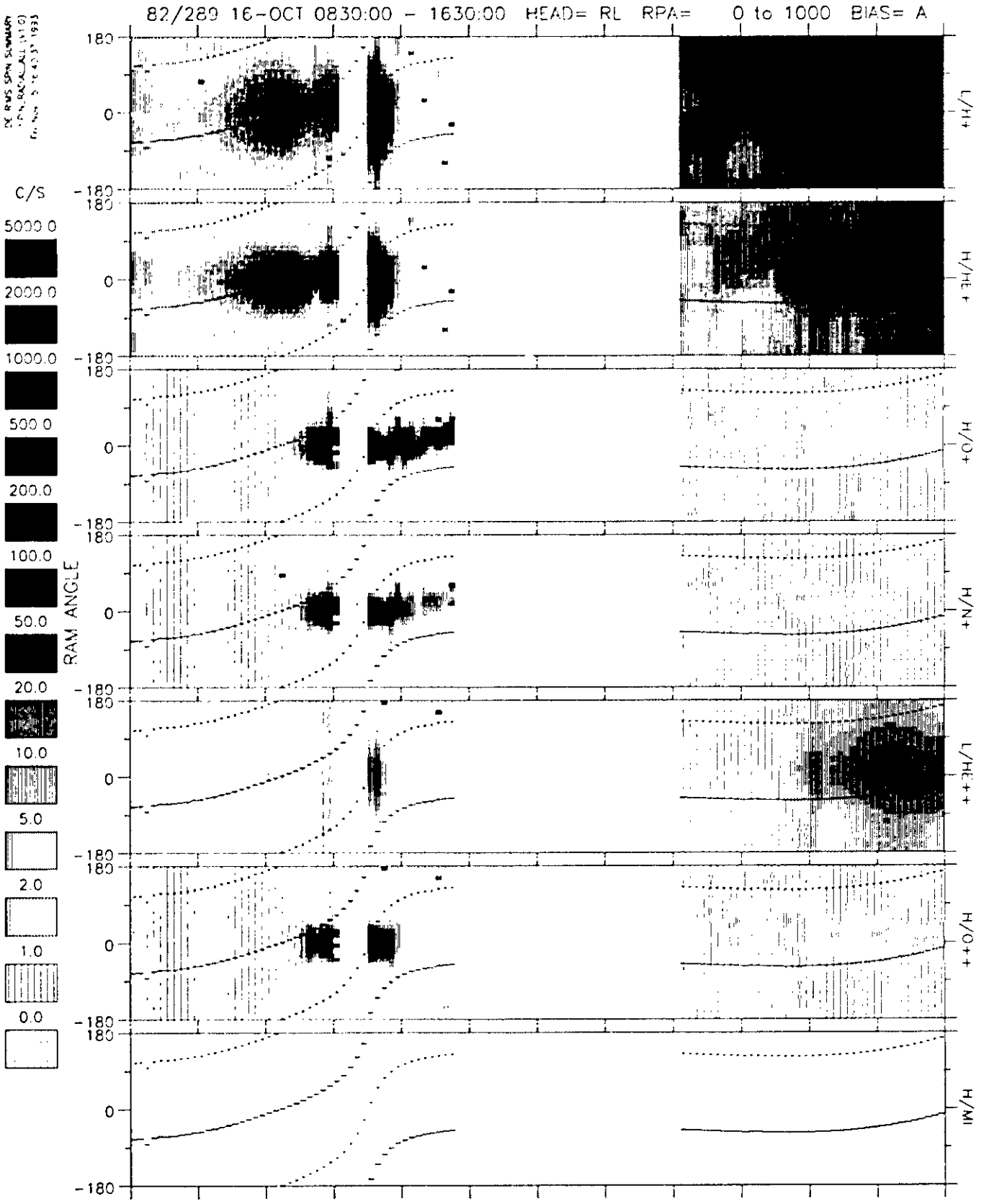
TIME	1240	1320	1400	1440	1520	1600	1640	0000	0000	0000	1920	HHMM
RE	3.5	2.4	1.1	2.0	3.2	4.0	4.4	0.0	0.0	0.0	3.7	RE
L	3.5	3.4	6.1	16.3	53.3	15.8	10.2	0.0	0.0	0.0	3.8	
MLT	9.4	9.5	21.5	20.9	10.8	10.2	10.0	0.0	0.0	0.0	9.5	HRS
MLAT	5.16	32.28	59.71	*****	*****	*****	*****	0.00	0.00	0.00	-9.33	DEGS
INVLAT	57.9	57.1	66.0	75.6	82.1	75.4	71.8	0.0	0.0	0.0	58.9	DEGS



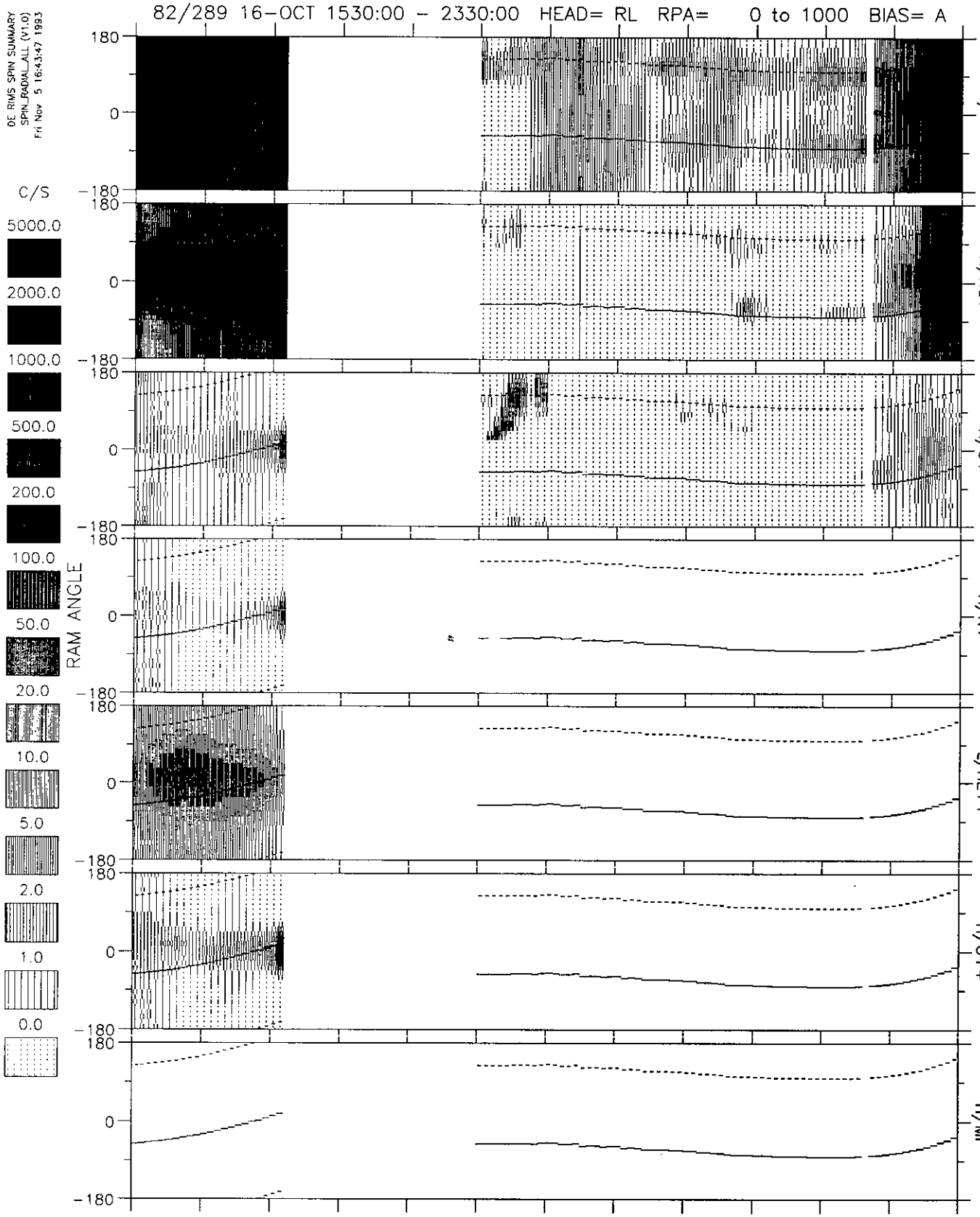
TIME	1940	2020	2100	2140	2220	2300	2340	0020	0100	0000	0000	HHMM
RE	3.2	2.1	1.1	2.3	3.3	4.1	4.5	4.7	4.5	0.0	0.0	RE
L	3.2	2.6	1.2	9.9	100.0	62.0	25.5	14.4	9.1	0.0	0.0	
MLT	9.3	8.9	21.7	20.0	16.1	11.0	10.0	9.6	9.3	0.0	0.0	HRS
MLAT	-1.02	28.94	30.26	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	56.1	52.1	26.6	71.4	84.8	82.7	78.6	74.7	70.6	0.0	0.0	DEGS



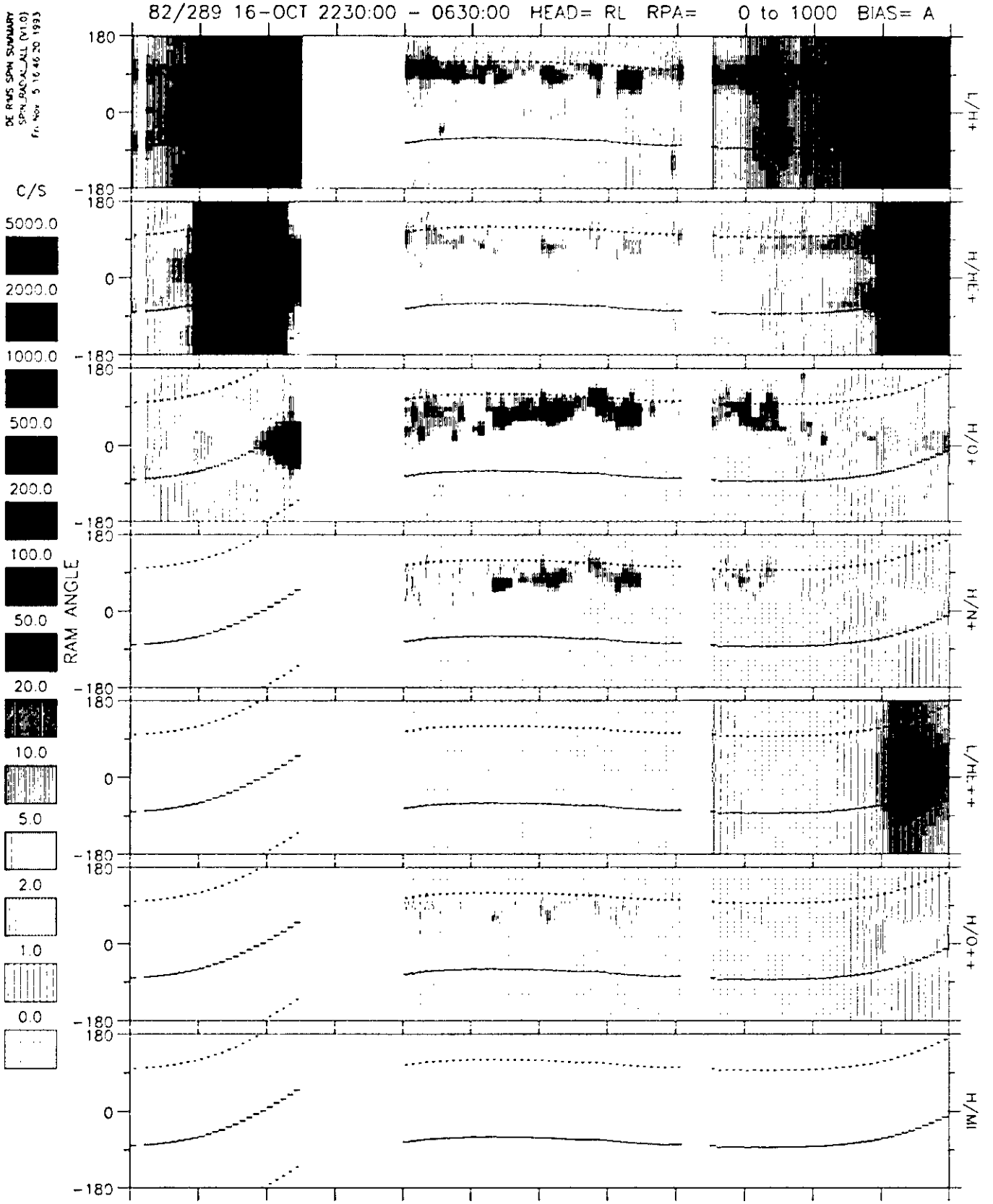
TIME	0000	0335	0415	0455	0535	0000	0000	0735	0815	0855	0935	HHMM
RE	0.0	1.3	1.8	3.0	3.9	0.0	0.0	4.6	4.3	3.8	2.9	RE
L	0.0	22.2	2.9	53.7	57.5	0.0	0.0	7.6	5.5	4.0	3.0	
MLT	0.0	10.6	21.8	0.3	6.7	0.0	0.0	8.9	9.1	9.3	9.6	HRS
MLAT	0.00	72.95	*****	*****	*****	0.00	0.00	*****	*****	-9.62	12.12	DEGS
INVLAT	0.0	77.7	54.0	82.2	82.4	0.0	0.0	68.8	64.7	60.1	54.9	DEGS



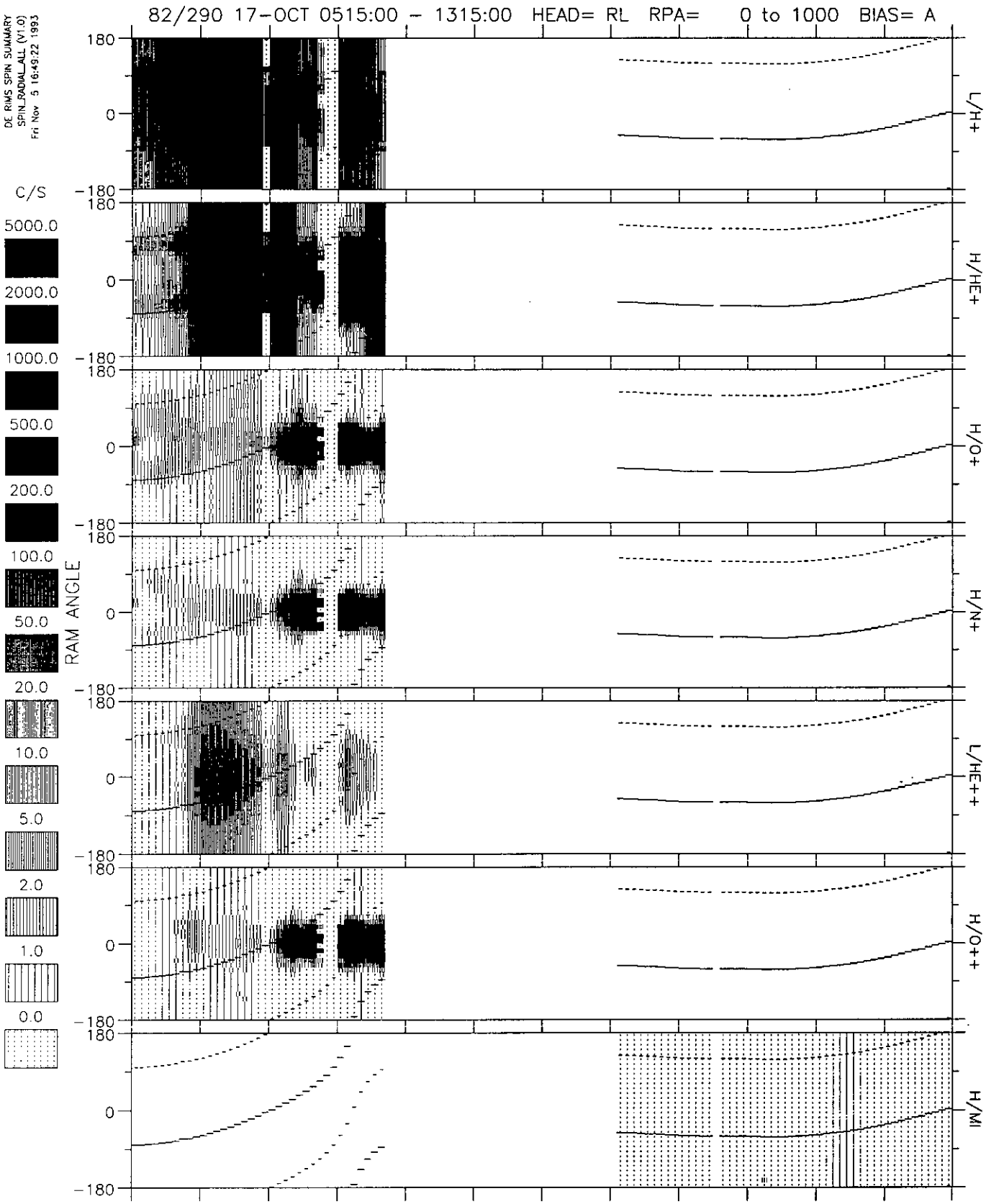
TIME	0910	0950	1030	1110	0000	0000	0000	0000	1430	1510	1550	HHMM
RE	3.5	2.5	1.2	1.9	0.0	0.0	0.0	0.0	4.6	4.3	3.7	RE
L	3.6	2.9	14.0	10.8	0.0	0.0	0.0	0.0	5.7	4.6	3.7	
MLT	9.4	9.7	19.8	22.3	0.0	0.0	0.0	0.0	9.4	9.4	9.4	HRS
MLAT	-2.61	24.54	70.01	*****	0.00	0.00	0.00	0.00	*****	*****	-2.13	DEGS
INVLAT	58.2	53.8	74.4	72.3	0.0	0.0	0.0	0.0	65.2	62.3	58.8	DEGS



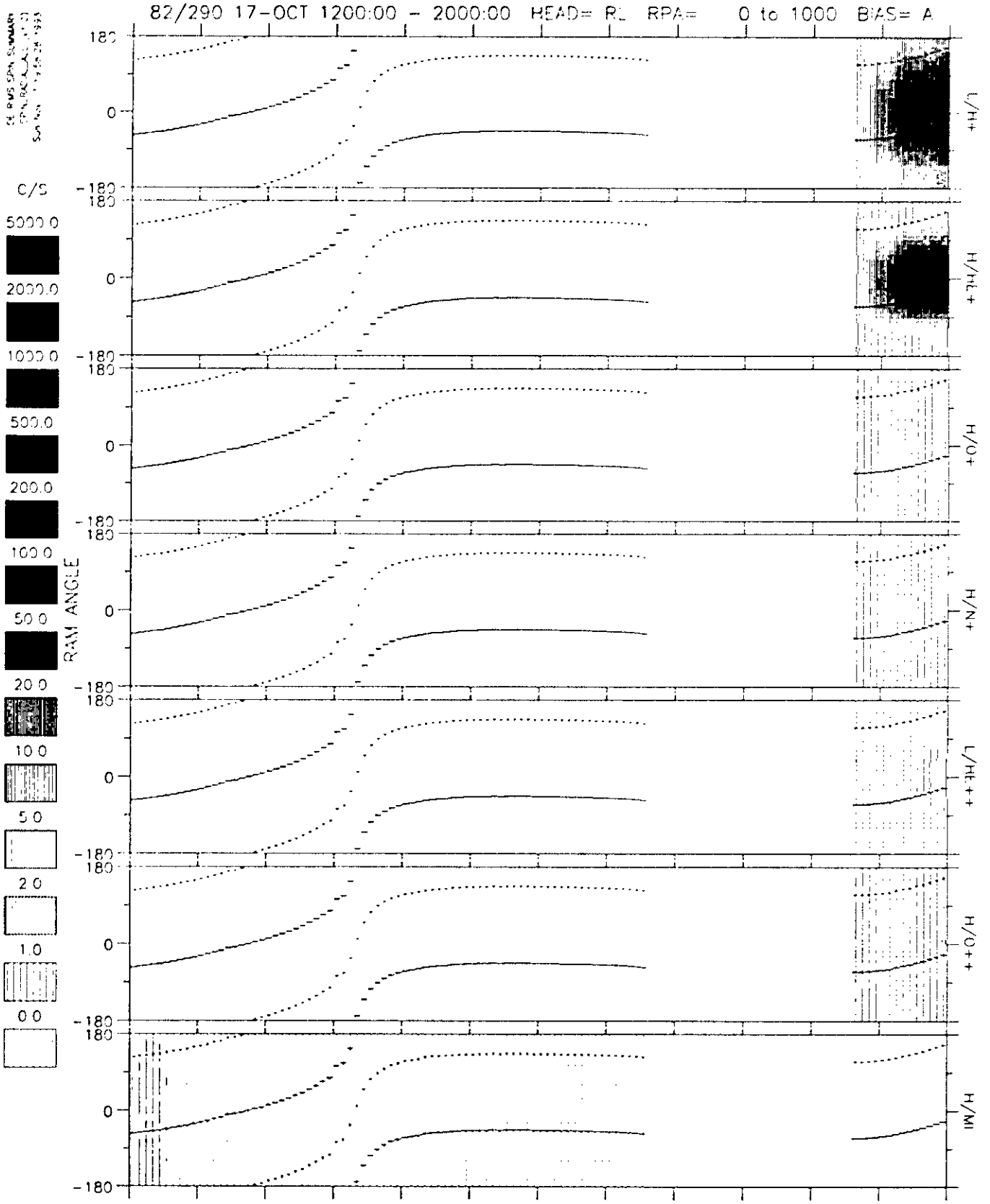
TIME	1610	1650	0000	0000	1850	1930	2010	2050	2130	2210	2250	HHMM
RE	3.3	2.2	0.0	0.0	3.4	4.1	4.5	4.7	4.6	4.2	3.5	RE
L	3.3	3.3	0.0	0.0	56.0	23.7	14.8	10.6	7.8	5.6	3.8	
MLT	9.3	8.9	0.0	0.0	12.9	11.0	10.4	10.0	9.7	9.5	9.3	HRS
MLAT	6.48	35.88	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	56.9	56.4	0.0	0.0	82.3	78.2	74.9	72.1	69.0	64.9	59.0	DEGS



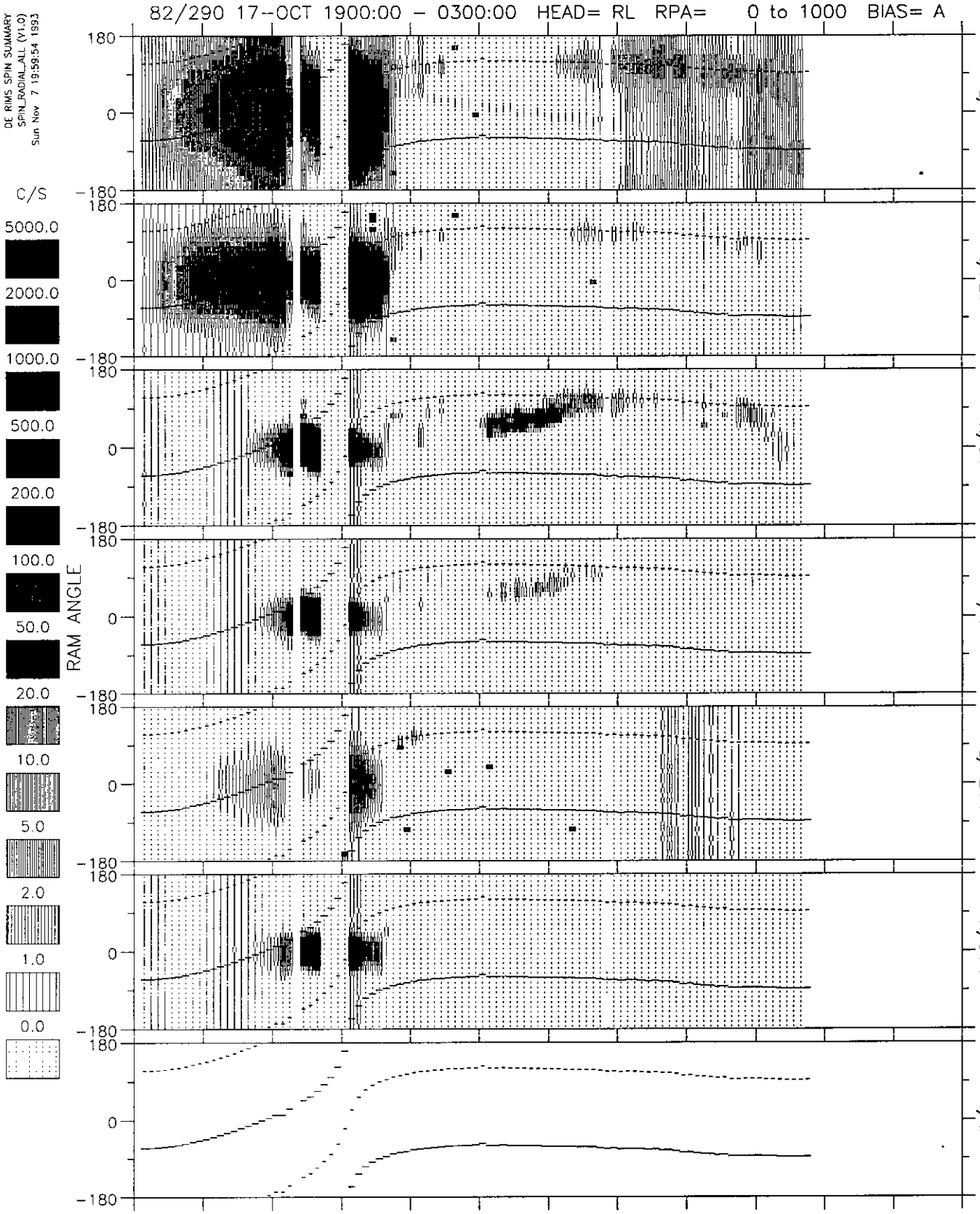
TIME	2310	2350	0000	0110	0150	0230	0310	0350	0430	0510	0550	HHMM
RE	3.1	1.8	0.0	2.6	3.6	4.2	4.6	4.7	4.5	4.1	3.3	RE
L	3.0	2.6	0.0	12.4	-0.0	75.7	23.4	12.5	7.7	5.1	3.4	
MLT	9.2	8.9	0.0	21.0	23.0	8.4	8.6	8.7	8.9	9.1	9.3	HRS
MLAT	-6.49	31.54	0.00	*****	*****	*****	*****	*****	*****	*****	-8.49	DEGS
INVLAT	54.9	51.3	0.0	73.5	-0.0	83.4	78.1	73.6	68.9	63.7	57.2	DEGS



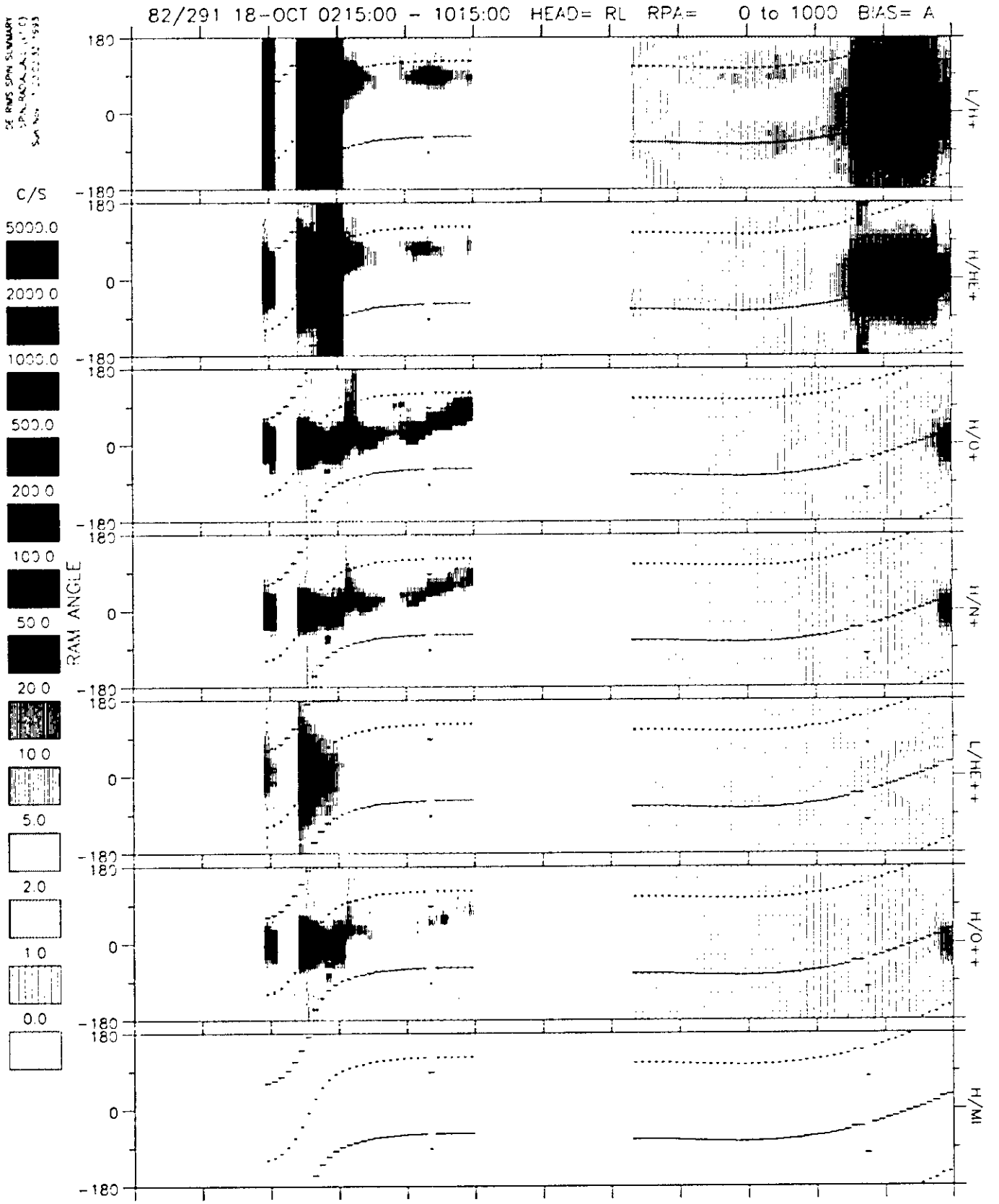
TIME	0555	0635	0715	0000	0000	0000	0000	1035	1115	1155	1235	HHMM
RE	3.2	2.0	1.1	0.0	0.0	0.0	0.0	4.7	4.5	4.1	3.4	RE
L	3.2	2.6	1.3	0.0	0.0	0.0	0.0	7.3	5.6	4.4	3.5	
MLT	9.3	9.8	21.1	0.0	0.0	0.0	0.0	8.9	9.1	9.2	9.3	HRS
MLAT	-5.68	29.39	20.75	0.00	0.00	0.00	0.00	*****	*****	*****	4.70	DEGS
INVLAT	56.3	51.7	27.0	0.0	0.0	0.0	0.0	68.3	65.0	61.5	57.9	DEGS



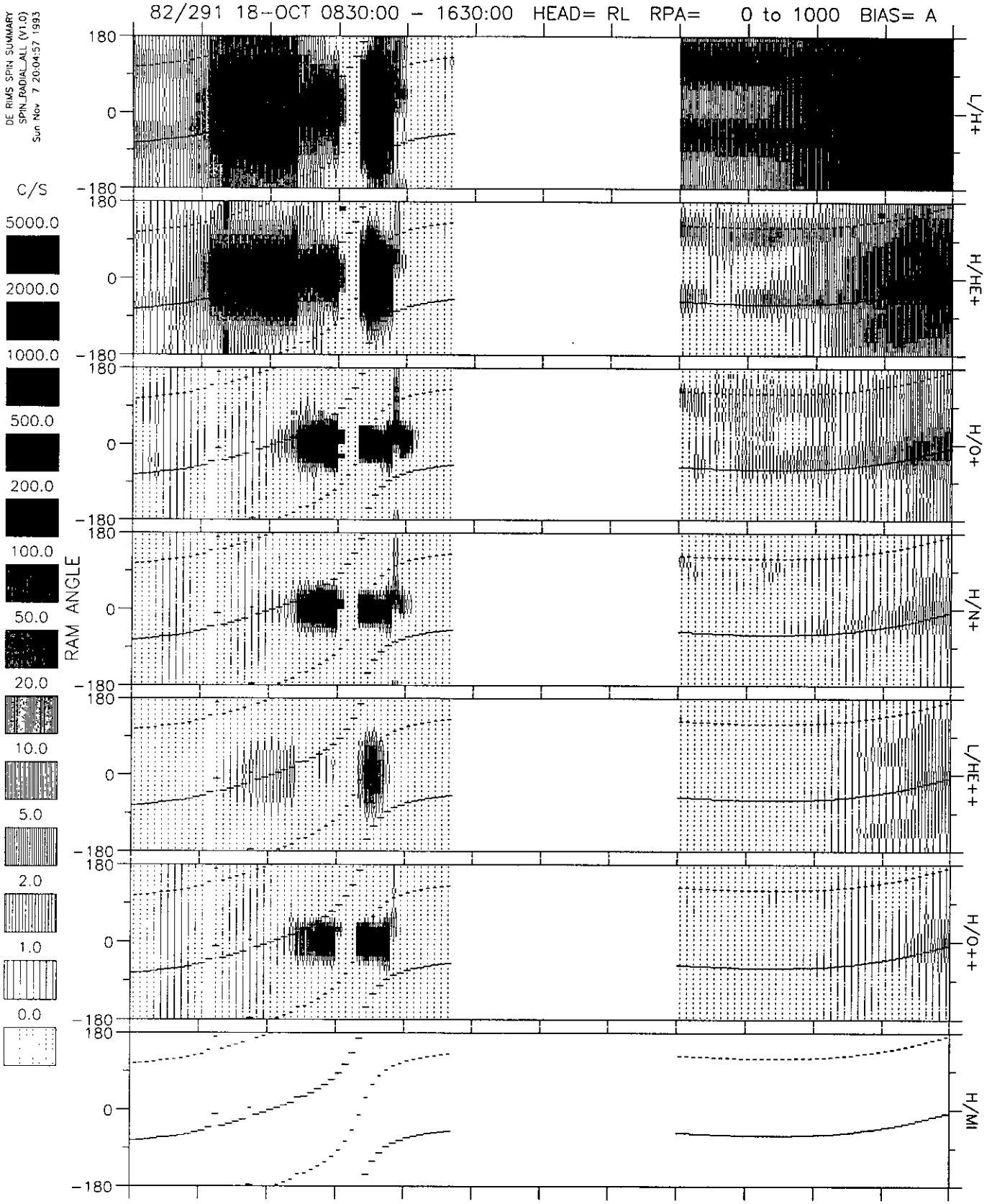
TIME	1240	1320	1400	1440	1520	1600	1640	0000	0000	0000	1920	HHMM
RE	3.3	2.2	1.1	2.2	3.3	4.1	4.5	0.0	0.0	0.0	3.6	RE
L	3.4	3.6	1.8	34.2	42.8	15.2	10.1	0.0	0.0	0.0	3.6	
MLT	9.3	9.3	21.4	20.5	10.6	10.1	9.9	0.0	0.0	0.0	9.3	HRS
MLAT	7.26	37.46	34.90	•••••	•••••	•••••	•••••	0.00	0.00	0.00	-8.10	DEGS
INVLAT	57.4	58.0	41.4	80.2	81.2	75.1	71.6	0.0	0.0	0.0	58.3	DEGS



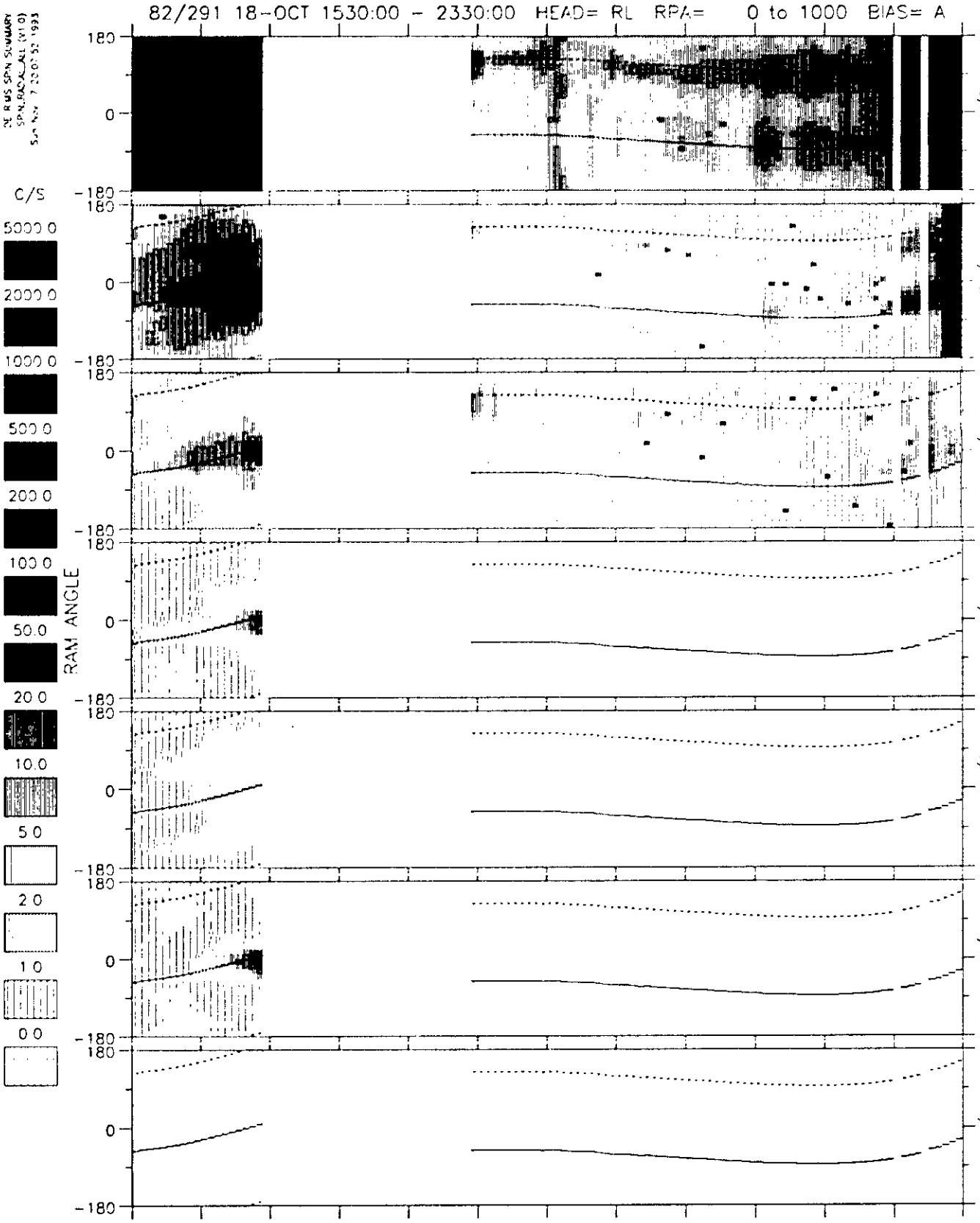
TIME	1940	2020	2100	2140	2220	2300	2340	0020	0100	0000	0000	HHMM
RE	3.1	1.9	1.2	2.5	3.5	4.2	4.6	4.7	4.5	0.0	0.0	RE
L	3.1	2.8	1.2	13.6	100.0	58.2	24.6	14.0	8.8	0.0	0.0	
MLT	9.2	8.6	21.2	19.6	14.7	10.7	9.8	9.4	9.2	0.0	0.0	HRS
MLAT	0.87	34.16	8.63	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	55.2	52.9	24.5	74.2	85.4	82.5	78.4	74.5	70.2	0.0	0.0	DEGS



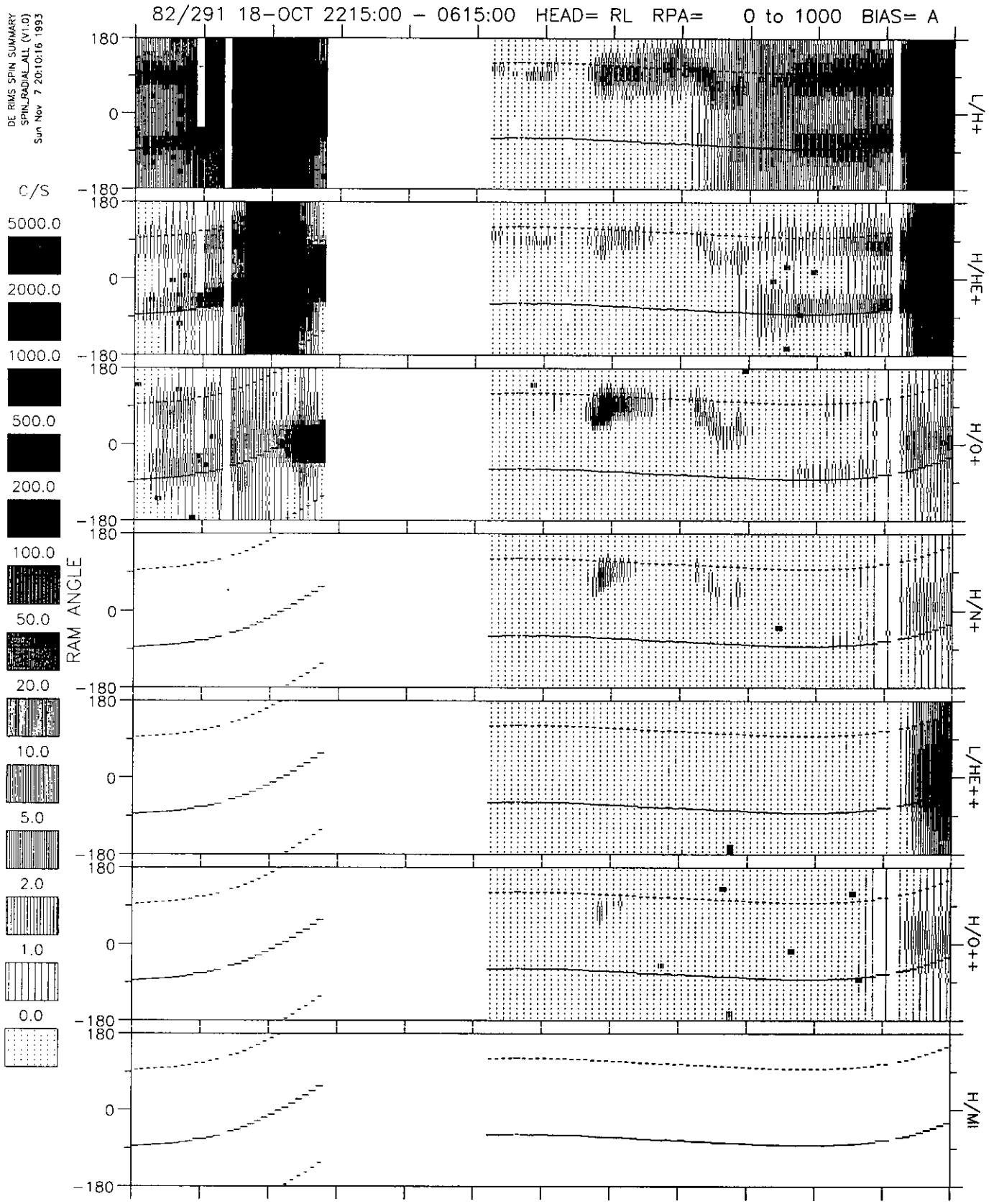
TIME	0000	0335	0415	0455	0000	0000	0000	0735	0815	0855	0935	HHMM
RE	0.0	1.1	2.0	3.2	0.0	0.0	0.0	4.6	4.3	3.7	2.7	RE
L	0.0	100.0	4.1	71.7	0.0	0.0	0.0	7.4	5.3	3.9	2.9	
MLT	0.0	17.4	21.8	0.9	0.0	0.0	0.0	8.8	9.0	9.2	9.5	HRS
MLAT	0.00	82.91	*****	*****	0.00	0.00	0.00	*****	*****	-7.73	15.65	DEGS
INVLAT	0.0	84.5	60.2	83.2	0.0	0.0	0.0	68.4	64.2	59.5	54.3	DEGS



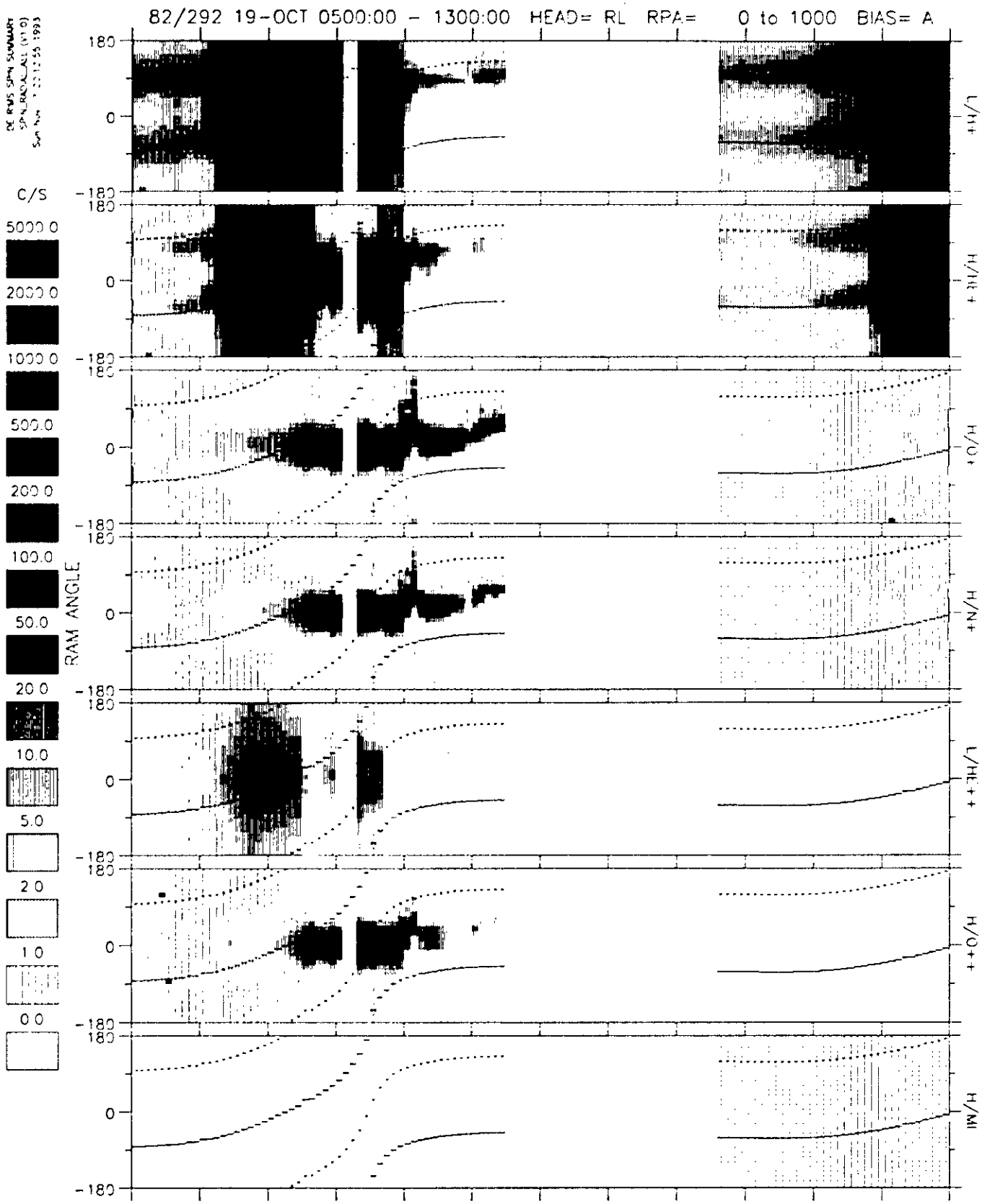
TIME	0910	0950	1030	1110	0000	0000	0000	1350	1430	1510	1550	HHMM
RE	3.4	2.3	1.1	2.1	0.0	0.0	0.0	4.7	4.6	4.2	3.6	RE
L	3.5	2.9	2.6	21.1	0.0	0.0	0.0	7.0	5.6	4.5	3.6	
MLT	9.3	9.7	20.7	22.5	0.0	0.0	0.0	9.3	9.3	9.3	9.2	HRS
MLAT	-1.17	29.49	47.80	*****	0.00	0.00	0.00	*****	*****	*****	-0.70	DEGS
INVLAT	57.7	53.8	51.3	77.4	0.0	0.0	0.0	67.8	65.0	62.0	58.3	DEGS



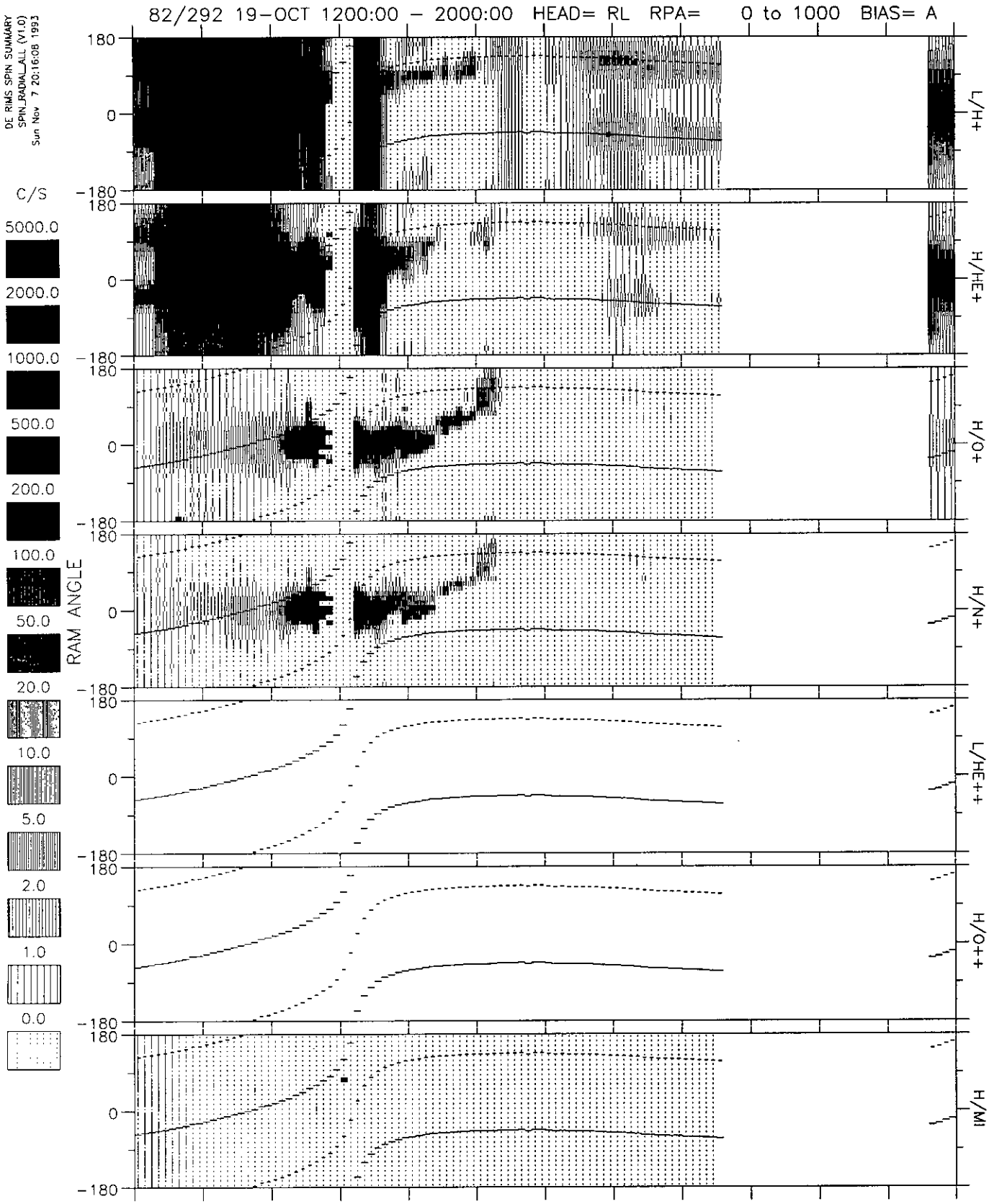
TIME	1610	0000	0000	0000	1850	1930	2010	2050	2130	2210	0000	HHMM
RE	3.2	0.0	0.0	0.0	3.5	4.2	4.5	4.7	4.5	4.1	0.0	RE
L	3.2	0.0	0.0	0.0	51.8	23.1	14.7	10.5	7.6	5.4	0.0	
MLT	9.2	0.0	0.0	0.0	12.5	10.8	10.2	9.9	9.6	9.3	0.0	HRS
MLAT	8.53	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	56.3	0.0	0.0	0.0	82.0	78.0	74.9	72.0	68.8	64.5	0.0	DEGS



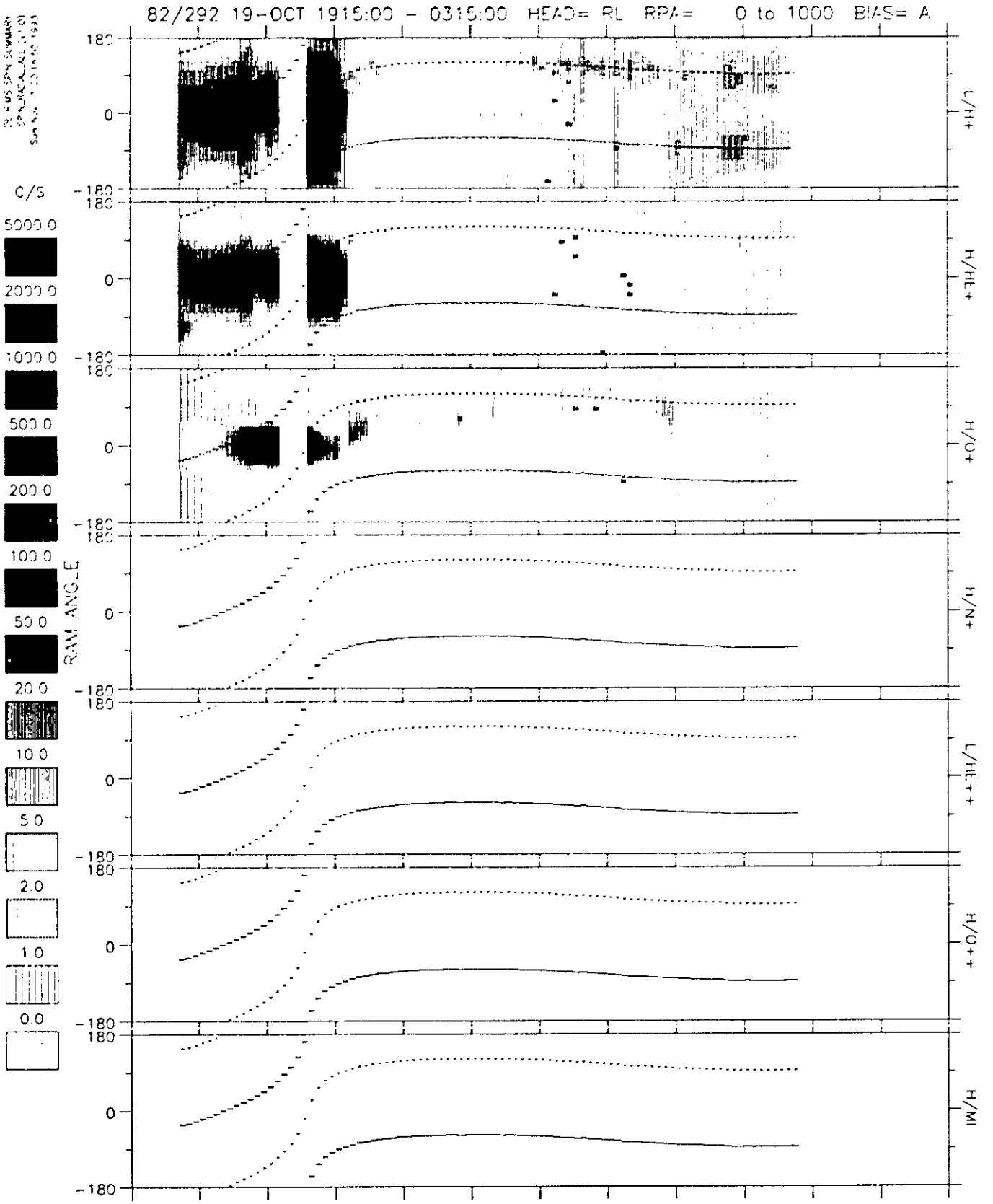
TIME	2255	2335	0000	0000	0000	0215	0255	0335	0415	0455	0535	HHMM
RE	3.3	2.2	0.0	0.0	0.0	4.1	4.5	4.7	4.6	4.2	3.5	RE
L	3.4	2.3	0.0	0.0	0.0	100.0	30.2	14.9	8.8	5.7	3.8	
MLT	9.1	8.9	0.0	0.0	0.0	8.1	8.4	8.5	8.7	8.9	9.1	HRS
MLAT	*****	17.40	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	57.1	49.2	0.0	0.0	0.0	85.2	79.5	75.0	70.2	65.2	59.1	DEGS



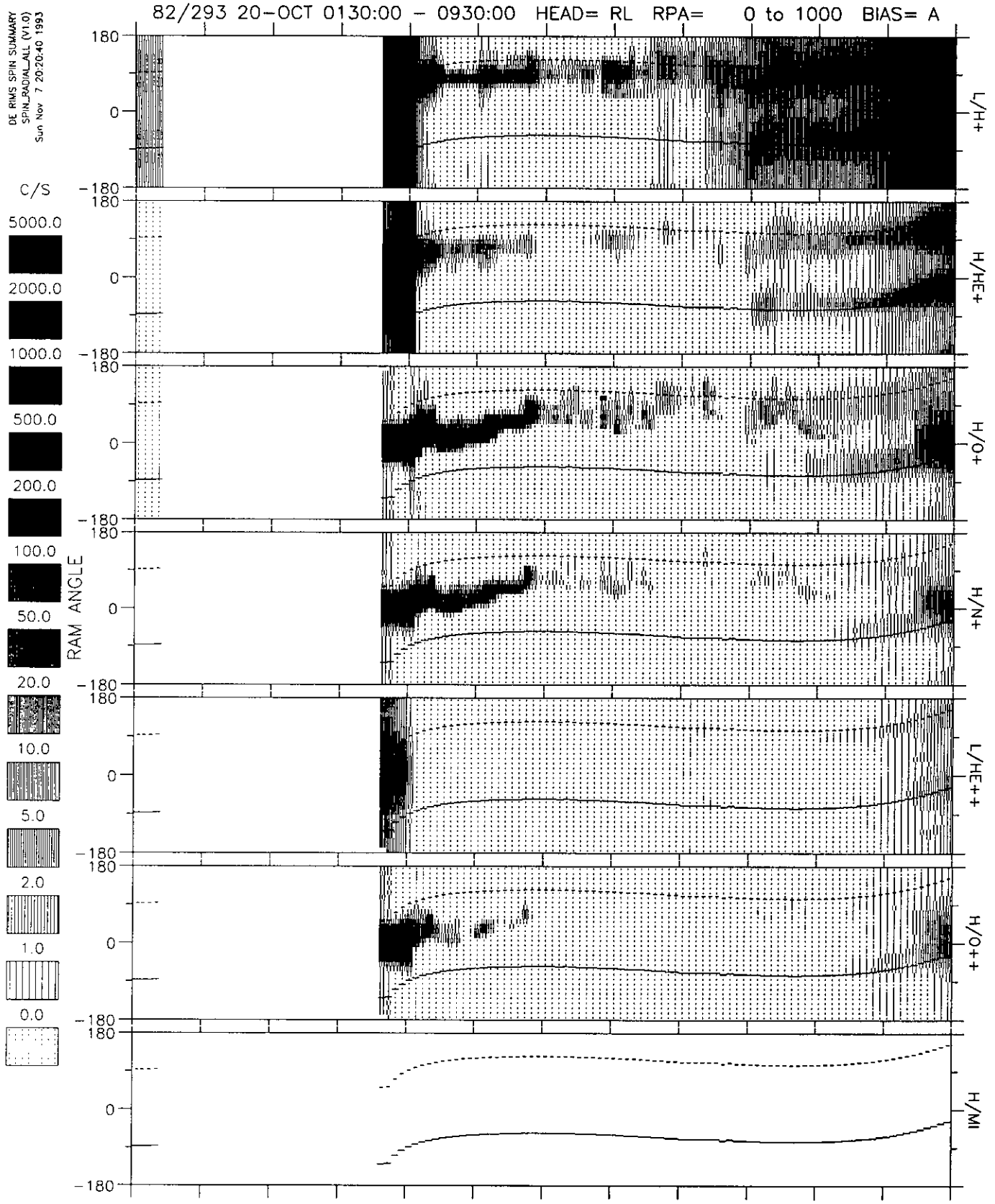
TIME	0540	0620	0700	0740	0820	0000	0000	0000	1100	1140	1220	HHMM
RE	3.4	2.3	1.1	2.1	3.2	0.0	0.0	0.0	4.6	4.3	3.6	RE
L	3.6	2.5	6.2	7.5	63.8	0.0	0.0	0.0	6.0	4.7	3.7	
MLT	9.1	9.5	19.6	22.5	4.7	0.0	0.0	0.0	9.0	9.1	9.2	HRS
MLAT	*****	17.36	64.59	*****	*****	0.00	0.00	0.00	*****	*****	-0.36	DEGS
INVLAT	58.1	51.2	66.2	68.5	82.8	0.0	0.0	0.0	65.9	62.5	58.8	DEGS



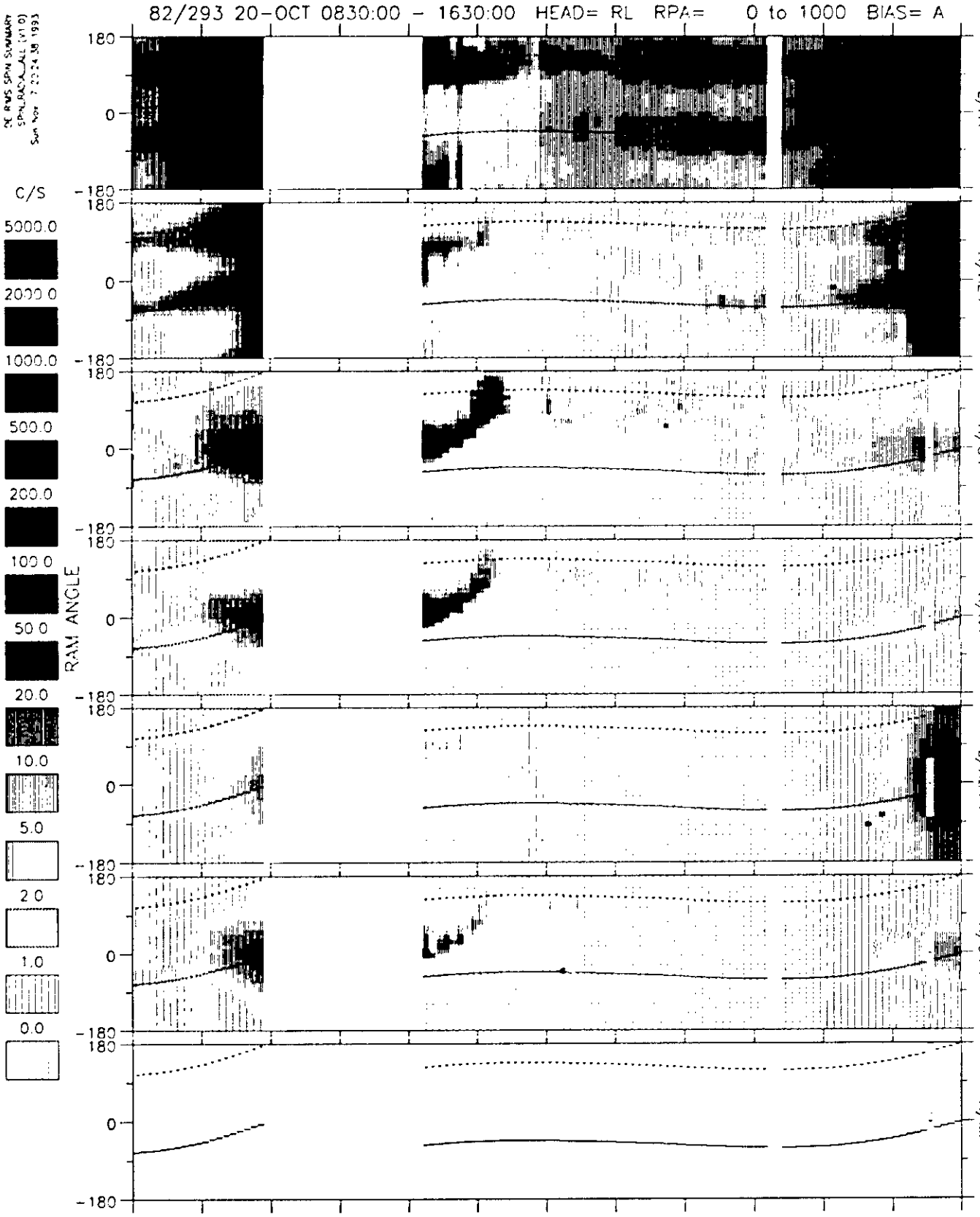
TIME	1240	1320	1400	1440	1520	1600	1640	1720	0000	0000	0000	HHMM
RE	3.2	2.0	1.1	2.4	3.4	4.1	4.5	4.7	0.0	0.0	0.0	RE
L	3.4	3.9	1.1	75.5	36.4	14.7	9.9	7.7	0.0	0.0	0.0	
MLT	9.2	9.2	21.2	19.9	10.4	9.9	9.8	9.7	0.0	0.0	0.0	HRS
MLAT	9.53	43.52	10.43	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	57.0	59.6	17.7	83.4	80.4	74.9	71.5	68.8	0.0	0.0	0.0	DEGS



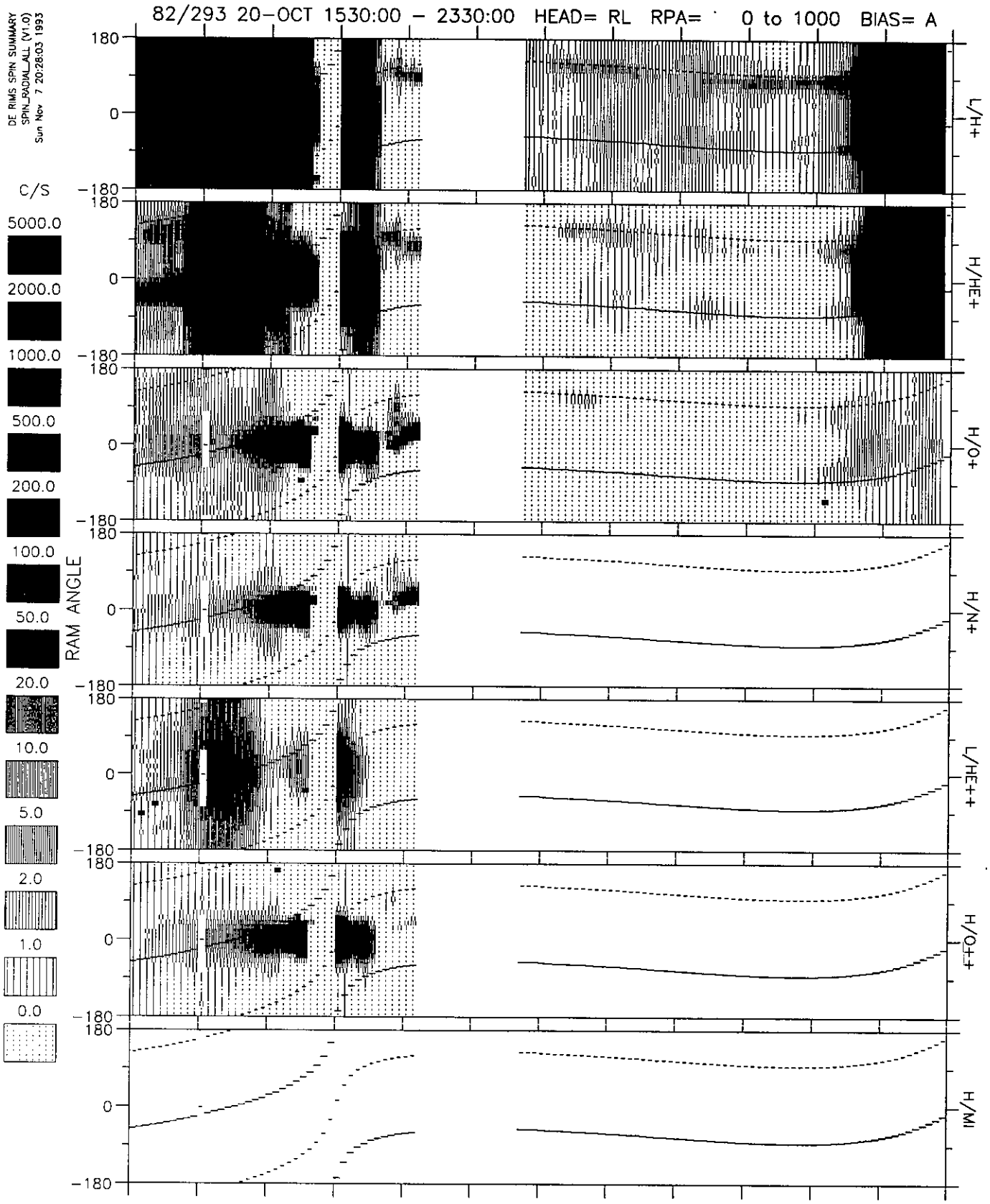
TIME	1955	2035	2115	2155	2235	2315	2355	0035	0115	0000	0000	HHMM
RE	2.5	1.2	1.8	3.1	3.9	4.4	4.6	4.6	4.3	0.0	0.0	RE
L	2.6	49.3	3.7	53.7	100.0	38.0	18.9	11.3	7.1	0.0	0.0	
MLT	8.9	5.0	20.4	18.1	11.9	10.0	9.4	9.1	9.0	0.0	0.0	HRS
MLAT	13.26	77.72	*****	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	51.9	81.8	58.5	82.2	84.8	80.7	76.7	72.7	68.0	0.0	0.0	DEGS



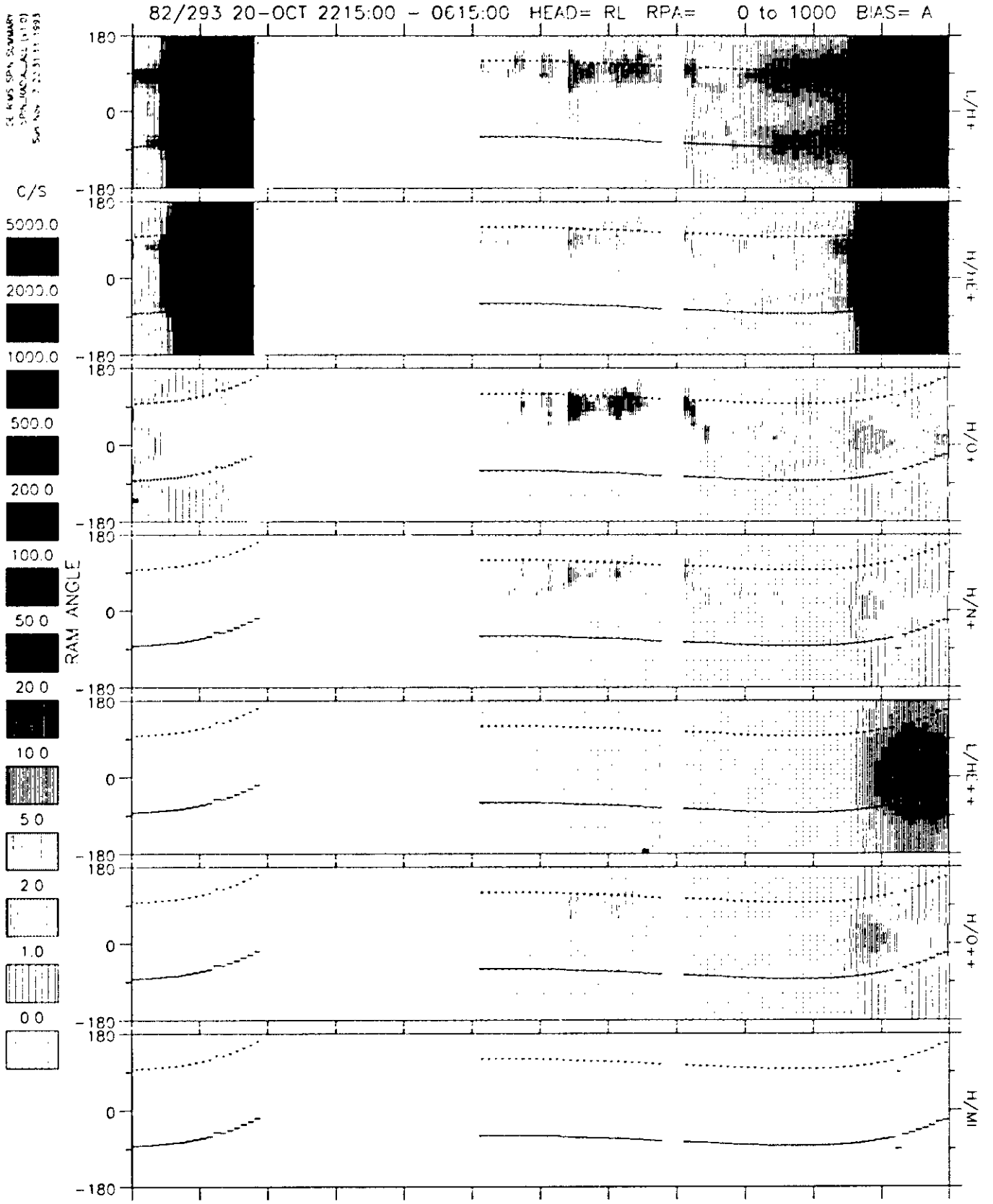
TIME	0000	0000	0000	0410	0450	0530	0610	0650	0730	0810	0850	HHMM
RE	0.0	0.0	0.0	2.0	3.2	4.0	4.4	4.6	4.6	4.3	3.7	RE
L	0.0	0.0	0.0	4.1	69.0	51.5	19.5	11.3	7.5	5.3	3.9	
MLT	0.0	0.0	0.0	21.7	0.7	6.6	7.8	8.3	8.6	8.9	9.1	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	-8.11	DEGS
INVLAT	0.0	0.0	0.0	60.4	83.1	82.0	76.9	72.7	68.5	64.3	59.5	DEGS



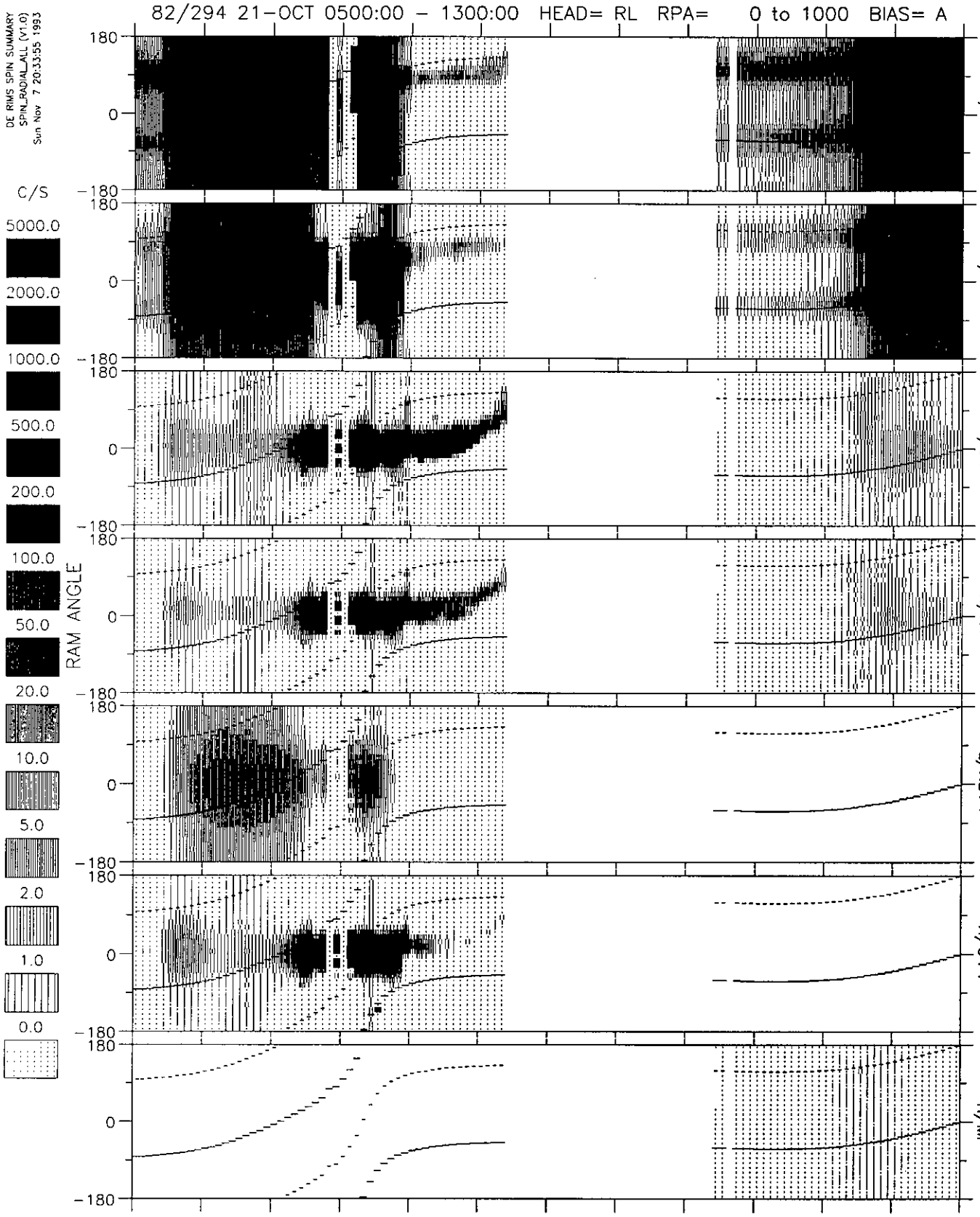
TIME	0910	0000	0000	0000	1150	1230	1310	1350	1430	1510	1550	HHMM
RE	3.3	0.0	0.0	0.0	3.4	4.1	4.5	4.7	4.5	4.2	3.5	RE
L	3.3	0.0	0.0	0.0	39.3	14.0	9.1	6.9	5.5	4.4	3.5	
MLT	9.2	0.0	0.0	0.0	8.1	8.9	9.1	9.2	9.2	9.2	9.1	HRS
MLAT	2.04	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.82	DEGS
INVLAT	56.8	0.0	0.0	0.0	80.8	74.5	70.6	67.6	64.8	61.6	57.7	DEGS



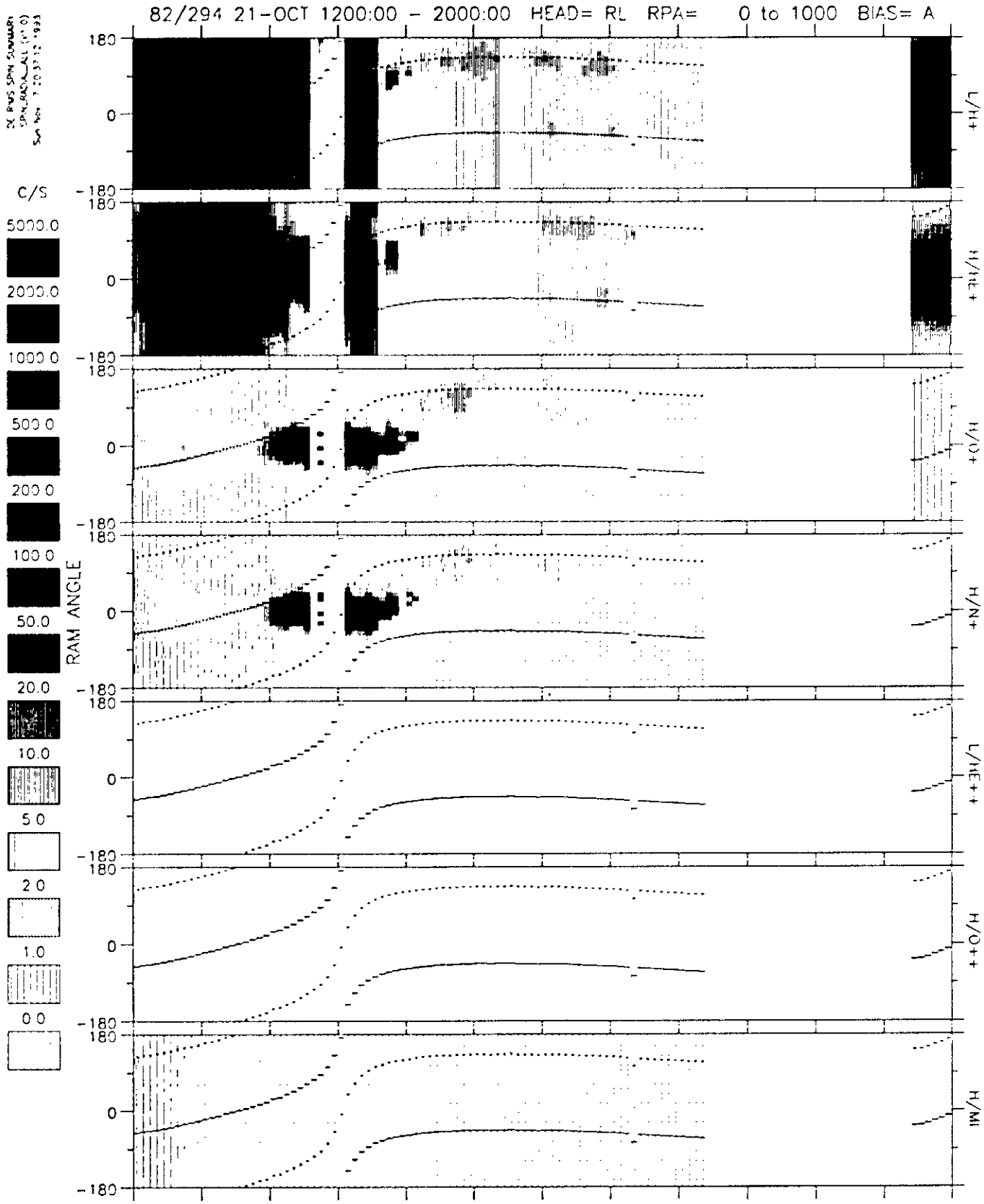
TIME	1610	1650	1730	1810	0000	1930	2010	2050	2130	2210	2250	HHMM
RE	3.1	1.8	1.3	2.6	0.0	4.2	4.6	4.7	4.5	4.0	3.3	RE
L	3.2	4.2	1.4	33.7	0.0	22.5	14.5	10.3	7.4	5.2	3.4	
MLT	9.0	8.4	20.9	18.1	0.0	10.6	10.1	9.7	9.4	9.2	9.0	HRS
MLAT	8.91	49.52	*****	*****	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	56.0	60.8	30.8	80.1	0.0	77.8	74.8	71.8	68.5	64.0	57.1	DEGS



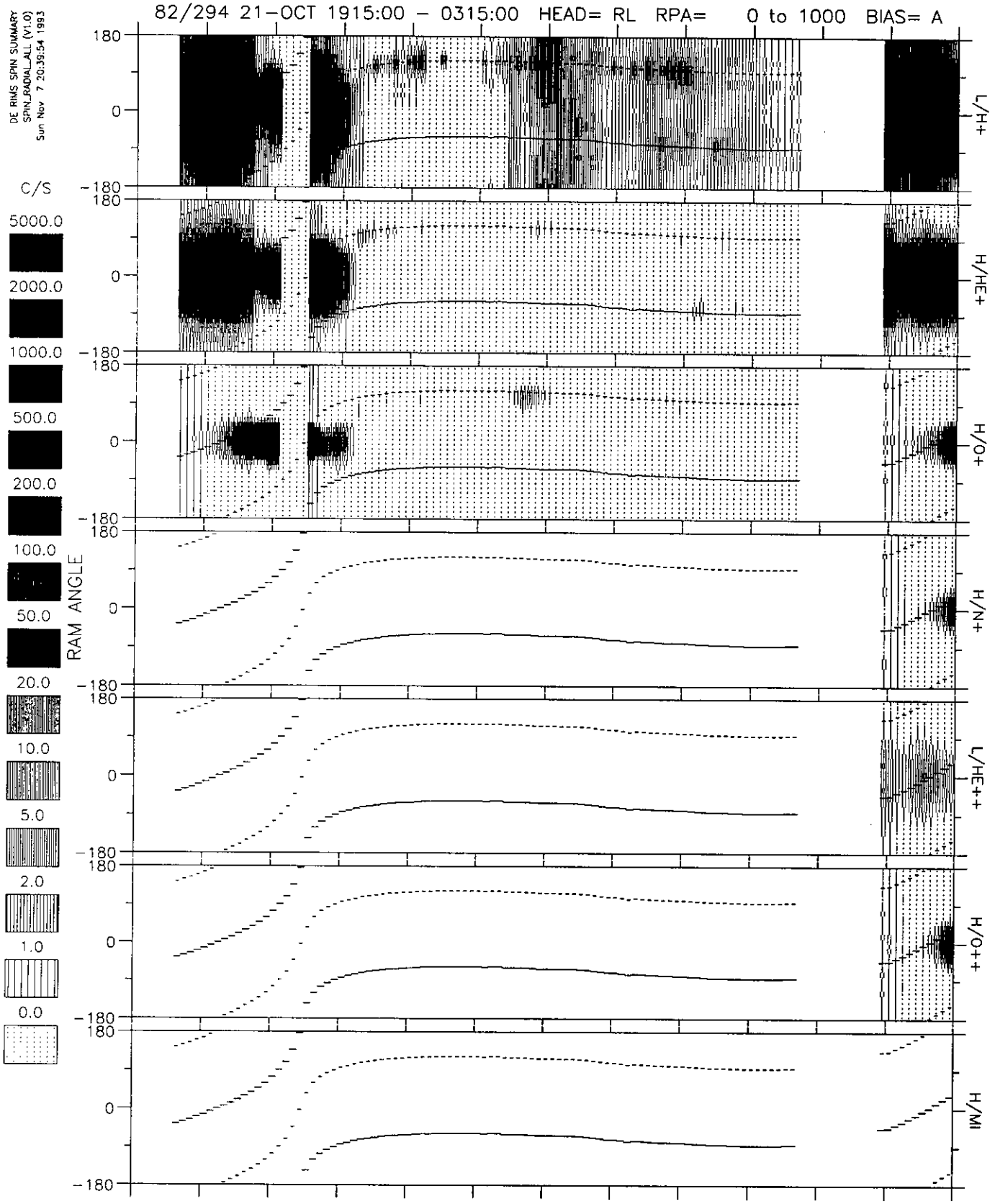
TIME	2255	0000	0000	0000	0000	0215	0255	0000	0415	0455	0535	HHMM
RE	3.2	0.0	0.0	0.0	0.0	4.2	4.5	0.0	4.5	4.1	3.4	RE
L	3.2	0.0	0.0	0.0	0.0	100.0	28.0	0.0	8.4	5.4	3.6	
MLT	8.9	0.0	0.0	0.0	0.0	7.9	8.3	0.0	8.6	8.8	9.0	HRS
MLAT	•••••	0.00	0.00	0.00	0.00	•••••	•••••	0.00	•••••	•••••	•••••	DEGS
INVLAT	56.0	0.0	0.0	0.0	0.0	84.6	79.1	0.0	69.8	64.6	58.2	DEGS



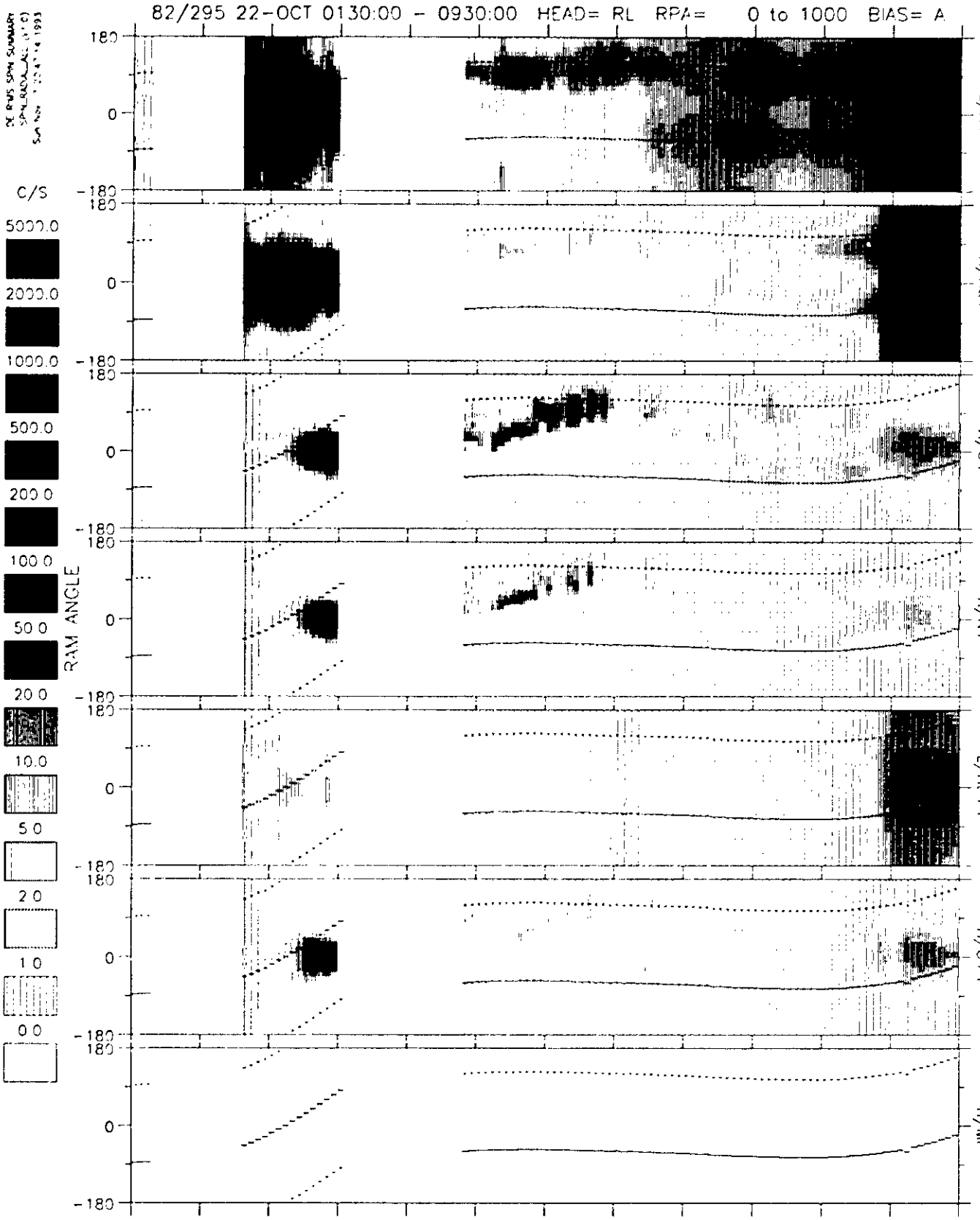
TIME	0540	0620	0700	0740	0820	0000	0000	0000	1100	1140	1220	HHMM
RE	3.3	2.2	1.1	2.2	3.3	0.0	0.0	0.0	4.6	4.2	3.5	RE
L	3.4	2.5	1.8	11.5	57.5	0.0	0.0	0.0	5.9	4.6	3.6	
MLT	9.0	9.5	20.5	22.8	5.3	0.0	0.0	0.0	8.9	9.0	9.1	HRS
MLAT	-9.16	22.87	41.09	*****	*****	0.00	0.00	0.00	*****	*****	1.42	DEGS
INVLAT	57.2	50.8	42.7	72.9	82.4	0.0	0.0	0.0	65.6	62.1	58.2	DEGS



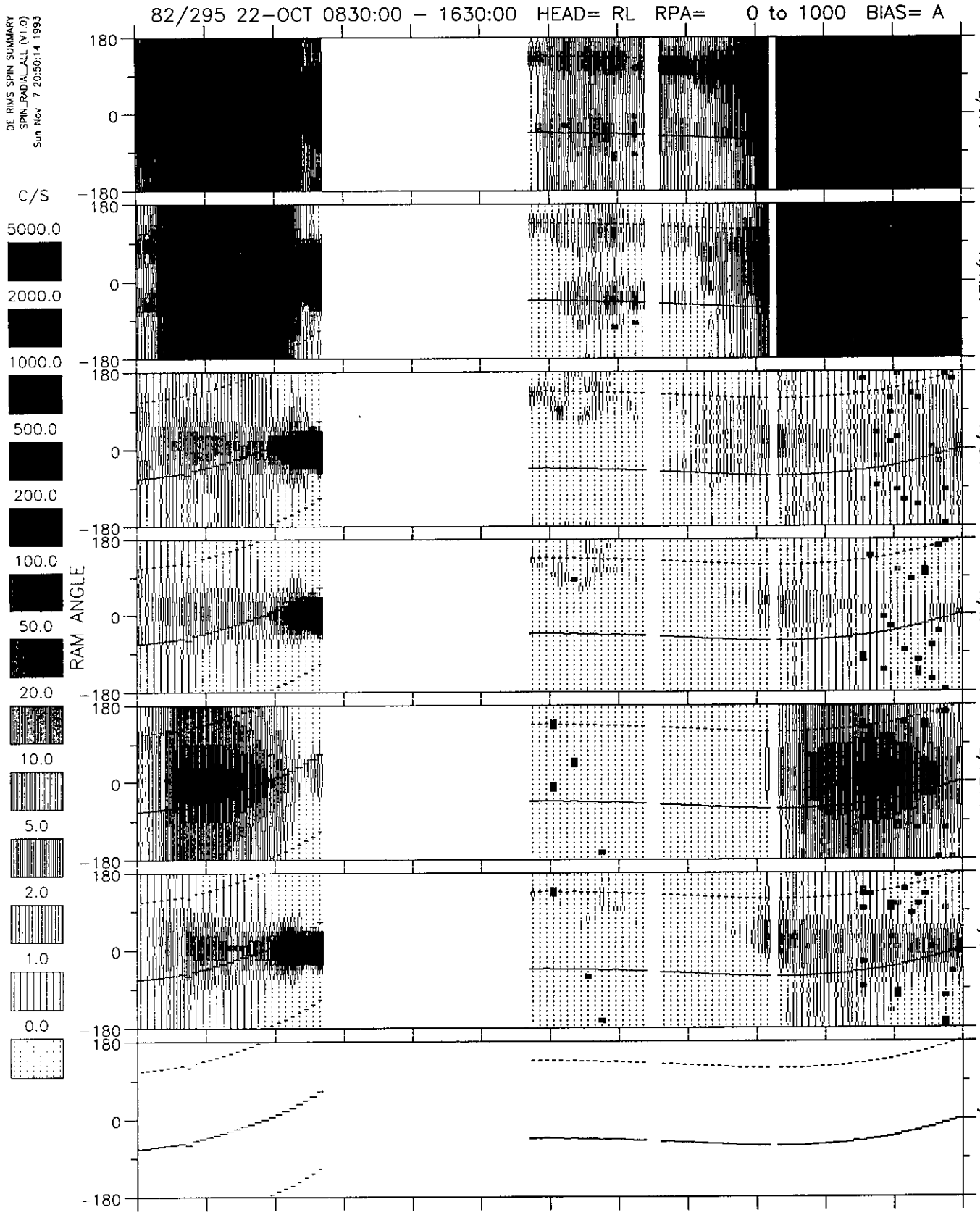
TIME	1240	1320	1400	1440	1520	1600	1640	1720	0000	0000	0000	HHMM
RE	3.1	1.9	1.1	2.5	3.5	4.2	4.6	4.7	0.0	0.0	0.0	RE
L	3.3	4.6	1.1	100.0	31.9	14.3	9.8	7.6	0.0	0.0	0.0	
MLT	9.1	9.1	21.1	18.8	10.2	9.8	9.7	9.6	0.0	0.0	0.0	HRS
MLAT	12.00	50.83	5.25	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	56.5	62.3	15.6	85.6	79.8	74.6	71.4	68.7	0.0	0.0	0.0	DEGS



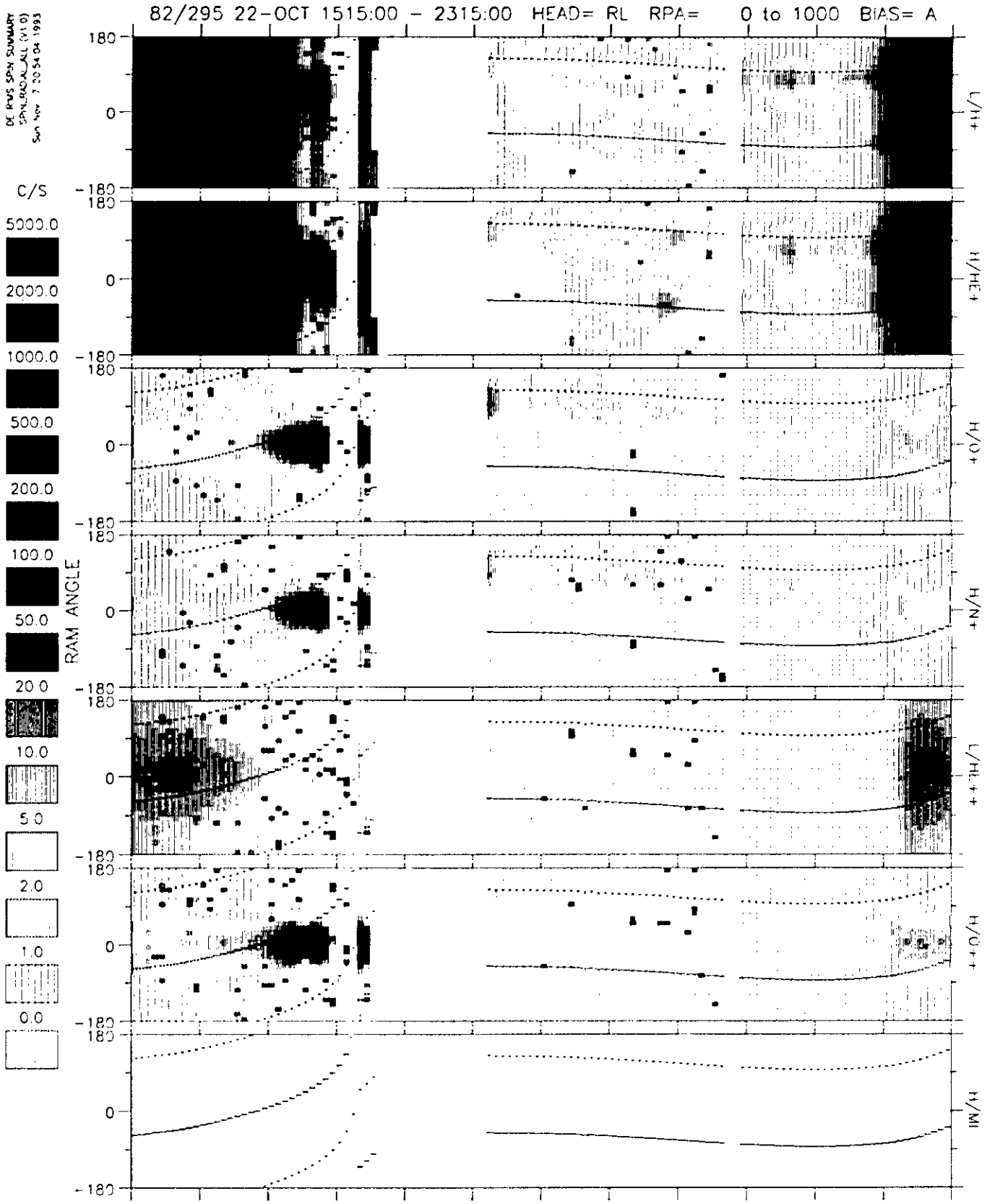
TIME	1955	2035	2115	2155	2235	2315	2355	0035	0115	0000	0235	HHMM
RE	2.4	1.2	2.0	3.2	4.0	4.5	4.6	4.6	4.3	0.0	2.7	RE
L	2.5	36.7	5.0	72.6	100.0	36.3	18.3	10.9	6.8	0.0	2.6	
MLT	8.7	1.6	20.1	17.5	11.4	9.8	9.2	9.0	8.8	0.0	8.9	HRS
MLAT	17.21	78.62	*****	*****	*****	*****	*****	*****	*****	0.00	-0.95	DEGS
INVLAT	51.2	80.3	63.4	83.3	84.6	80.4	76.5	72.3	67.5	0.0	52.0	DEGS

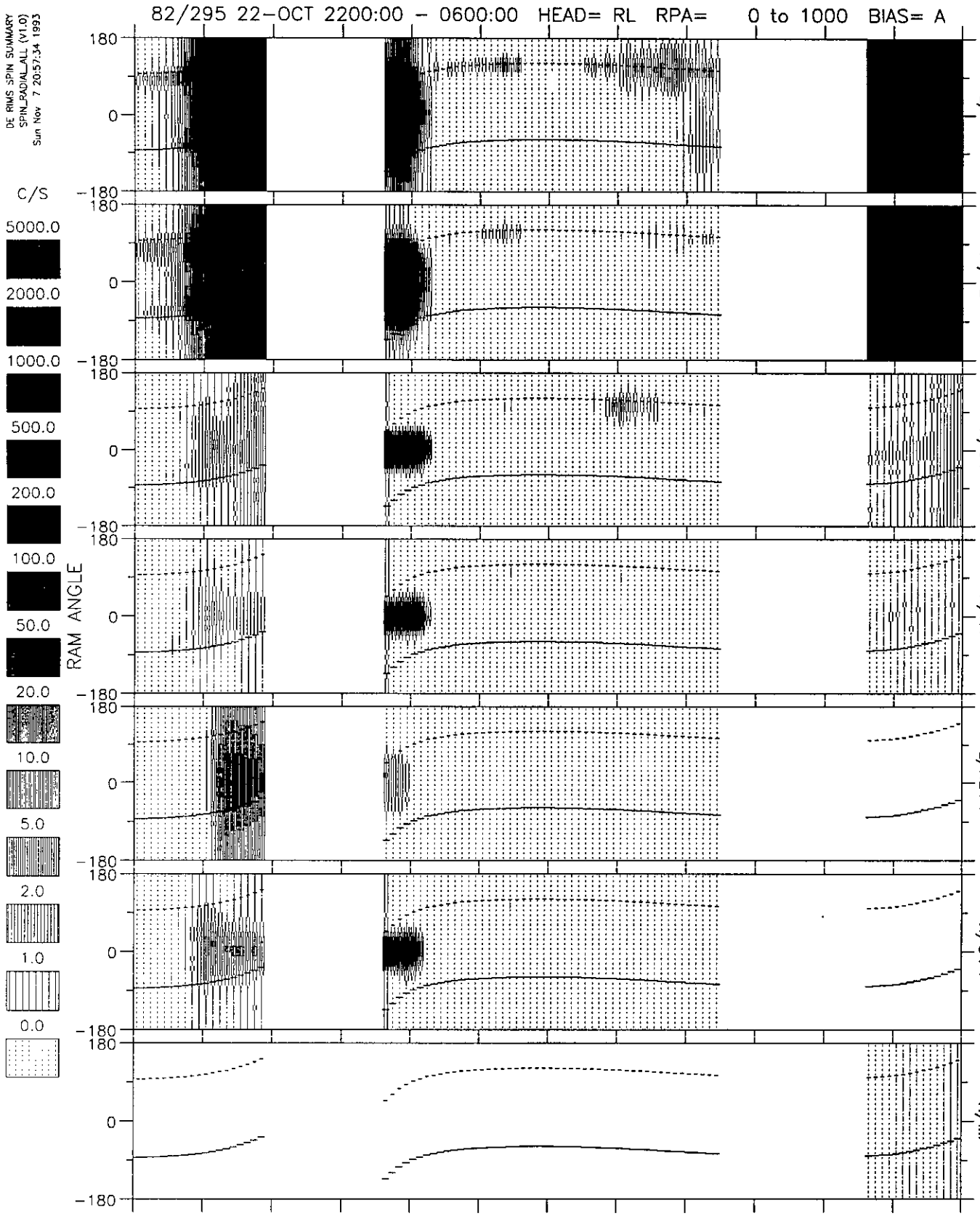


TIME	0000	0250	0330	0000	0450	0530	0610	0650	0730	0810	0850	HHMM
RE	0.0	2.2	1.1	0.0	3.3	4.0	4.5	4.7	4.6	4.2	3.6	RE
L	0.0	2.3	30.6	0.0	86.2	45.4	18.3	10.7	7.2	5.2	3.7	
MLT	0.0	9.0	18.8	0.0	1.4	6.6	7.8	8.2	8.6	8.8	9.0	HRS
MLAT	0.00	13.15	77.95	0.00	*****	*****	*****	*****	*****	*****	-6.16	DEGS
INVLAT	0.0	49.2	79.3	0.0	83.8	81.5	76.5	72.2	68.2	63.8	58.8	DEGS

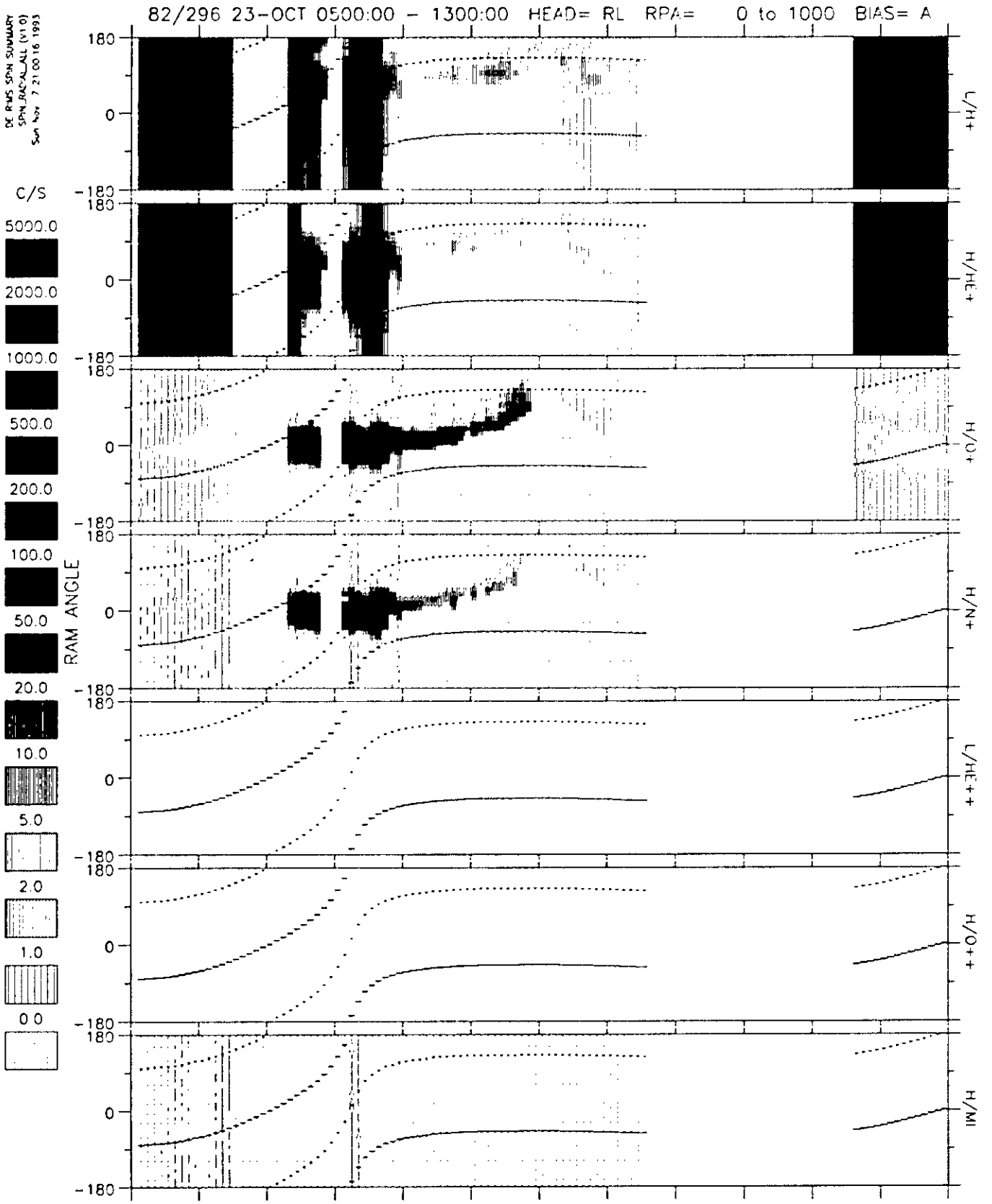


TIME	0910	0950	0000	0000	0000	1230	1310	1350	1430	1510	1550	HHMM
RE	3.1	1.9	0.0	0.0	0.0	4.2	4.5	4.7	4.5	4.1	3.4	RE
L	3.2	3.2	0.0	0.0	0.0	13.4	8.9	6.8	5.4	4.3	3.4	
MLT	9.1	9.6	0.0	0.0	0.0	8.8	9.0	9.1	9.1	9.1	9.0	HRS
MLAT	4.64	42.35	0.00	0.00	0.00	*****	*****	*****	*****	*****	2.48	DEGS
INVLAT	56.0	55.8	0.0	0.0	0.0	74.2	70.4	67.4	64.5	61.2	57.1	DEGS

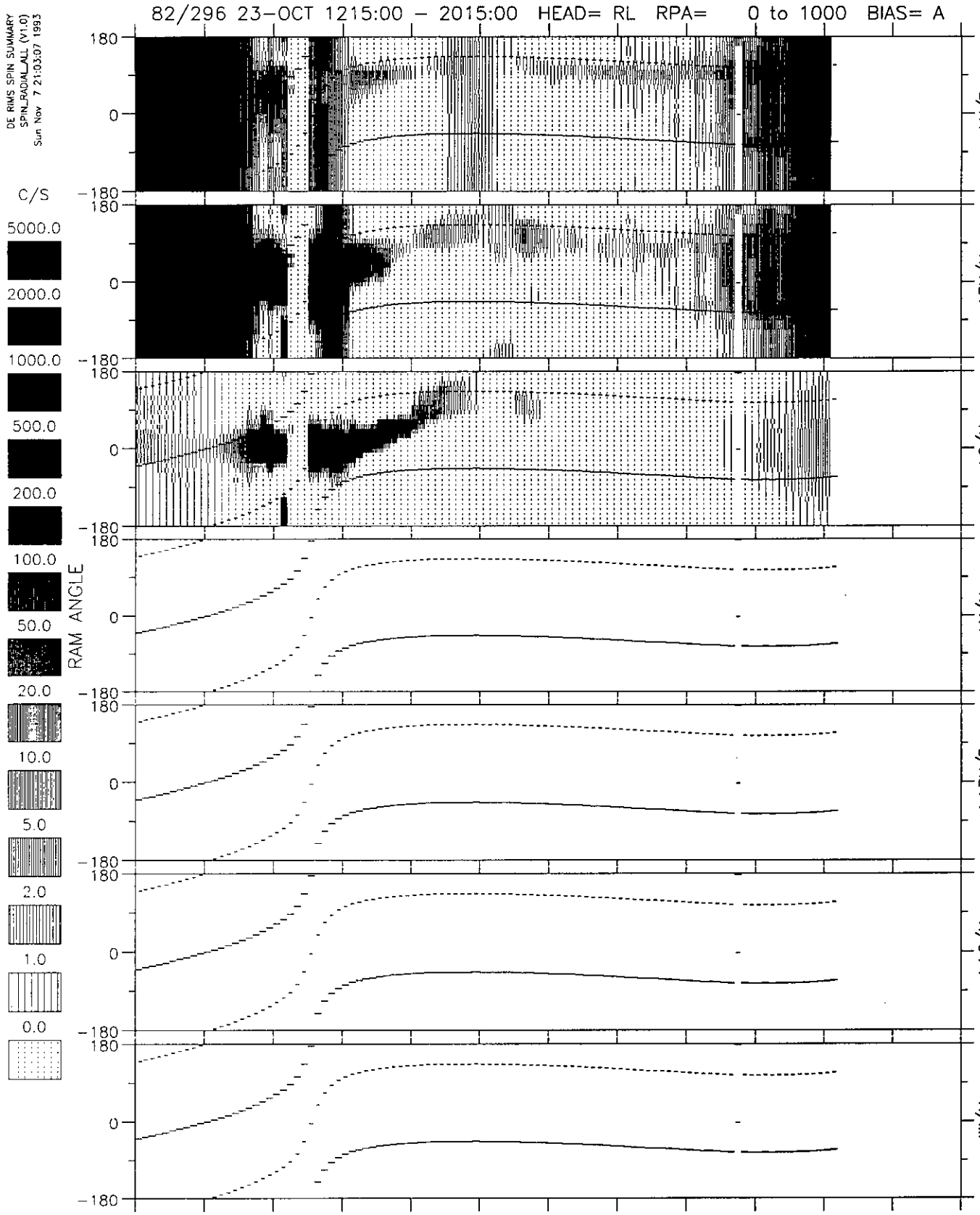

82/295 22-OCT 1515:00 - 2315:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE PUS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sun Nov 7 20:54:04 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M
TIME 1555 1635 1715 0000 0000 1915 1955 2035 2115 2155 2235 HHMM
RE 3.3 2.1 1.1 0.0 0.0 4.1 4.5 4.7 4.5 4.2 3.5 RE
L 3.3 3.1 1.4 0.0 0.0 27.4 16.5 11.5 8.2 5.8 3.8
MLT 8.9 8.6 21.3 0.0 0.0 10.8 10.1 9.7 9.4 9.1 8.9 HRS
MLAT 4.84 34.97 27.42 0.00 0.00 ***** ***** ***** ***** ***** ***** DEGS
INVLAT 56.6 55.6 31.6 0.0 0.0 79.0 75.8 72.9 69.6 65.4 59.2 DEGS



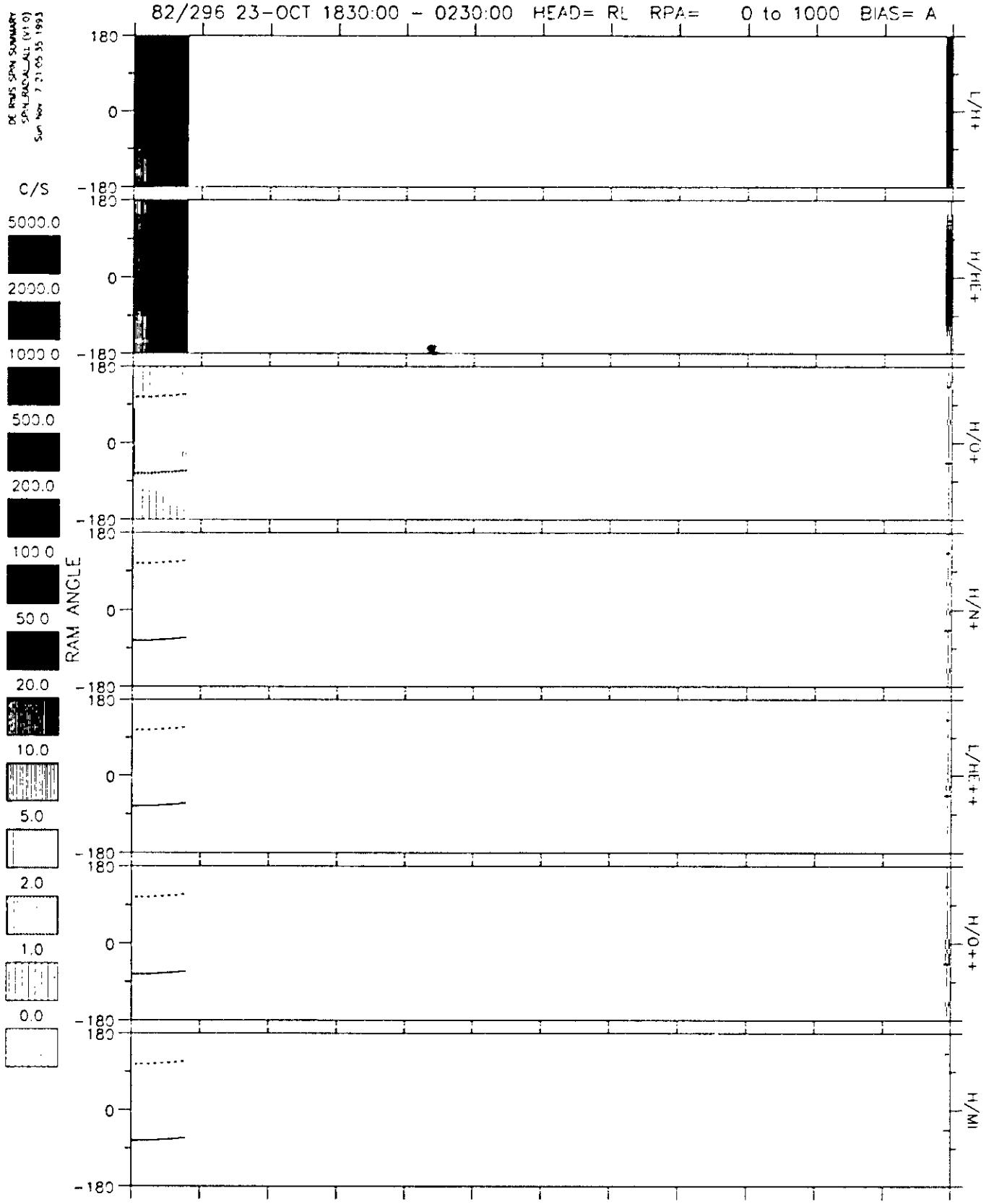
TIME	2240	0000	0000	0040	0120	0200	0240	0320	0000	0000	0520	HHMM
RE	3.4	0.0	0.0	2.1	3.3	4.0	4.5	4.7	0.0	0.0	3.6	RE
L	3.6	0.0	0.0	4.5	84.7	100.0	37.4	16.5	0.0	0.0	4.0	
MLT	8.9	0.0	0.0	20.6	21.0	7.4	8.0	8.2	0.0	0.0	8.8	HRS
MLAT	*****	0.00	0.00	*****	*****	*****	*****	*****	0.00	0.00	*****	DEGS
INVLAT	58.2	0.0	0.0	61.8	83.8	86.7	80.6	75.8	0.0	0.0	60.0	DEGS

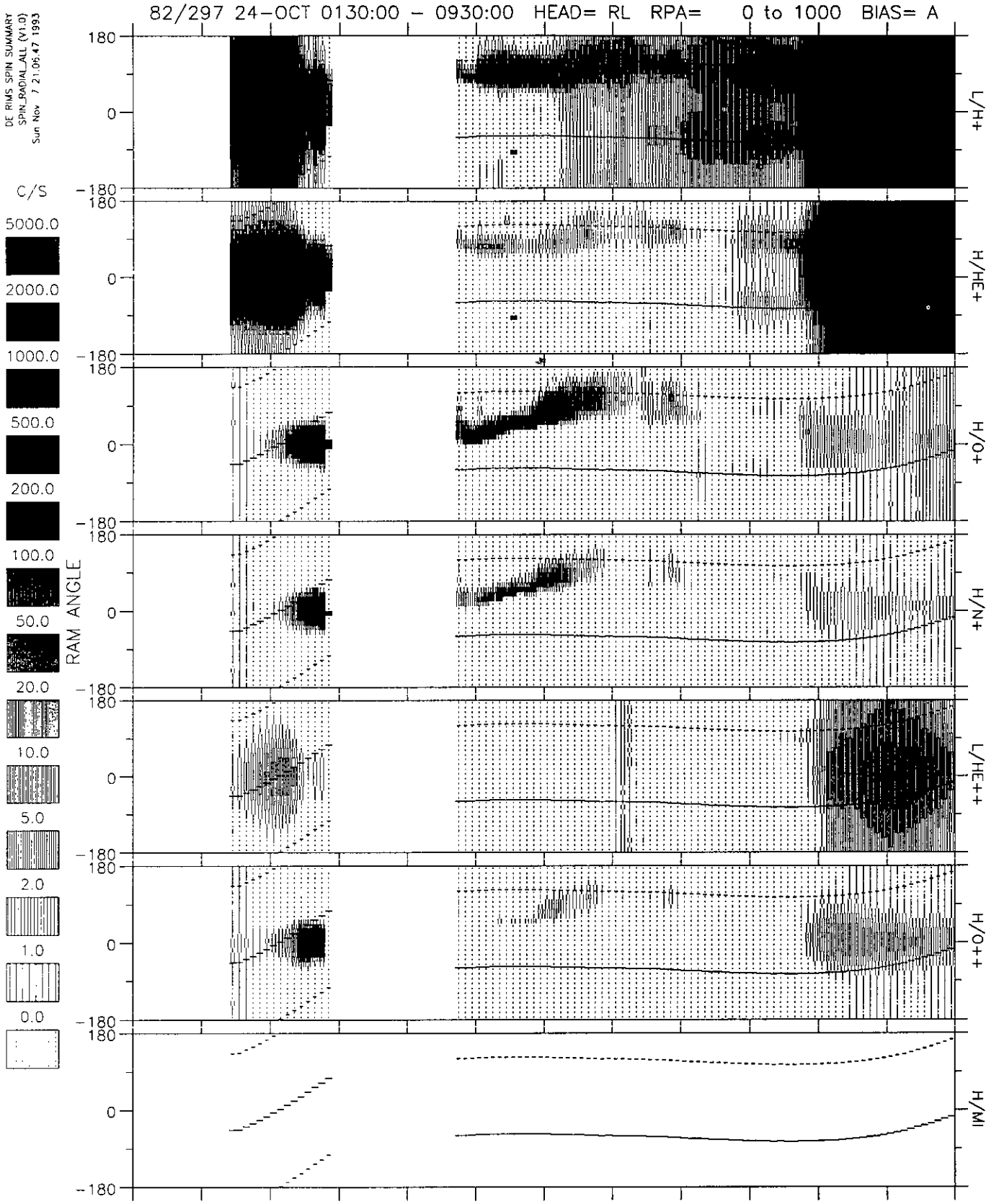


TIME	0540	0620	0700	0740	0820	0900	0940	0000	0000	0000	1220	HHMM
RE	3.2	2.0	1.1	2.4	3.5	4.1	4.5	0.0	0.0	0.0	3.4	RE
L	3.2	2.5	1.2	17.6	50.9	18.4	10.8	0.0	0.0	0.0	3.5	
MLT	8.9	9.5	20.8	23.0	5.7	7.7	8.3	0.0	0.0	0.0	9.0	HRS
MLAT	-6.63	29.37	17.49	*****	*****	*****	*****	0.00	0.00	0.00	3.40	DEGS
INVLAT	56.3	51.2	25.7	76.2	81.9	76.5	72.2	0.0	0.0	0.0	57.7	DEGS

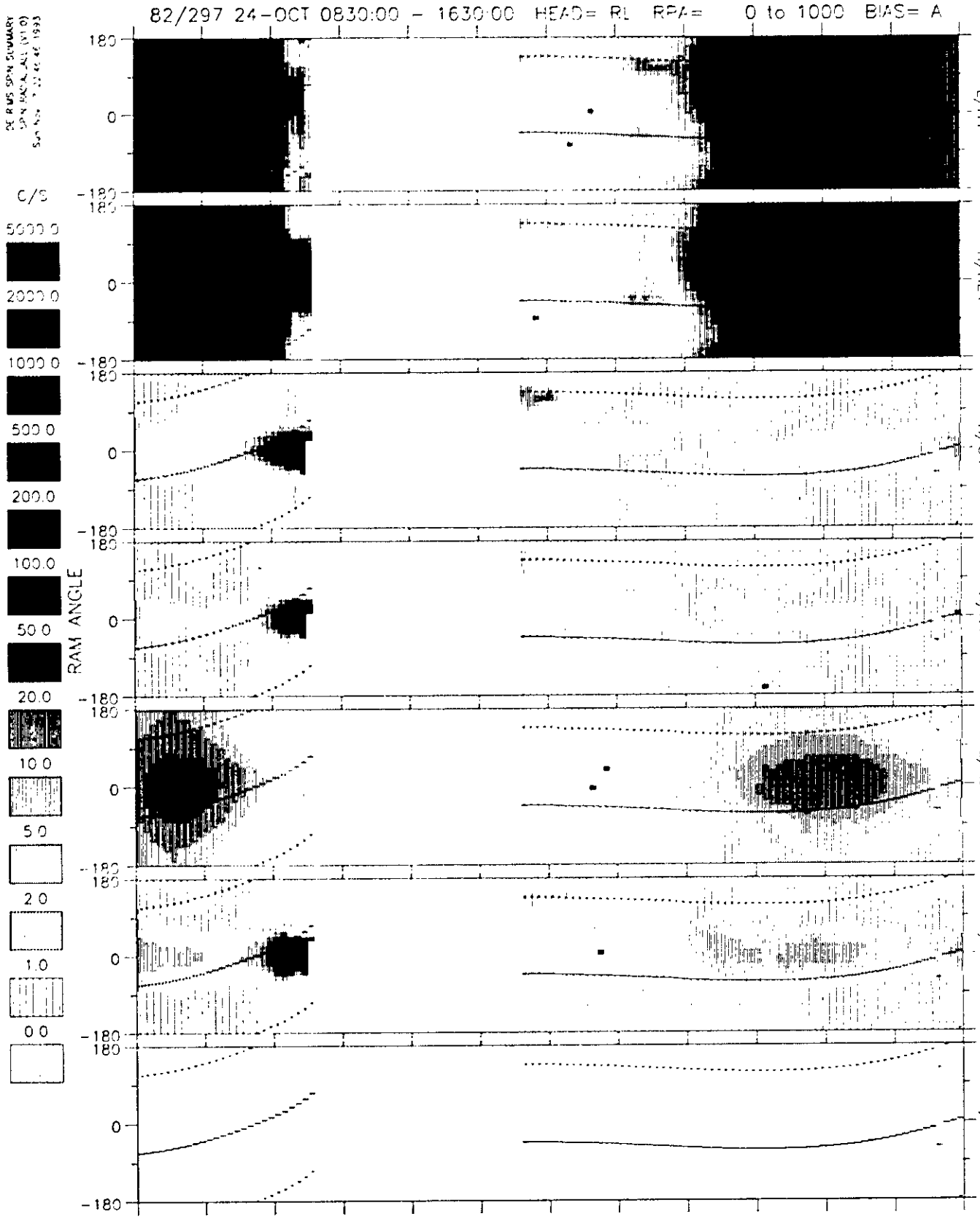


TIME	1255	1335	1415	1455	1535	1615	1655	1735	1815	1855	0000	HHMM
RE	2.5	1.2	1.9	3.1	3.9	4.4	4.6	4.6	4.3	3.7	0.0	RE
L	3.2	42.3	8.2	100.0	20.1	11.9	8.8	6.8	5.3	4.0	0.0	
MLT	9.0	21.3	20.6	11.1	9.9	9.6	9.5	9.4	9.2	9.0	0.0	HRS
MLAT	26.37	76.86	*****	*****	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	55.9	80.9	69.6	84.3	77.1	73.2	70.3	67.5	64.3	59.8	0.0	DEGS

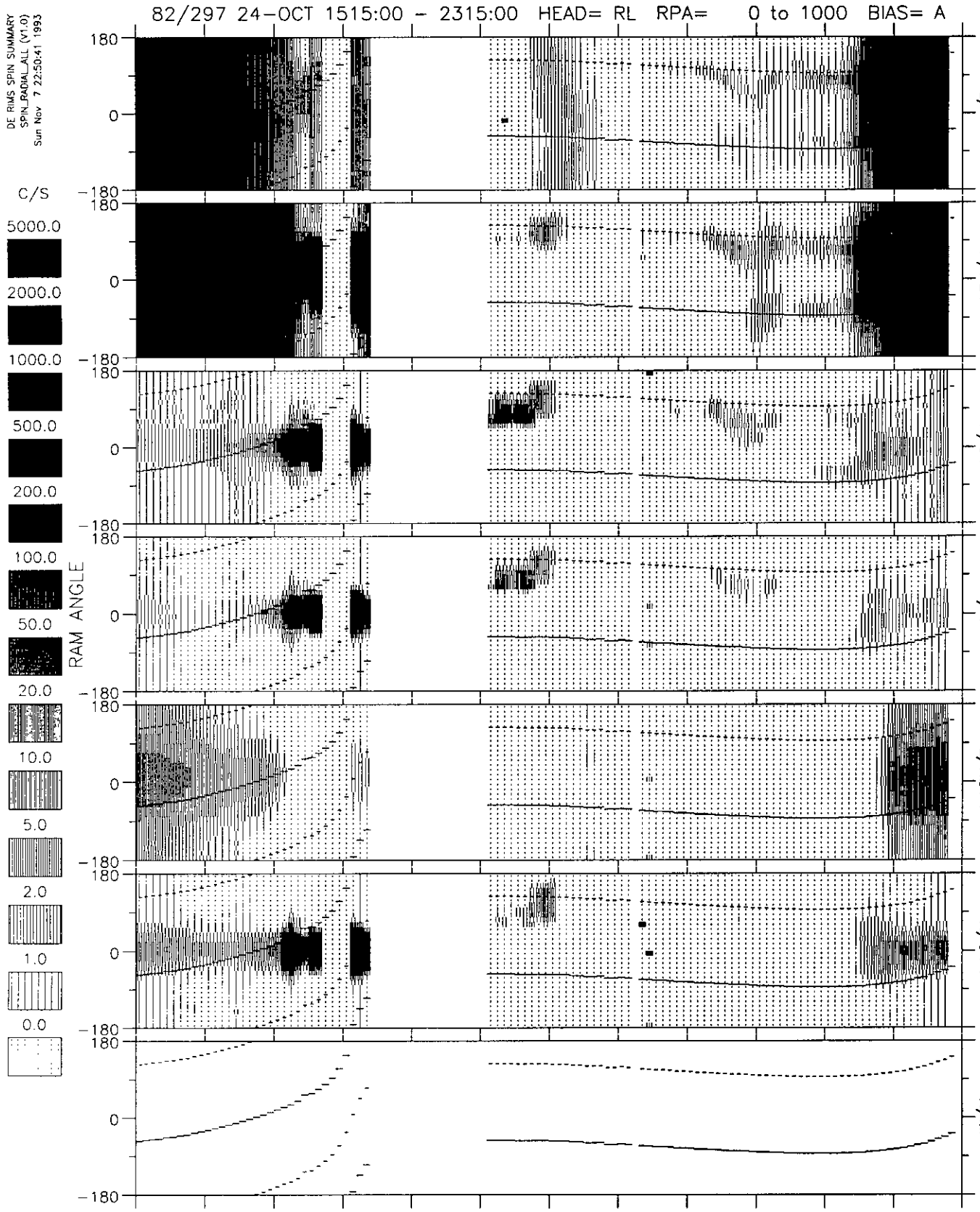

82/296 23-OCT 1830:00 - 0230:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
+O/H
+N/H
L/HE++
++O/H
H/MI
TIME 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 HHMM
RE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 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



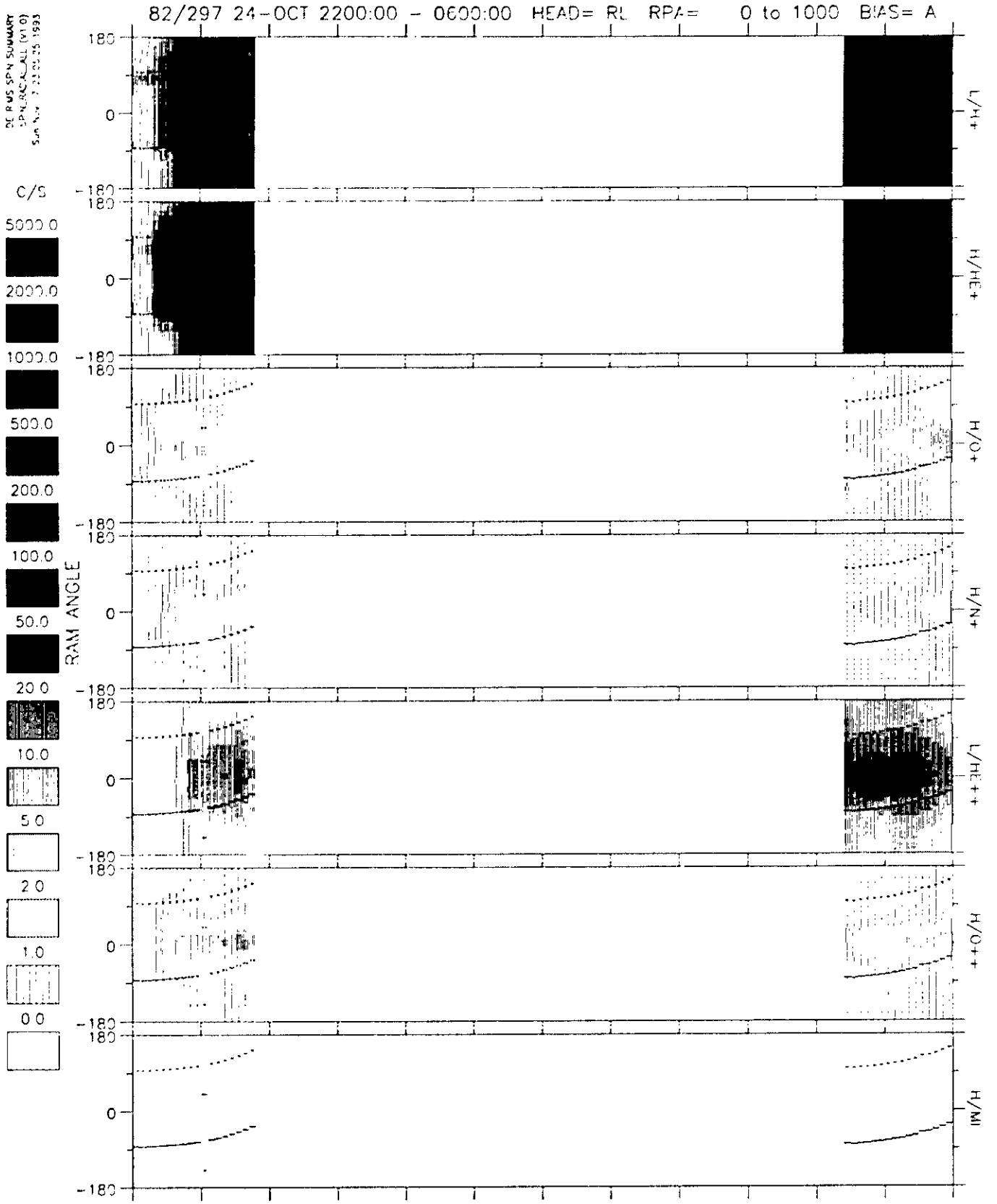
TIME	0000	0250	0000	0000	0450	0530	0610	0650	0730	0810	0850	HHMM
RE	0.0	2.1	0.0	0.0	3.4	4.1	4.5	4.7	4.5	4.2	3.5	RE
L	0.0	2.3	0.0	0.0	99.2	40.2	17.3	10.3	7.0	5.0	3.6	
MLT	0.0	8.9	0.0	0.0	2.1	6.7	7.7	8.1	8.4	8.7	8.9	HRS
MLAT	0.00	19.31	0.00	0.00	*****	*****	*****	*****	*****	*****	-3.99	DEGS
INVLAT	0.0	49.0	0.0	0.0	84.2	80.9	76.1	71.8	67.7	63.5	58.1	DEGS



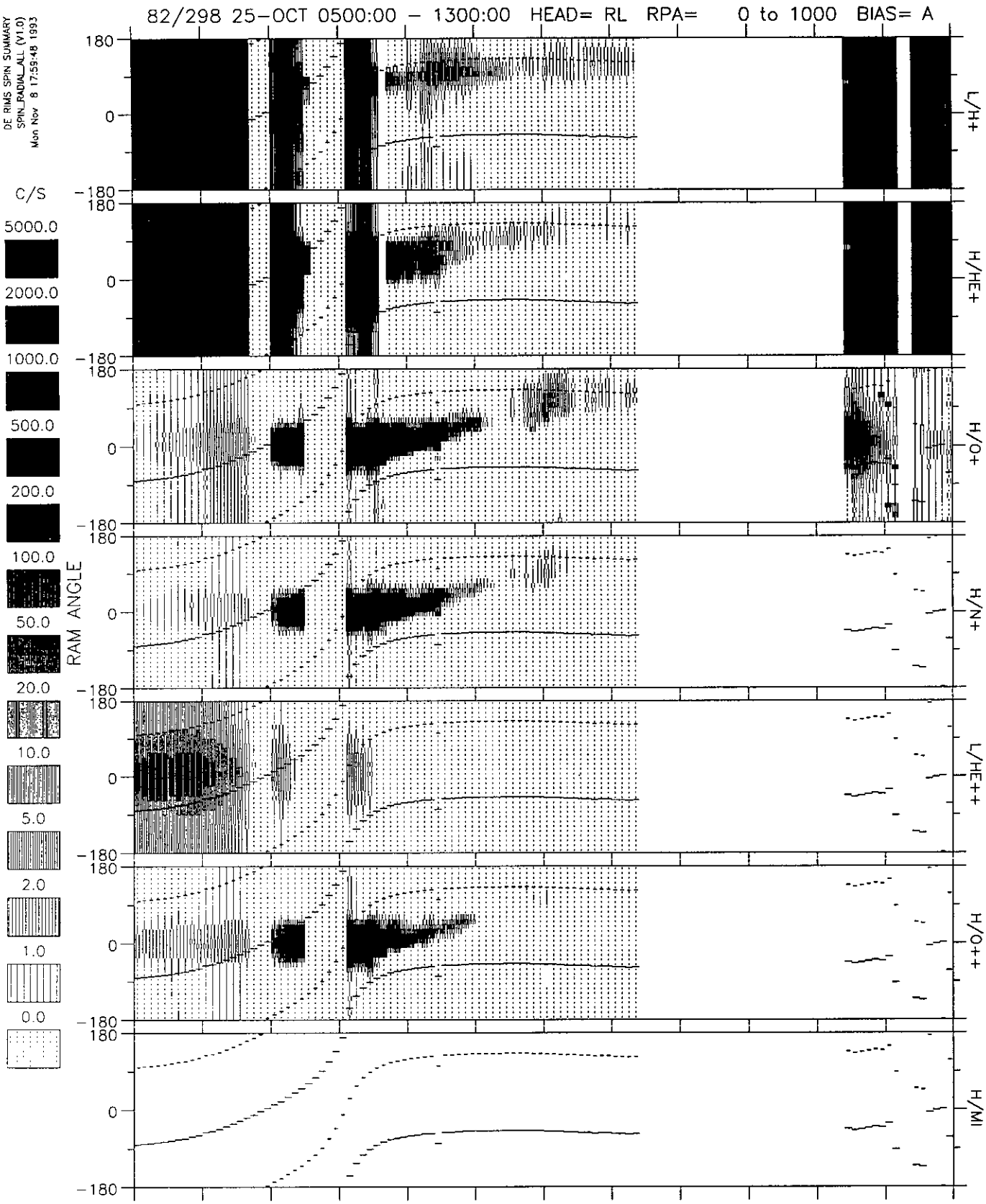
TIME	0910	0950	0000	0000	0000	1230	1310	1350	1430	1510	1550	HHMM
RE	3.0	1.7	0.0	0.0	0.0	4.2	4.6	4.7	4.5	4.0	3.3	RE
L	3.1	3.8	0.0	0.0	0.0	12.9	8.7	6.7	5.3	4.2	3.3	
MLT	9.1	9.7	0.0	0.0	0.0	8.7	8.9	9.0	9.0	9.0	8.8	HRS
MLAT	7.61	51.08	0.00	0.00	0.00	*****	*****	*****	*****	*****	4.31	DEGS
INVLAT	55.2	59.0	0.0	0.0	0.0	73.9	70.2	67.2	64.2	60.8	56.5	DEGS



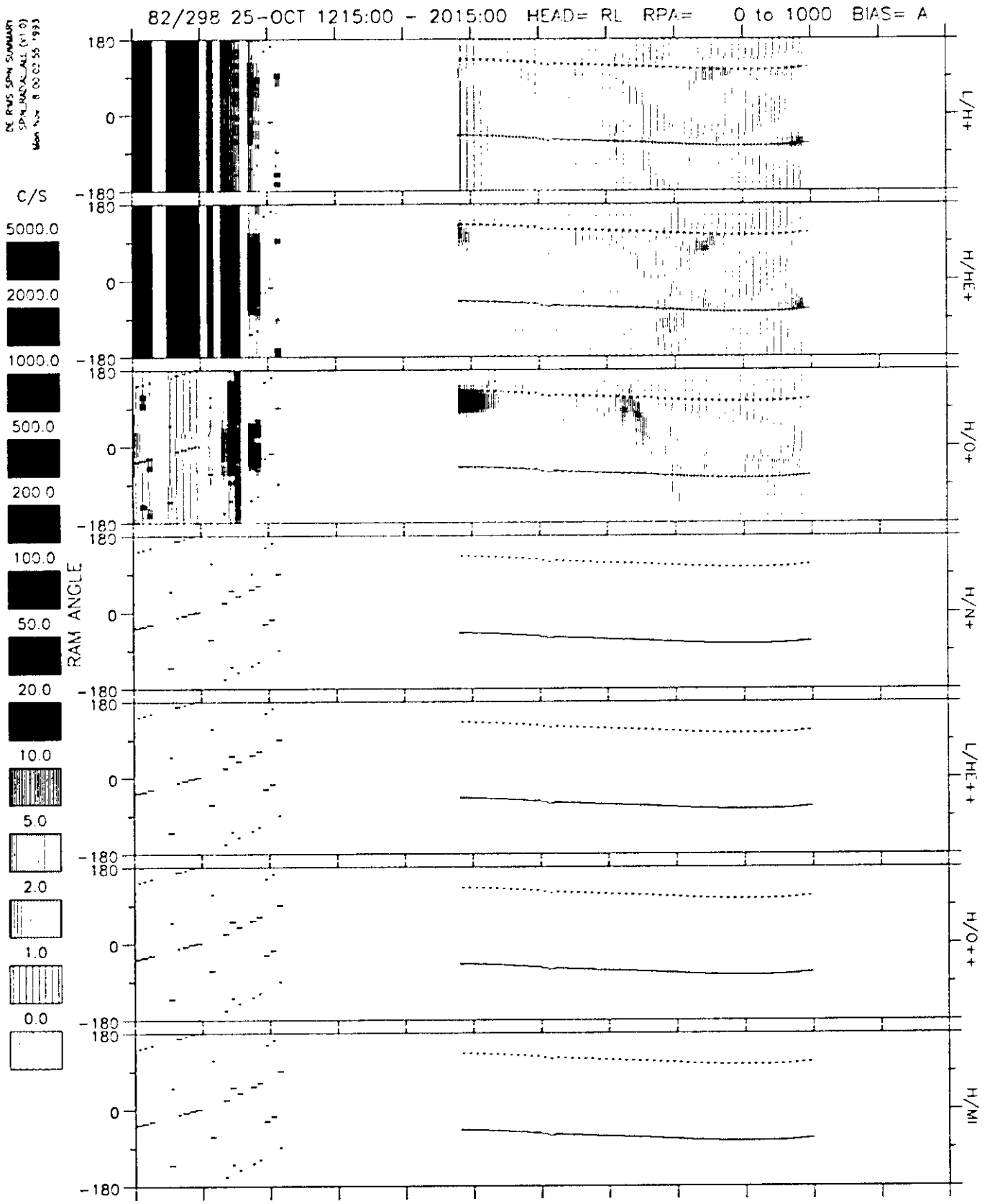
TIME	1555	1635	1715	0000	0000	1915	1955	2035	2115	2155	2235	HHMM
RE	3.1	1.9	1.2	0.0	0.0	4.2	4.5	4.7	4.5	4.1	3.4	RE
L	3.2	3.4	1.1	0.0	0.0	26.6	16.4	11.4	8.1	5.6	3.6	
MLT	8.8	8.3	20.9	0.0	0.0	10.6	9.9	9.5	9.2	8.9	8.7	HRS
MLAT	6.94	41.41	4.53	0.00	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	55.9	57.2	20.6	0.0	0.0	78.8	75.7	72.7	69.4	64.9	58.3	DEGS



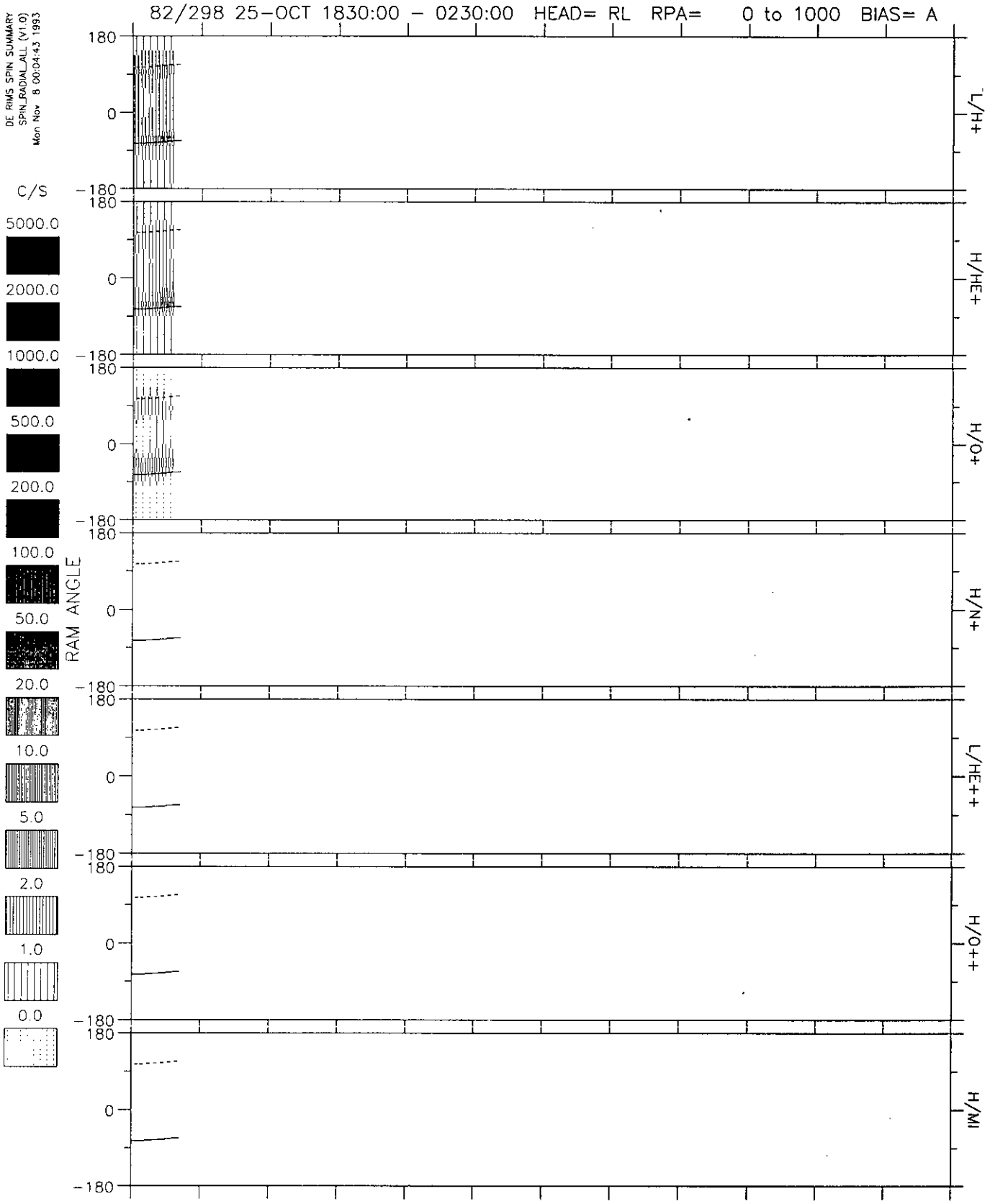
TIME	2240	0000	0000	0000	0000	0000	0000	0000	0000	0000	0520	HHMM
RE	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	RE
L	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	
MLT	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	HRS
MLAT	*****	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	DEGS
INVLAT	57.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.1	DEGS

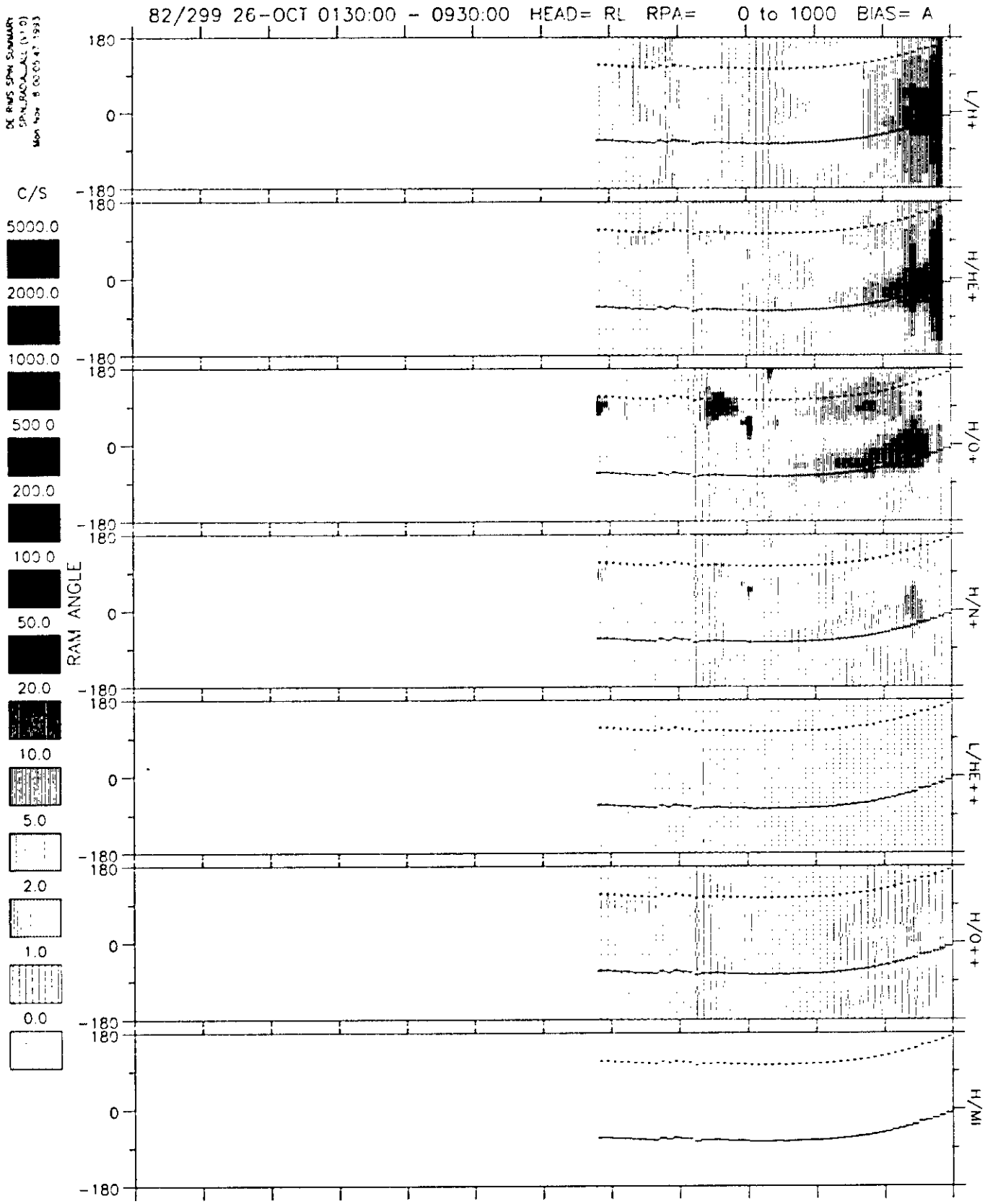


TIME	0540	0620	0700	0740	0820	0900	0940	0000	0000	0000	1220	HHMM
RE	3.0	1.8	1.3	2.6	3.6	4.2	4.6	0.0	0.0	0.0	3.3	RE
L	3.1	2.8	1.2	26.6	44.7	17.3	10.4	0.0	0.0	0.0	3.4	
MLT	8.8	9.5	21.0	23.4	6.0	7.7	8.2	0.0	0.0	0.0	8.9	HRS
MLAT	-3.75	37.47	-3.42	*****	*****	*****	*****	0.00	0.00	0.00	5.45	DEGS
INVLAT	55.2	53.0	26.3	78.8	81.4	76.1	71.9	0.0	0.0	0.0	57.1	DEGS

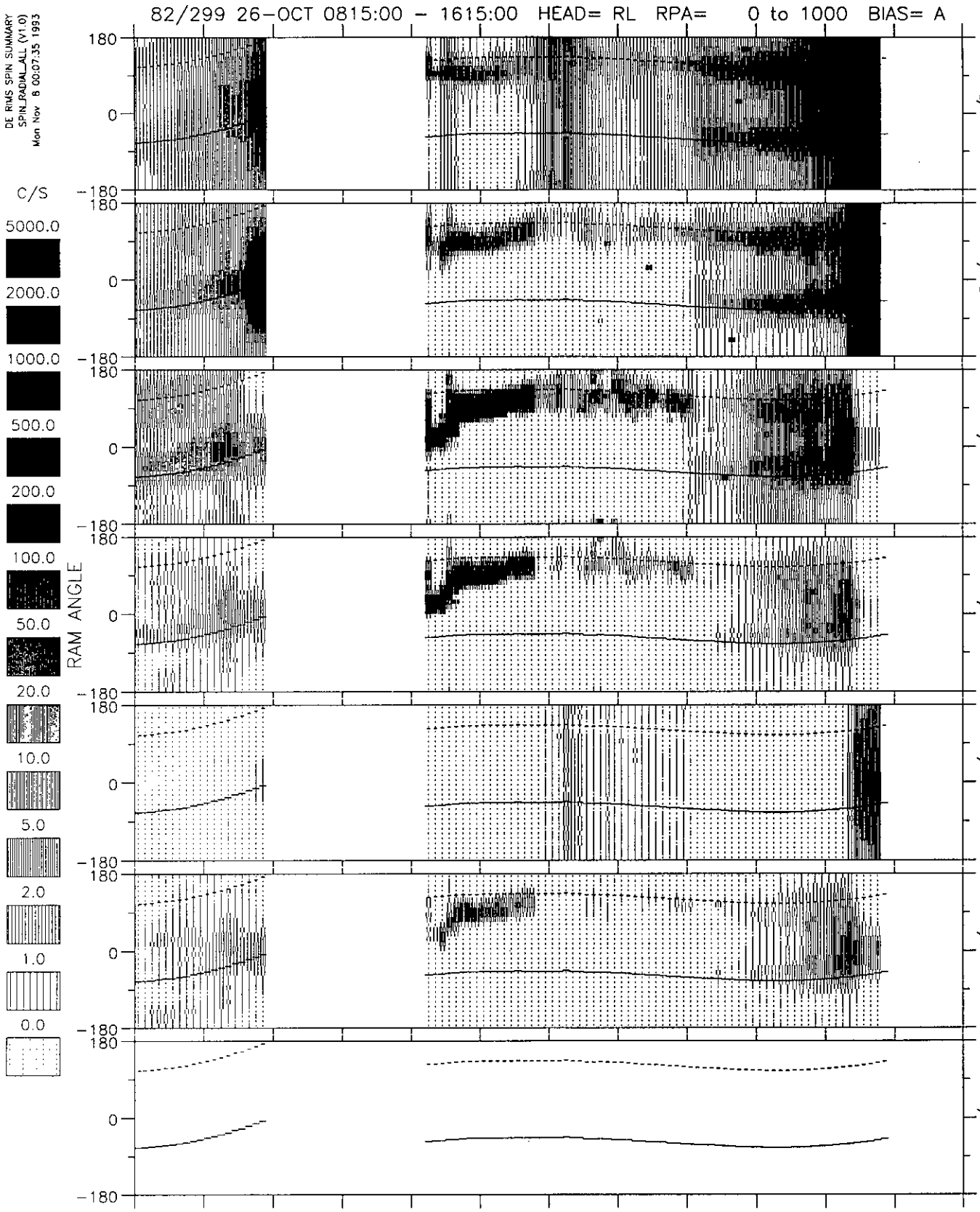


TIME	0000	1335	0000	0000	1535	1615	1655	1735	1815	0000	0000	HHMM
RE	0.0	1.1	0.0	0.0	4.0	4.5	4.7	4.6	4.3	0.0	0.0	RE
L	0.0	4.3	0.0	0.0	19.1	11.7	8.7	6.8	5.2	0.0	0.0	
MLT	0.0	21.0	0.0	0.0	9.8	9.5	9.4	9.2	9.1	0.0	0.0	HRS
MLAT	0.00	54.56	0.00	0.00	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	61.2	0.0	0.0	76.8	73.0	70.2	67.3	64.0	0.0	0.0	DEGS

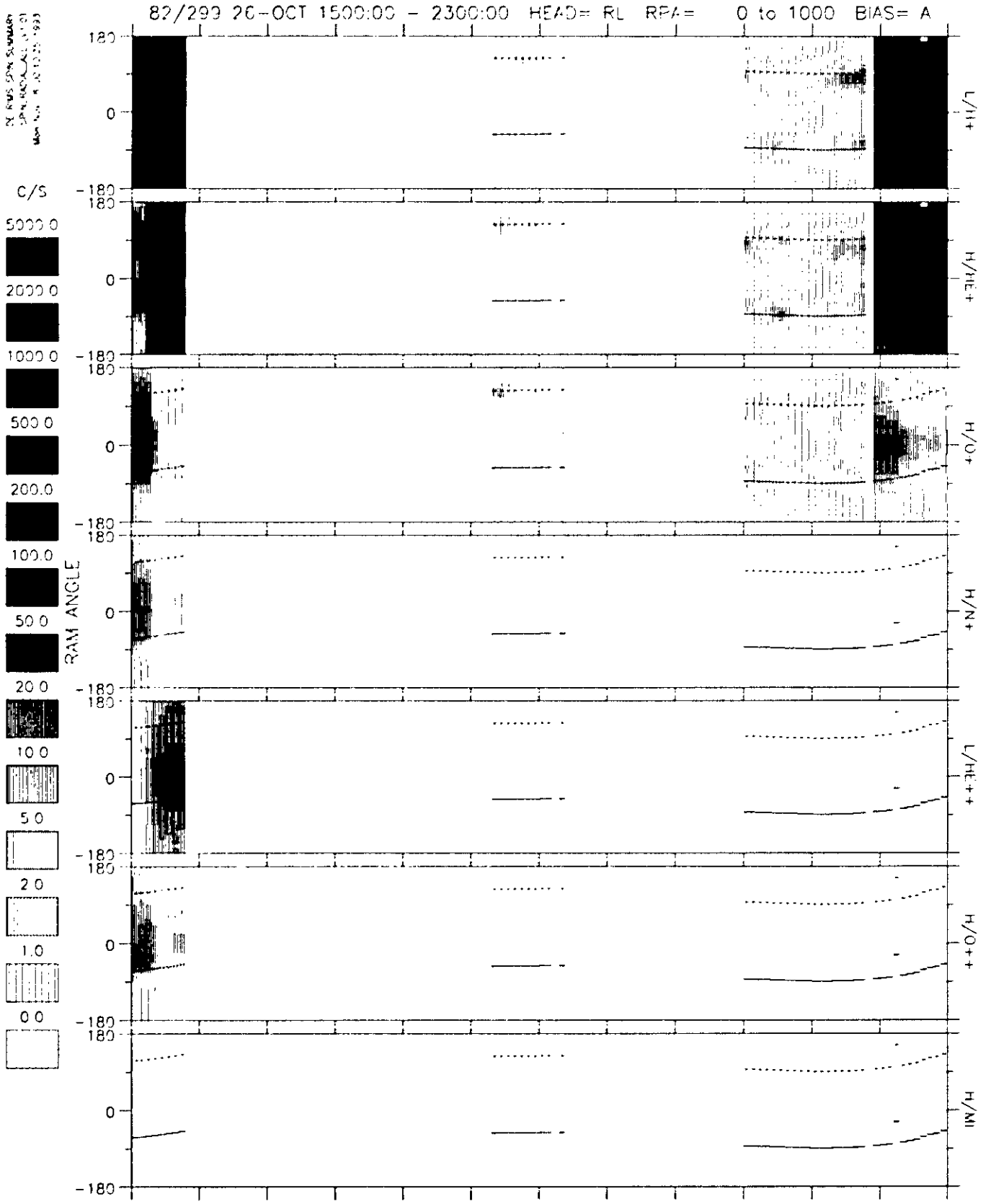

DE RIMS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Mon Nov 8 00:04:43 1993
82/298 25-OCT 1830:00 - 0230:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 0000 0000 0000 0000 0000 0000 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

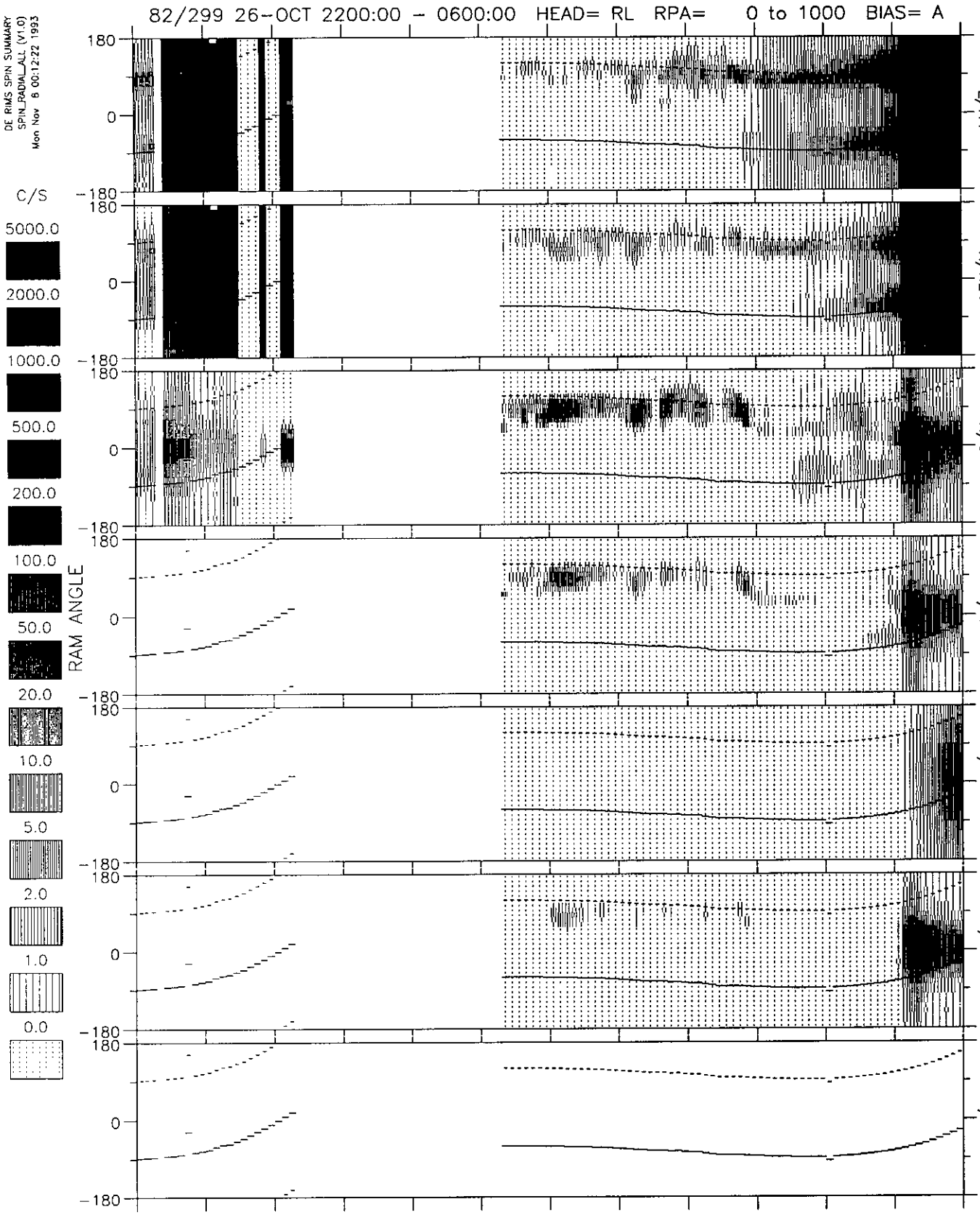


TIME	0000	0000	0000	0000	0000	0000	0610	0650	0730	0810	0850	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.7	4.5	4.1	3.3	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	16.3	9.9	6.9	4.8	3.4	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	7.6	8.1	8.3	8.6	8.8	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	-1.73	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	75.7	71.5	67.7	62.8	57.4	DEGS

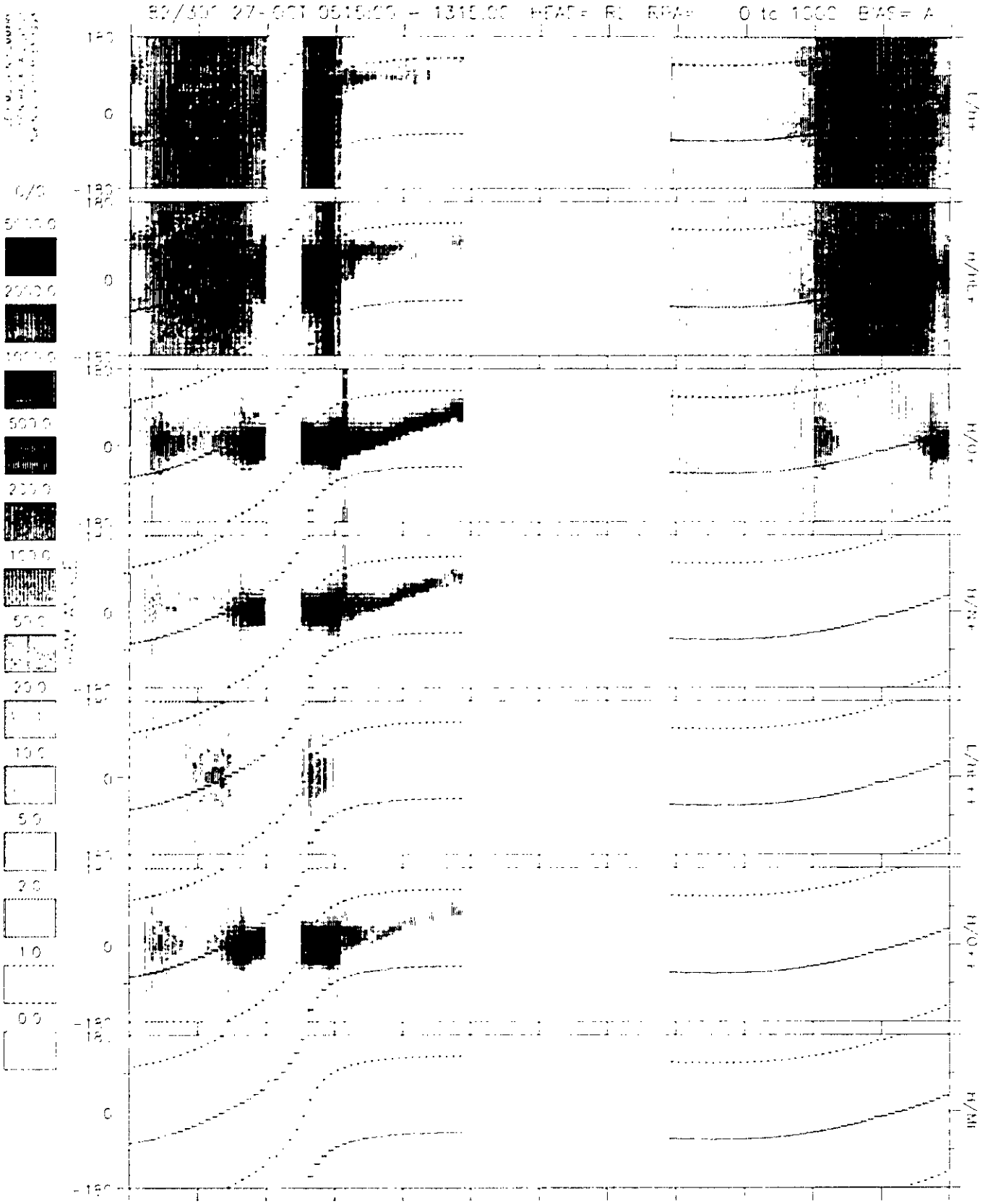


TIME	0855	0000	0000	0000	1135	1215	1255	1335	1415	1455	0000	HHMM
RE	3.2	0.0	0.0	0.0	3.4	4.1	4.5	4.7	4.5	4.2	0.0	RE
L	3.3	0.0	0.0	0.0	46.5	15.3	9.7	7.2	5.7	4.5	0.0	
MLT	8.9	0.0	0.0	0.0	7.8	8.5	8.8	8.9	8.9	8.9	0.0	HRS
MLAT	1.10	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	56.6	0.0	0.0	0.0	81.6	75.2	71.2	68.1	65.1	61.8	0.0	DEGS

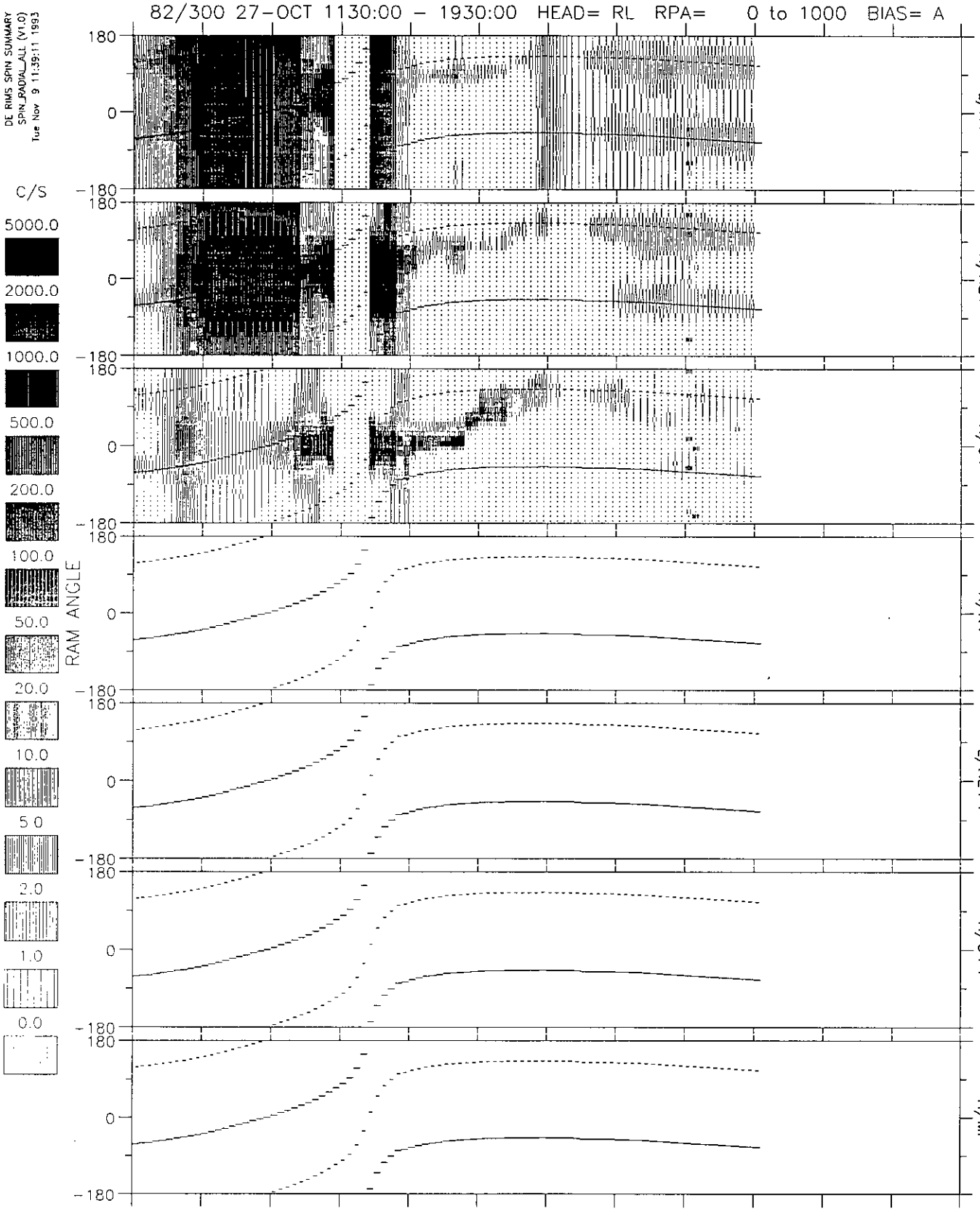

82/299 26-OCT 1500:00 - 2300:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/N
TIME 0000 0000 0000 0000 0000 1900 0000 0000 2100 2140 2220 HHMM
RE 0.0 0.0 0.0 0.0 0.0 4.0 0.0 0.0 4.6 4.2 3.6 RE
L 0.0 0.0 0.0 0.0 0.0 33.1 0.0 0.0 9.0 6.2 4.1
MLT 0.0 0.0 0.0 0.0 0.0 10.8 0.0 0.0 9.1 8.9 8.6 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 80.0 0.0 0.0 70.5 66.4 60.3 DEGS



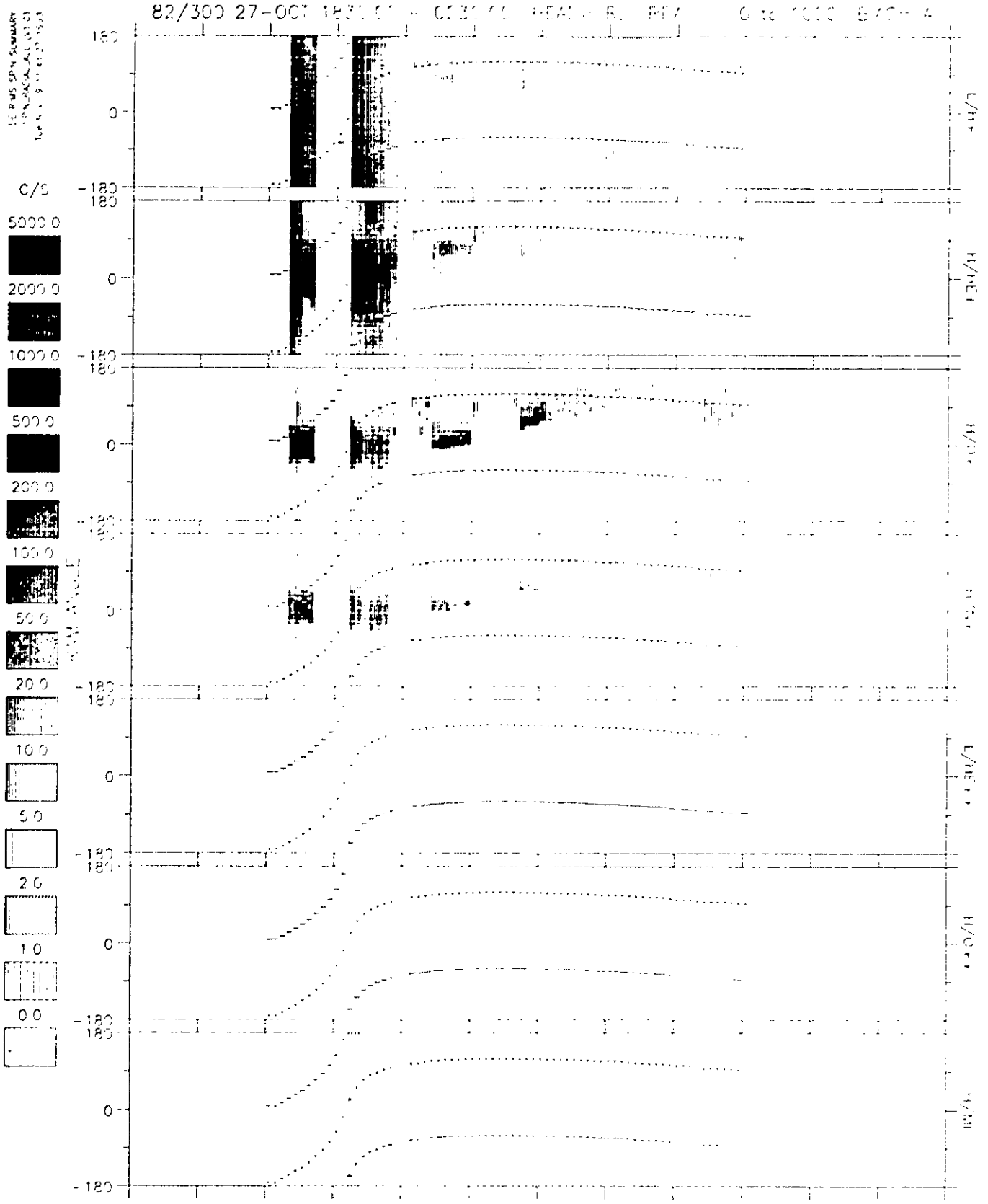
TIME	2240	2320	0000	0000	0000	0200	0240	0320	0400	0440	0520	HHMM
RE	3.2	1.9	0.0	0.0	0.0	4.2	4.5	4.7	4.5	4.1	3.4	RE
L	3.3	2.3	0.0	0.0	0.0	100.0	31.4	14.9	8.8	5.6	3.6	
MLT	8.6	8.3	0.0	0.0	0.0	7.2	7.7	7.9	8.1	8.3	8.6	HRS
MLAT	*****	23.11	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	56.6	48.6	0.0	0.0	0.0	85.2	79.7	75.0	70.3	64.9	58.2	DEGS



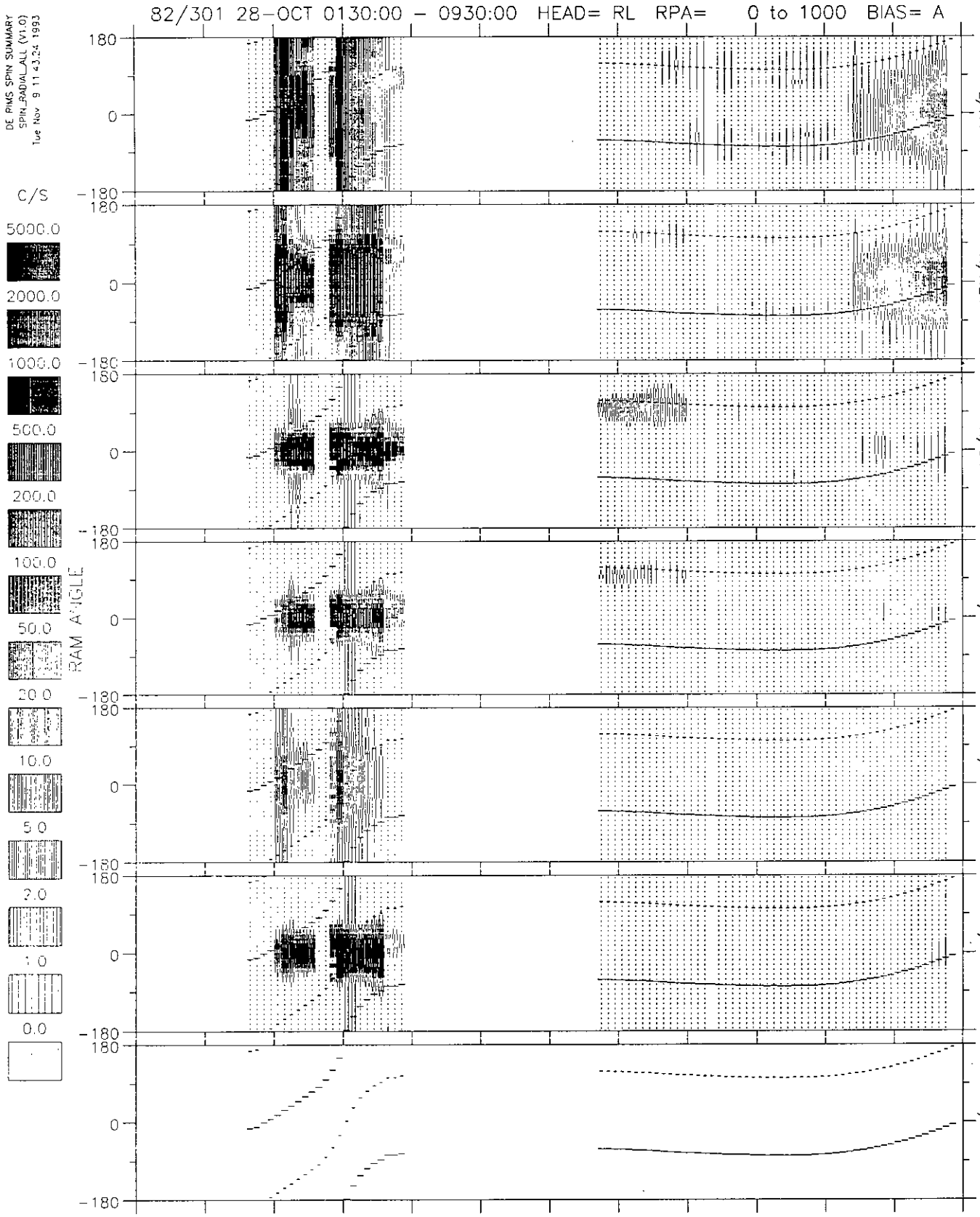
0 to 1000
BIAS= A
180
0
-180
L/H+
H/HL+
H/O+
H/N+
L/HL++
H/O++
H/MI
0/0
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
TIME 0555 0635 0715 0755 0000 0000 0000 1035 1115 1155 1235 HHMM
RE 2.5 1.2 1.9 3.1 0.0 0.0 0.0 4.6 4.3 3.7 2.8 RE
L 2.5 42.3 5.0 72.7 0.0 0.0 0.0 6.4 4.9 3.8 3.1
MIT 8.9 16.4 21.8 2.8 0.0 0.0 0.0 8.5 8.6 8.7 8.8 HRS
MIAT 11.64 77.51 ***** ***** 0.00 0.00 0.00 ***** ***** -4.36 17.55 DEGS
INJAT 51.2 81.1 63.4 83.3 0.0 0.0 0.0 66.8 63.2 59.1 55.5 DEGS



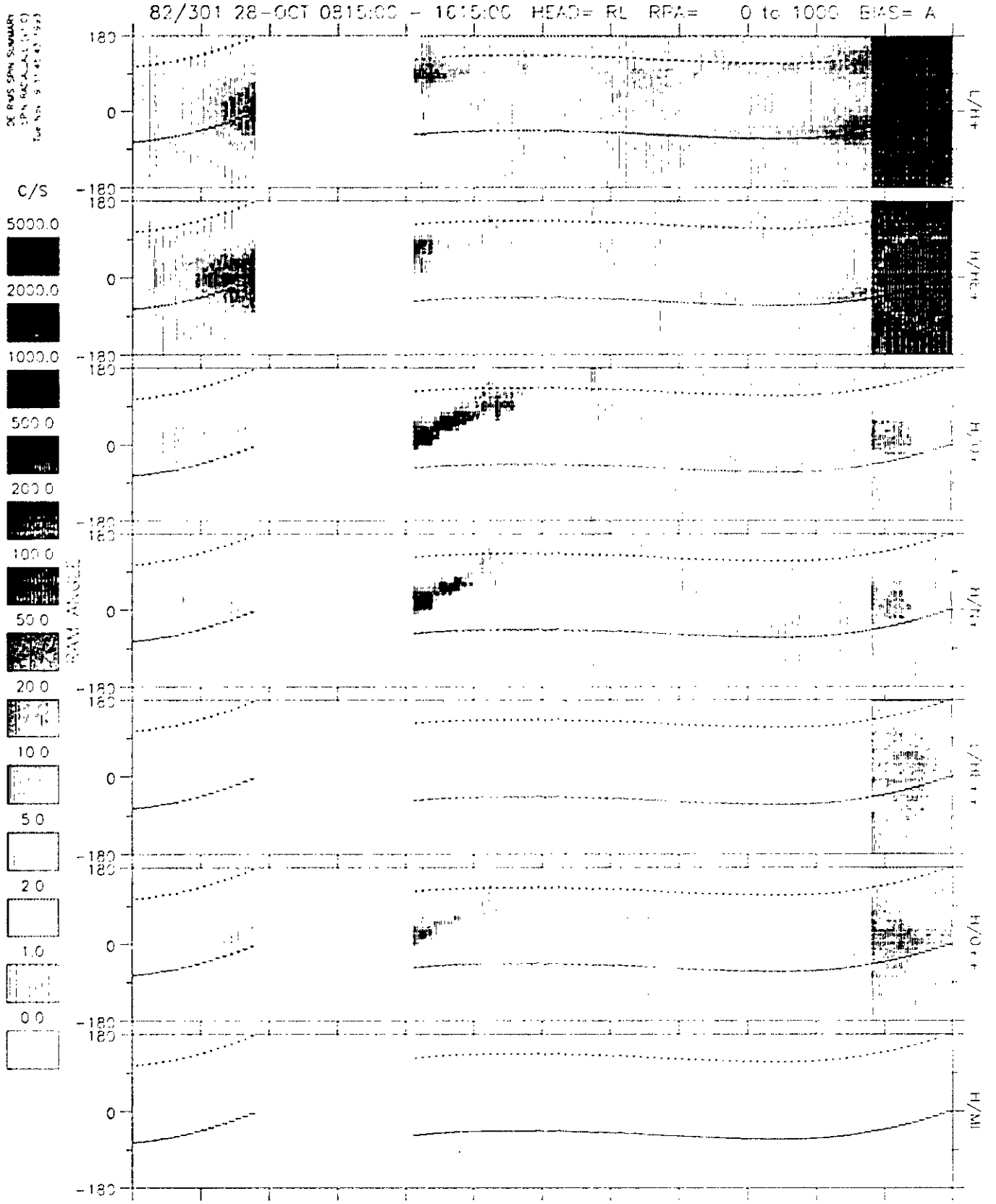
TIME	1210	1250	1330	1410	1450	1530	1610	1650	1730	0000	0000	HHMM
RE	3.4	2.3	1.1	2.1	3.2	4.0	4.5	4.7	4.6	0.0	0.0	RE
L	3.5	3.2	4.0	14.8	78.9	19.9	12.1	8.9	7.0	0.0	0.0	
MLT	8.7	8.7	20.9	20.1	10.7	9.7	9.4	9.3	9.1	0.0	0.0	HRS
MLAT	2.48	30.67	53.53	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	57.6	56.0	60.1	74.9	83.5	77.0	73.3	70.4	67.8	0.0	0.0	DEGS

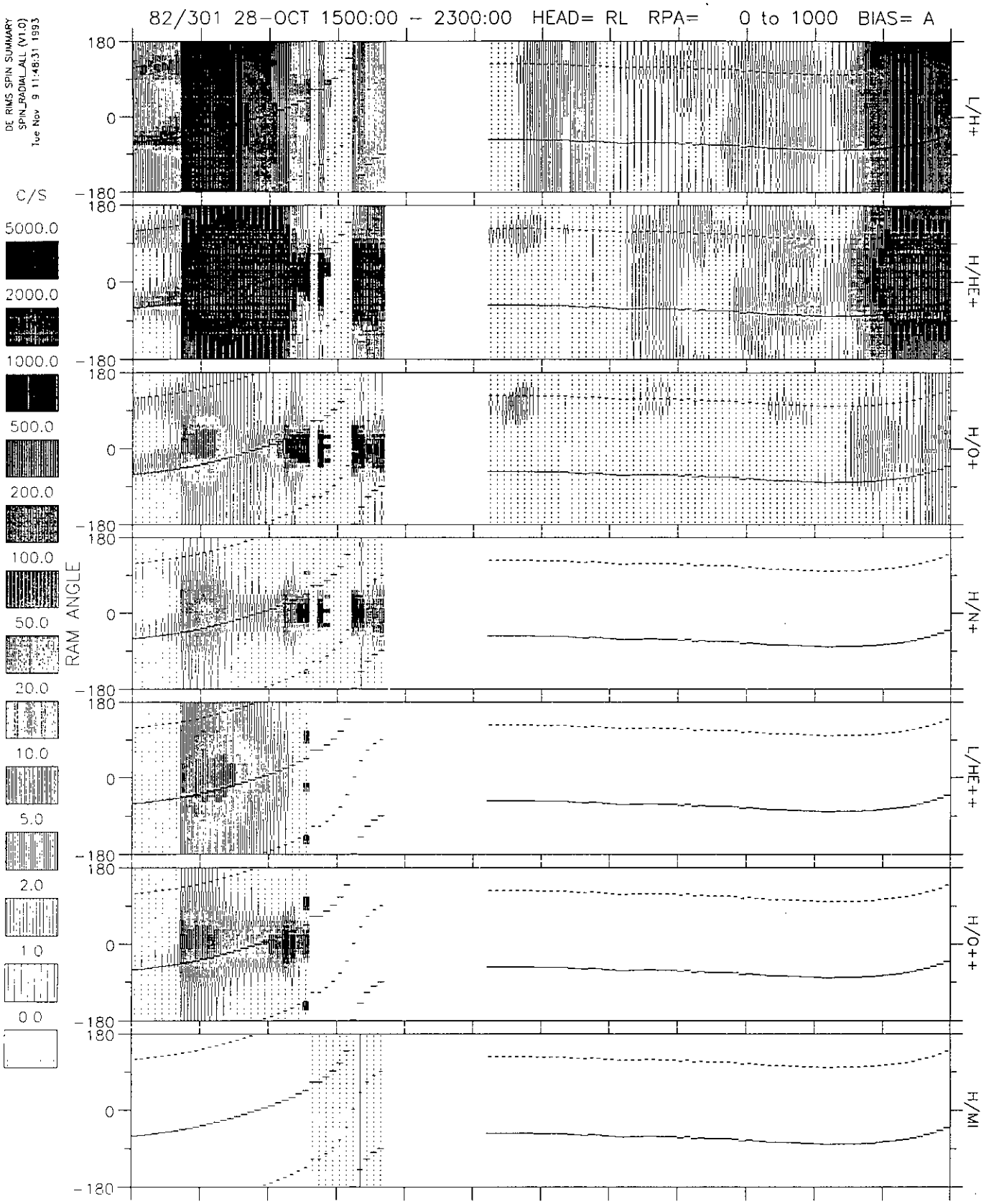


TIME	0000	1950	2030	[illegible]	2150	[illegible]	2310	2350	[illegible]	[illegible]	[illegible]	HHMM
RE	0.0	2.0	1.1	0.0	3.5	4.1	4.5	4.7	4.5	0.0	0.0	RE
L	0.0	2.5	1.2	0.0	100.0	100.0	35.1	17.6	10.6	0.0	0.0	
MLT	0.0	8.1	20.8	0.0	16.3	10.6	9.2	8.7	8.5	0.0	0.0	HRS
MLAT	0.00	27.32	24.82	0.00	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	50.6	24.3	0.0	84.8	84.4	80.3	76.2	72.1	0.0	0.0	DEGS

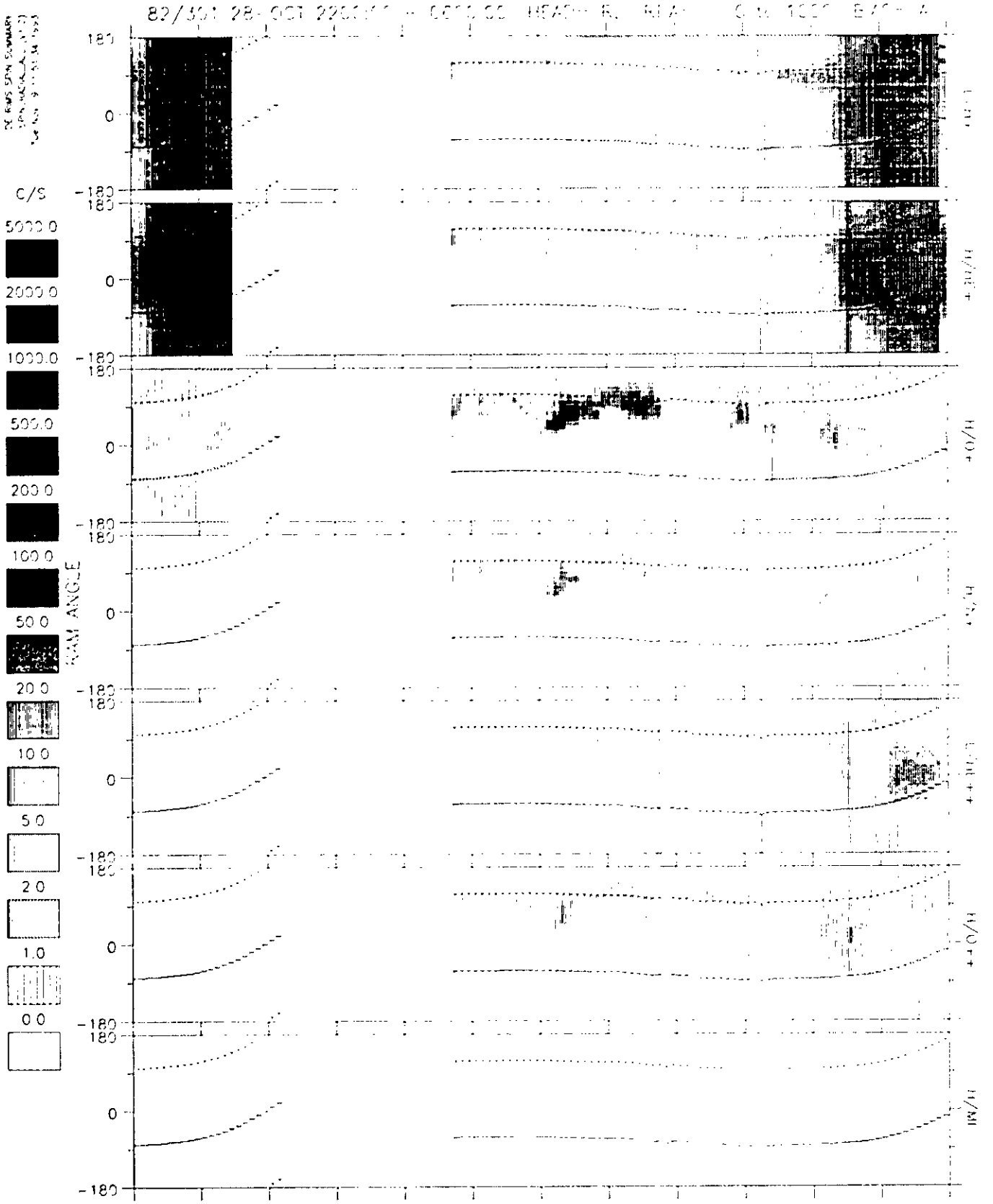


TIME	0000	0250	0330	0000	0000	0000	0610	0650	0730	0810	0850	HHMM
RE	0.0	1.7	1.4	0.0	0.0	0.0	4.6	4.7	4.5	4.0	3.2	RE
L	0.0	2.7	1.4	0.0	0.0	0.0	15.5	9.5	6.5	4.6	3.3	
MLT	0.0	8.8	20.6	0.0	0.0	0.0	7.5	8.0	8.3	8.5	8.8	HRS
MLAT	0.00	35.74	-4.89	0.00	0.00	0.00	*****	*****	*****	*****	0.73	DEGS
INVLAT	0.0	52.6	31.7	0.0	0.0	0.0	75.3	71.1	66.9	62.2	56.6	DEGS

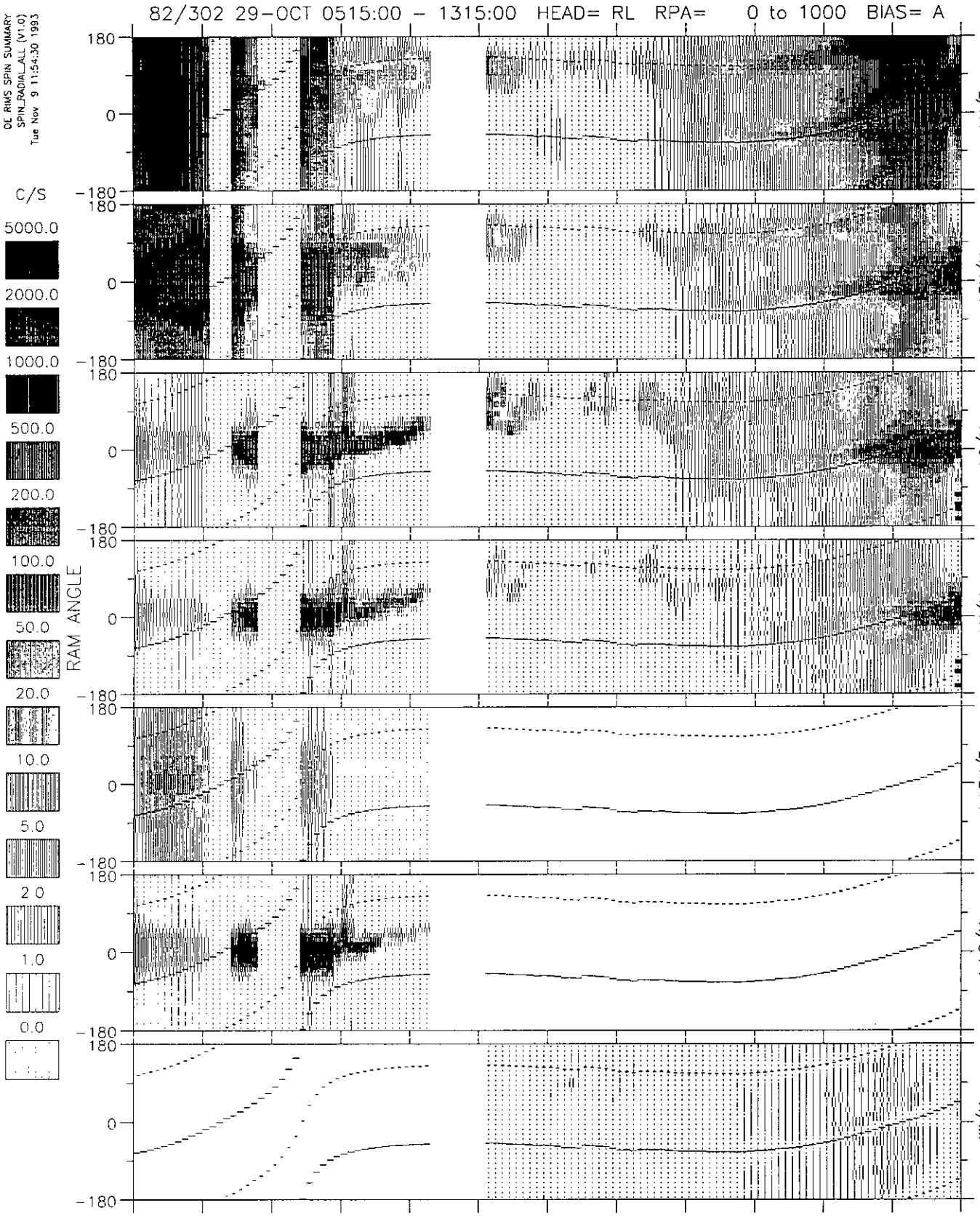

82/301 28-OCT 0815:00 - 1615:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
PARM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
C/HE++
H/O++
H/M
TIME
RE
L
MLT
MLAT
INVLAT



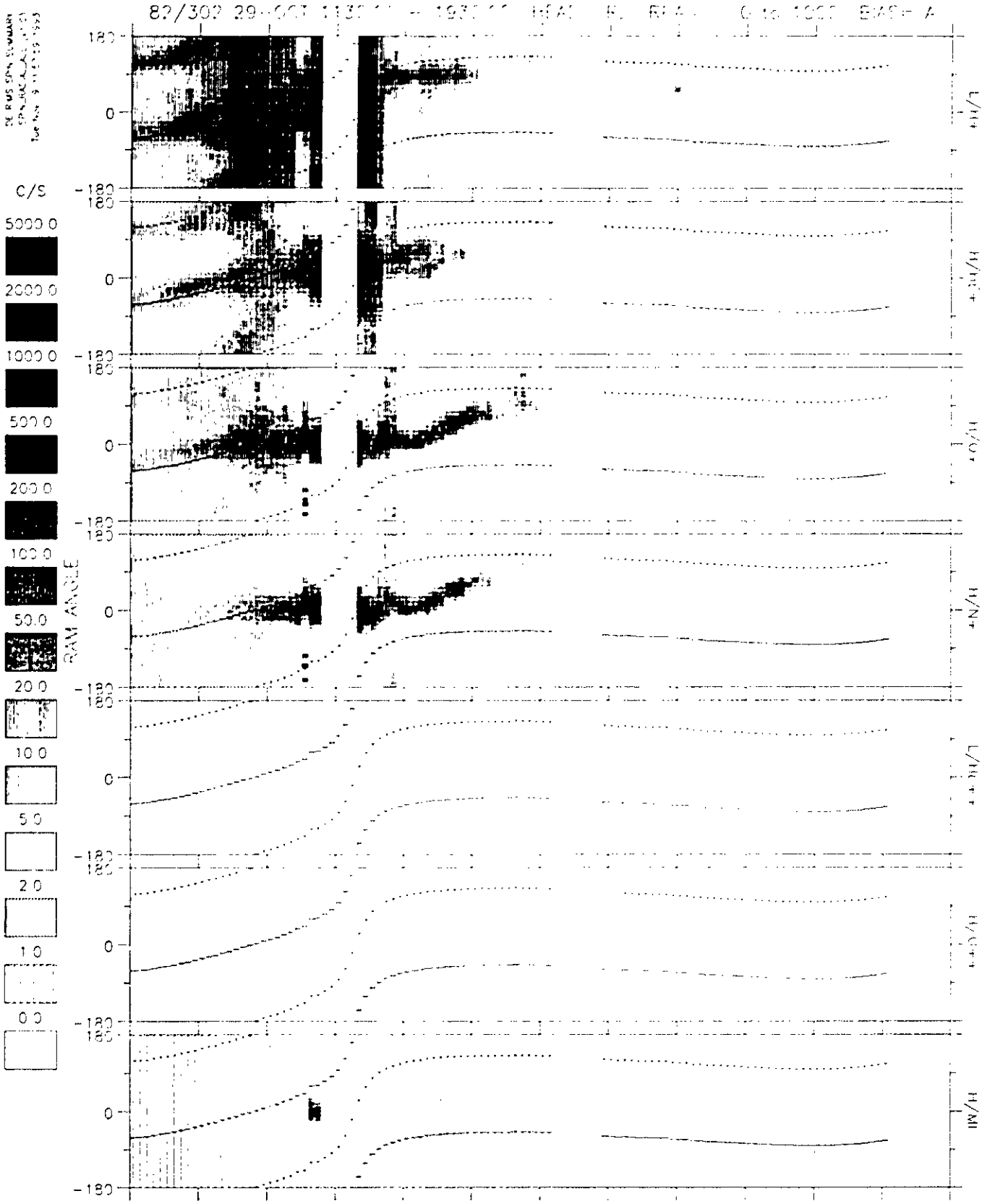
TIME	1540	1620	1700	0000	0000	1900	1940	2020	2100	2140	2220	HHMM
RE	3.2	2.1	1.1	0.0	0.0	4.1	4.5	4.7	4.5	4.2	3.5	RE
L	3.3	3.0	1.3	0.0	0.0	32.0	18.6	12.6	8.8	6.0	3.9	
MLT	8.6	8.2	20.9	0.0	0.0	10.6	9.8	9.3	9.0	8.7	8.5	HRS
MLAT	3.21	34.10	24.62	0.00	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	56.3	54.8	29.1	0.0	0.0	79.8	76.6	73.6	70.3	65.9	59.4	DEGS

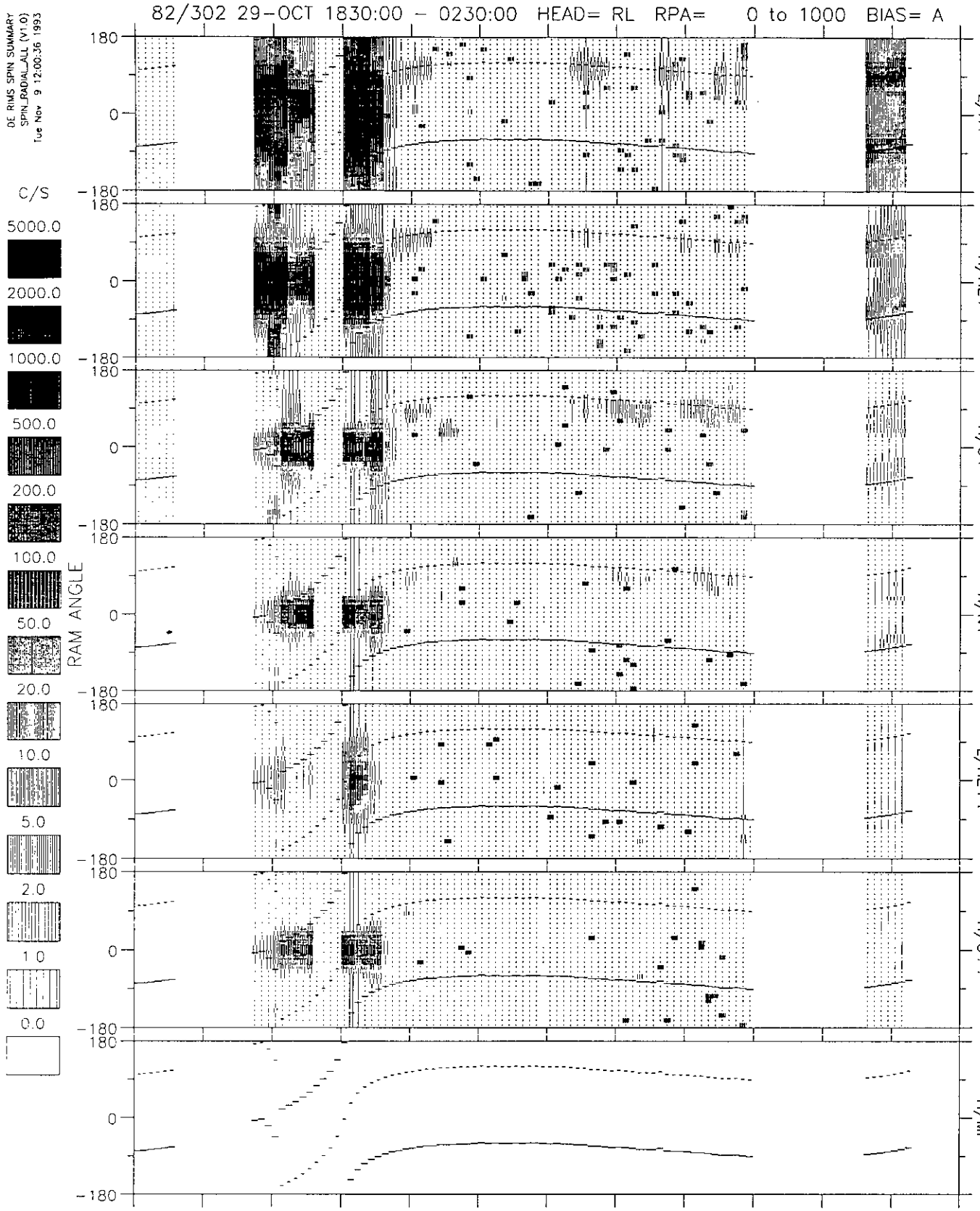


TIME	2240	2320	0000	0040	0120	0200	0240	0320	0400	0440	0520	HHMM
RE	3.0	1.8	0.0	0.0	3.5	4.2	4.6	4.7	4.5	4.0	3.3	RE
L	3.0	2.5	0.0	0.0	100.0	100.0	29.1	14.1	8.4	5.3	3.4	
MLT	8.4	8.1	0.0	0.0	21.4	7.1	7.6	7.8	8.0	8.2	8.5	HRS
MLAT	-9.56	31.20	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	54.8	50.3	0.0	0.0	80.4	84.7	79.3	74.6	69.8	64.3	57.3	DEGS

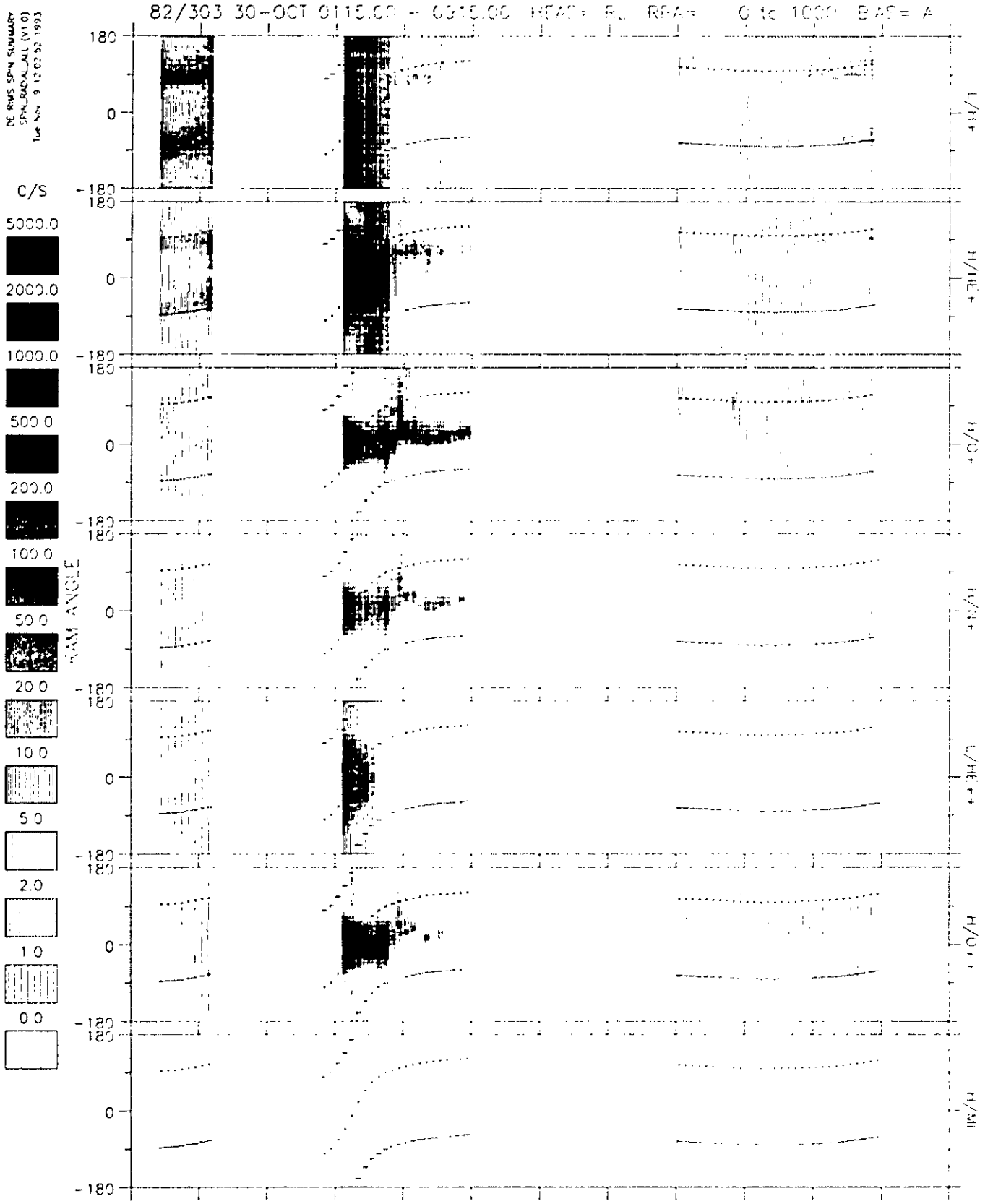


TIME	0555	0635	0715	0755	0000	0915	0955	1035	1115	1155	1235	HHMM
RE	2.3	1.1	2.1	3.3	0.0	4.5	4.7	4.6	4.2	3.6	2.6	RE
L	2.5	4.1	7.6	72.3	0.0	12.7	8.5	6.3	4.8	3.7	3.1	
MLT	8.9	19.3	21.9	3.6	0.0	7.8	8.2	8.4	8.5	8.6	8.6	HRS
MLAT	16.74	59.04	*****	*****	0.00	*****	*****	*****	*****	-2.66	21.12	DEGS
INVLAT	50.4	60.2	68.8	83.2	0.0	73.7	69.9	66.4	62.7	58.6	55.2	DEGS

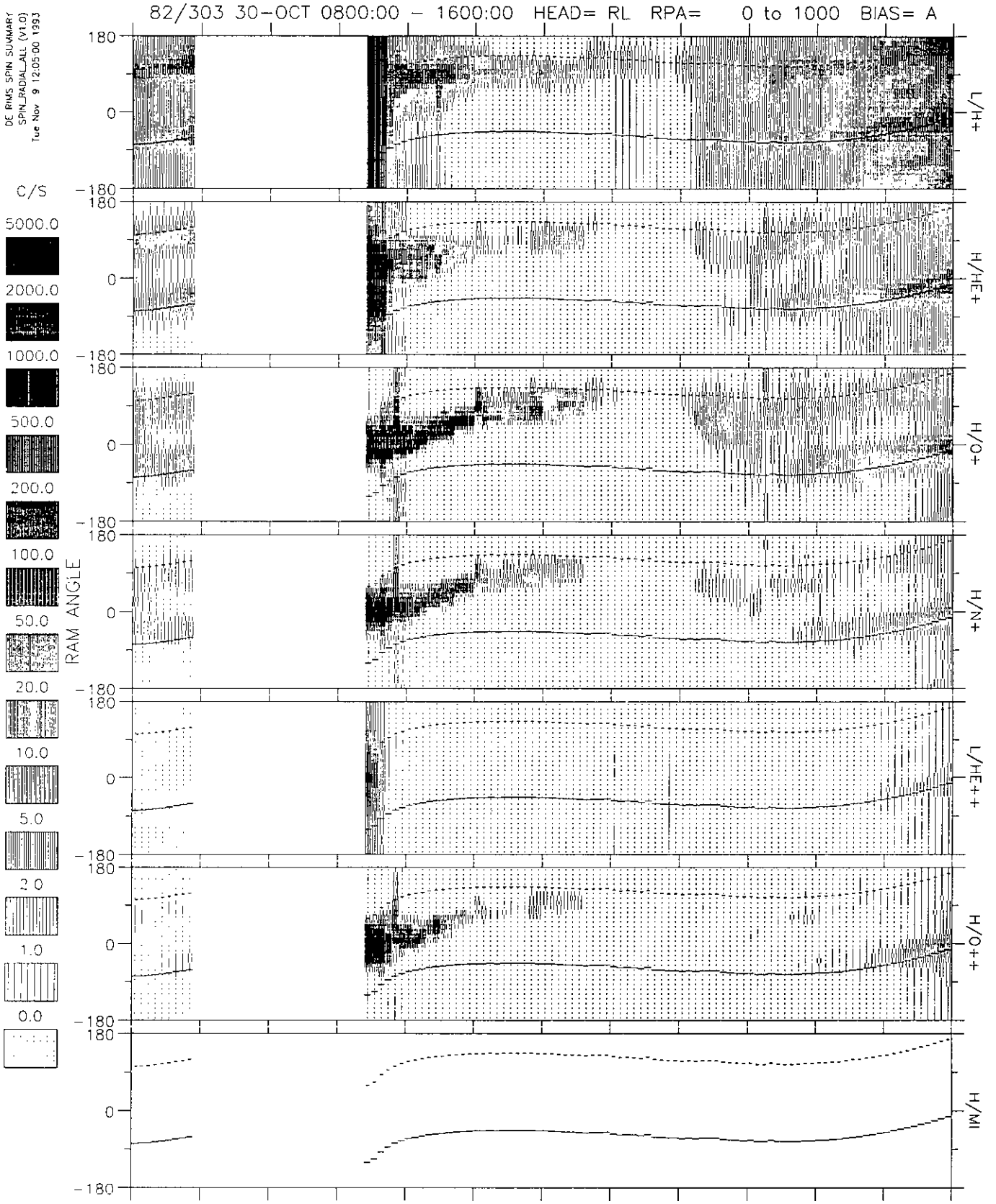

C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/H+
H/O+
H/N+
L/H++
H/O++
H/MI
TIME
RE
L
MLT
MLAT
INVLAT
HHMM
RE
HRS
DEGS
DEGS



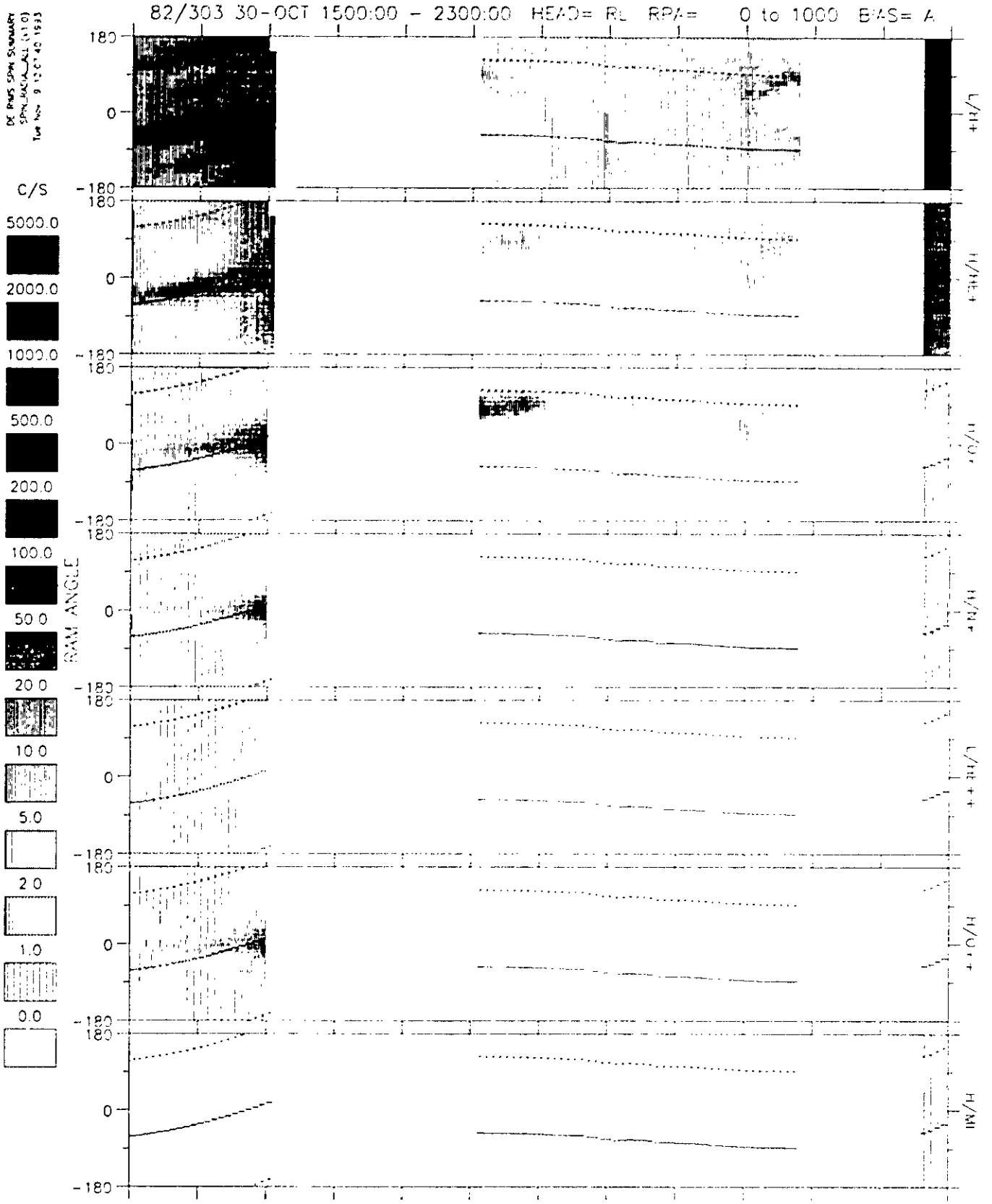
TIME	0000	1950	2030	2110	2150	2230	2310	2350	0000	0000	0150	HHMM
RE	0.0	1.8	1.2	2.6	3.6	4.2	4.6	4.7	0.0	0.0	3.3	RE
L	0.0	2.6	1.3	12.0	100.0	98.6	33.6	17.0	0.0	0.0	3.6	
MLT	0.0	7.8	20.4	19.1	15.6	10.2	9.0	8.5	0.0	0.0	8.3	HRS
MLAT	0.00	34.28	4.94	*****	*****	*****	*****	*****	0.00	0.00	*****	DEGS
INVLAT	0.0	51.8	28.3	73.2	85.4	84.2	80.1	75.9	0.0	0.0	58.1	DEGS



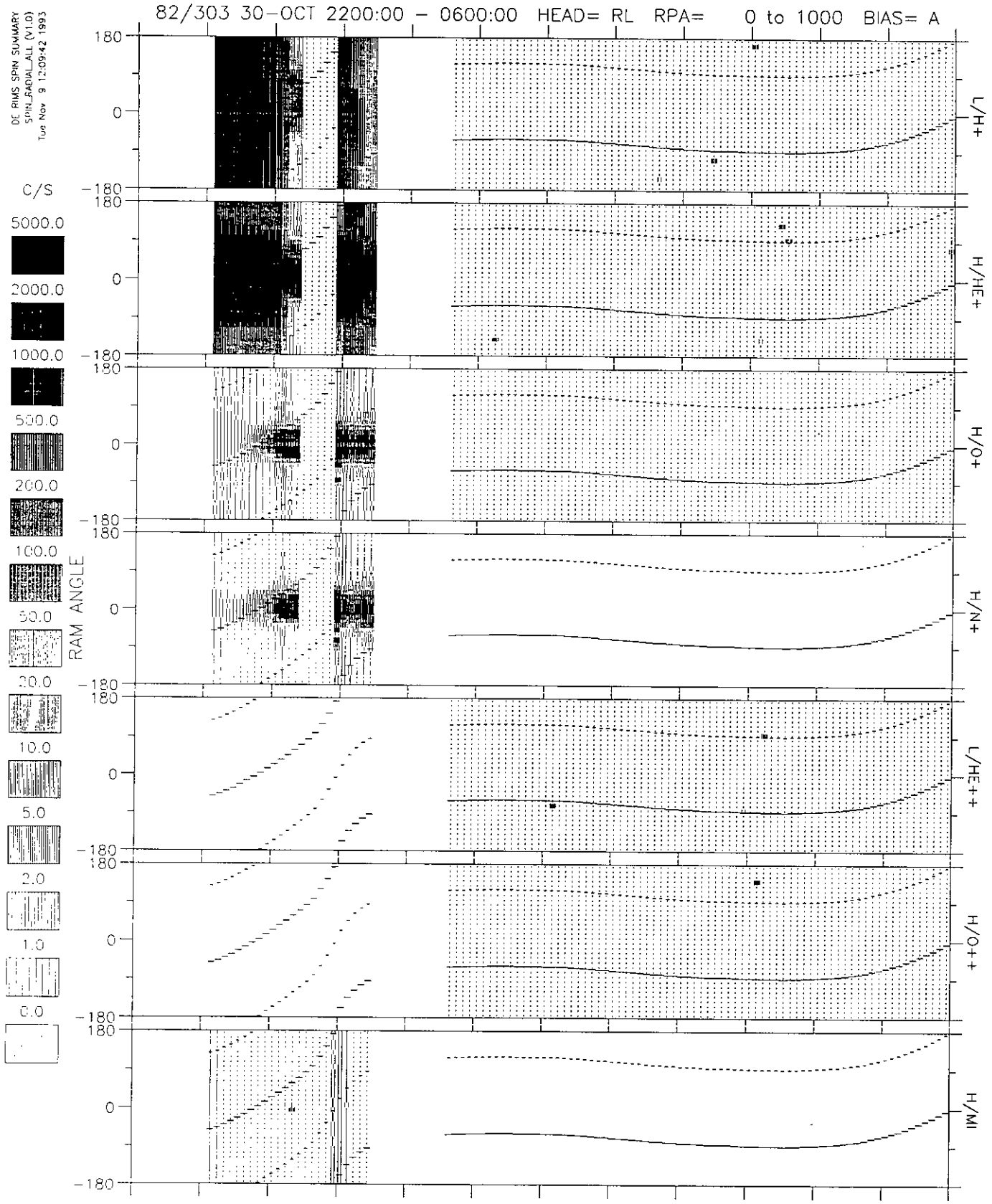
TIME	0155	0000	0315	0355	0000	0000	0000	0635	0715	0755	0000	HHMM
RE	3.2	0.0	1.1	2.4	0.0	0.0	0.0	4.7	4.5	4.1	0.0	RE
L	3.4	0.0	1.5	8.0	0.0	0.0	0.0	10.8	7.2	5.0	0.0	
MLT	8.3	0.0	20.1	21.4	0.0	0.0	0.0	7.7	8.1	8.3	0.0	HRS
MLAT	*****	0.00	31.72	*****	0.00	0.00	0.00	*****	*****	*****	0.00	DEGS
INVLAT	56.9	0.0	36.4	69.3	0.0	0.0	0.0	72.2	68.1	63.5	0.0	DEGS



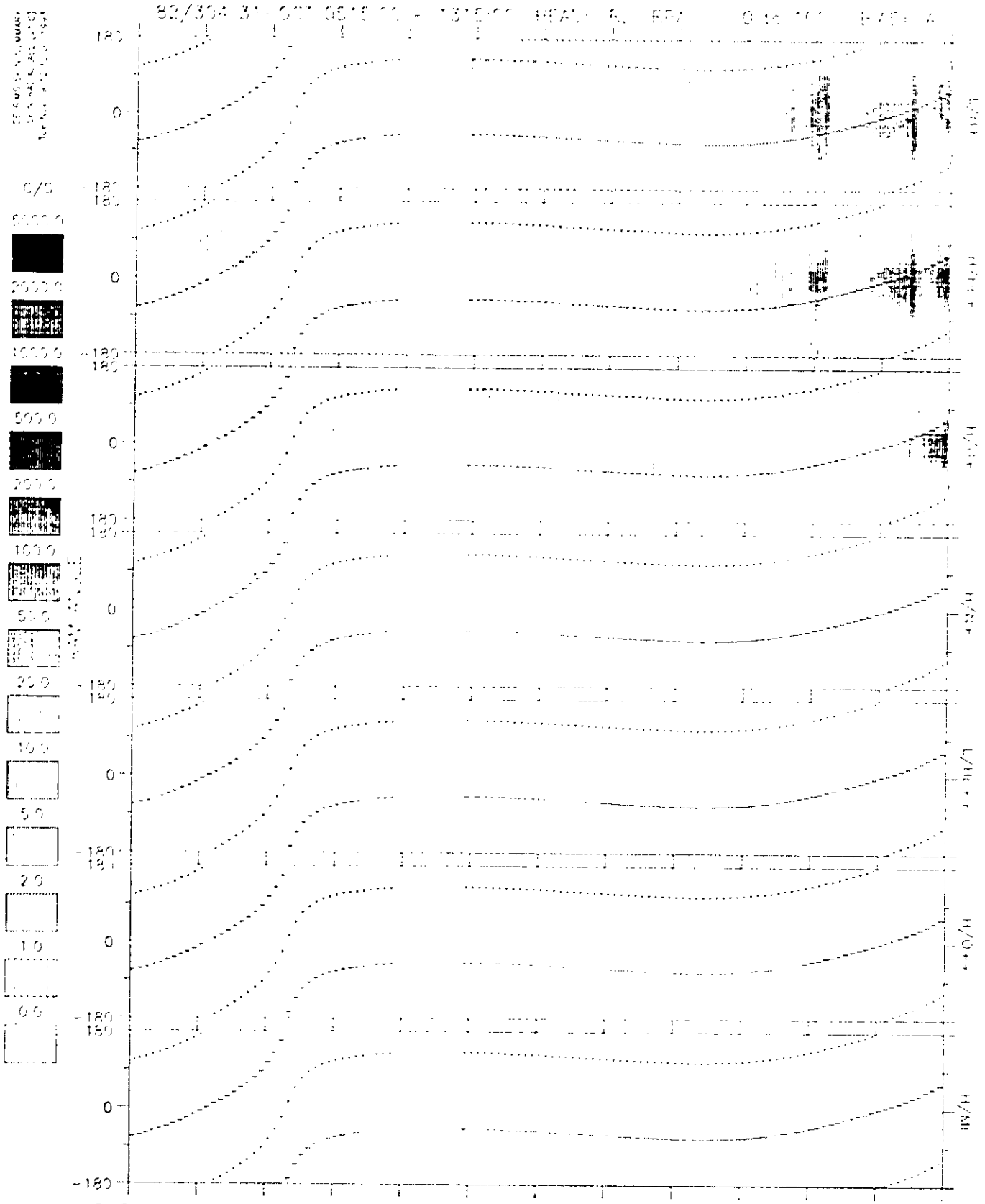
TIME	0000	0000	0000	1040	1120	1200	1240	1320	1400	1440	1520	HHMM
RE	0.0	0.0	0.0	2.2	3.3	4.1	4.5	4.7	4.6	4.2	3.6	RE
L	0.0	0.0	0.0	20.5	71.2	17.8	10.6	7.7	5.9	4.7	3.6	
MLT	0.0	0.0	0.0	21.6	7.2	8.3	8.5	8.6	8.7	8.6	8.5	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	-4.13	DEGS
INVLAT	0.0	0.0	0.0	77.2	83.2	76.3	72.1	68.8	65.8	62.4	58.1	DEGS



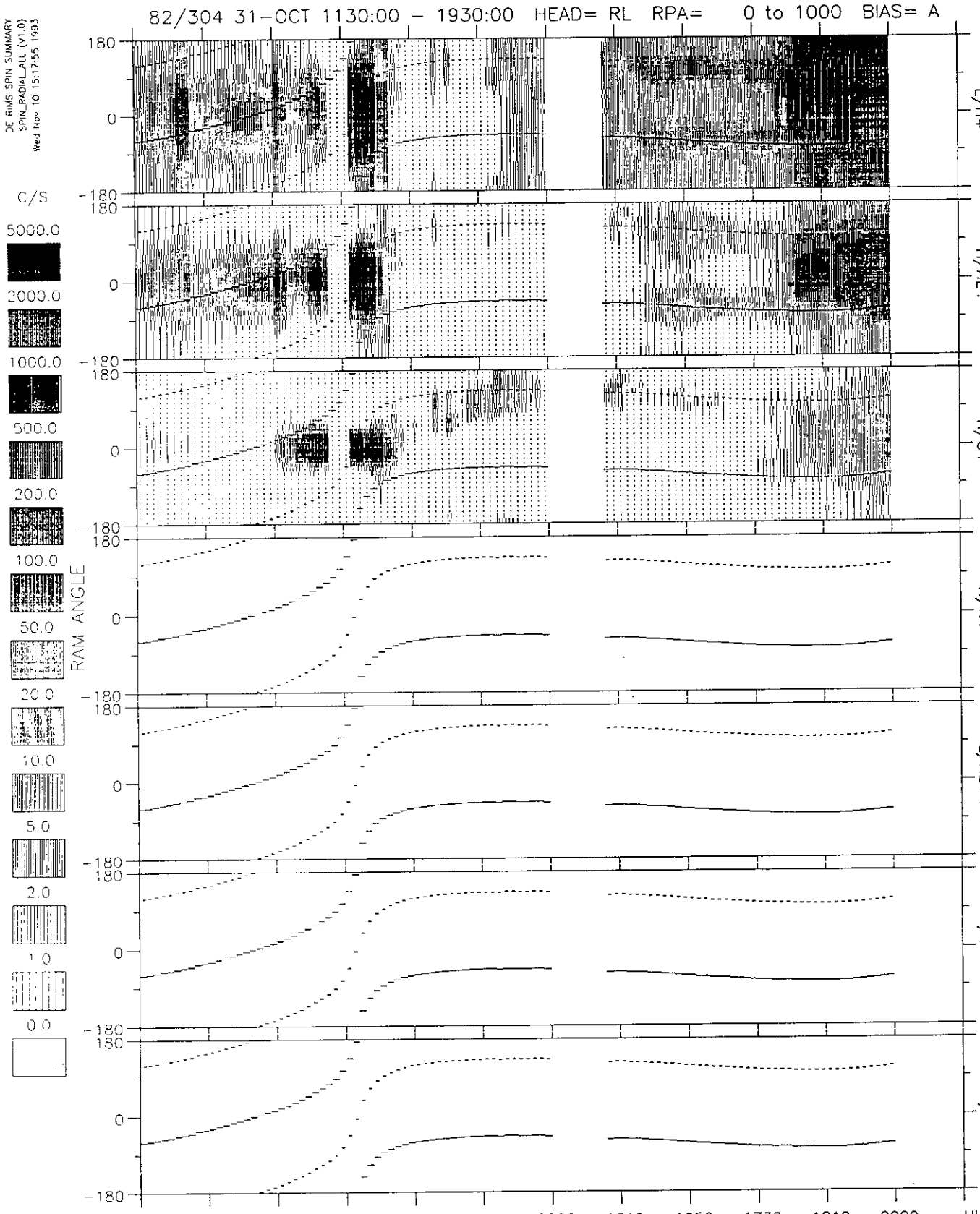
TIME	1540	1620	0000	0000	0000	1900	1940	2000	2100	0000	0000	HHMM
RE	3.1	2.0	0.0	0.0	0.0	4.3	4.0	4.7	4.5	0.0	0.0	RE
L	3.1	3.0	0.0	0.0	0.0	31.0	18.4	13.4	8.0	0.0	0.0	
MLT	8.4	8.0	0.0	0.0	0.0	10.3	9.0	9.1	8.8	0.0	0.0	HRS
MLAT	5.35	35.24	0.00	0.00	0.00	.....	.....	.....	.....	0.00	0.00	DEGS
INVLAT	55.0	54.8	0.0	0.0	0.0	79.7	76.5	73.5	70.1	0.0	0.0	DEGS



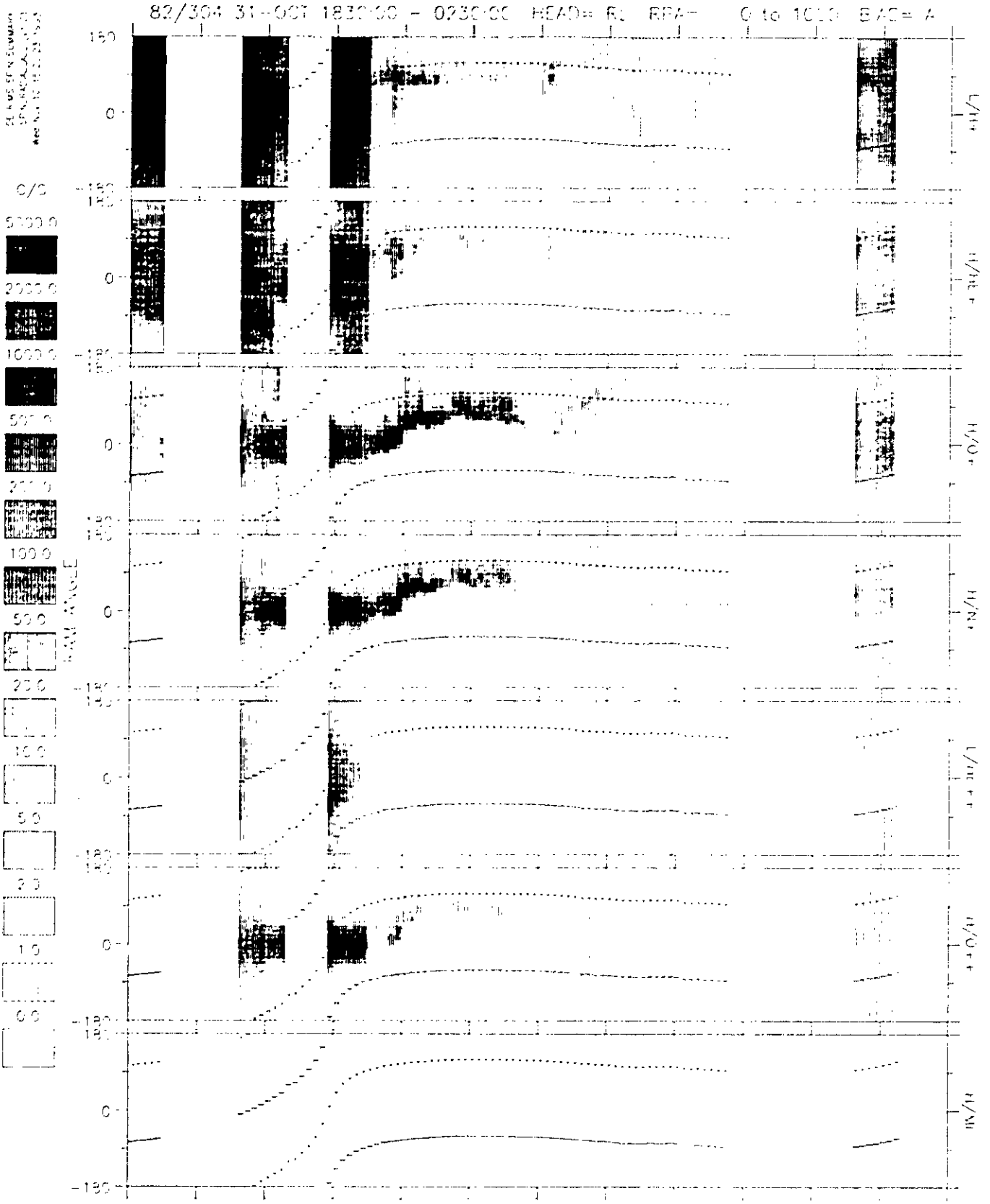
TIME	0000	2320	0000	0000	0120	0200	0240	0320	0400	0440	0520	HHMM
RE	0.0	1.6	1.5	0.0	3.7	4.3	4.6	4.6	4.4	3.9	3.1	RE
L	0.0	3.0	1.6	0.0	100.0	96.3	26.9	13.4	8.0	5.1	3.2	
MLT	0.0	8.0	20.2	0.0	22.7	7.0	7.4	7.7	7.9	8.1	8.4	HRS
MLAT	0.00	41.62	*****	0.00	*****	*****	*****	*****	*****	*****	-7.77	DEGS
INVLAT	0.0	54.7	37.6	0.0	87.7	84.2	78.9	74.2	69.3	63.6	56.2	DEGS



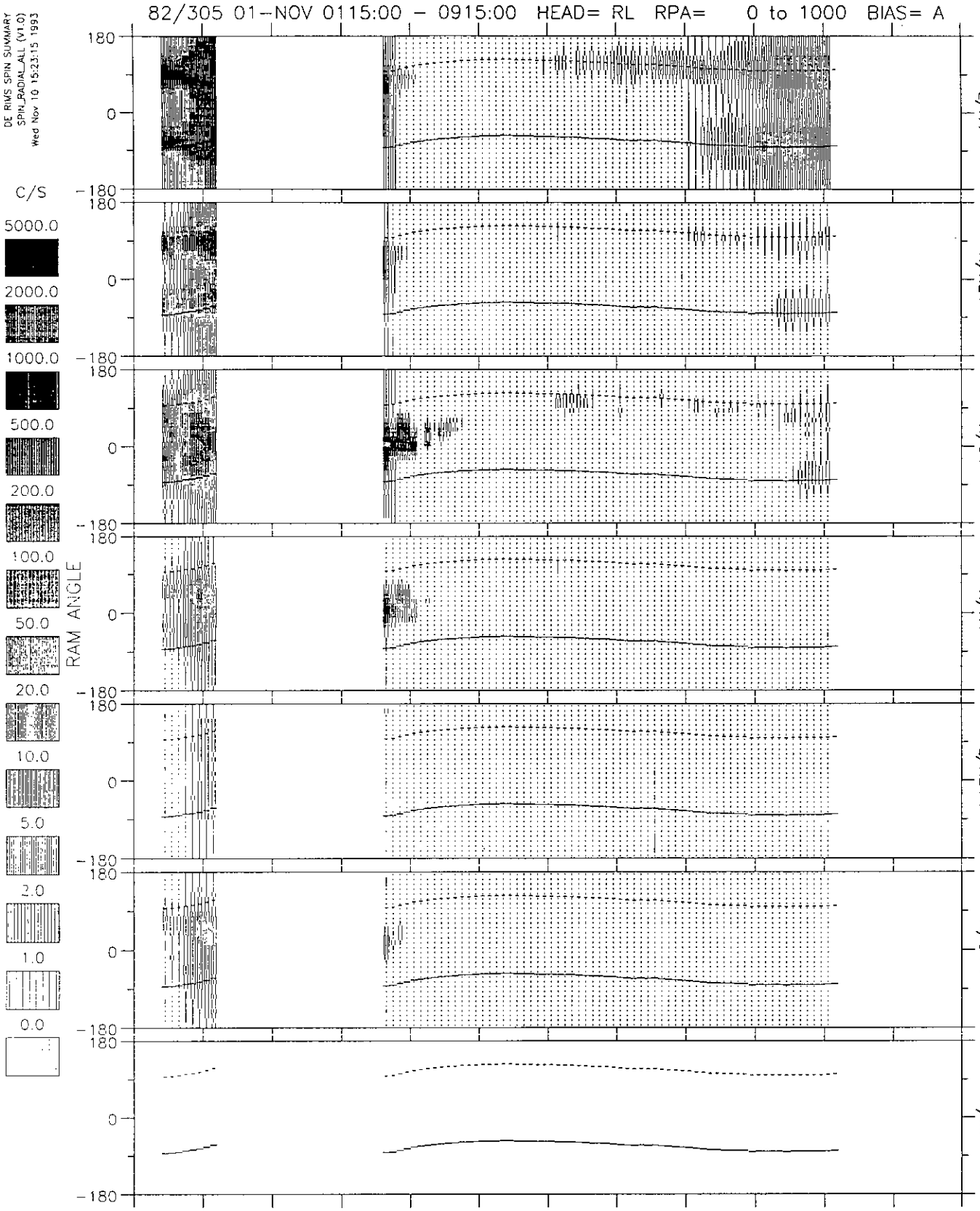
TIME	0555	0635	0715	0755	0835	0915	0955	1035	1115	1155	1235	HHMM
RE	2.1	1.1	2.3	0.0	4.1	4.5	4.7	4.5	4.2	3.5	2.5	RE
L	2.4	1.6	11.5	0.0	22.5	12.2	8.3	6.1	4.6	3.0	3.1	
MLT	8.8	20.5	22.1	0.0	7.0	7.8	8.1	8.3	8.4	8.5	8.5	HRS
MLAT	22.60	35.03	.....	0.00	.....	.....	.....	.....	.....	-0.80	25.21	DEGS
INVLAT	50.0	37.7	72.8	0.0	77.8	73.4	69.7	66.1	62.3	58.0	55.2	DEGS



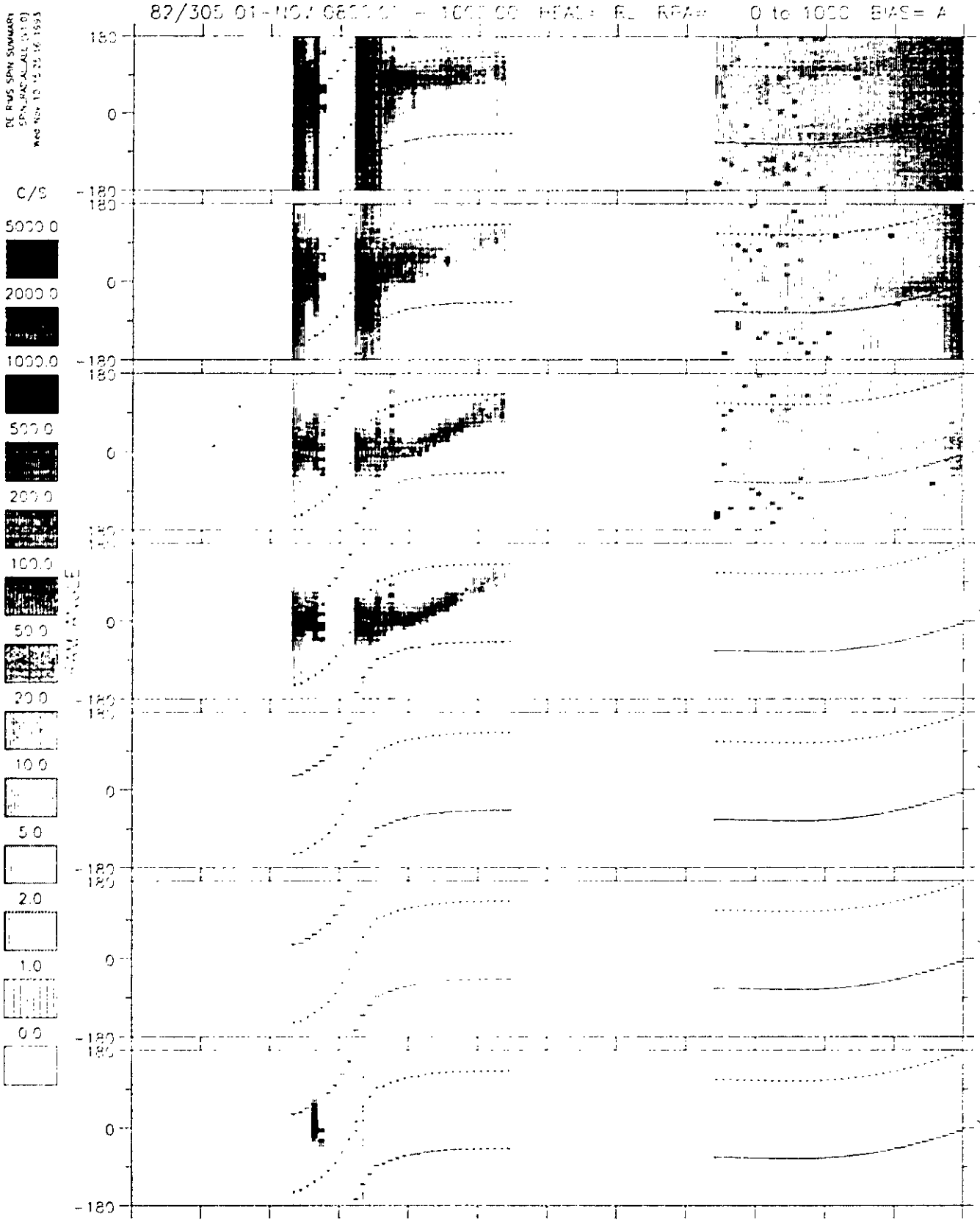
TIME	1210	1250	1330	1410	1450	0000	1610	1650	1730	1810	0000	HHMM
RE	3.1	2.0	1.2	2.4	3.5	0.0	4.5	4.7	4.5	4.1	0.0	RE
L	3.3	3.7	1.1	51.7	51.6	0.0	11.8	8.6	6.6	5.0	0.0	
MLT	8.5	8.5	20.5	19.1	10.1	0.0	9.2	9.0	8.8	8.7	0.0	HRS
MLAT	7.03	42.86	4.99	*****	*****	0.00	*****	*****	*****	*****	0.00	DEGS
INVLAT	56.4	58.7	17.1	82.0	82.0	0.0	73.0	70.1	67.1	63.3	0.0	DEGS



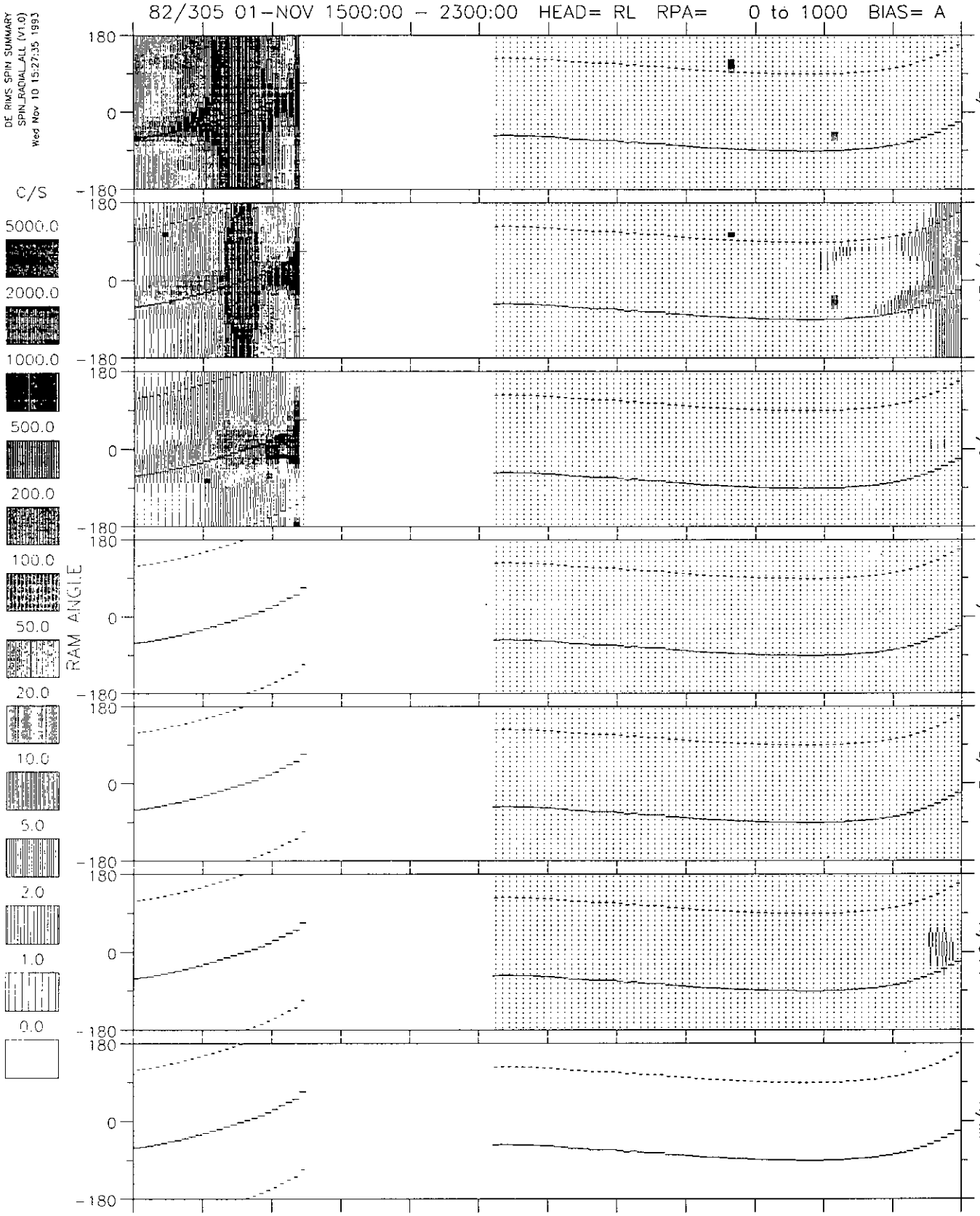
TIME	0000	1950	2030	2110	2150	2230	2310	2350	0000	0000	0150	HHMM
RE	0.0	1.6	1.4	2.7	3.7	4.3	4.6	4.6	0.0	0.0	3.2	RE
L	0.0	3.0	1.6	15.9	100.0	91.2	32.0	16.3	0.0	0.0	3.4	
MLT	0.0	7.5	20.0	18.8	14.8	9.9	8.8	8.3	0.0	0.0	8.1	HRS
MLAT	0.00	43.35	*****	*****	*****	*****	*****	*****	0.00	0.00	*****	DEGS
INVLAT	0.0	55.0	38.9	75.5	85.9	84.0	79.8	75.7	0.0	0.0	56.9	DEGS



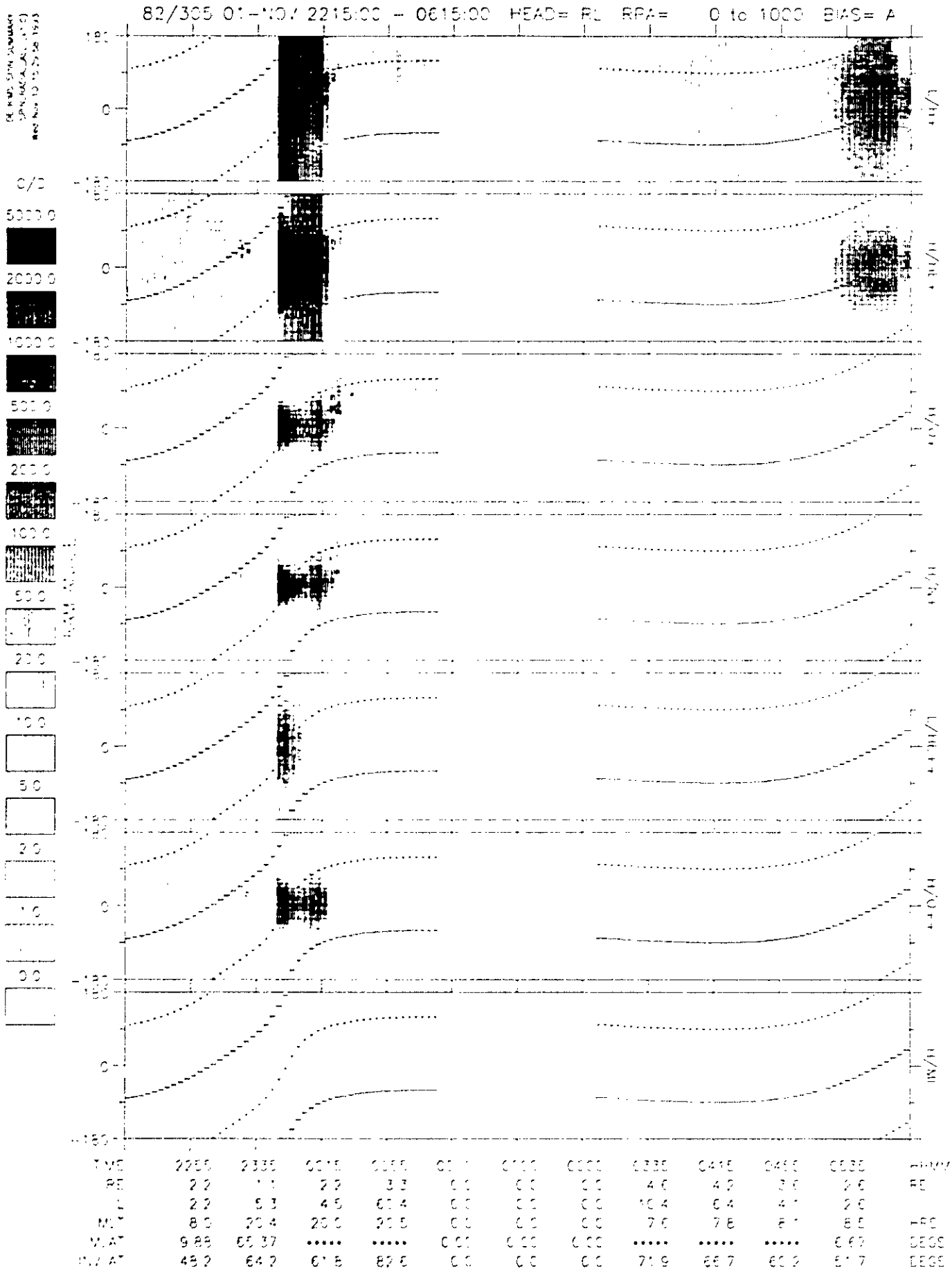
TIME	0155	0000	0000	0355	0435	0515	0555	0635	0715	0755	0000	HHMM
RE	3.1	0.0	0.0	2.6	3.6	4.2	4.6	4.7	4.5	4.1	0.0	RE
L	3.1	0.0	0.0	11.0	99.2	39.5	17.4	10.3	6.9	4.8	0.0	
MLT	8.1	0.0	0.0	21.5	2.0	6.2	7.2	7.6	8.0	8.2	0.0	HRS
MLAT	*****	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	55.7	0.0	0.0	72.4	84.2	80.8	76.1	71.9	67.6	62.9	0.0	DEGS

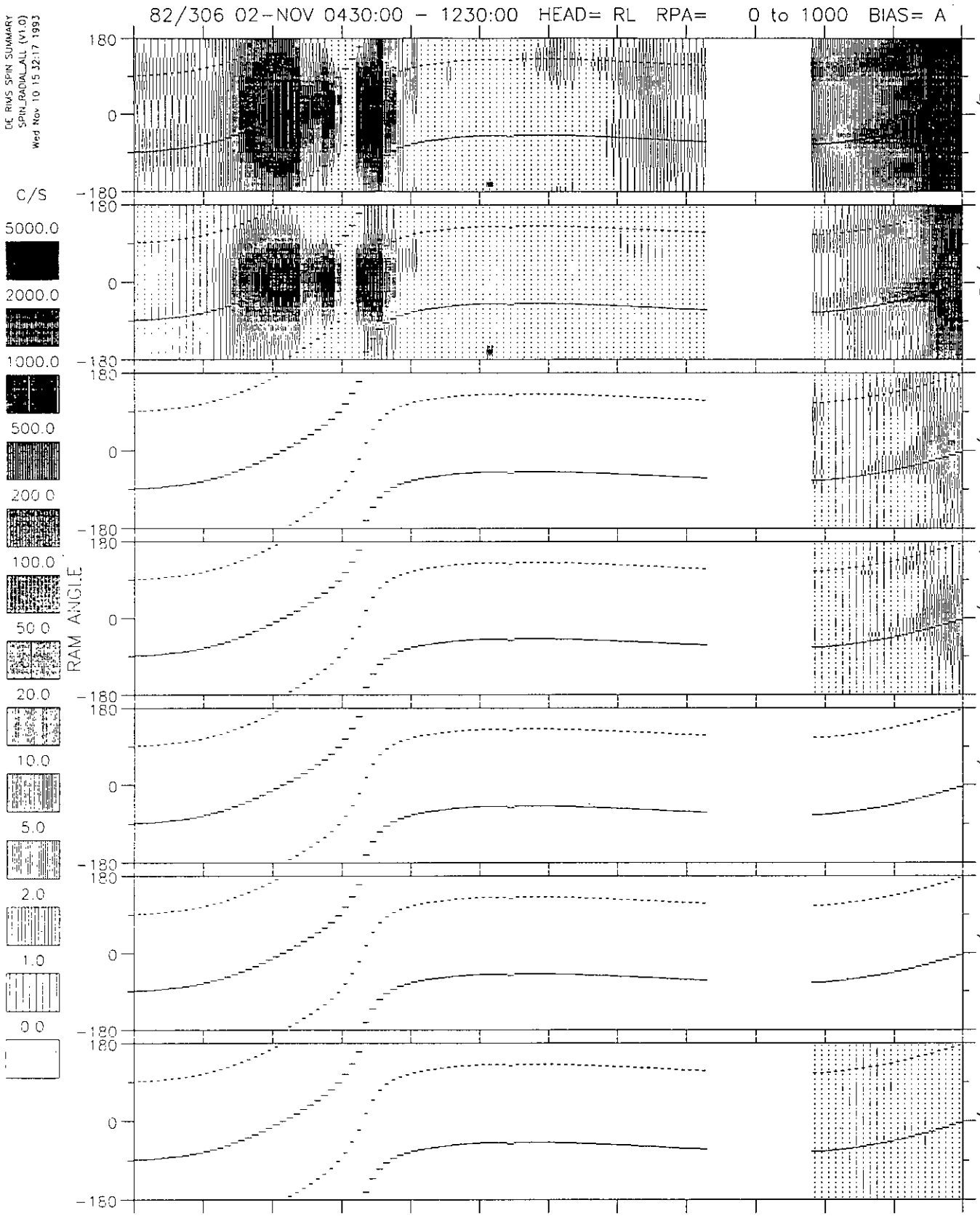


TIME	0000	0000	1000	1040	1120	0000	0000	0000	1400	1440	1520	HHMM
RE	0.0	0.0	1.1	2.4	3.4	0.0	0.0	0.0	4.5	4.1	3.4	RE
L	0.0	0.0	1.2	39.8	56.2	0.0	0.0	0.0	5.8	4.5	3.5	
MLT	0.0	0.0	20.3	21.8	7.4	0.0	0.0	0.0	8.0	8.5	8.4	HRS
MLAT	0.00	0.00	16.08	*****	*****	0.00	0.00	0.00	*****	*****	-2.56	DEGS
INVLAT	0.0	0.0	23.0	80.9	87.3	0.0	0.0	0.0	65.5	62.0	57.5	DEGS

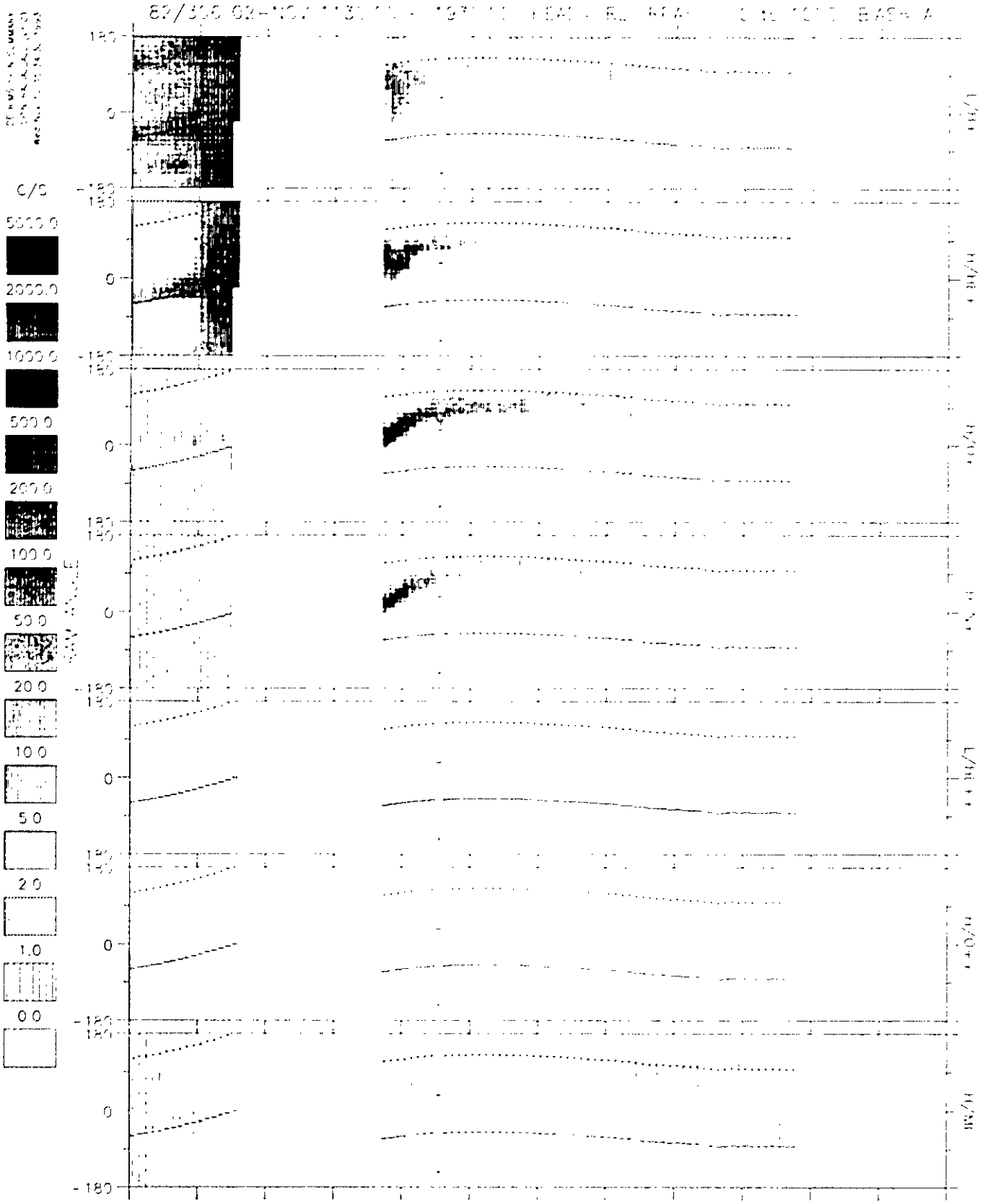


TIME	1540	1620	0000	0000	0000	1900	1940	2020	2100	2140	2220	HHMM
RE	3.0	1.7	0.0	0.0	0.0	4.3	4.6	4.7	4.5	4.0	3.2	RE
L	3.0	3.9	0.0	0.0	0.0	30.2	18.1	12.2	8.4	5.6	3.4	
MLT	8.3	7.6	0.0	0.0	0.0	10.1	9.4	9.0	8.7	8.4	8.2	HRS
MLAT	7.72	48.72	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	54.9	59.5	0.0	0.0	0.0	79.5	76.4	73.4	69.8	64.9	57.3	DEGS

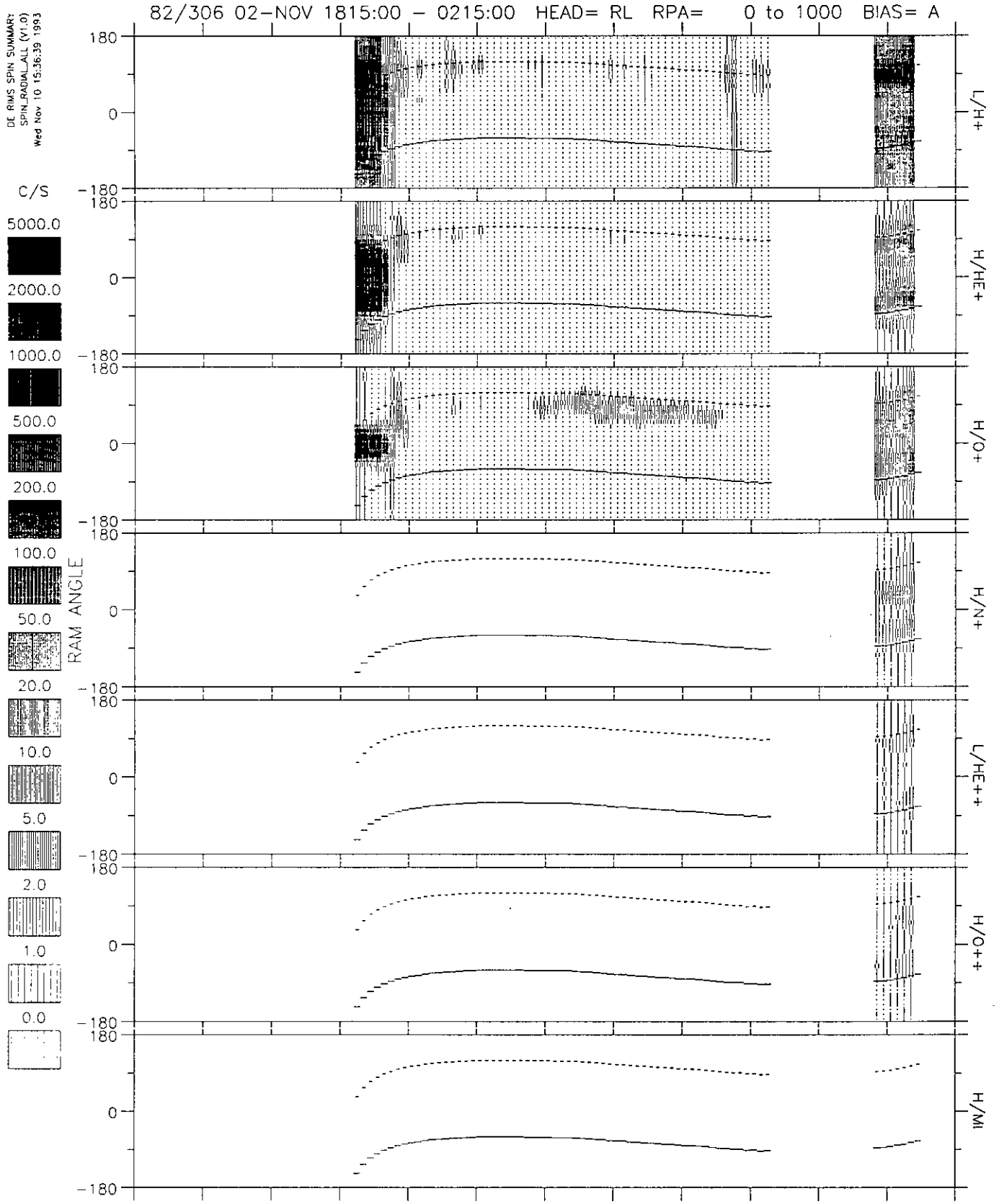

82/305 01-NOV 2215:00 - 0615:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/D
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
TIME
RE
L
MLT
MLAT
INVLAT
HHMM
RE
HRS
DEGS
DEGS



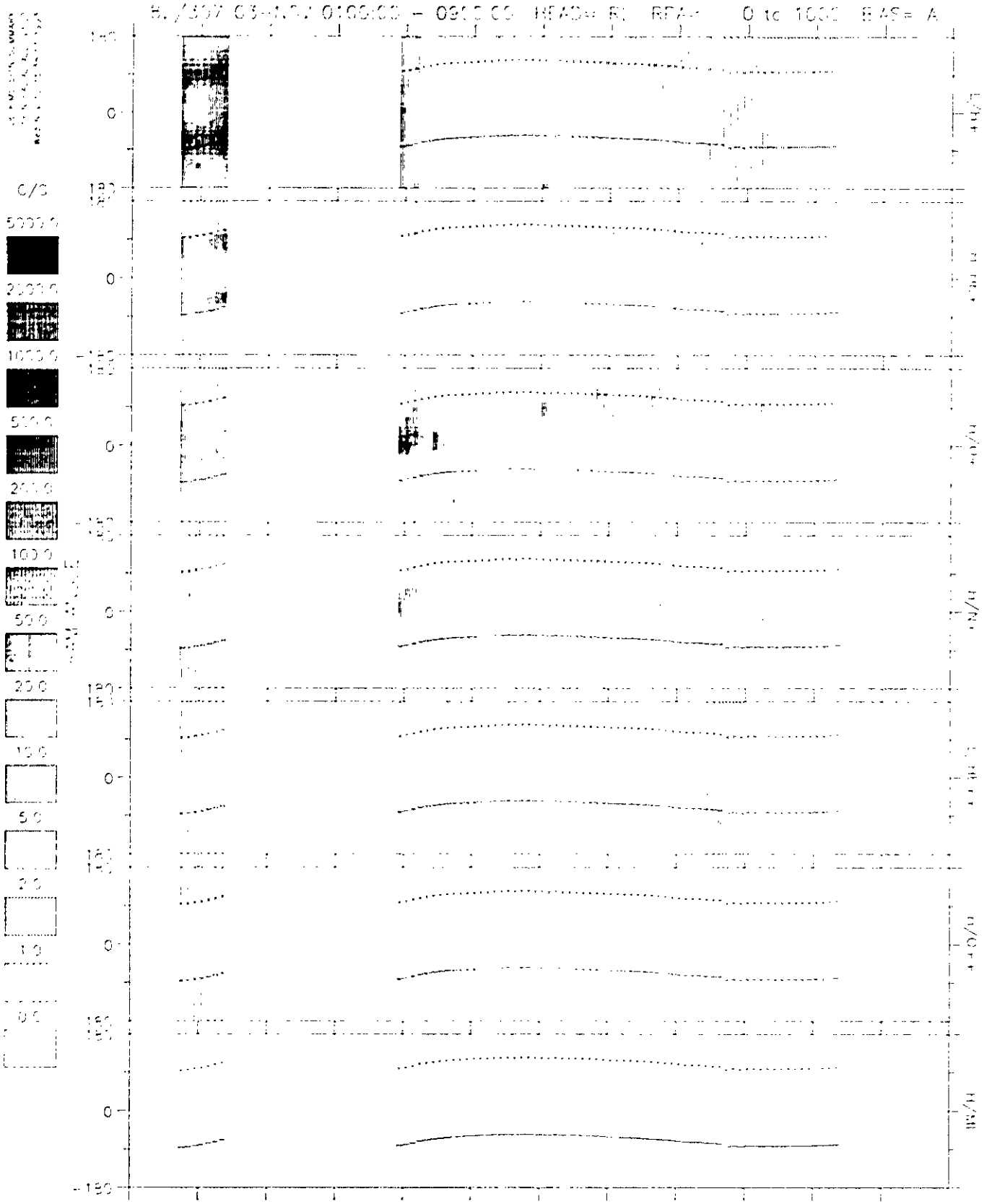
TIME	0510	0550	0630	0710	0750	0830	0910	0950	0000	1110	1150	HHMM
RE	3.2	2.1	1.1	2.3	3.4	4.1	4.5	4.7	0.0	4.2	3.5	RE
L	3.4	2.4	1.5	11.6	69.9	23.1	12.5	8.4	0.0	4.6	3.5	
MLT	8.2	8.7	19.9	22.0	4.0	6.9	7.6	8.0	0.0	8.3	8.4	HRS
MLAT	*****	22.58	33.36	*****	*****	*****	*****	*****	0.00	*****	-1.22	DEGS
INVLAT	57.2	49.8	36.4	72.9	83.1	78.0	73.5	69.8	0.0	62.3	58.0	DEGS

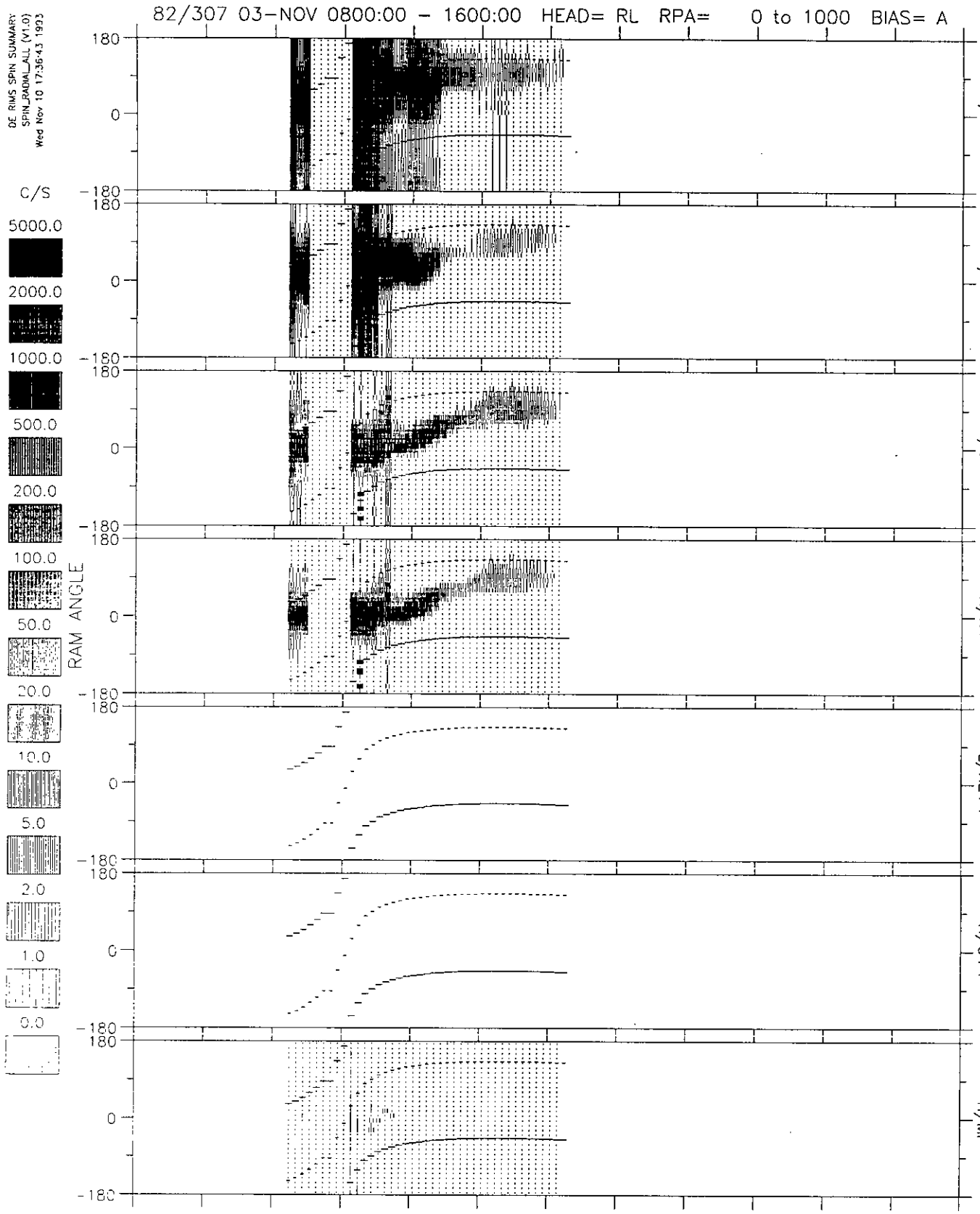


TIME	1210	0000	0000	1410	1450	1530	1610	1650	1730	0000	0000	HHMM
RE	3.0	0.0	0.0	2.0	3.0	4.2	4.6	4.7	4.5	0.0	0.0	RE
L	3.2	0.0	0.0	99.8	44.2	17.8	11.5	8.5	6.5	0.0	0.0	
MLT	8.4	0.0	0.0	18.3	9.9	9.3	9.1	8.9	8.7	0.0	0.0	HRS
MLAT	9.66	0.00	0.00	.....	.....	.....	.....	.....	.....	0.00	0.00	DEGS
INVLAT	55.8	0.0	0.0	84.2	81.3	76.3	72.9	70.0	66.9	0.0	0.0	DEGS

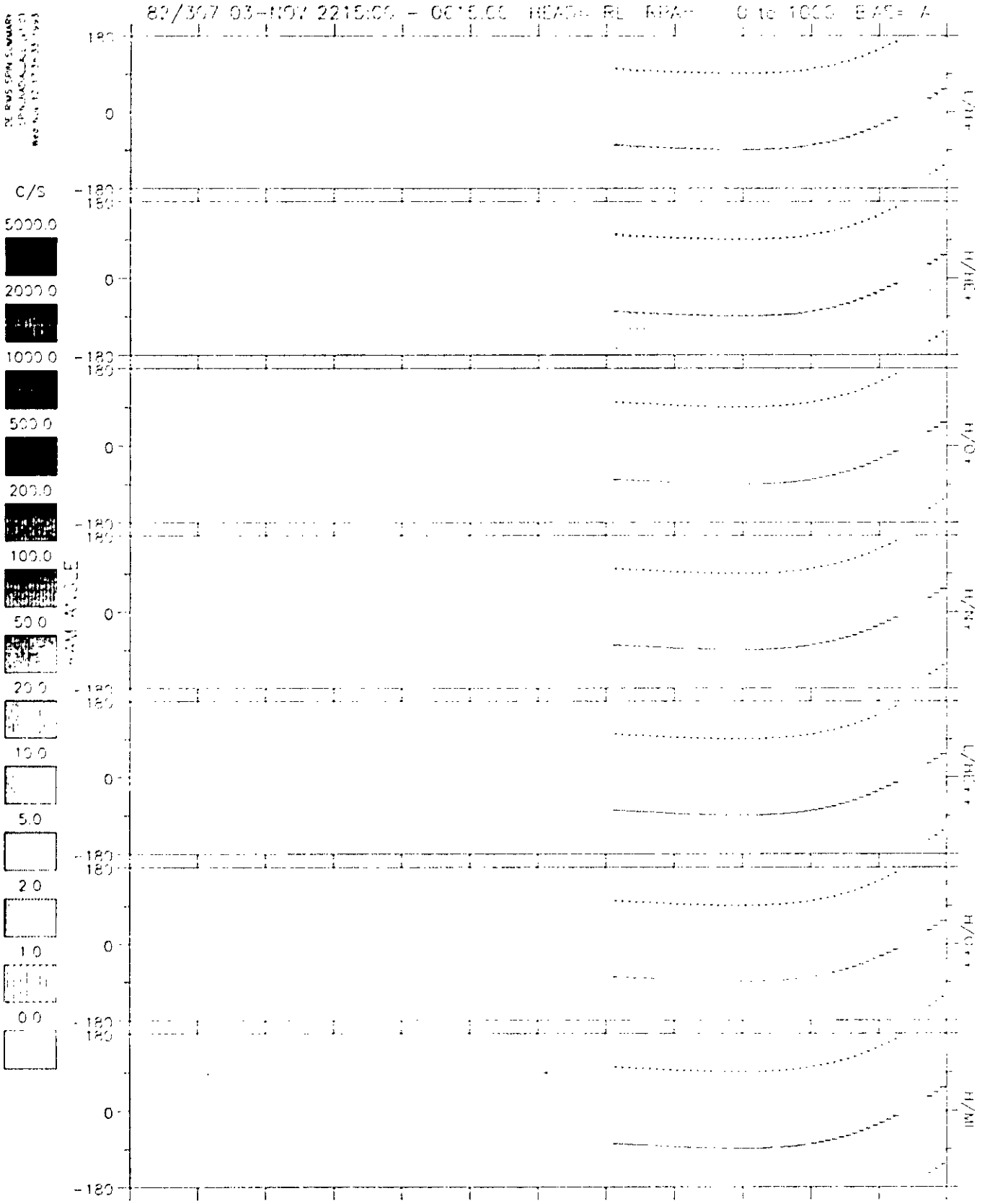


TIME	0000	0000	0000	2055	2135	2215	2255	2335	0015	0000	0135	HHMM
RE	0.0	0.0	0.0	2.4	3.5	4.2	4.5	4.7	4.5	0.0	3.4	RE
L	0.0	0.0	0.0	8.6	100.0	100.0	42.1	19.7	11.0	0.0	3.8	
MLT	0.0	0.0	0.0	19.0	16.6	10.4	8.8	8.3	8.0	0.0	8.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	*****	DEGS
INVLAT	0.0	0.0	0.0	70.1	84.4	85.3	81.1	77.0	72.5	0.0	59.4	DEGS

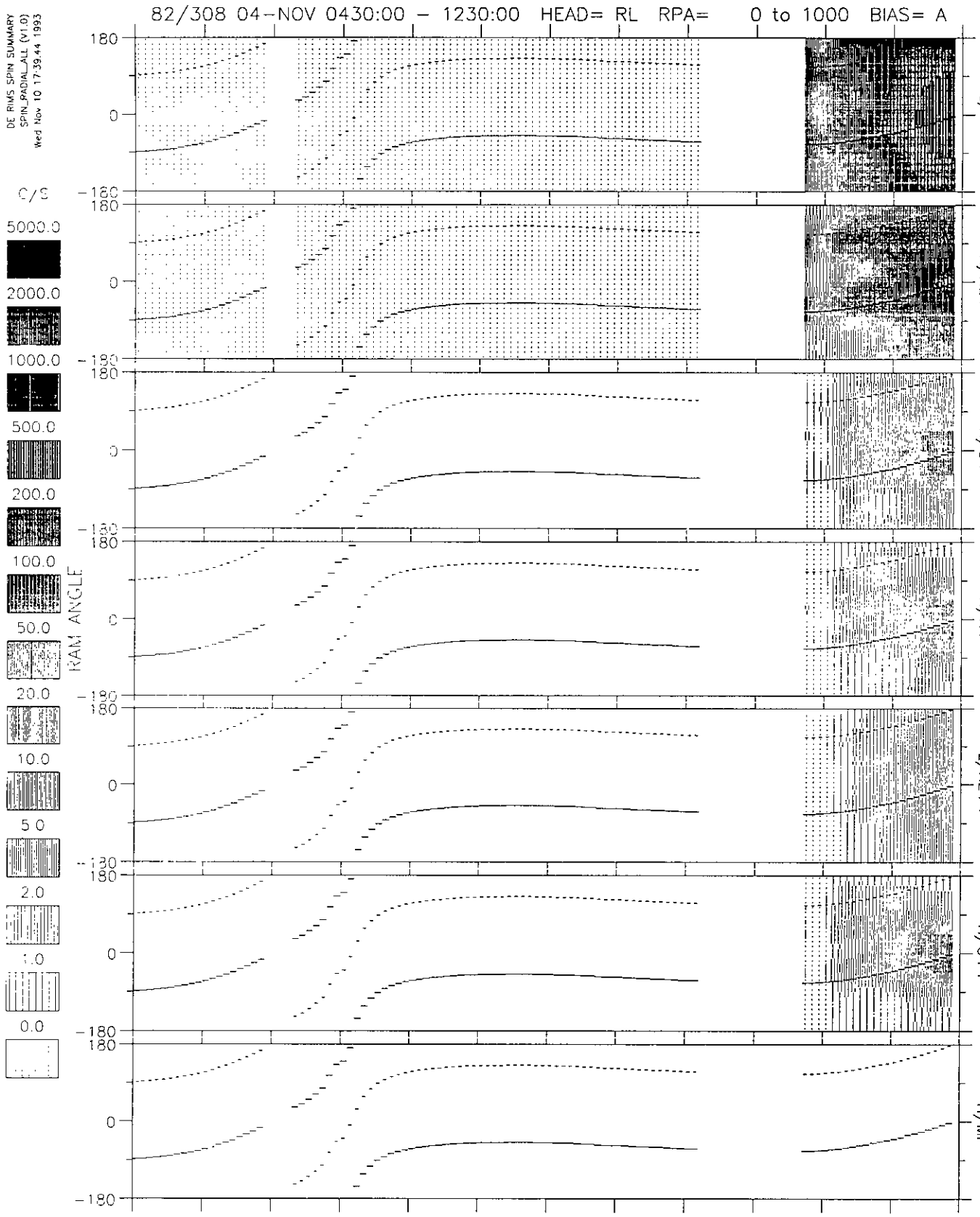

C/S
TIME
RF
L
MLT
MLAT
INVLAT



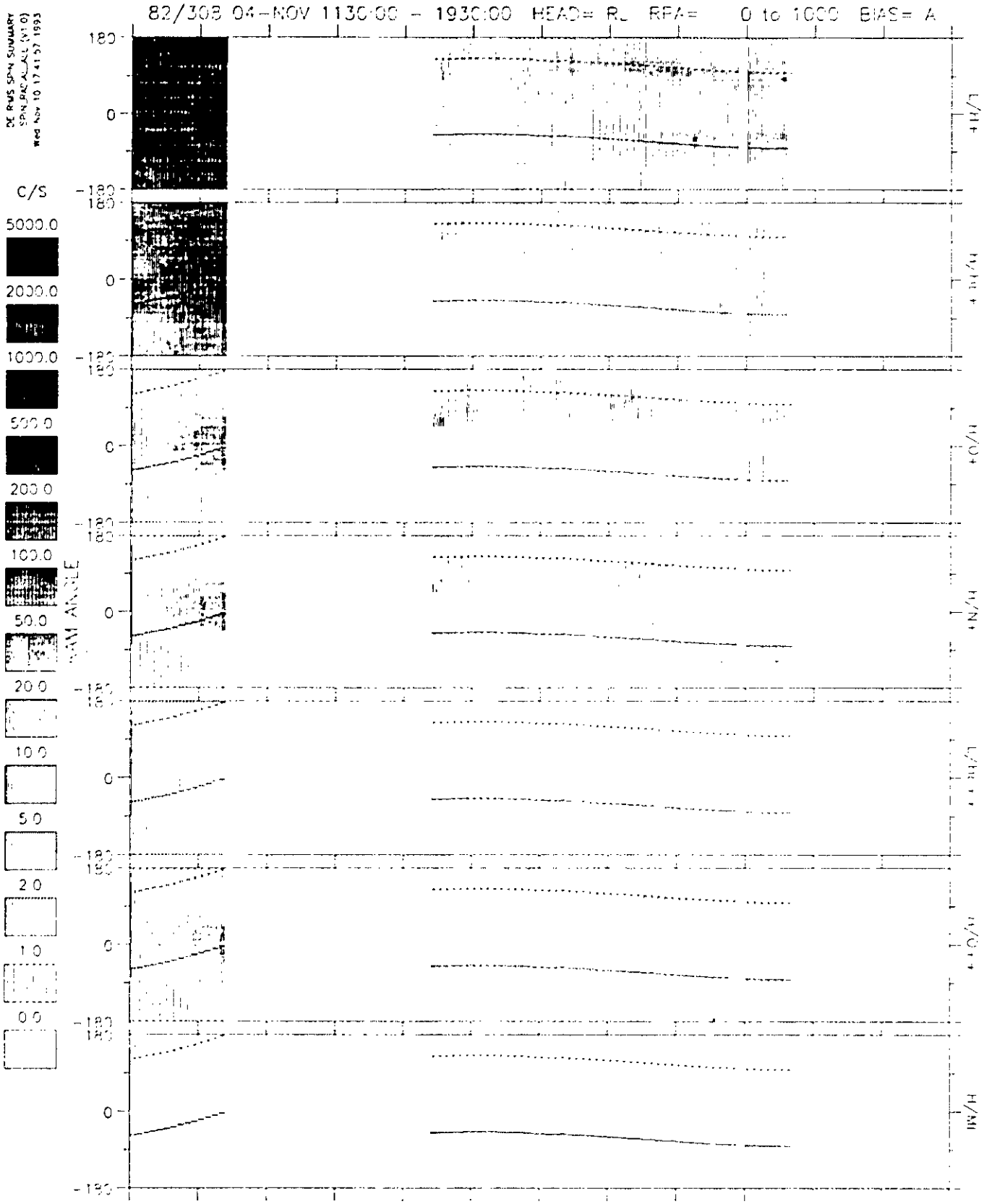
TIME	0000	0000	1000	1040	1120	1200	0000	0000	0000	0000	0000	HHMM
RE	0.0	0.0	1.2	2.5	3.6	4.2	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	1.2	85.7	46.2	16.1	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	20.4	22.2	7.5	8.2	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	-5.79	*****	*****	*****	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	23.5	83.8	81.5	75.5	0.0	0.0	0.0	0.0	0.0	DEGS



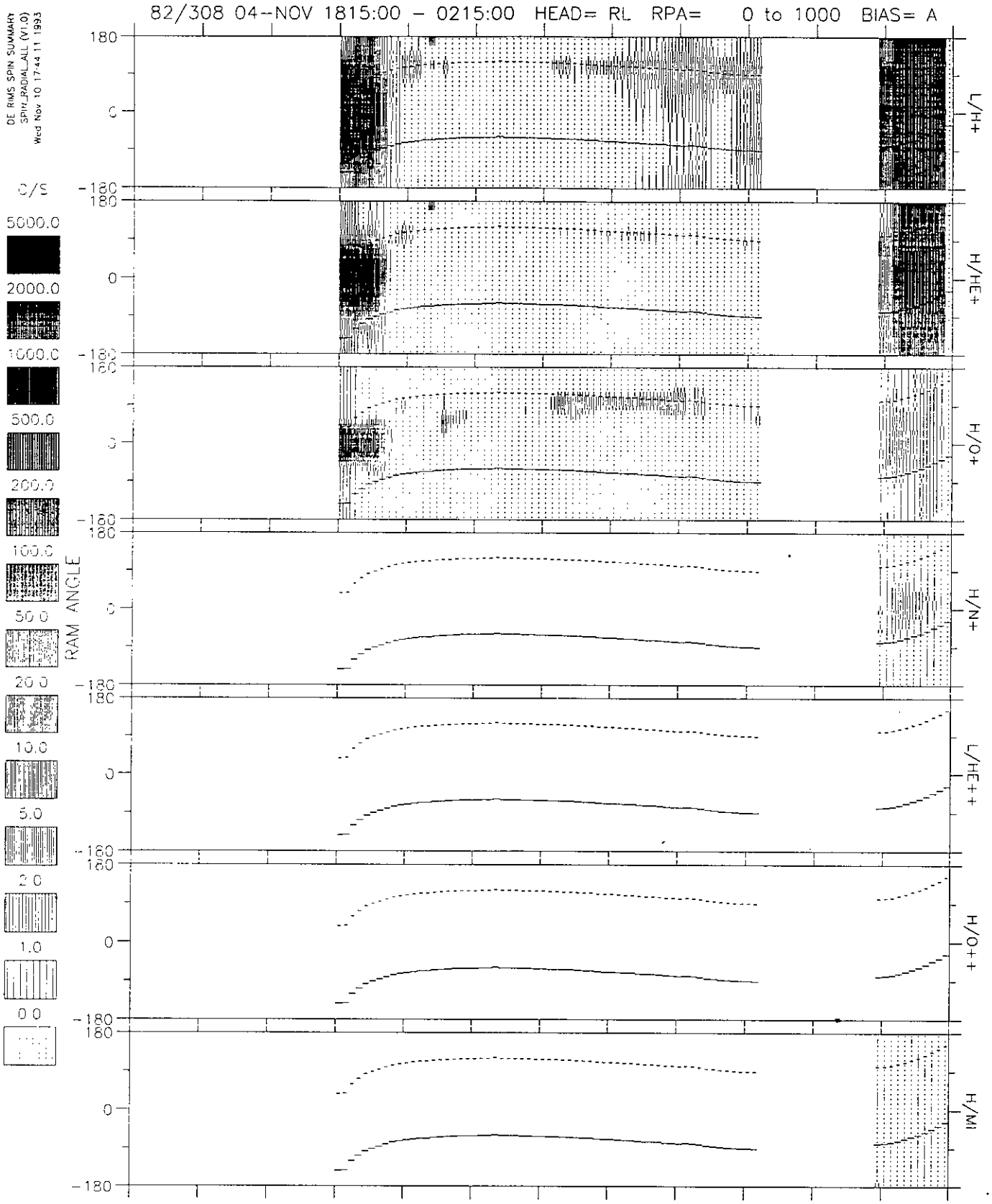
TIME	0000	0000	0000	0000	0000	0000	0000	0335	0415	0455	0535	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.1	3.5	2.4	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	6.1	3.6	2.5	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	7.7	8.0	8.4	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	11.21	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.5	69.1	59.3	50.6	DEGS



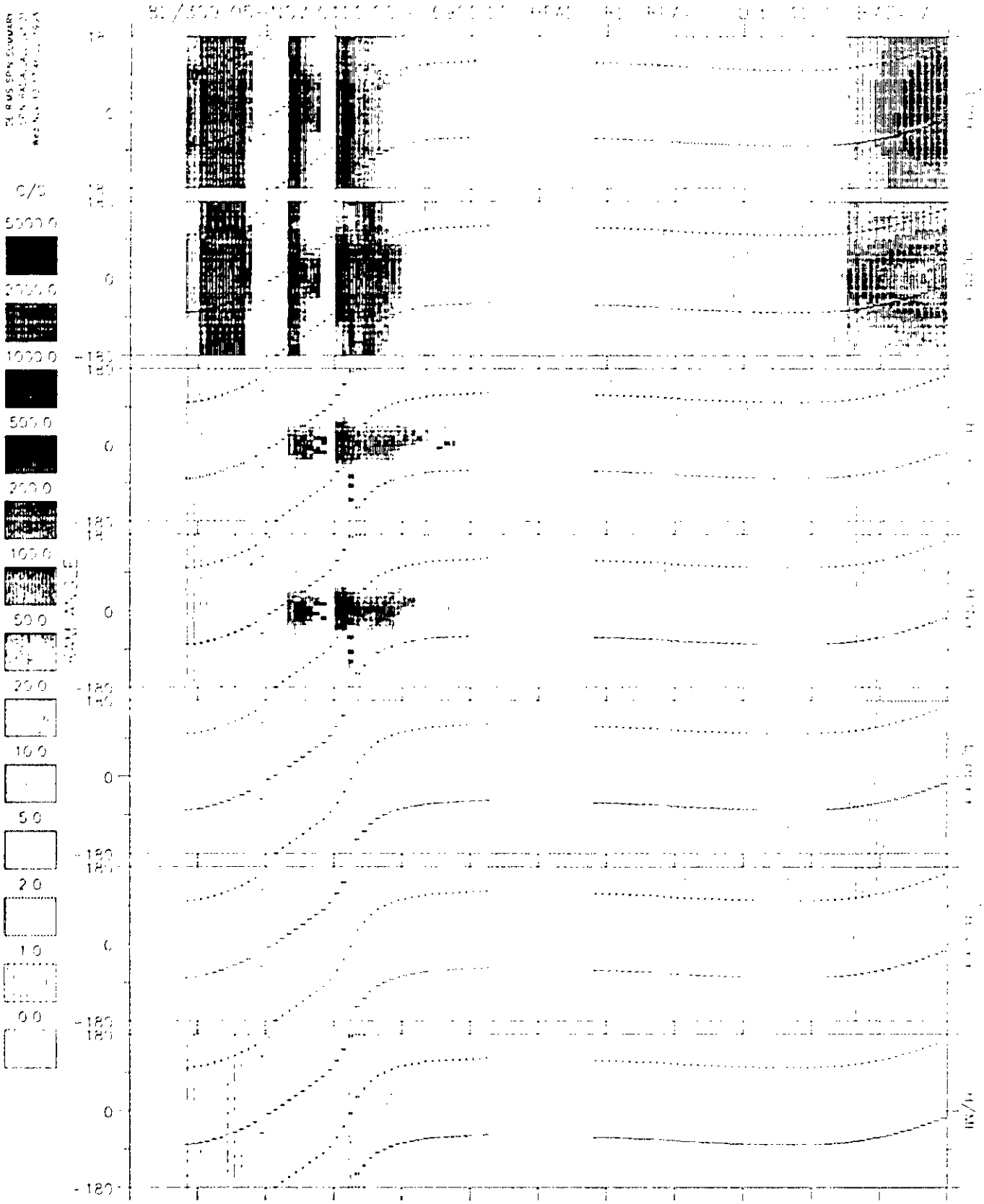
TIME	0510	0000	0630	0710	0750	0830	0910	0950	0000	1110	1150	HHMM
RE	3.1	0.0	1.2	2.5	3.5	4.2	4.6	4.7	0.0	4.1	3.4	RE
L	3.2	0.0	1.2	17.2	62.6	21.6	12.0	8.1	0.0	4.5	3.4	
MLT	8.1	0.0	20.1	22.2	4.5	6.9	7.6	7.9	0.0	8.2	8.3	HRS
MLAT	-8.36	0.00	10.88	*****	*****	*****	*****	*****	0.00	*****	0.77	DEGS
INVLAT	56.2	0.0	24.5	76.0	82.7	77.6	73.2	69.5	0.0	61.9	57.3	DEGS



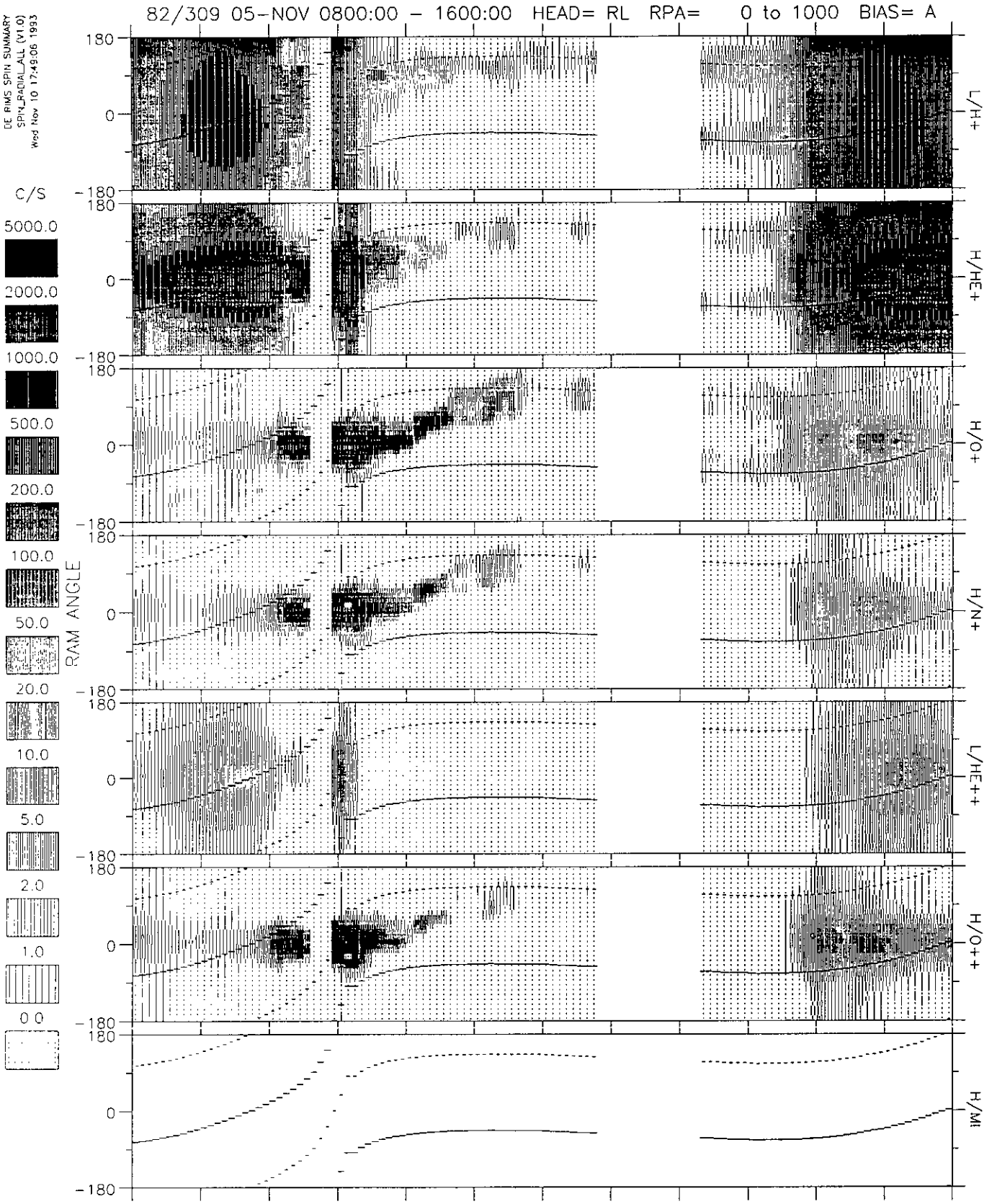
TIME	1210	0000	0000	0000	1450	1530	1610	1650	1730	0000	0000	HHMM
RE	2.9	0.0	0.0	0.0	3.7	4.3	4.6	4.6	4.4	0.0	0.0	RE
L	3.1	0.0	0.0	0.0	39.1	17.1	11.3	8.4	6.4	0.0	0.0	
MLT	8.3	0.0	0.0	0.0	9.7	9.1	8.9	8.8	8.6	0.0	0.0	HRS
MLAT	12.55	0.00	0.00	0.00	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	55.3	0.0	0.0	0.0	80.8	76.0	72.7	69.8	66.6	0.0	0.0	DEGS



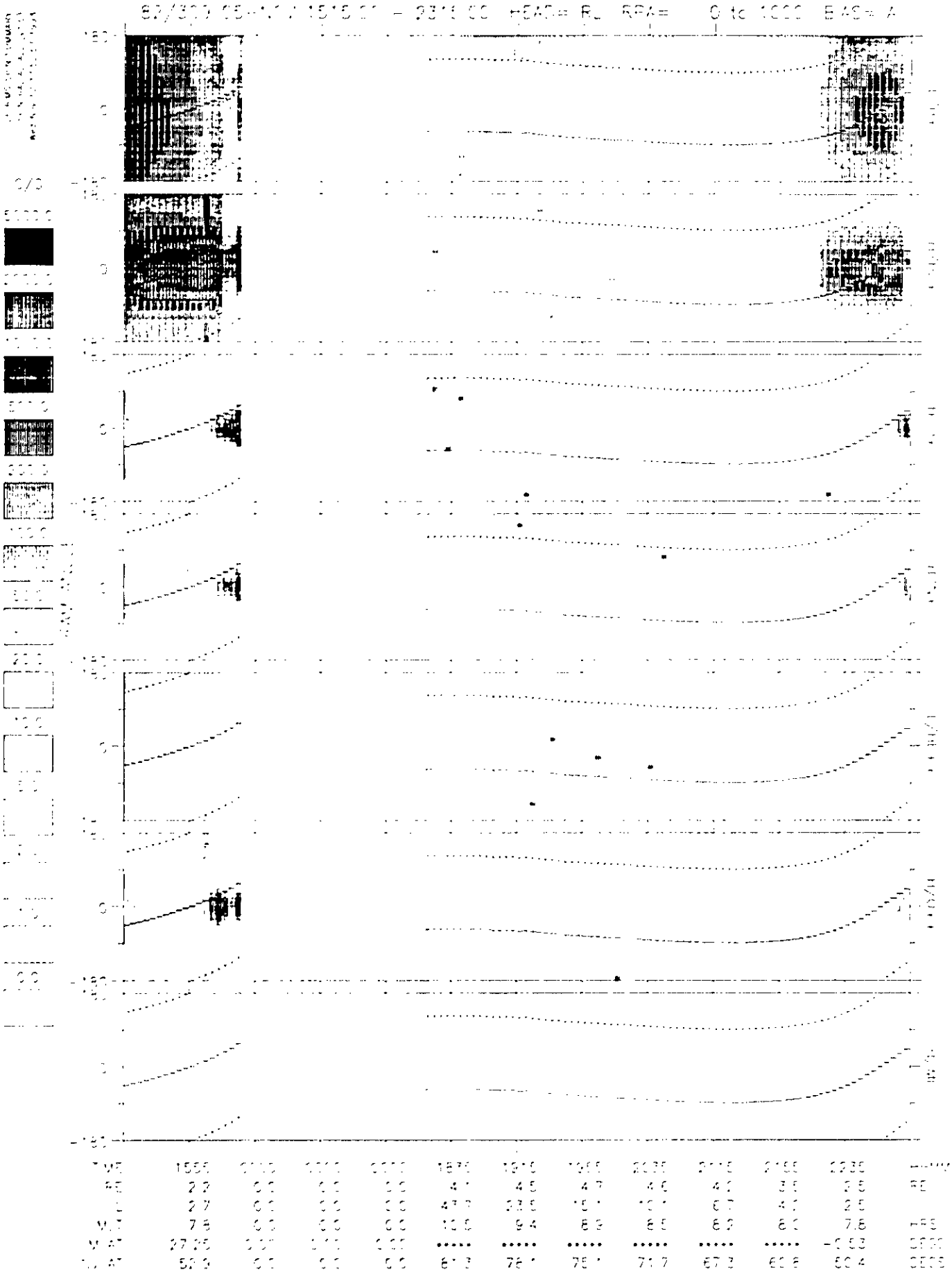
TIME	0000	0000	2015	2055	2135	2215	2255	2335	0015	0000	0135	HHMM
RE	0.0	0.0	1.3	2.6	3.6	4.2	4.6	4.7	4.5	0.0	3.3	RE
L	0.0	0.0	1.3	11.3	100.0	100.0	39.8	18.8	10.6	0.0	3.6	
MLT	0.0	0.0	19.9	18.8	15.9	10.0	8.6	8.1	7.9	0.0	7.8	HRS
MLAT	0.00	0.00	2.84	*****	*****	*****	*****	*****	*****	0.00	*****	DEGS
INVLAT	0.0	0.0	30.3	72.7	85.1	85.1	80.9	76.7	72.1	0.0	58.2	DEGS

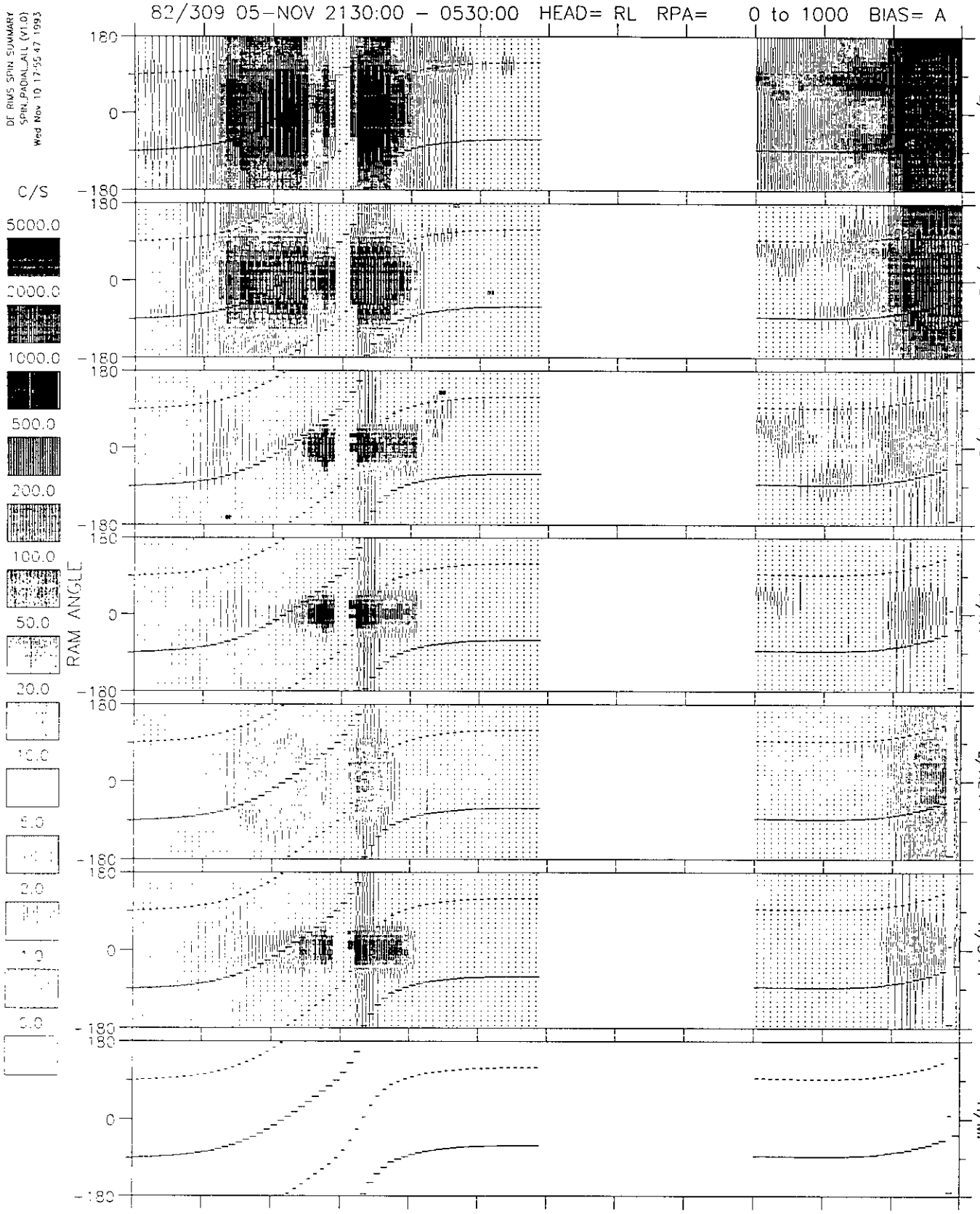


TIME	0140	0220	0300	0340	0420	0500	0540	0620	0700	0740	0820	HH:MM
RE	3.2	2.0	1.1	2.4	3.5	0.0	4.5	4.7	4.5	4.1	3.4	RE
L	3.4	2.2	1.5	7.9	83.6	0.0	19.7	11.3	7.6	5.1	3.6	
MLT	7.8	8.1	19.7	21.0	0.0	0.0	6.8	7.3	7.6	7.9	8.2	HRS
MLAT	*****	18.94	28.47	*****	*****	0.00	*****	*****	*****	*****	-6.04	DEGS
INVLAT	57.0	47.8	34.2	69.1	83.7	0.0	77.0	72.7	68.8	63.7	58.0	DEGS

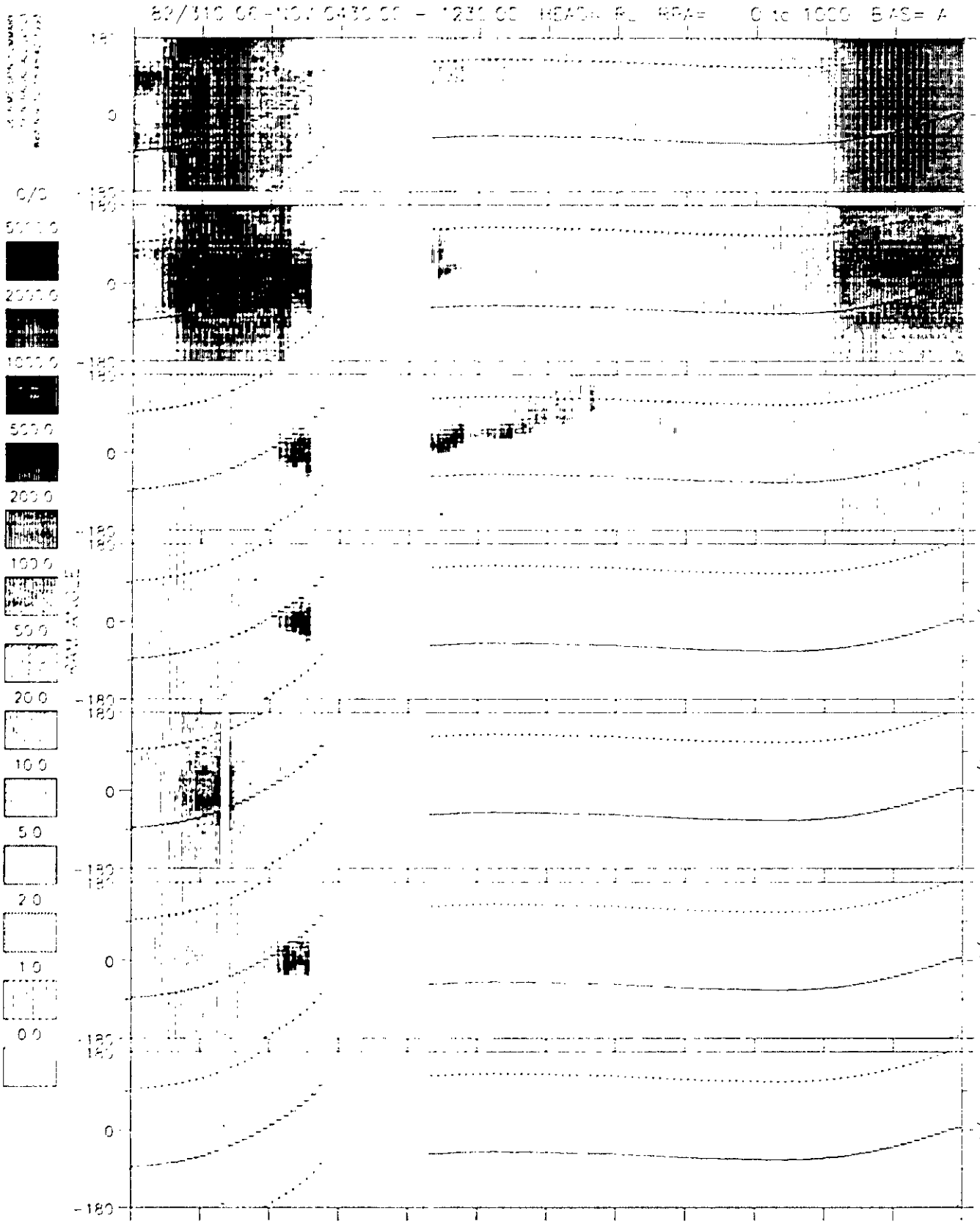


TIME	0840	0920	1000	1040	1120	1200	0000	0000	1400	1440	1520	HHMM
RE	2.9	1.7	1.3	2.7	3.7	4.3	0.0	0.0	4.5	4.0	3.2	RE
L	3.0	3.8	1.4	100.0	39.5	15.4	0.0	0.0	5.6	4.3	3.2	
MLT	8.3	9.0	20.4	22.8	7.5	8.1	0.0	0.0	8.3	8.2	8.1	HRS
MLAT	5.92	52.38	*****	*****	*****	*****	0.00	0.00	*****	*****	1.11	DEGS
INVLAT	54.8	59.1	33.1	85.9	80.8	75.2	0.0	0.0	64.9	61.1	56.0	DEGS

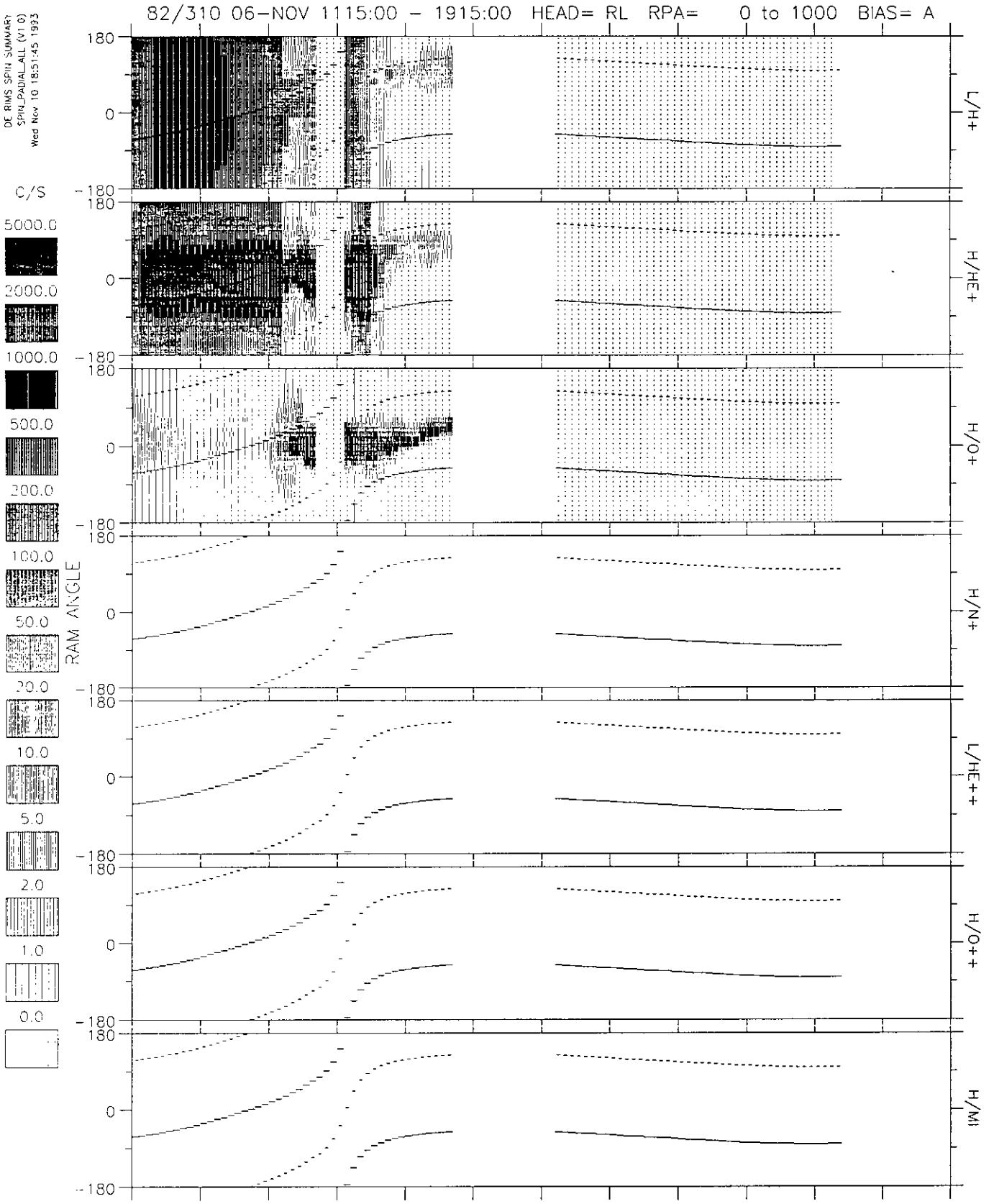




TIME	2210	2250	2330	0010	0050	0000	0000	0000	0330	0410	0450	HHMM
RE	3.2	2.0	1.1	2.4	3.4	0.0	0.0	0.0	4.5	4.1	3.5	RE
L	3.4	2.2	1.9	5.9	80.4	0.0	0.0	0.0	10.1	6.2	3.8	
MLT	7.9	7.7	19.9	19.8	20.4	0.0	0.0	0.0	7.3	7.6	7.8	HRS
MLAT	*****	15.51	39.55	*****	*****	0.00	0.00	0.00	*****	*****	*****	DEGS
NVLAT	57.4	47.2	43.1	65.7	83.6	0.0	0.0	0.0	71.6	66.2	59.3	DEGS

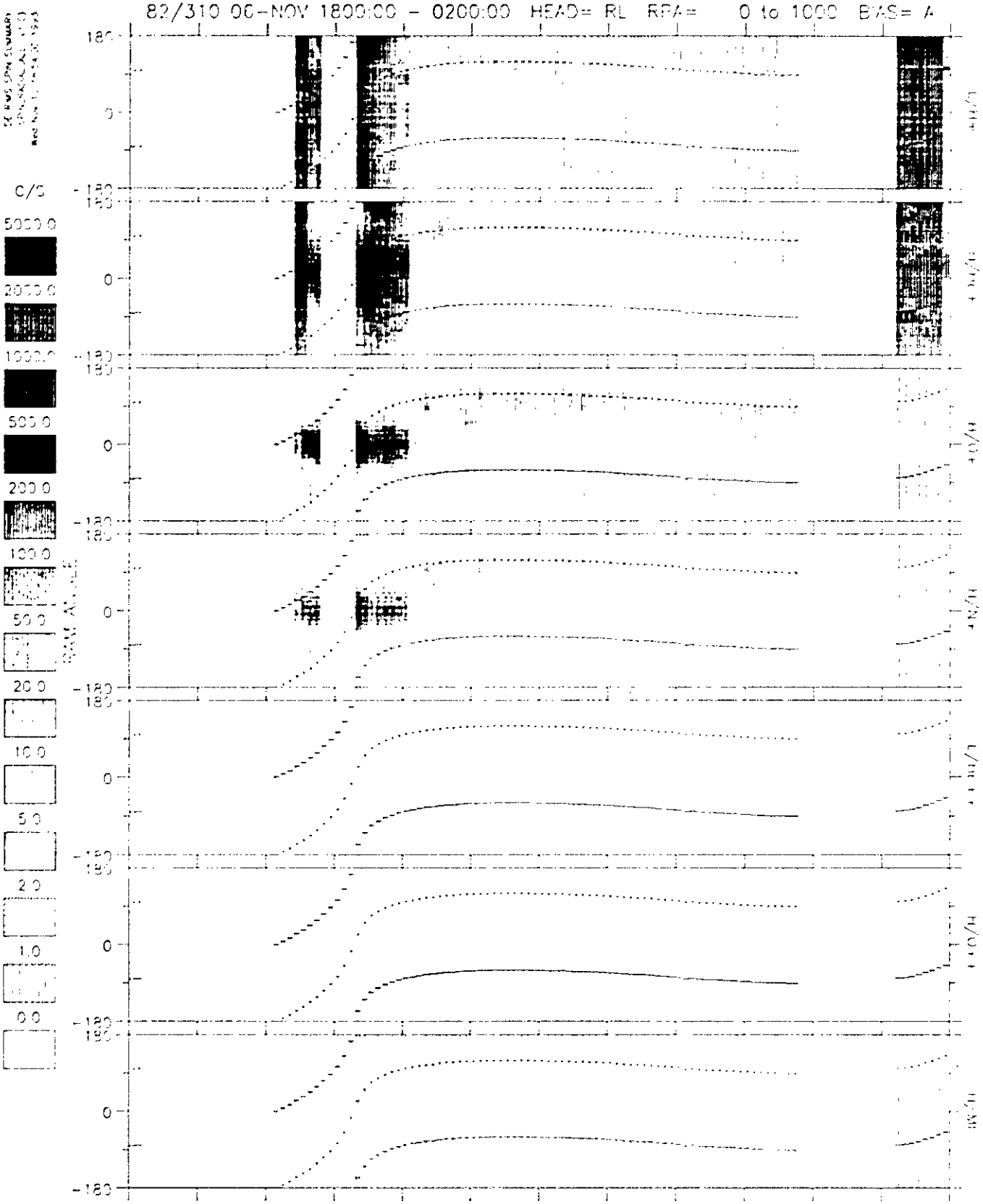


TIME	0510	0550	0600	0600	0750	0830	0910	0950	1030	1110	1150	HHMM
RE	3.0	1.7	0.0	0.0	3.6	4.2	4.6	4.7	4.5	4.0	3.2	RE
L	3.0	2.7	0.0	0.0	55.5	20.2	11.6	7.9	5.8	4.4	3.3	
MLT	8.0	8.8	0.0	0.0	4.9	6.9	7.5	7.8	8.0	8.1	8.1	HRS
MLAT	-5.39	38.55	0.00	0.00	*****	*****	*****	*****	*****	*****	2.96	DEGS
INVLAT	55.0	52.3	0.0	0.0	82.3	77.1	72.9	69.2	65.5	61.4	56.7	DEGS

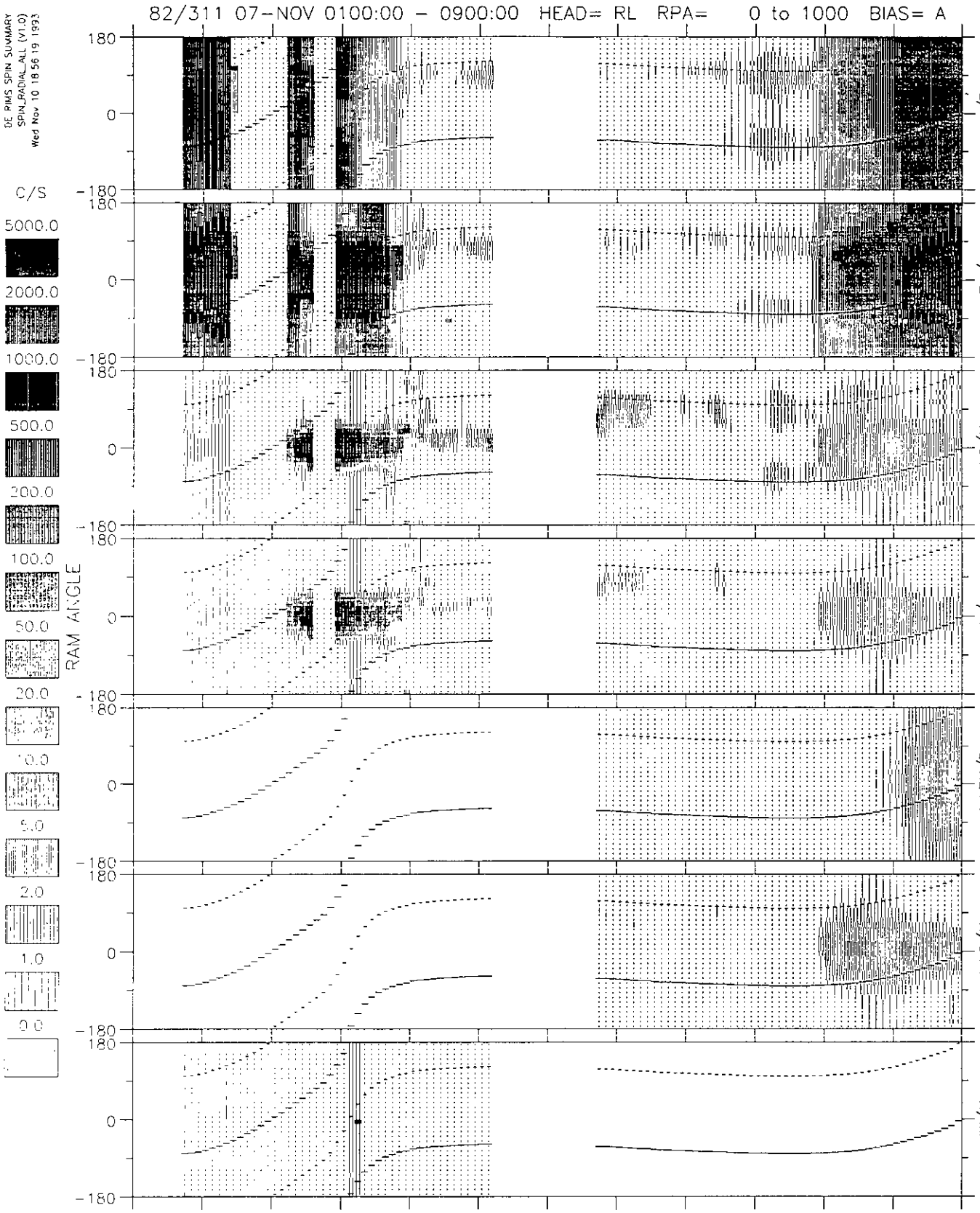


TIME	1155	1235	1315	1355	0000	0000	1555	1635	1715	1755	0000	HHMM
RE	3.1	1.9	1.2	2.5	0.0	0.0	4.5	4.7	4.5	4.1	0.0	RE
L	3.2	3.6	1.1	44.8	0.0	0.0	12.7	9.2	6.9	5.1	0.0	
MLT	8.1	8.1	20.1	18.8	0.0	0.0	8.9	8.7	8.5	8.3	0.0	HRS
MLAT	5.82	42.66	1.72	*****	0.00	0.00	*****	*****	*****	*****	0.00	DEGS
INVLAT	56.1	58.3	18.0	81.4	0.0	0.0	73.7	70.8	67.7	63.7	0.0	DEGS

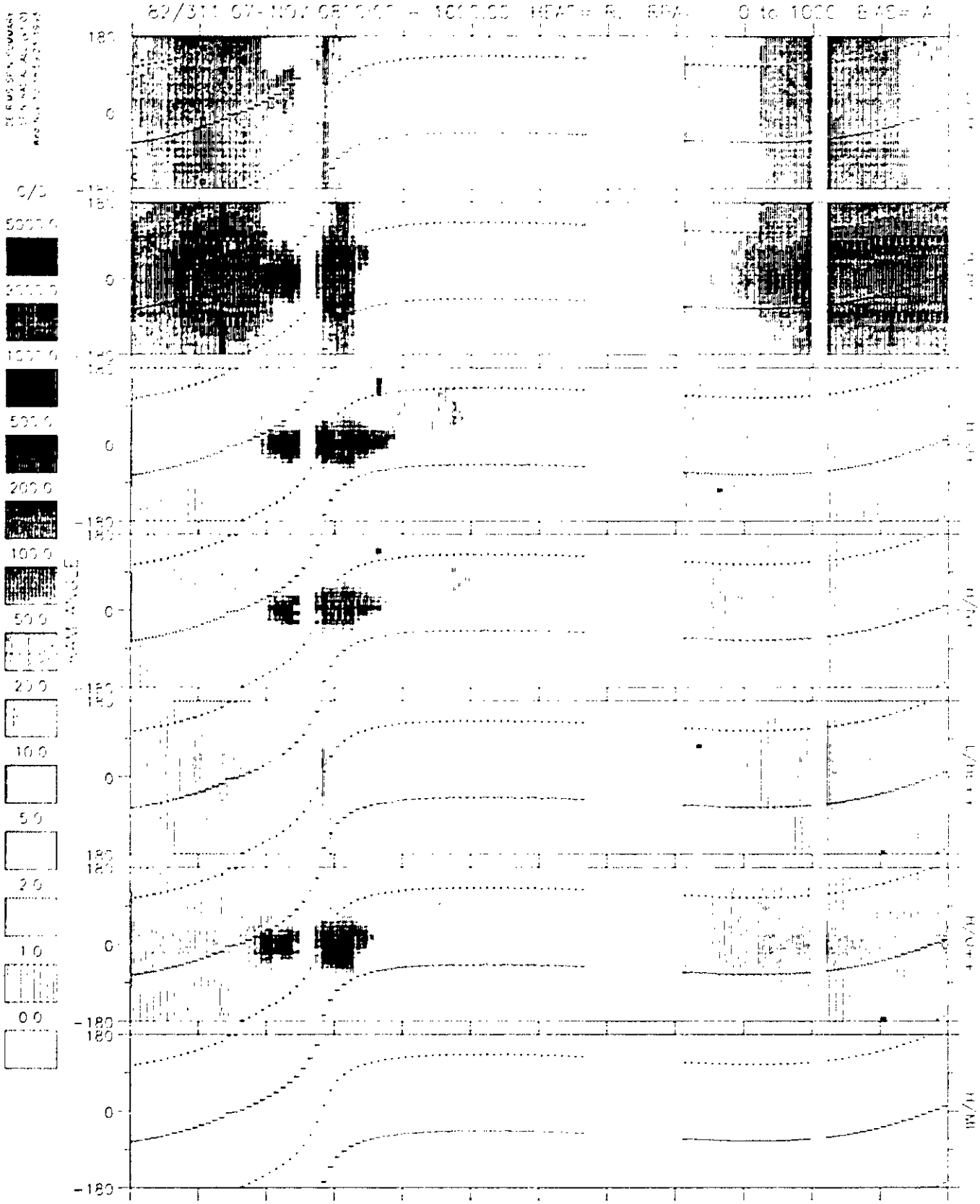
82/310 00-NOV 1800:00 - 0200:00 HEAD= RL RPA= 0 to 1000 BIAS= A



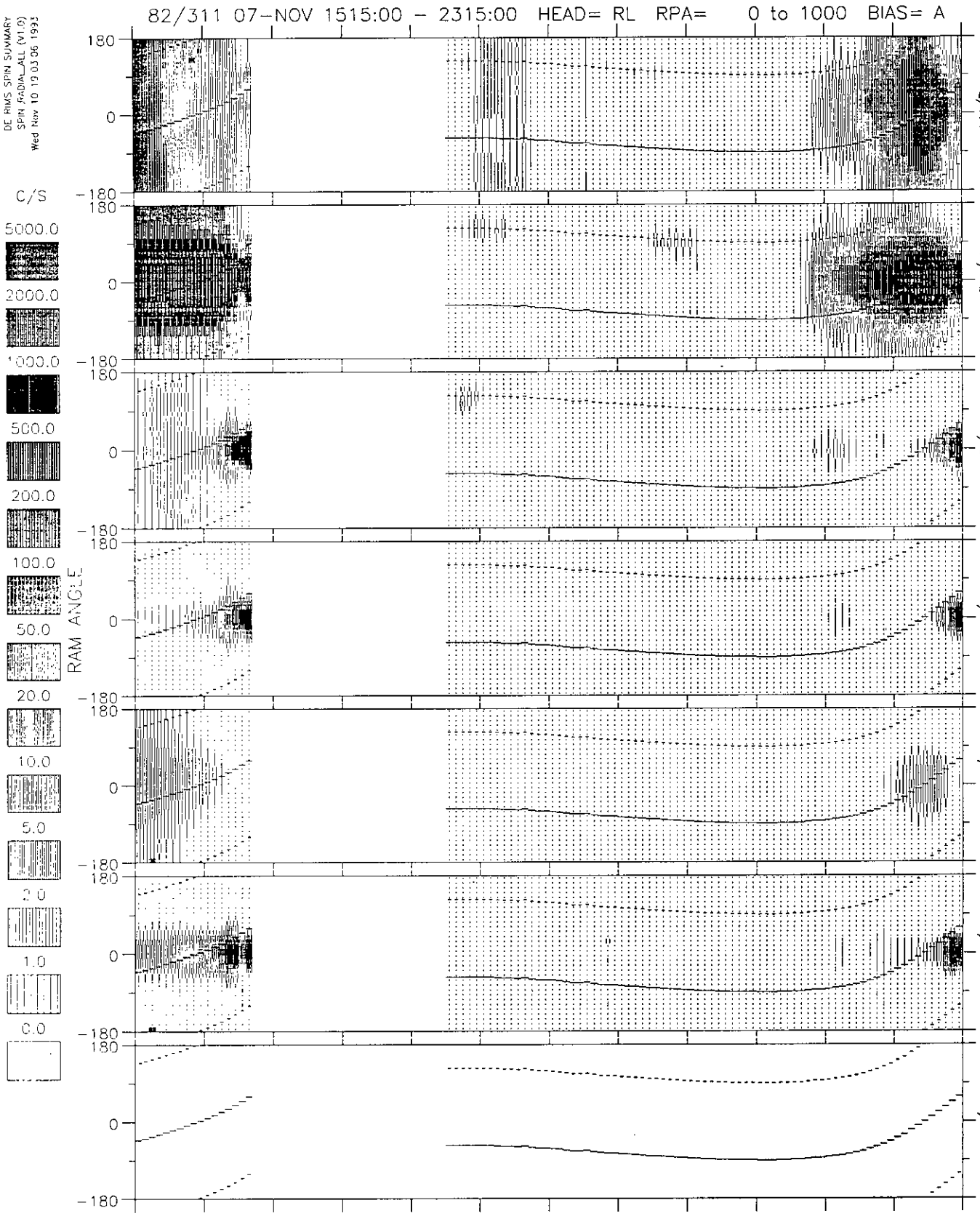
TIME	0000	0000	2000	2040	2120	2200	2240	2320	0000	0000	0000	HH:MM
RE	0.0	0.0	1.1	2.3	3.4	4.1	4.5	4.7	4.5	0.0	0.0	RE
L	0.0	0.0	1.6	6.4	65.0	100.0	54.0	23.0	12.4	0.0	0.0	
MLT	0.0	0.0	20.4	18.9	17.1	10.9	8.0	8.0	7.8	0.0	0.0	HRS
MLAT	0.00	0.00	42.15	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	38.2	66.7	83.1	86.2	82.2	78.0	73.5	0.0	0.0	DEGS



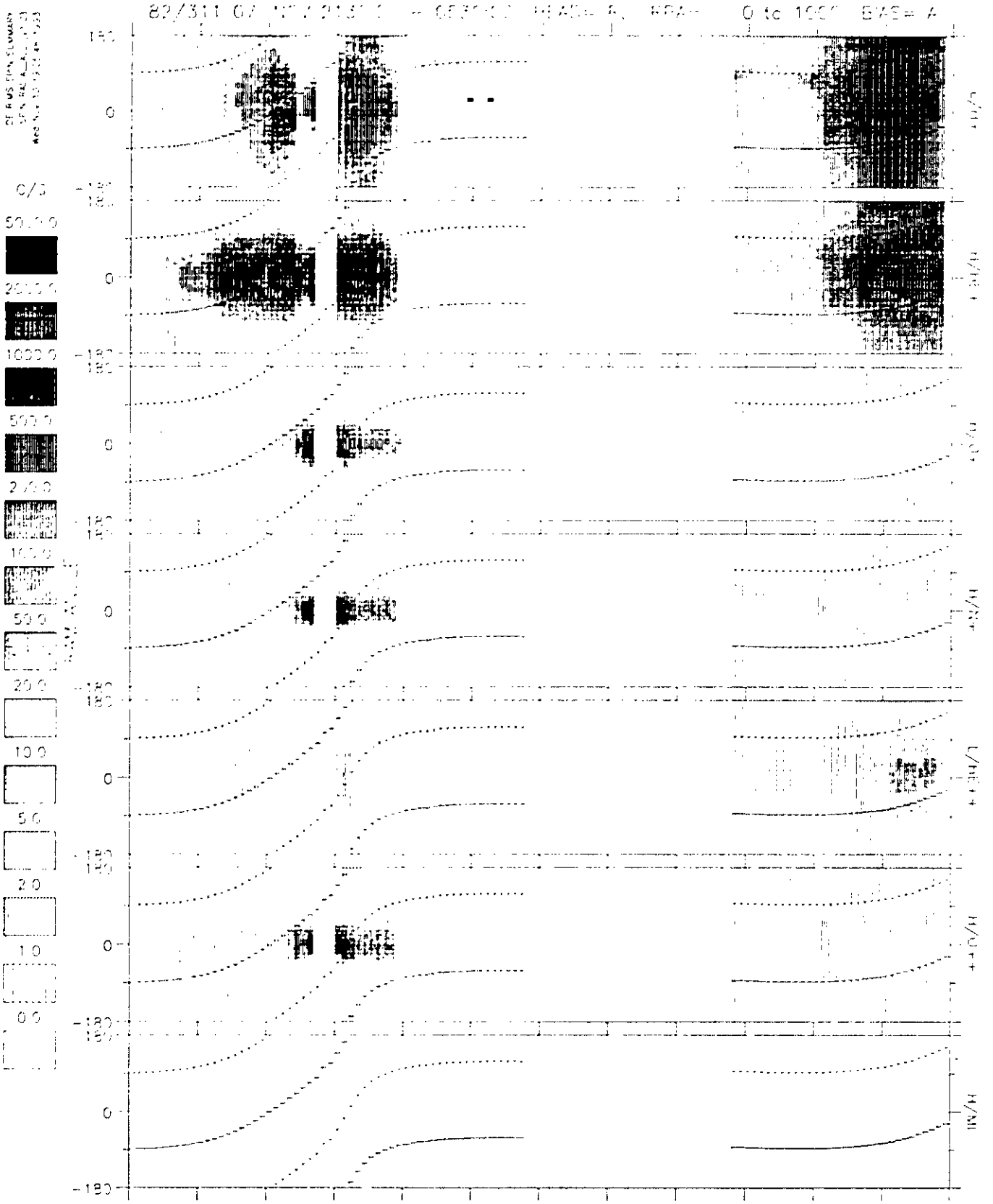
TIME	0140	0220	0300	0340	0420	0000	0540	0620	0700	0740	0820	HHMM
RE	3.0	1.8	1.3	2.6	3.6	0.0	4.6	4.7	4.5	4.0	3.3	RE
-	3.1	2.3	1.3	10.8	93.7	0.0	18.5	10.8	7.1	4.9	3.4	
MLT	7.7	8.1	19.8	21.1	1.2	0.0	6.7	7.2	7.5	7.8	8.1	HRS
MLAT	*****	27.24	7.59	*****	*****	0.00	*****	*****	*****	*****	-3.61	DEGS
INVLAT	55.6	48.9	28.4	72.3	84.1	0.0	76.6	72.3	67.9	63.1	57.2	DEGS



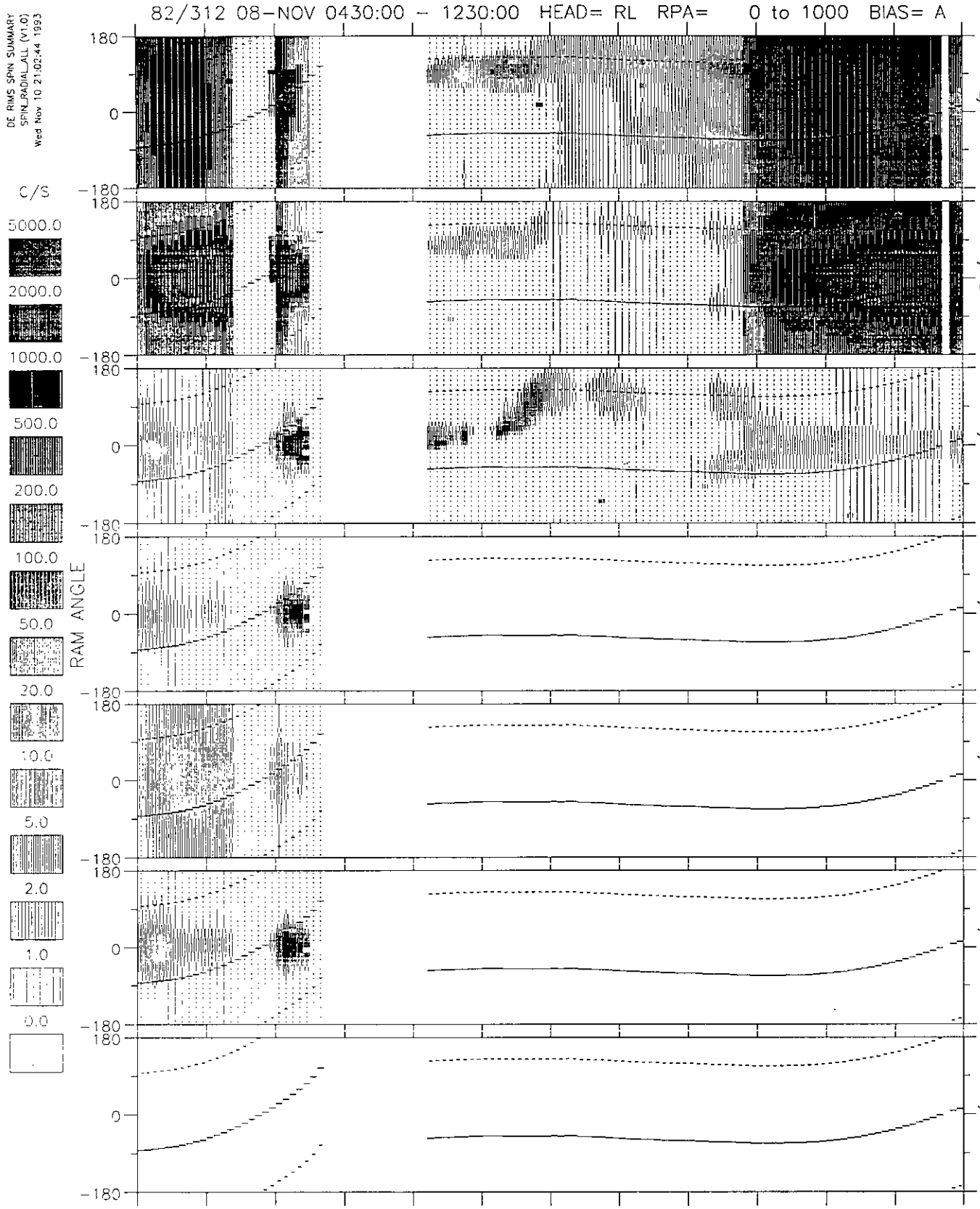
TIME	0840	0920	1000	1040	1120	1200	0000	0000	1400	0000	1520	HHMM
RE	2.8	1.5	1.6	2.9	3.8	4.3	0.0	0.0	4.4	0.0	3.1	RE
L	2.9	6.2	2.5	100.0	34.5	14.7	0.0	0.0	5.4	0.0	3.1	
MLT	8.2	9.3	20.4	0.9	7.0	8.0	0.0	0.0	8.2	0.0	7.9	HRS
MLAT	9.30	64.41	*****	*****	*****	*****	0.00	0.00	*****	0.00	3.33	DEGS
INVLAT	53.9	66.3	58.4	87.4	80.2	74.9	0.0	0.0	64.6	0.0	65.2	DEGS



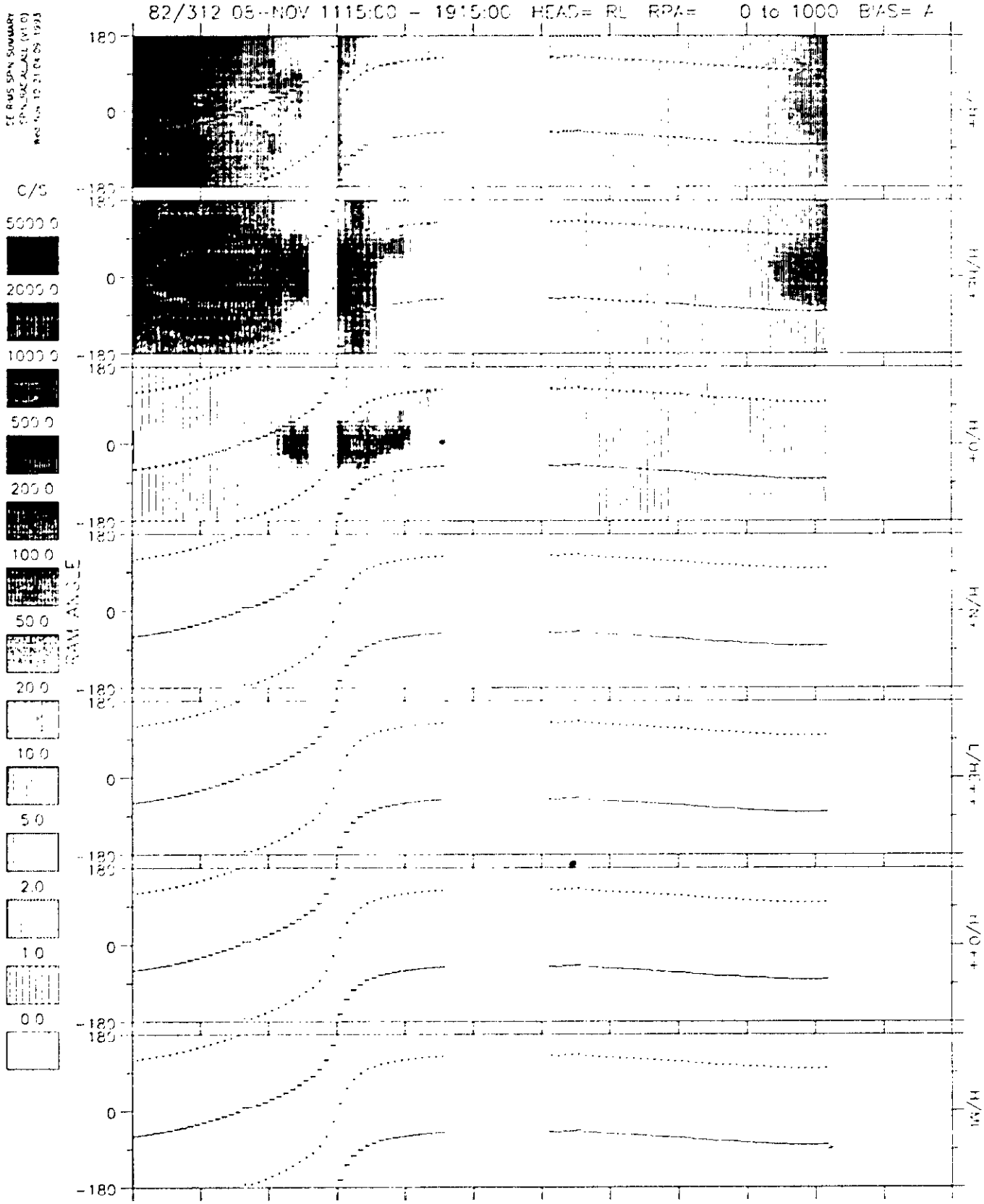
TIME	1555	0000	0000	0000	1835	1915	1955	2035	2115	2155	2235	HHMM
RE	2.0	0.0	0.0	0.0	4.1	4.5	4.7	4.5	4.1	3.4	2.4	RE
L	2.8	0.0	0.0	0.0	42.0	23.1	14.8	9.9	6.5	4.0	2.3	
MLT	7.5	0.0	0.0	0.0	10.3	9.3	8.7	8.3	8.1	7.8	7.6	HRS
MLAT	33.03	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	3.83	DEGS
INVLAT	53.5	0.0	0.0	0.0	81.1	78.0	74.9	71.5	66.8	59.8	48.8	DEGS



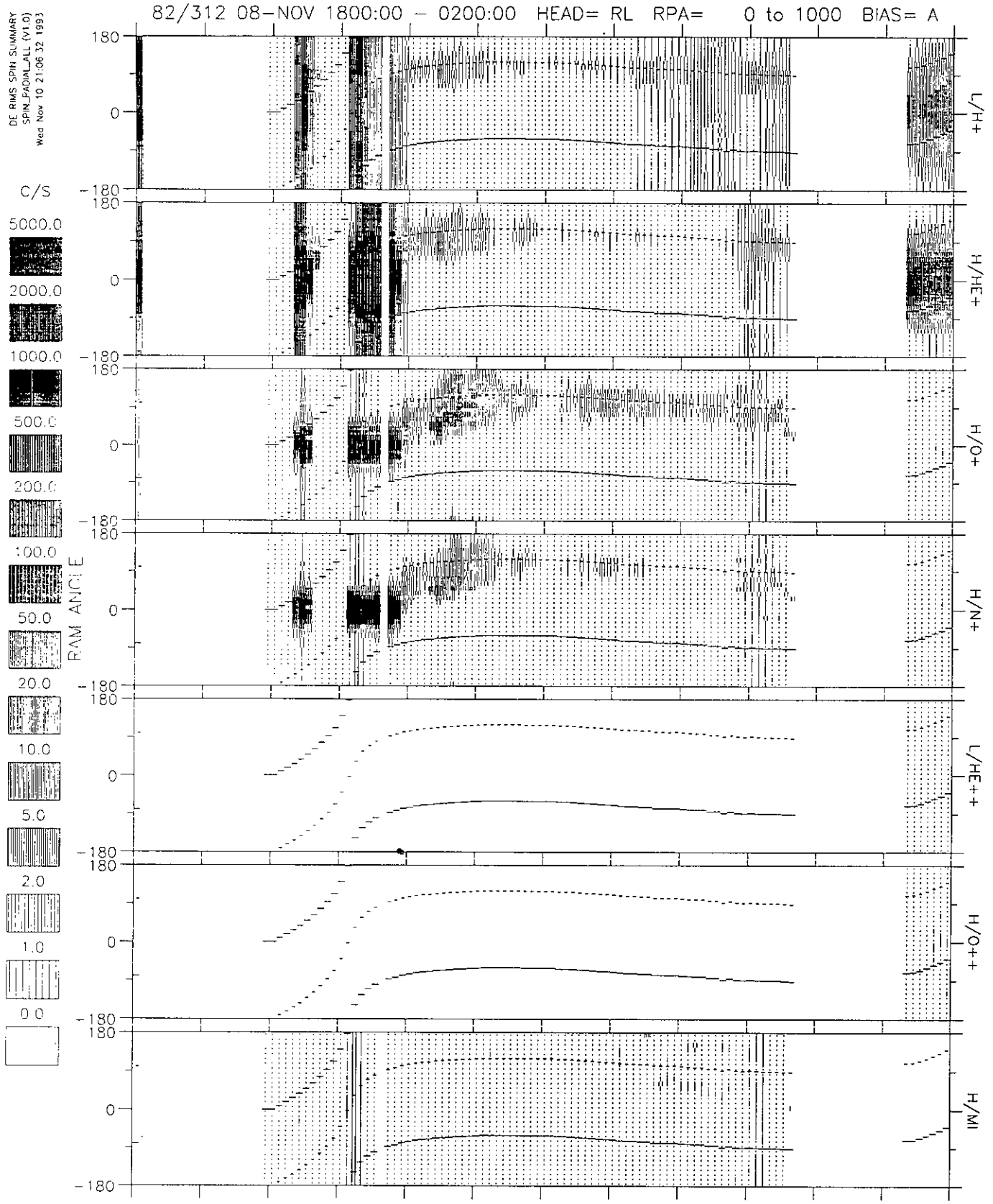
C/S
TIME 2210 2250 2330 0010 0050 0000 0000 0000 0330 0410 0450 HHMM
RE 3.1 1.9 1.2 2.5 3.5 0.0 0.0 0.0 4.5 4.1 3.3 RE
L 3.2 2.2 1.4 7.8 100.0 0.0 0.0 0.0 9.6 5.8 3.6
MLT 7.7 7.5 19.7 19.7 20.6 0.0 0.0 0.0 7.2 7.5 7.8 HRS
MLAT ***** 22.70 17.9 ***** ***** 0.00 0.00 0.00 ***** ***** ***** DEGS
INVLAT 56.1 47.3 32.9 68.9 84.7 0.0 0.0 0.0 71.1 65.6 58.3 DEGS



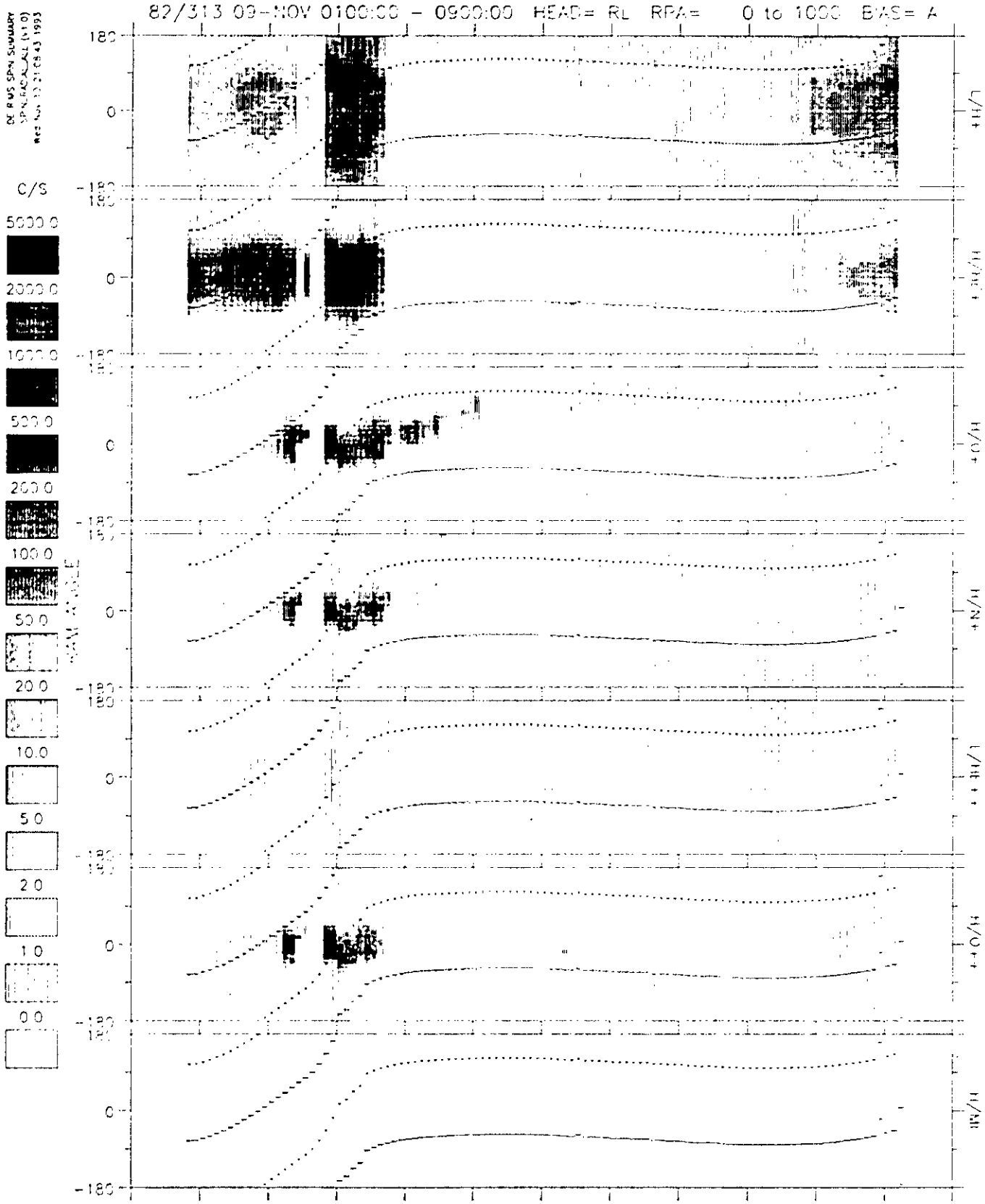
TIME	0510	0550	0000	0000	0750	0830	0910	0950	1030	1110	1150	HHMM
RE	2.8	1.5	0.0	0.0	3.7	4.3	4.6	4.6	4.4	3.9	3.1	RE
L	2.9	3.4	0.0	0.0	49.2	19.0	11.1	7.7	5.6	4.2	3.2	
MLT	7.9	8.9	0.0	0.0	5.2	6.9	7.4	7.7	7.9	8.0	8.0	HRS
MLAT	-2.02	49.62	0.00	0.00	*****	*****	*****	*****	*****	*****	5.38	DEGS
INVLAT	53.8	57.4	0.0	0.0	81.8	76.7	72.6	68.8	65.1	60.8	56.0	DEGS



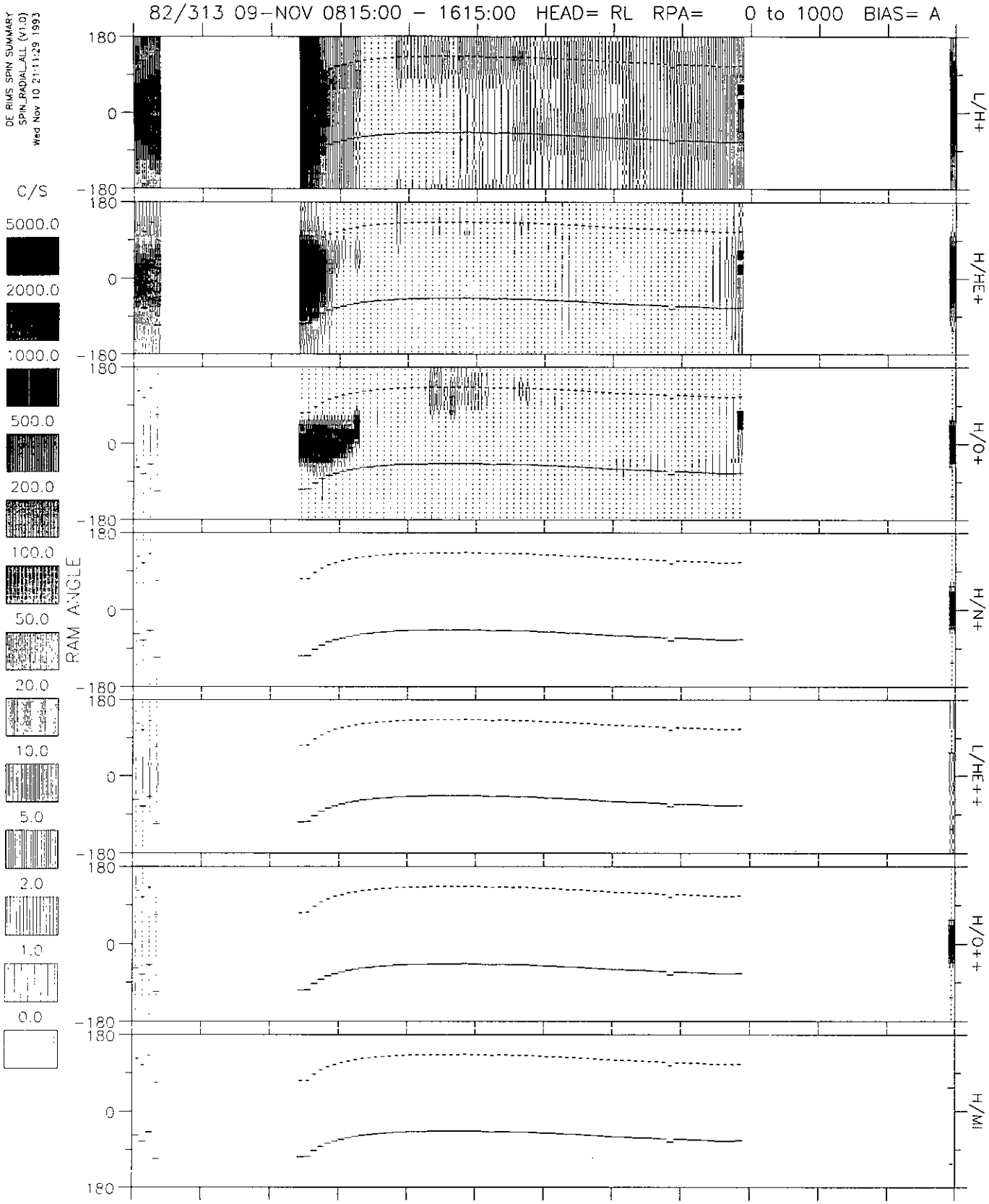
TIME	1155	1235	1315	1355	0000	0000	1555	1635	1715	1755	0000	HHMM
RE	3.0	1.7	1.3	2.6	0.0	0.0	4.0	4.7	4.5	4.0	0.0	RE
L	3.1	4.4	1.4	79.2	0.0	0.0	12.5	9.1	6.8	4.9	0.0	
MLT	8.0	7.9	19.9	18.0	0.0	0.0	8.7	8.0	8.3	8.1	0.0	HRS
MLAT	8.46	51.13	*****	*****	0.00	0.00	*****	*****	*****	*****	0.00	DEGS
INVLAT	55.5	61.7	30.7	83.5	0.0	0.0	73.6	70.7	67.5	63.3	0.0	DEGS



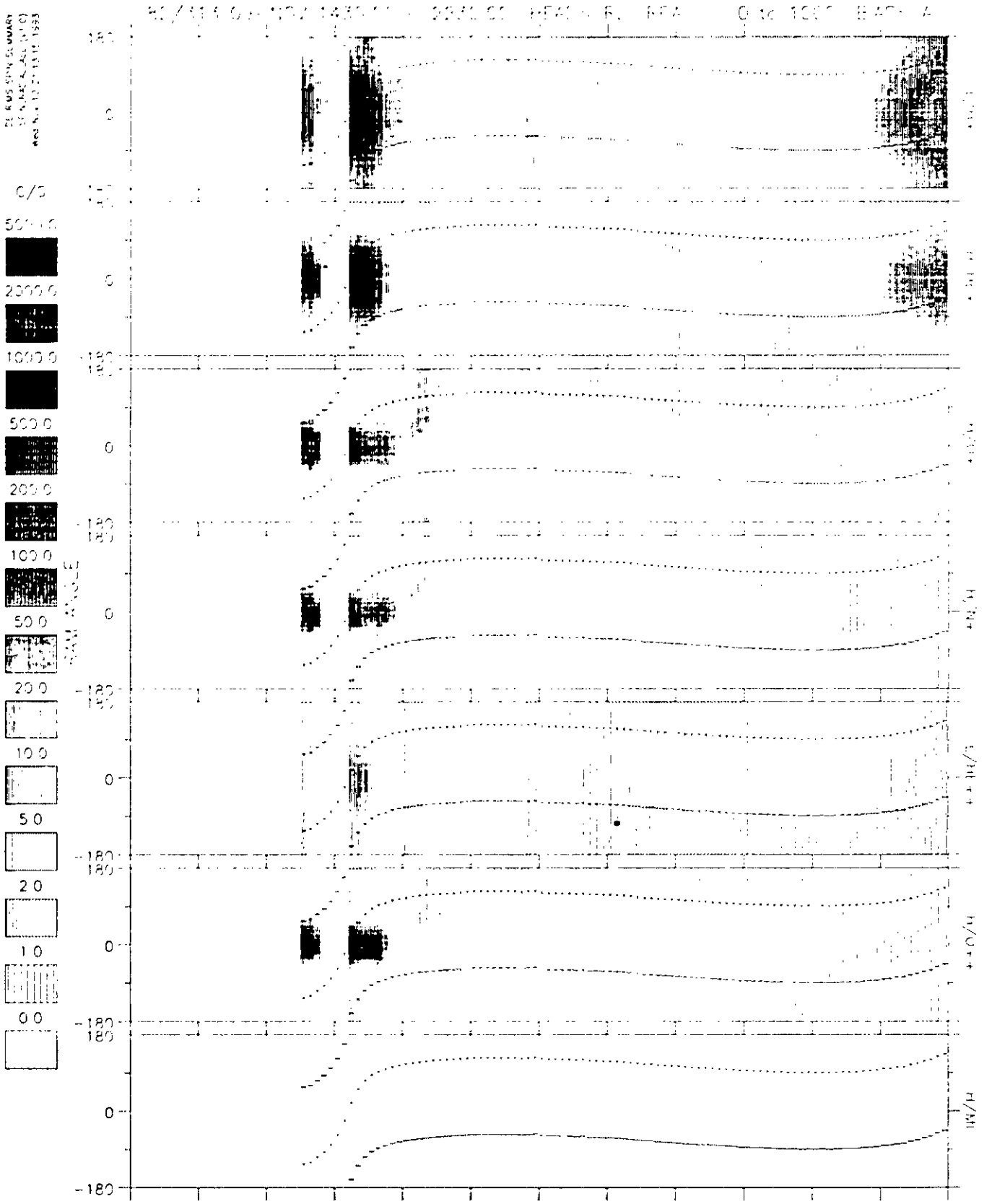
TIME	0000	1920	2000	2040	2120	2200	2240	2320	0000	0000	0000	HHMM
RE	0.0	1.9	1.2	2.5	3.5	4.2	4.5	4.7	4.5	0.0	0.0	RE
L	0.0	2.3	1.2	8.3	90.2	100.0	51.3	22.1	11.9	0.0	0.0	
MLT	0.0	7.3	19.9	18.7	16.7	10.4	8.4	7.8	7.6	0.0	0.0	HRS
MLAT	0.00	26.03	19.82	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	49.0	24.9	69.7	83.9	86.1	82.0	77.7	73.1	0.0	0.0	DEGS



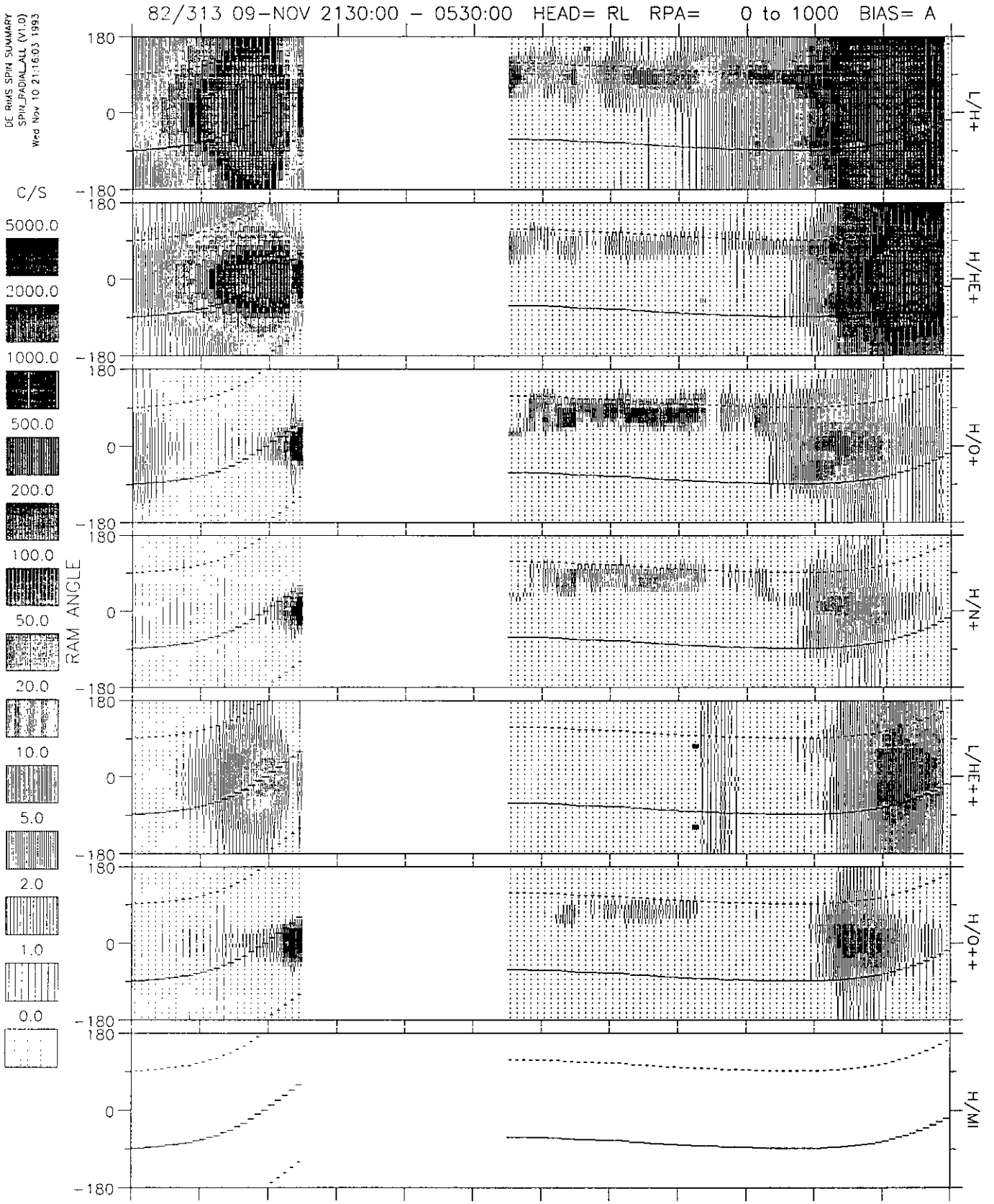
TIME	0140	0220	0300	0340	0420	0500	0540	0620	0700	0740	0820	HHMM
RE	2.9	1.6	1.4	2.7	3.7	4.3	4.6	4.6	4.4	4.0	3.2	RE
L	2.9	2.7	1.5	14.5	97.5	38.8	17.5	10.3	6.8	4.7	3.2	
MLT	7.6	8.0	19.8	21.2	1.8	5.0	6.6	7.1	7.4	7.7	8.0	HRS
MLAT	*****	37.20	-8.39	*****	*****	*****	*****	*****	*****	*****	-1.13	DEGS
ILAT	54.2	52.4	34.7	74.8	84.2	80.6	76.2	71.9	67.5	62.5	50.3	DEGS



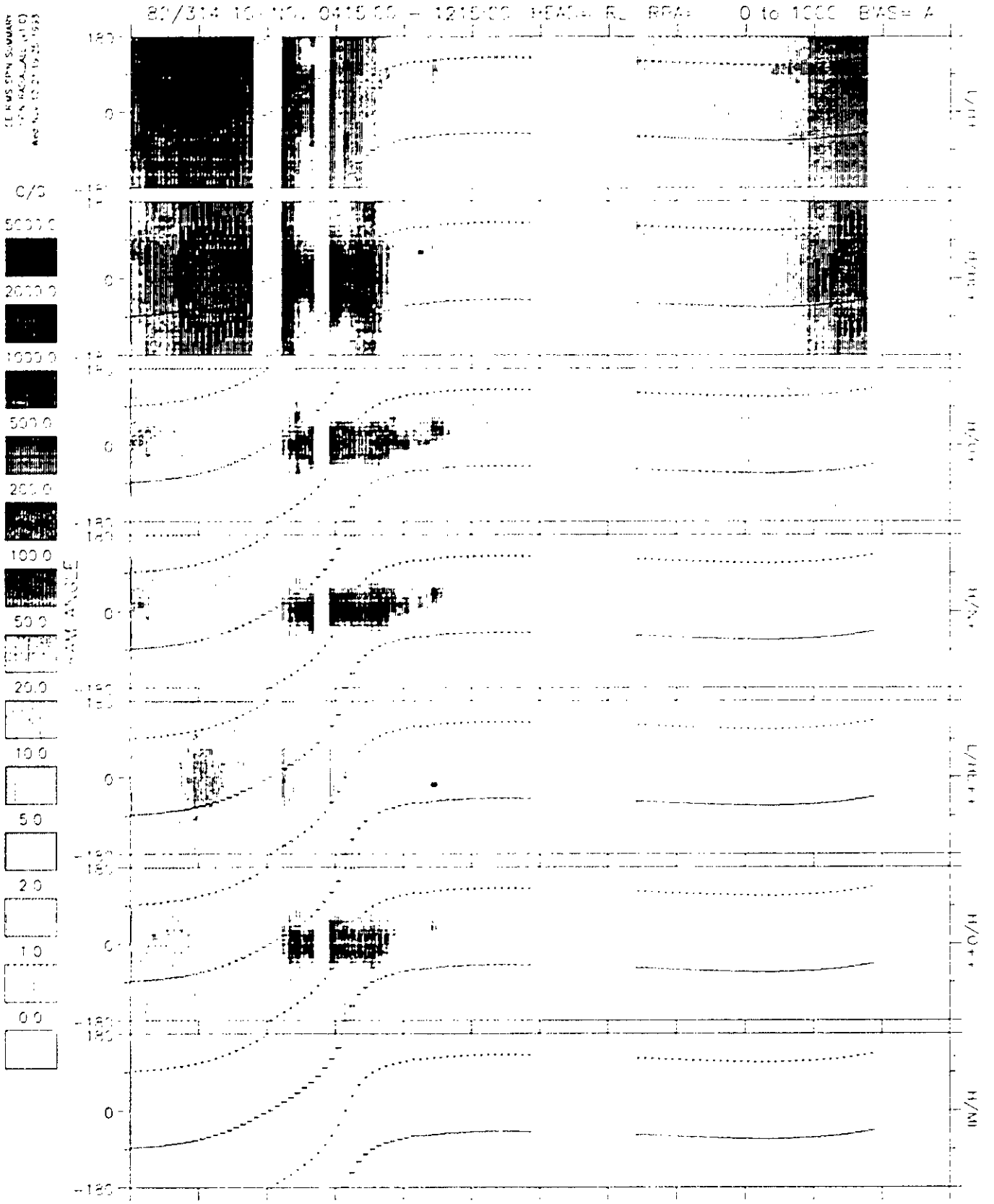
TIME	0000	0000	1015	1055	1135	1215	1255	1335	0000	0000	0000	HHMM
RE	0.0	0.0	2.3	3.4	4.1	4.5	4.7	4.5	0.0	0.0	0.0	RE
L	0.0	0.0	19.9	100.0	21.3	11.9	8.3	6.3	0.0	0.0	0.0	
MLT	0.0	0.0	20.9	6.6	7.8	8.0	8.1	8.1	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INV_AT	0.0	0.0	77.0	84.4	77.5	73.1	69.7	66.5	0.0	0.0	0.0	DEGS



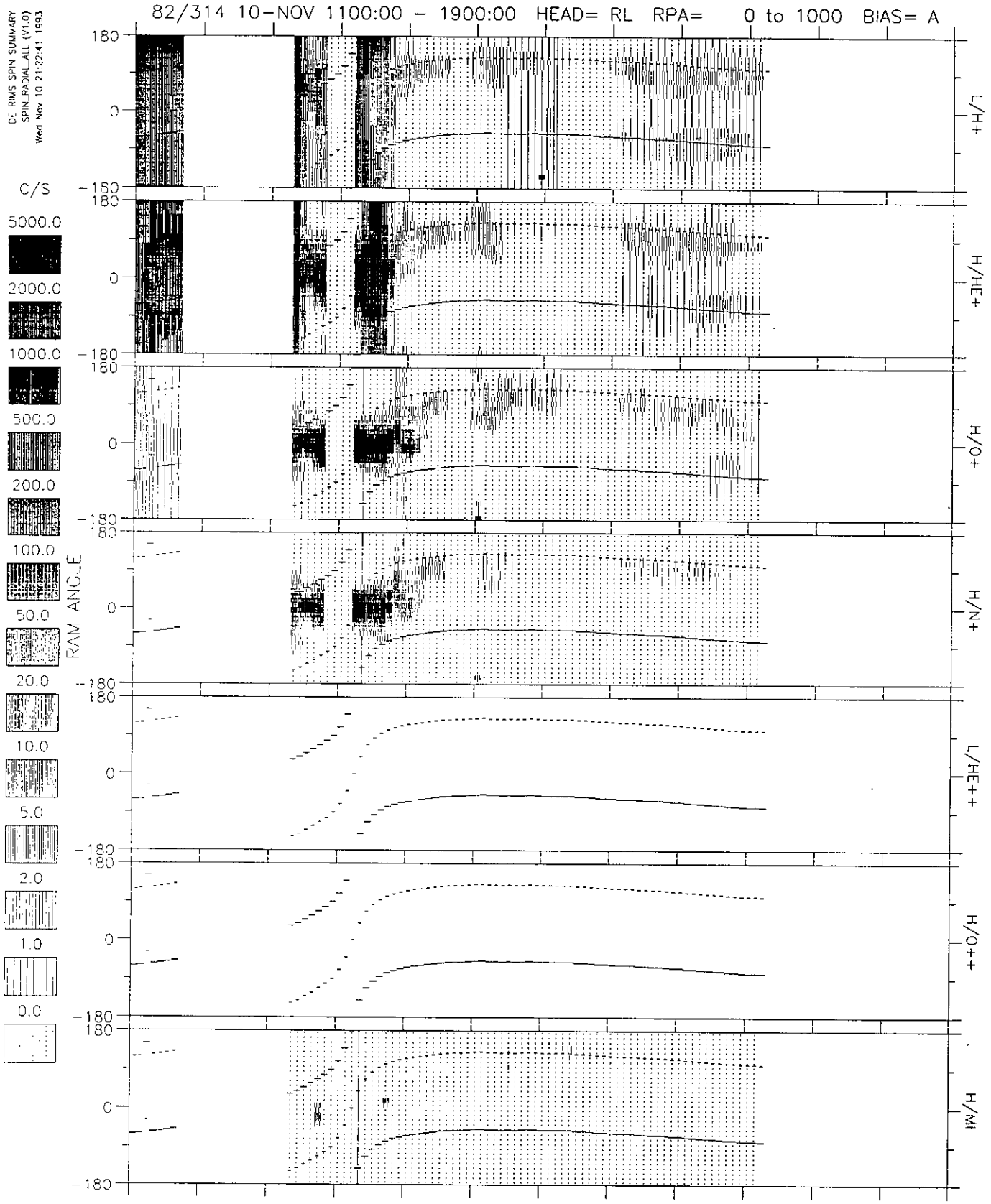
TIME	0000	0000	1630	1710	1750	1830	1910	1950	2030	2110	2150	HHMM
RE	0.0	0.0	1.1	2.4	3.5	4.1	4.5	4.7	4.5	4.1	3.4	RE
L	0.0	0.0	1.2	12.4	78.8	44.0	24.2	15.3	10.1	6.6	4.0	
MLT	0.0	0.0	20.0	18.2	13.6	10.2	9.2	8.6	8.2	7.9	7.7	HRS
MLAT	0.00	0.00	18.10	*****	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	24.9	73.5	83.5	81.4	78.3	75.2	71.7	67.0	59.9	DEGS



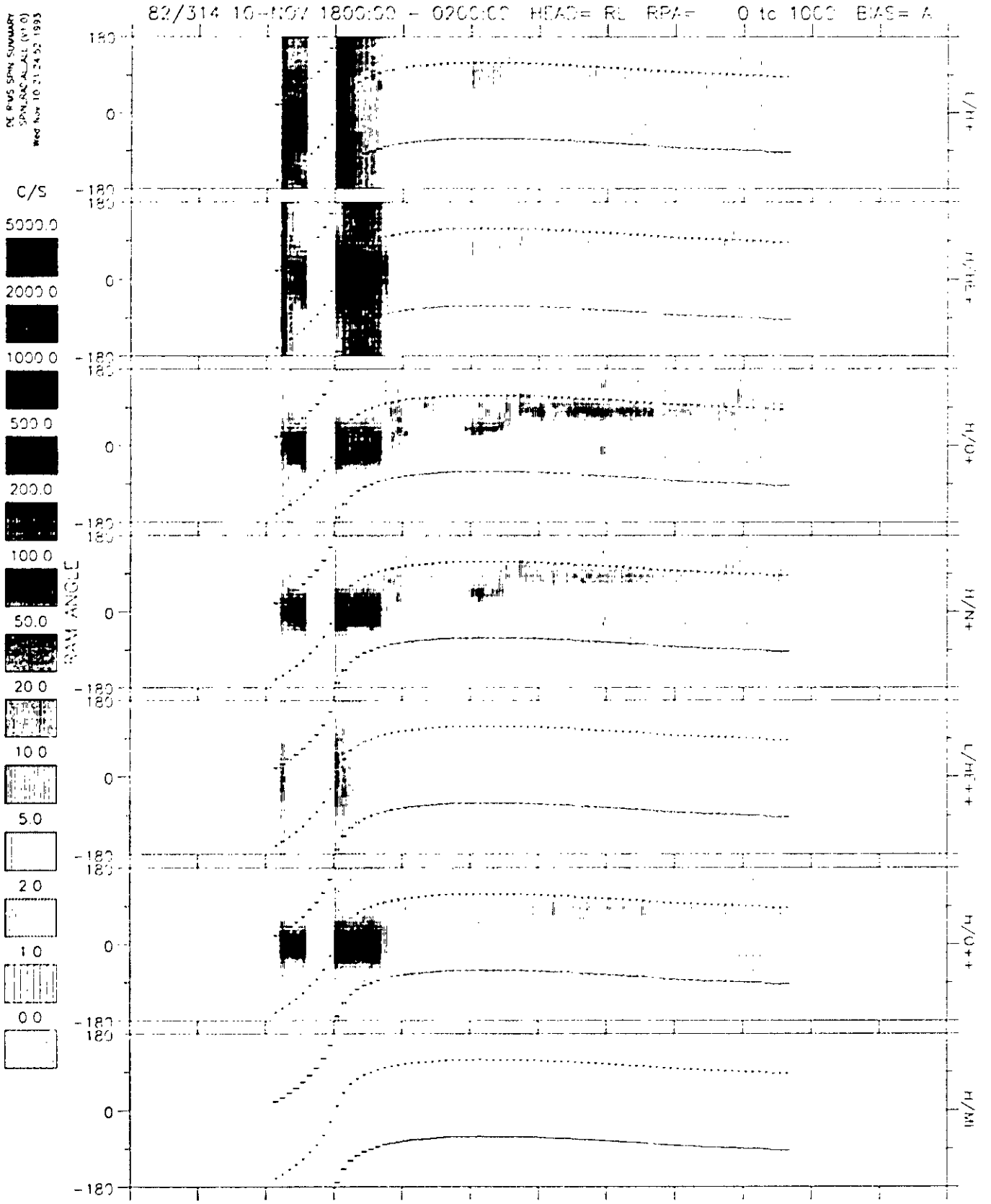
TIME	2210	2250	0000	0000	0000	0130	0210	0250	0330	0410	0450	HHMM
RE	2.9	1.7	0.0	0.0	0.0	4.3	4.6	4.6	4.5	4.0	3.2	RE
L	3.0	2.4	0.0	0.0	0.0	100.0	36.4	16.2	9.1	5.5	3.4	
MLT	7.6	7.3	0.0	0.0	0.0	5.5	6.5	6.8	7.1	7.3	7.6	HRS
MLAT	*****	31.83	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	54.7	49.5	0.0	0.0	0.0	85.8	80.5	75.6	70.7	64.9	57.2	DEGS



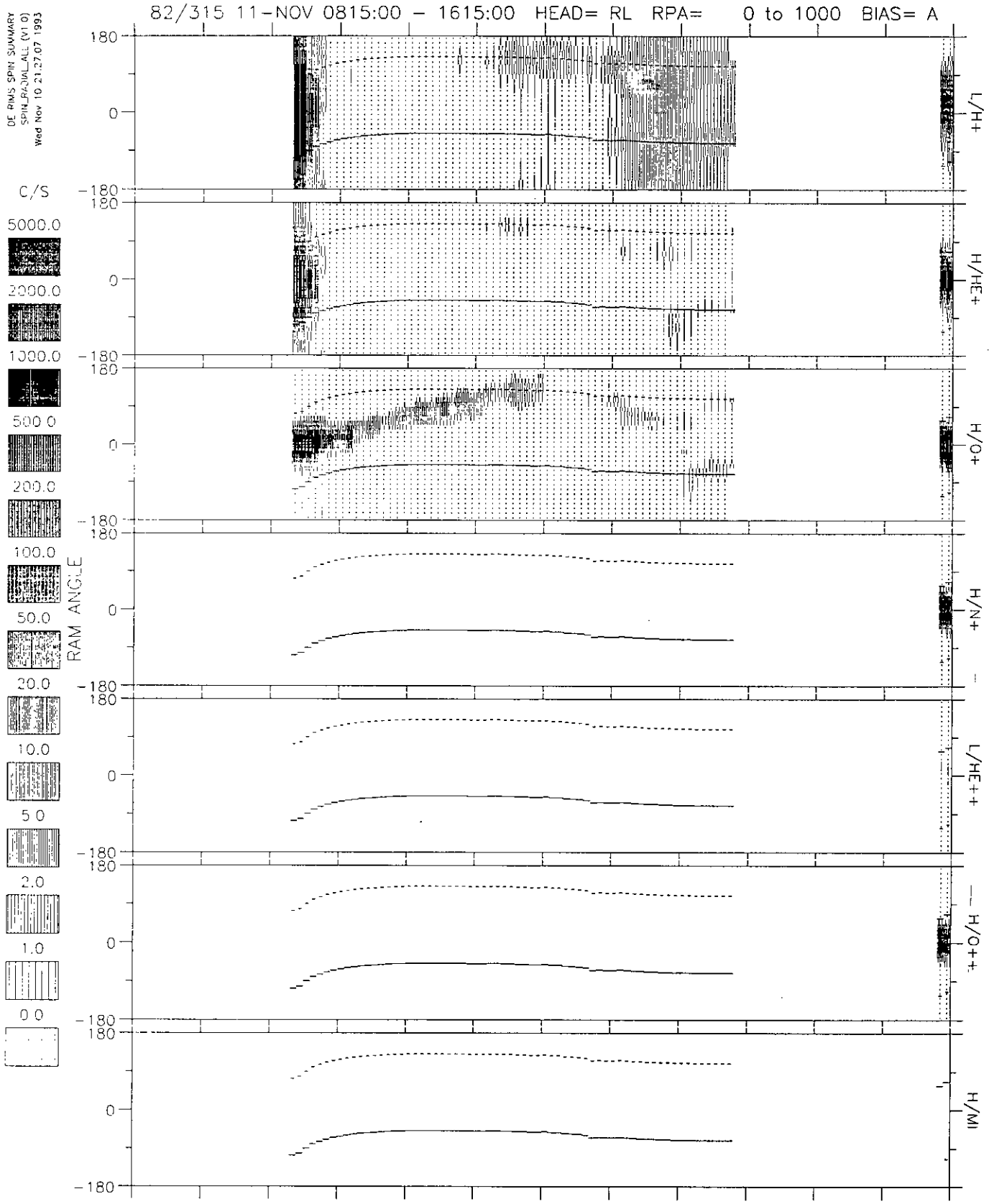
TIME	0455	0575	0615	0655	0735	0000	0000	0935	1015	1055	0000	HHMM
RE	3.1	1.9	1.2	2.5	3.5	0.0	0.0	4.7	4.5	4.1	0.0	RE
L	3.2	2.4	1.2	16.6	70.4	0.0	0.0	8.5	6.1	4.5	0.0	
MLT	7.7	8.3	10.6	21.7	3.9	0.0	0.0	7.5	7.7	7.8	0.0	HRS
MLAT	-9.17	30.22	7.64	*****	*****	0.00	0.00	*****	*****	*****	0.00	DEGS
INVLAT	56.1	49.7	24.9	75.8	83.2	0.0	0.0	69.9	60.2	62.0	0.0	DEGS



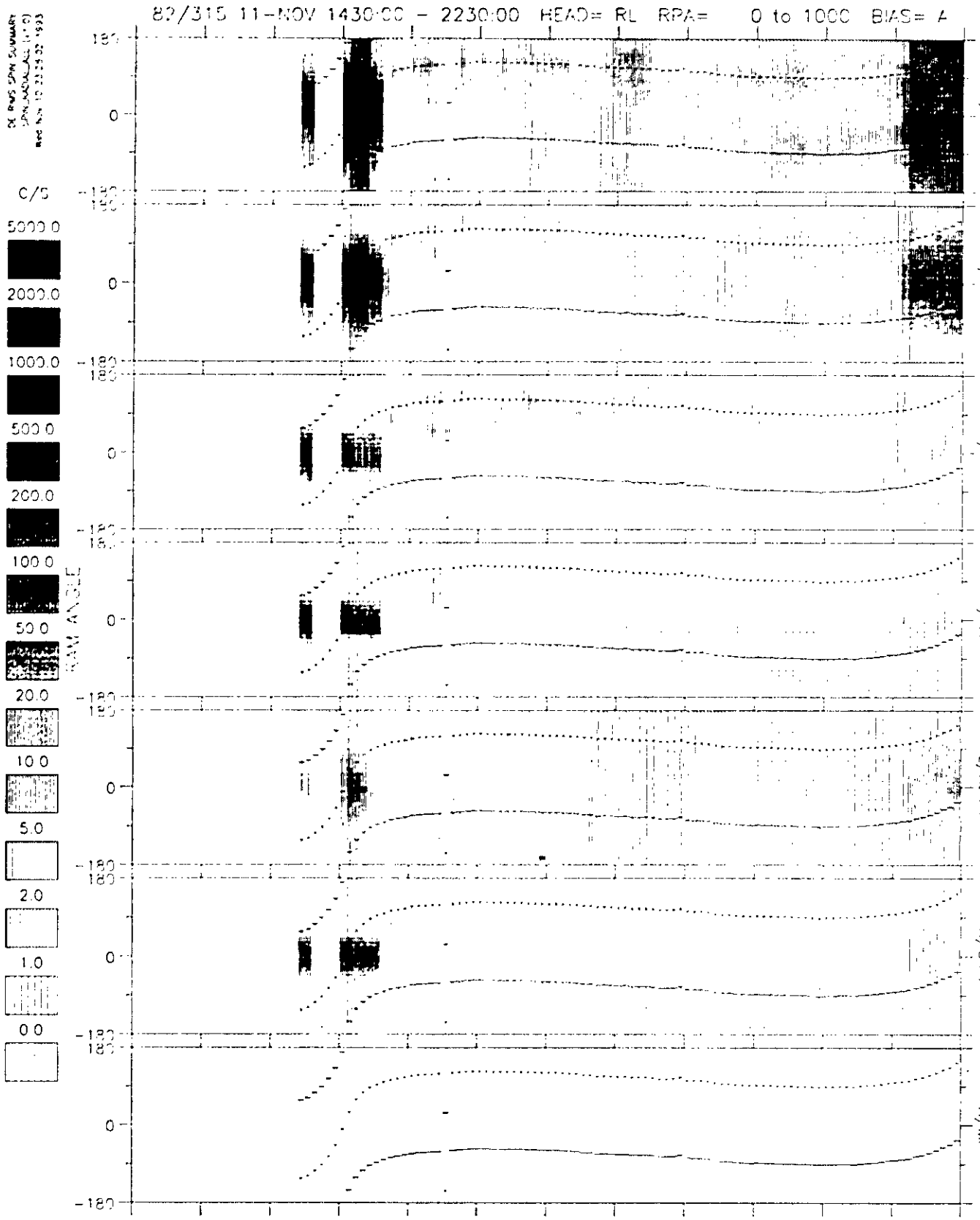
TIME	0000	0000	1300	1340	1420	1500	1540	1620	1700	0000	0000	HHMM
RE	0.0	0.0	1.1	2.3	3.4	4.1	4.5	4.7	4.5	0.0	0.0	RE
L	0.0	0.0	1.3	23.0	92.3	24.4	14.2	10.1	7.5	0.0	0.0	
MLT	0.0	0.0	19.9	18.9	10.4	9.0	8.7	8.5	8.3	0.0	0.0	HRS
MLAT	0.00	0.00	21.01	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	27.7	77.9	84.0	78.3	74.6	71.6	68.5	0.0	0.0	DEGS



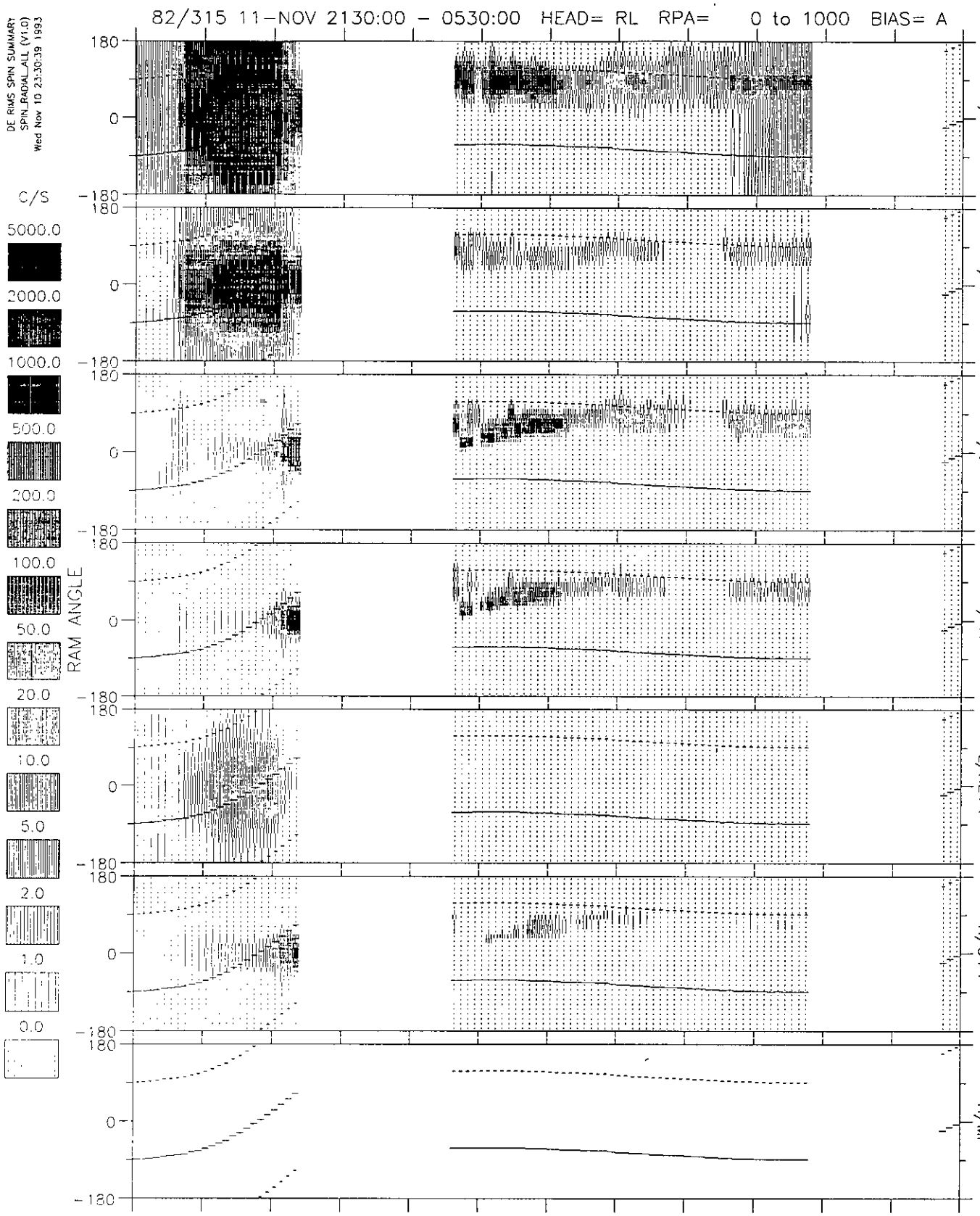
TIME	0000	0000	2000	2040	2120	2200	2240	2320	0000	0000	0000	HHMM
RE	0.0	0.0	1.3	2.0	3.6	4.2	4.6	4.7	4.5	0.0	0.0	RE
L	0.0	0.0	1.4	10.8	-0.0	-0.0	48.1	21.0	11.3	0.0	0.0	
MLT	0.0	0.0	19.5	18.4	16.2	9.9	8.1	7.6	7.5	0.0	0.0	HRS
MLAT	0.00	0.00	0.88	.....	.....	.....	.....	.....	.....	0.00	0.00	DEGS
INVLAT	0.0	0.0	32.3	72.3	-0.0	-0.0	81.7	77.4	72.7	0.0	0.0	DEGS



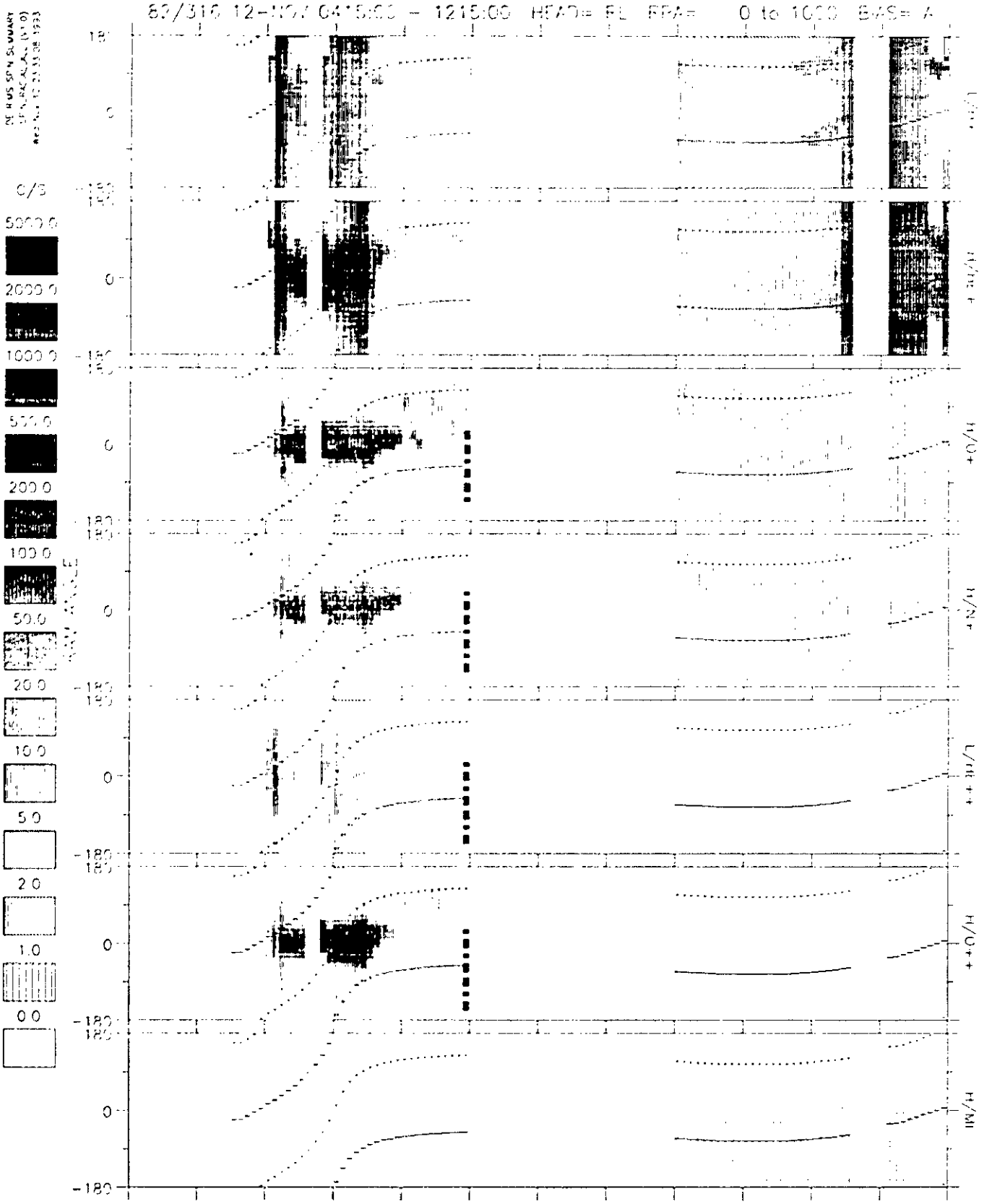
TIME	0000	0000	1015	1055	1135	1215	1255	1335	0000	0000	0000	HHMM
RE	0.0	0.0	2.4	3.5	4.2	4.5	4.7	4.5	0.0	0.0	0.0	RE
L	0.0	0.0	36.9	79.6	20.0	11.6	8.2	6.2	0.0	0.0	0.0	
MLT	0.0	0.0	21.0	6.8	7.7	7.9	8.0	8.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	80.5	83.6	77.1	72.9	69.5	66.2	0.0	0.0	0.0	DEGS



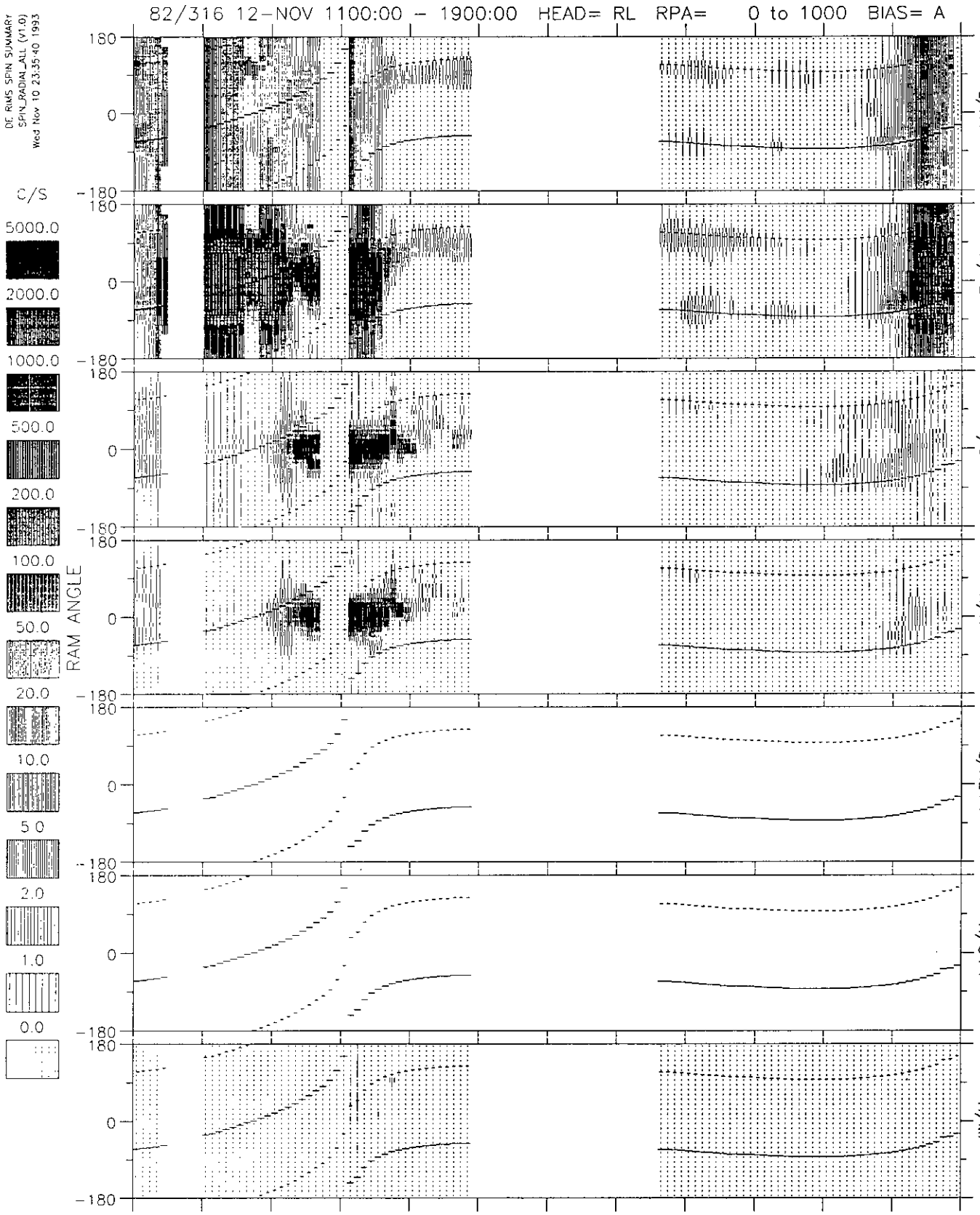
TIME	0000	0000	1630	1710	1750	1830	1910	1950	2030	2110	2150	HHMM
RE	0.0	0.0	1.3	2.0	3.0	4.2	4.6	4.7	4.5	4.0	3.3	RE
L	0.0	0.0	1.2	10.8	80.6	43.2	23.8	15.1	9.9	6.3	3.7	
MLT	0.0	0.0	19.6	17.8	13.0	10.0	9.0	8.4	8.1	7.8	7.5	HRS
MLAT	0.00	0.00	-1.73	.....	.....	.....	.....	.....	.....	.....	.....	DEGS
INVLAT	0.0	0.0	20.5	75.9	83.6	81.2	78.2	75.1	71.4	66.5	58.8	DEGS



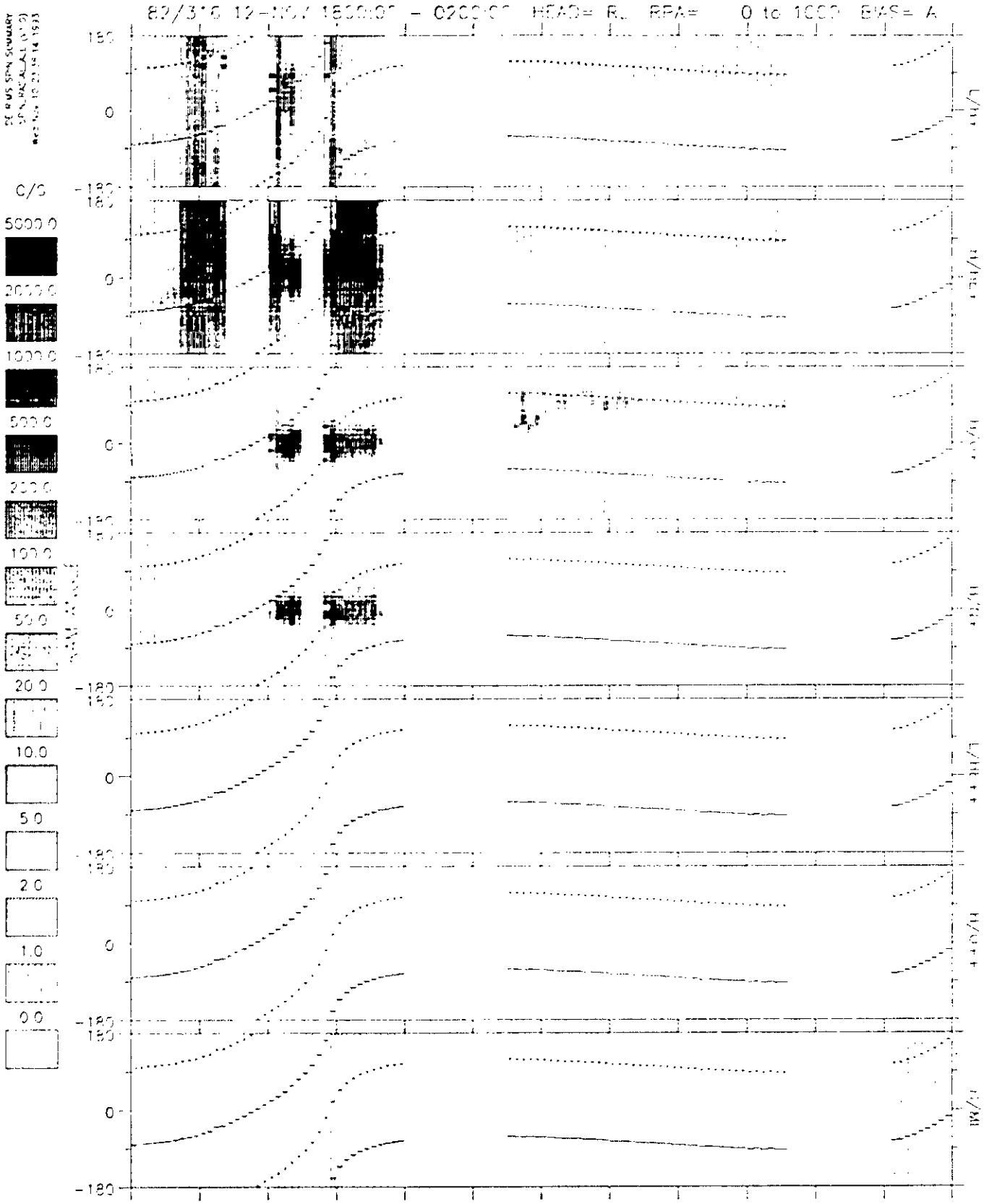
TIME	2210	2250	0000	0000	0050	0130	0210	0250	0330	0000	0000	HHMM
RE	2.8	1.5	0.0	0.0	3.8	4.3	4.6	4.6	4.4	0.0	0.0	RE
L	2.8	3.1	0.0	0.0	100.0	100.0	33.3	15.3	8.6	0.0	0.0	
MLT	7.4	7.2	0.0	0.0	21.2	5.5	6.3	6.7	6.9	0.0	0.0	HRS
MLAT	-9.44	43.32	0.00	0.00	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	53.2	55.1	0.0	0.0	86.3	85.2	80.0	75.2	70.1	0.0	0.0	DEGS

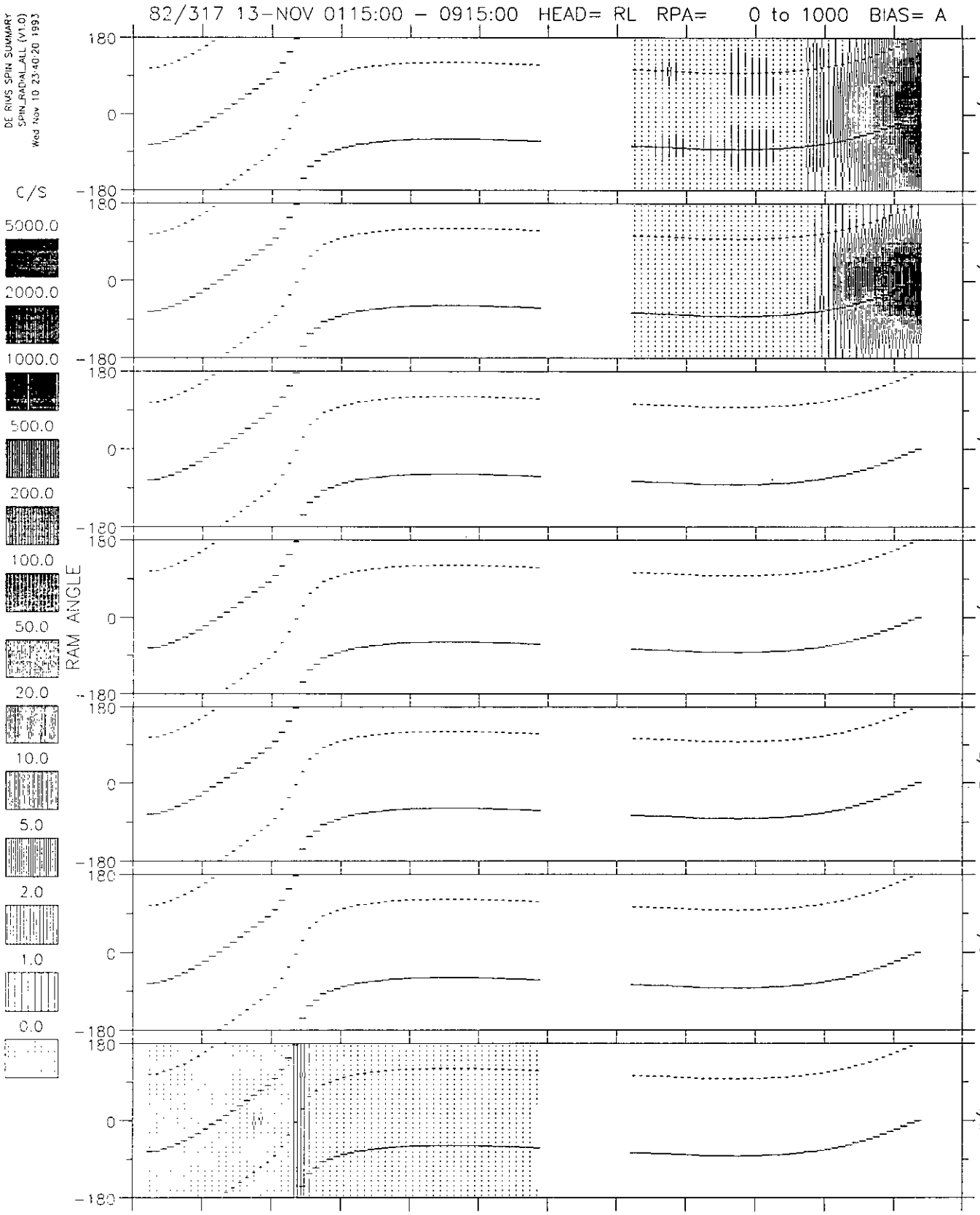


TIME	0000	0635	0615	0655	0000	0000	0000	0935	1015	1055	0000	HHMM
RE	0.0	1.7	1.4	2.7	0.0	0.0	0.0	4.6	4.5	4.0	0.0	RE
L	0.0	2.7	1.4	24.9	0.0	0.0	0.0	8.2	5.9	4.4	0.0	
MLT	0.0	8.4	19.9	22.0	0.0	0.0	0.0	7.4	7.6	7.7	0.0	HRS
MLAT	0.00	39.46	*****	*****	0.00	0.00	0.00	*****	*****	*****	0.00	DEGS
INVLAT	0.0	52.2	32.1	78.4	0.0	0.0	0.0	69.6	65.8	61.5	0.0	DEGS

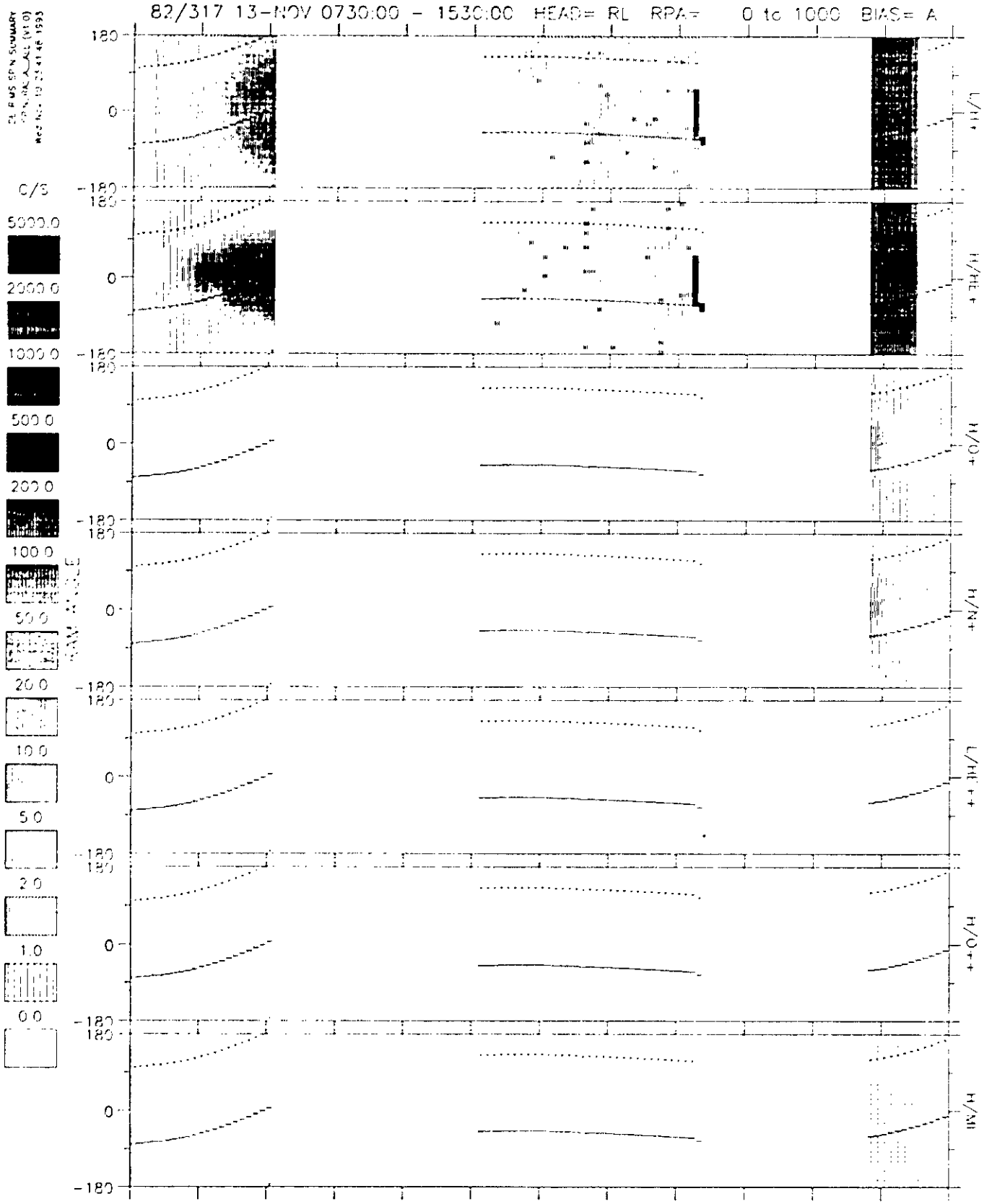


TIME	1140	1220	1300	1340	0000	0000	0000	1620	1700	1740	1820	HHMM
RE	3.1	1.9	1.2	2.5	0.0	0.0	0.0	4.7	4.5	4.1	3.3	RE
L	3.2	3.5	1.1	38.9	0.0	0.0	0.0	9.9	7.3	5.3	3.5	
MLT	7.8	7.7	19.8	18.4	0.0	0.0	0.0	8.3	8.1	7.9	7.7	HRS
MLAT	4.46	42.68	6.74	*****	0.00	0.00	0.00	*****	*****	*****	*****	DEGS
INVLAT	55.9	57.9	19.1	80.8	0.0	0.0	0.0	71.5	68.3	64.2	57.9	DEGS

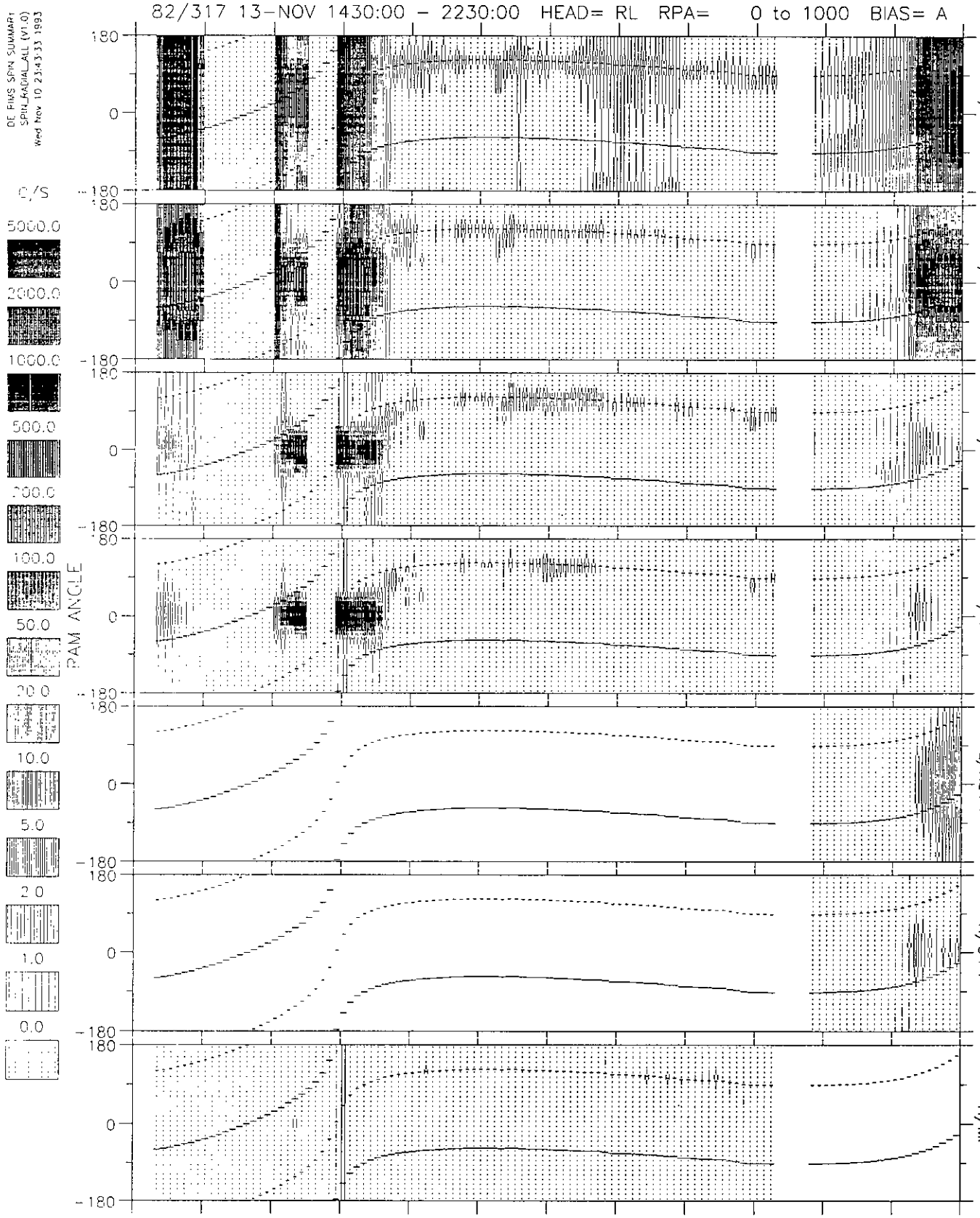

C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
180
0
-180
TIME 1840 1920 2000 0000 0000 2200 2240 2320 0000 0000 0000 HHMM
RE 2.8 1.6 1.5 0.0 0.0 4.3 4.0 4.0 4.4 0.0 0.0 RE
L 2.8 3.0 1.8 0.0 0.0 100.0 45.4 20.1 10.8 0.0 0.0
MLT 7.5 6.7 19.9 0.0 0.0 9.4 7.9 7.4 7.2 0.0 0.0 HRS
MLAT -3.19 44.12 ..... 0.00 0.00 .... 0.00 0.00 DEGS
INVLAT 53.4 54.6 41.1 0.0 0.0 85.7 81.5 77.1 72.2 0.0 0.0 DEGS



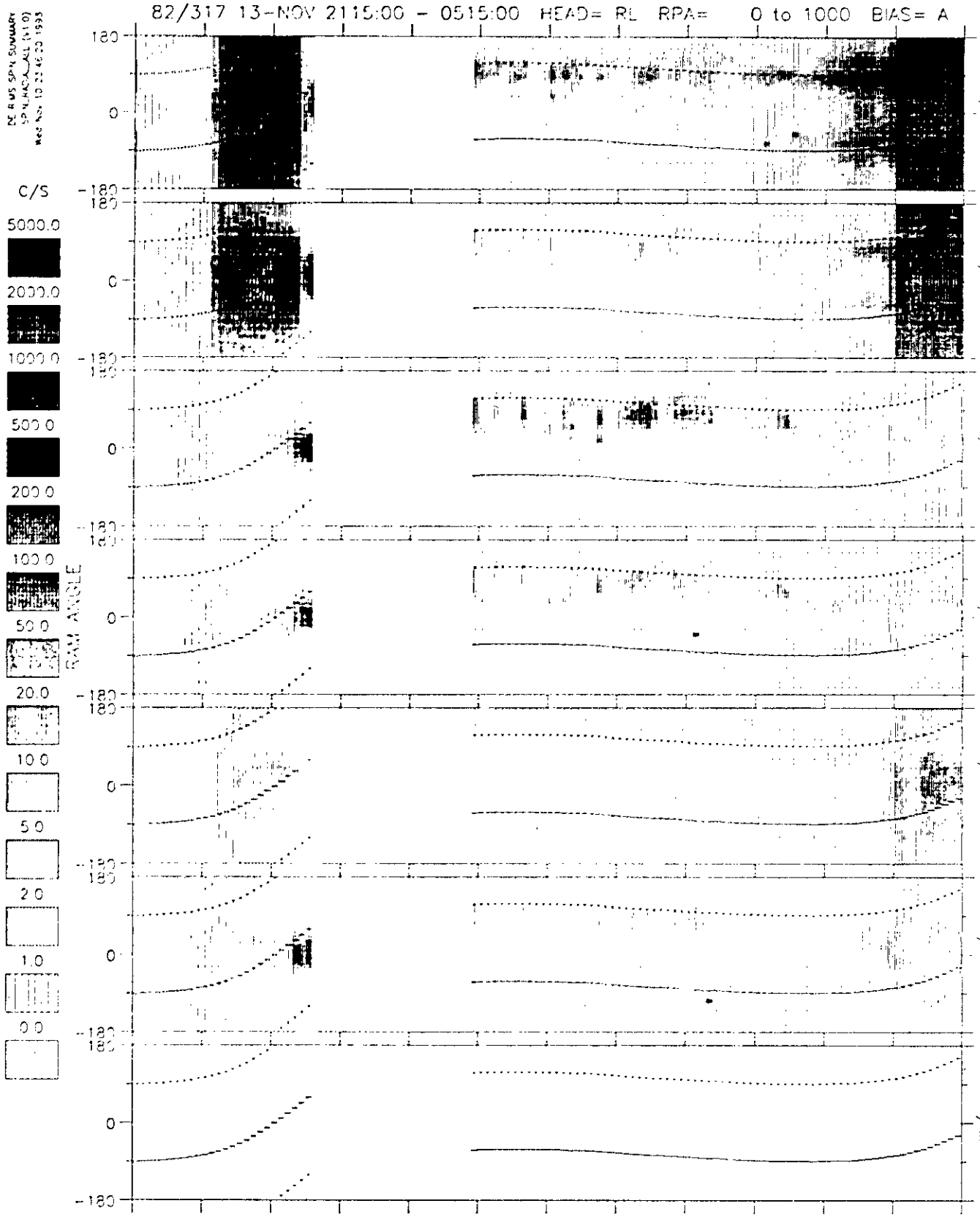
TIME	0155	0235	0315	0355	0435	0000	0000	0635	0715	0755	0835	HHMM
RE	2.1	1.1	2.3	3.4	4.1	0.0	0.0	4.5	4.2	3.5	2.4	RE
L	2.2	2.2	5.8	59.6	62.0	0.0	0.0	8.1	5.4	3.7	2.6	
MLT	7.5	18.9	20.3	23.0	4.3	0.0	0.0	7.0	7.4	7.6	7.9	HRS
MLAT	12.12	45.10	*****	*****	*****	0.00	0.00	*****	*****	-9.88	17.44	DEGS
INVLAT	47.2	47.7	65.6	82.6	82.7	0.0	0.0	69.4	64.6	58.8	52.1	DEGS



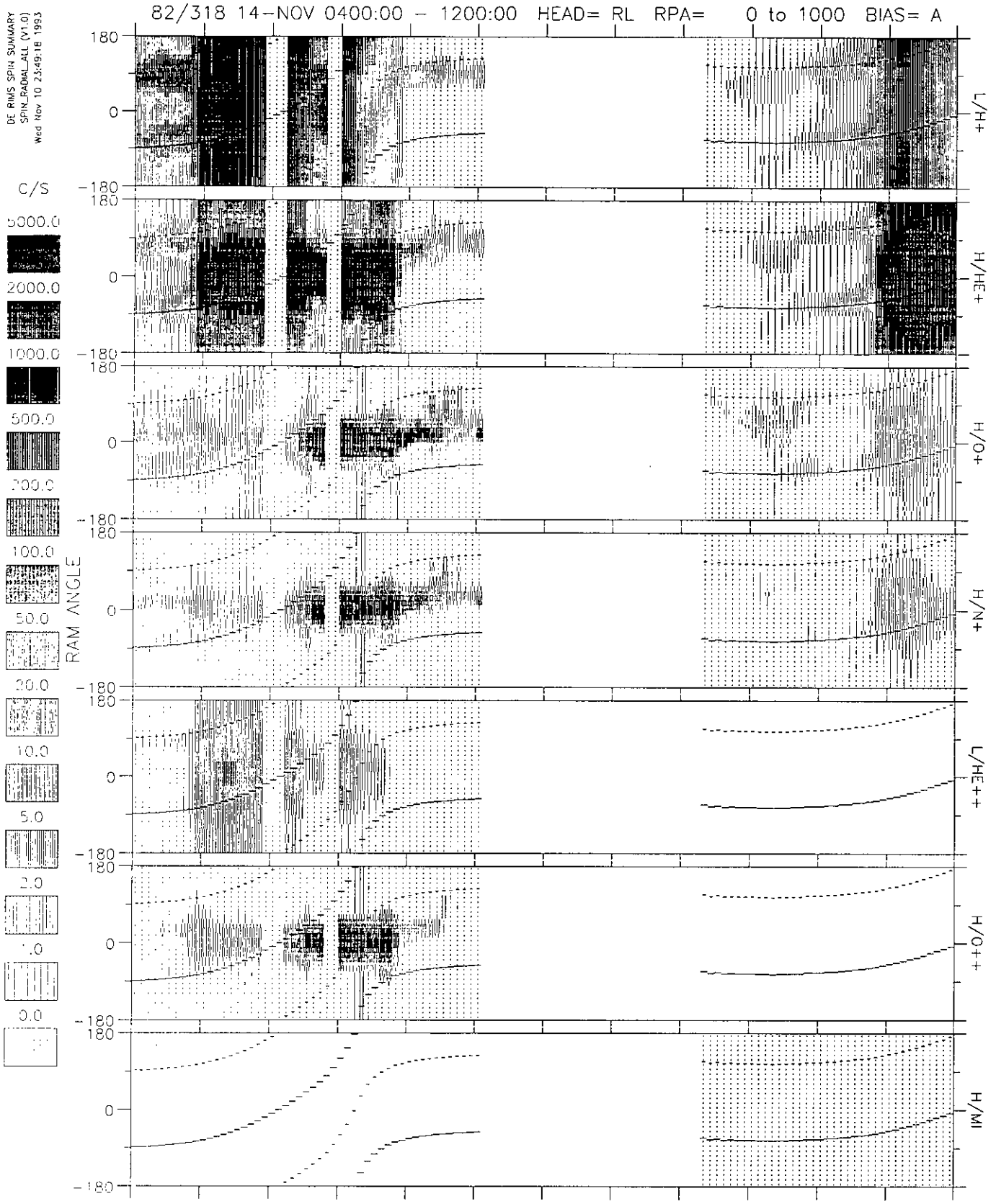
TIME	0810	0850	0000	0000	0000	1130	1210	1250	0000	0000	1450	HHMM
RE	3.1	2.1	0.0	0.0	0.0	4.2	4.5	4.7	0.0	0.0	3.4	RE
L	3.2	2.6	0.0	0.0	0.0	20.7	11.9	8.3	0.0	0.0	3.4	
MLT	7.7	8.1	0.0	0.0	0.0	7.6	7.8	7.9	0.0	0.0	7.7	HRS
MLAT	-1.58	31.12	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	-5.83	DEGS
INVLAT	56.2	52.0	0.0	0.0	0.0	77.3	73.1	69.7	0.0	0.0	57.3	DEGS



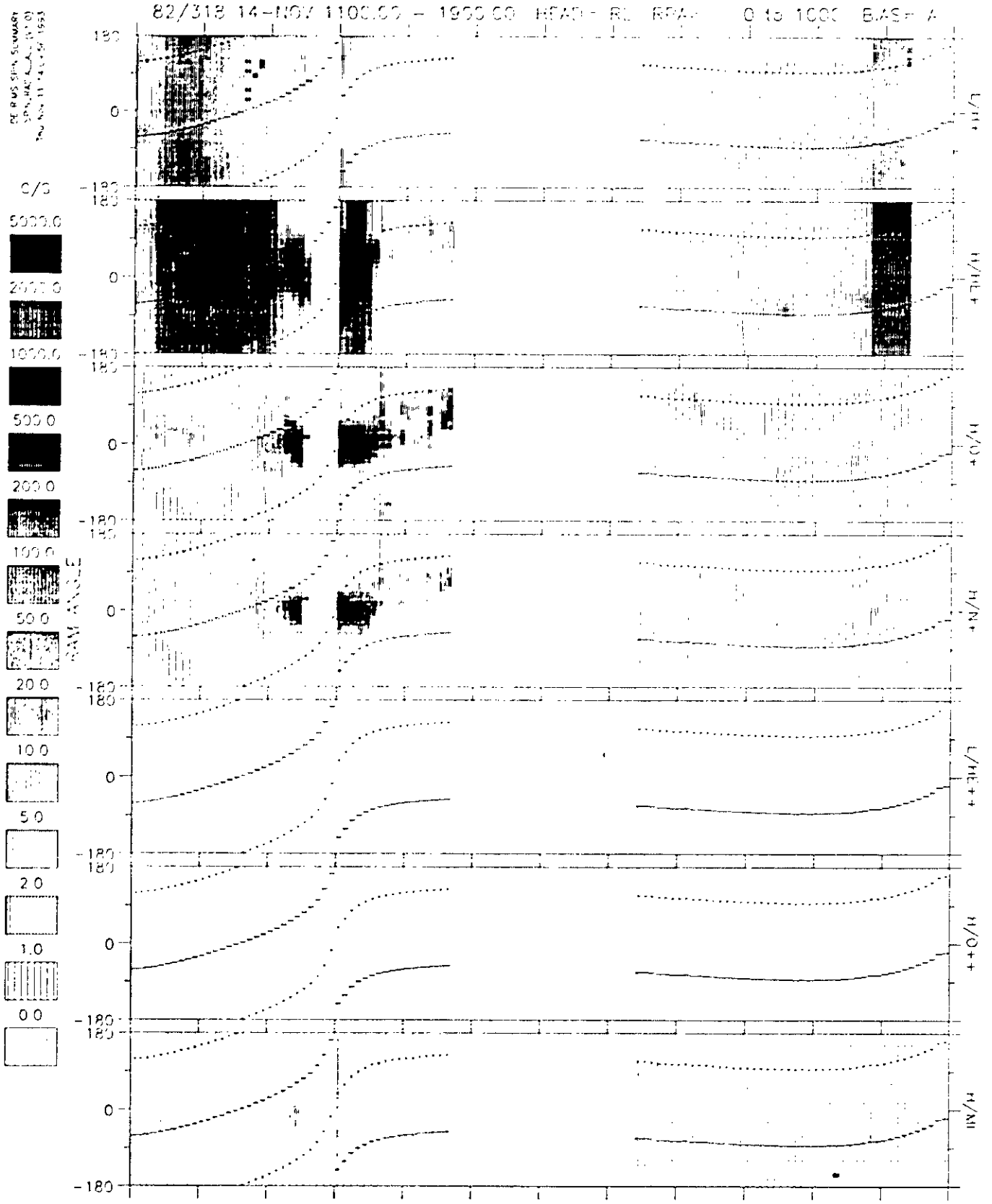
TIME	1510	1550	1630	1710	1750	1830	1910	1950	2030	2110	2150	HHMM
RE	2.9	1.6	1.4	2.7	3.7	4.3	4.6	4.6	4.4	4.0	3.2	RE
L	2.9	3.8	1.6	22.3	80.9	41.9	23.4	14.8	9.6	6.0	3.5	
MLT	7.5	6.8	19.3	17.3	12.4	9.7	8.8	8.3	7.9	7.6	7.3	HRS
MLAT	4.81	49.43	*****	*****	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	54.1	59.0	38.9	77.8	83.6	81.1	78.1	74.9	71.1	65.9	57.6	DEGS



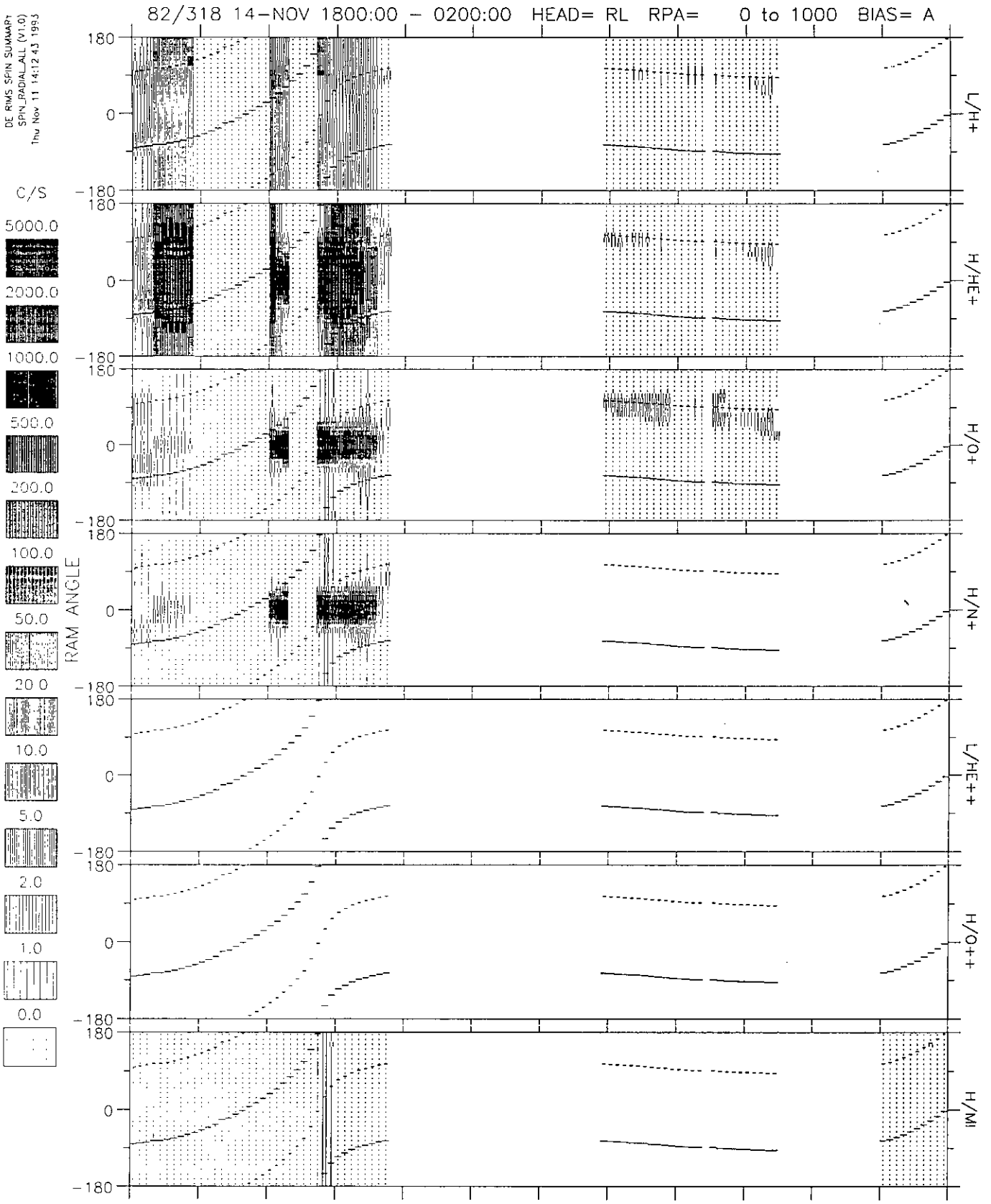
TIME	2155	2235	0000	0000	0035	0115	0155	0235	0315	0355	0435	HHMM
RE	3.0	1.8	0.0	0.0	3.6	4.9	4.6	4.7	4.5	4.1	3.3	RE
L	3.2	2.1	0.0	0.0	90.5	100.0	47.5	18.5	10.0	6.1	3.6	
MLT	7.3	7.1	0.0	0.0	20.9	4.4	6.0	6.4	6.7	7.0	7.3	HRS
MLAT	*****	22.90	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	55.2	40.8	0.0	0.0	84.0	86.7	81.7	76.5	71.6	66.2	58.4	DEGS



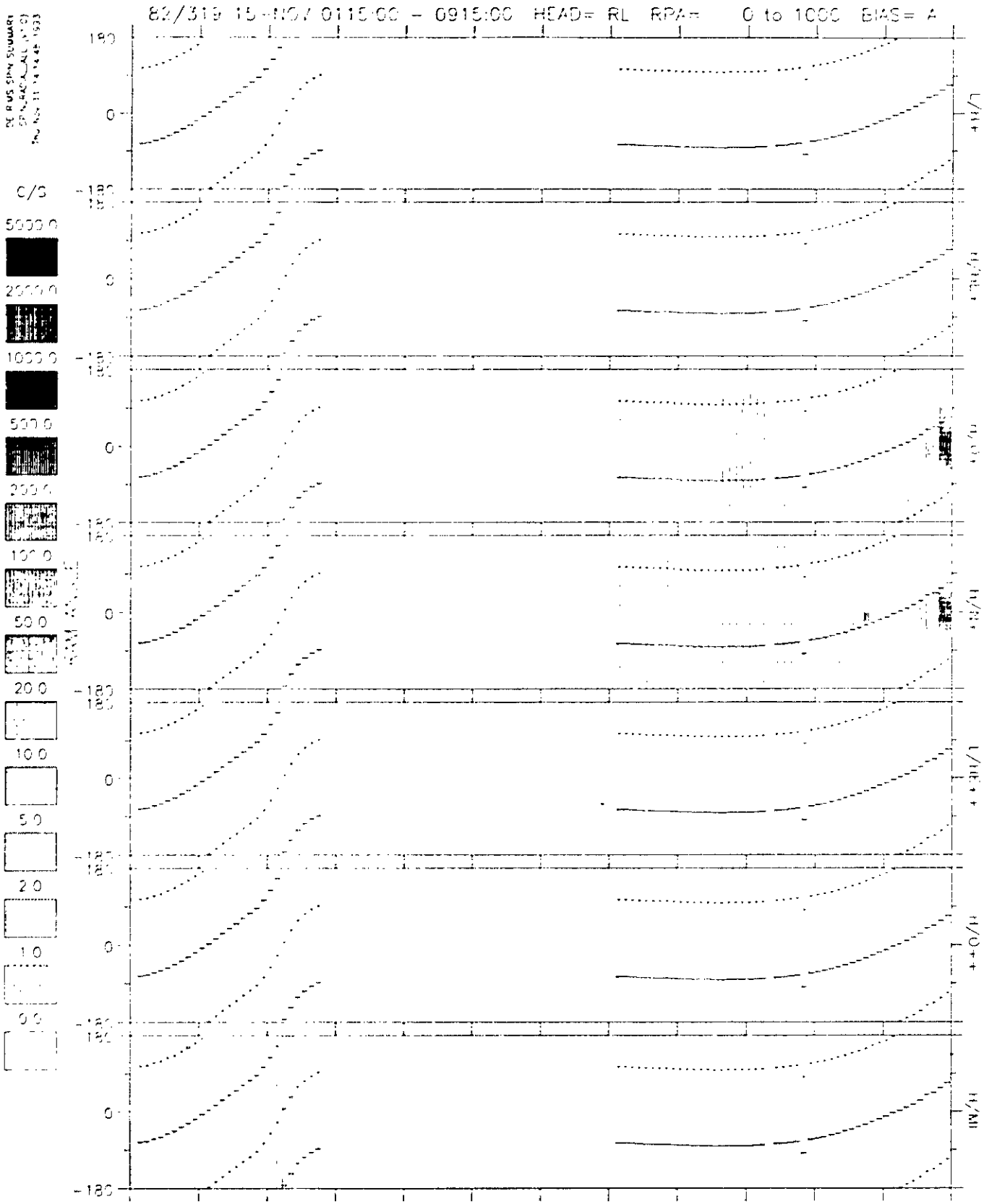
TIME	0440	0520	0600	0640	0720	0000	0000	0000	1000	1040	1120	HHMM
RE	3.2	2.0	1.1	2.4	3.4	0.0	0.0	0.0	4.5	4.1	3.4	RE
L	3.4	2.3	1.4	11.6	84.6	0.0	0.0	0.0	6.5	4.8	3.5	
MLT	7.3	7.9	19.2	21.1	2.5	0.0	0.0	0.0	7.5	7.6	7.6	HRS
MLAT	*****	22.96	25.44	*****	*****	0.00	0.00	0.00	*****	*****	-3.88	DEGS
INVLAT	57.2	48.7	31.1	73.0	83.8	0.0	0.0	0.0	66.9	62.7	57.7	DEGS

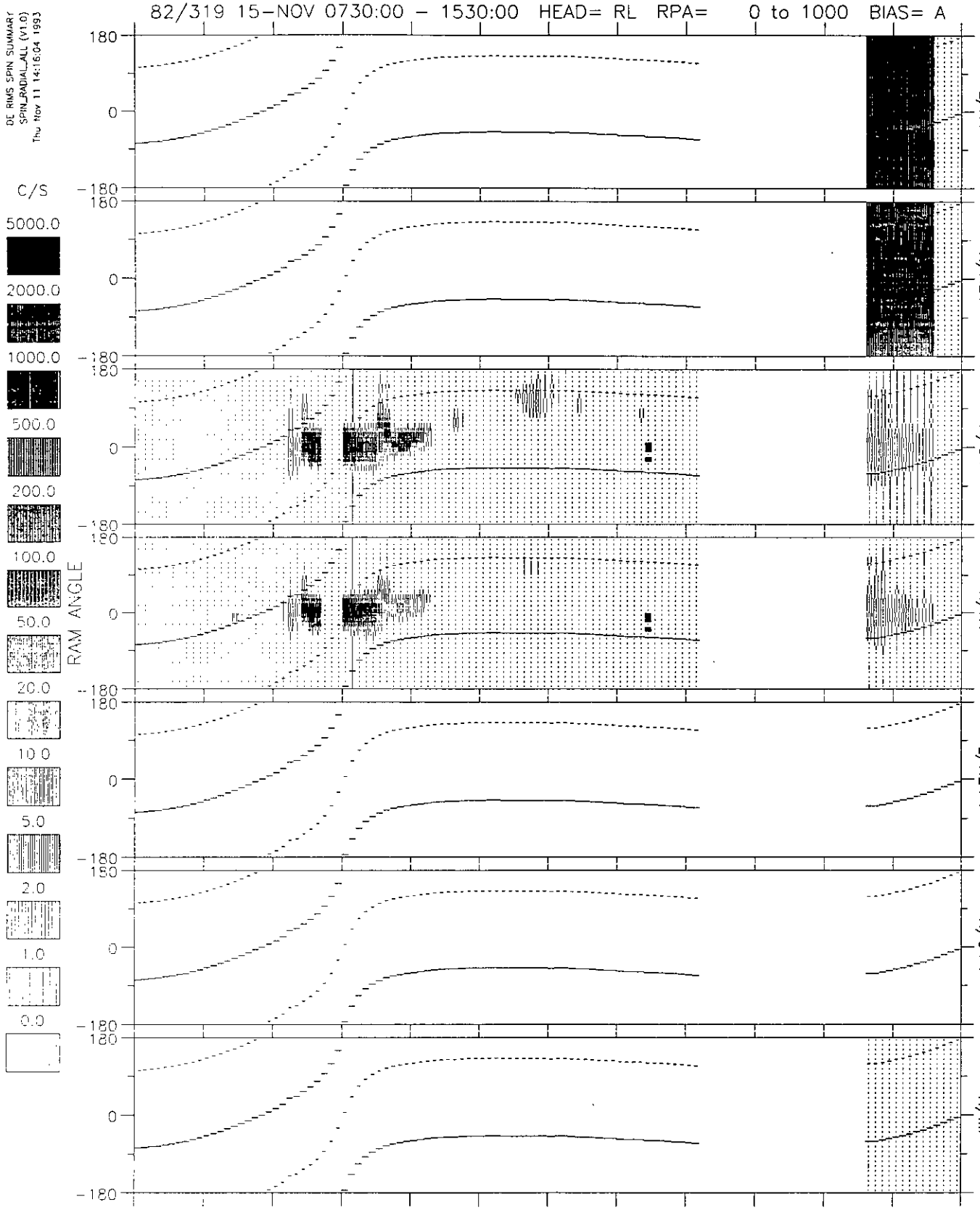


TIME	1140	1220	1300	1340	0000	0000	0000	1620	1700	1740	1820	HHMM
RE	2.9	1.7	1.4	2.7	0.0	0.0	0.0	4.6	4.5	4.0	3.2	RE
L	3.1	4.4	1.4	65.0	0.0	0.0	0.0	9.8	7.1	5.1	3.3	
MLT	7.6	7.5	19.5	17.8	0.0	0.0	0.0	8.2	8.0	7.8	7.5	HRS
MLAT	7.33	51.61	*****	*****	0.00	0.00	0.00	*****	*****	*****	*****	DEGS
INVLAT	55.1	61.7	33.3	82.9	0.0	0.0	0.0	71.3	68.0	63.7	56.9	DEGS

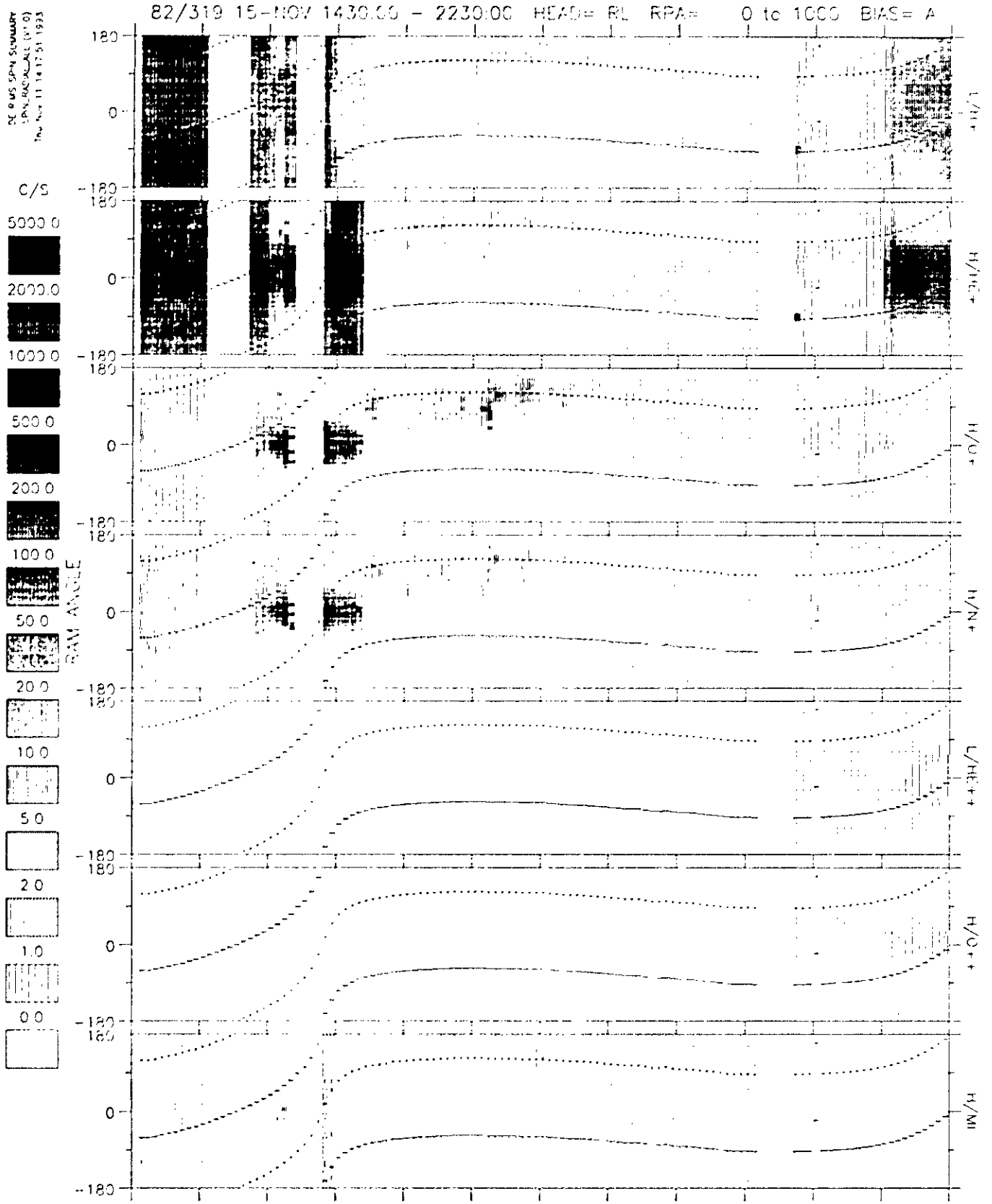


TIME	1840	1920	2000	0000	0000	0000	2240	2320	0000	0000	0120	HHMM
RE	2.7	1.4	1.7	0.0	0.0	0.0	4.6	4.6	4.4	0.0	3.0	RE
L	2.6	4.9	2.3	0.0	0.0	0.0	42.7	19.1	10.2	0.0	3.1	
MLT	7.3	6.2	18.9	0.0	0.0	0.0	7.7	7.2	7.1	0.0	7.1	HRS
MLAT	-0.20	57.21	*****	0.00	0.00	0.00	*****	*****	*****	0.00	*****	DEGS
INVLAT	52.0	63.1	48.3	0.0	0.0	0.0	81.2	76.8	71.8	0.0	55.6	DEGS

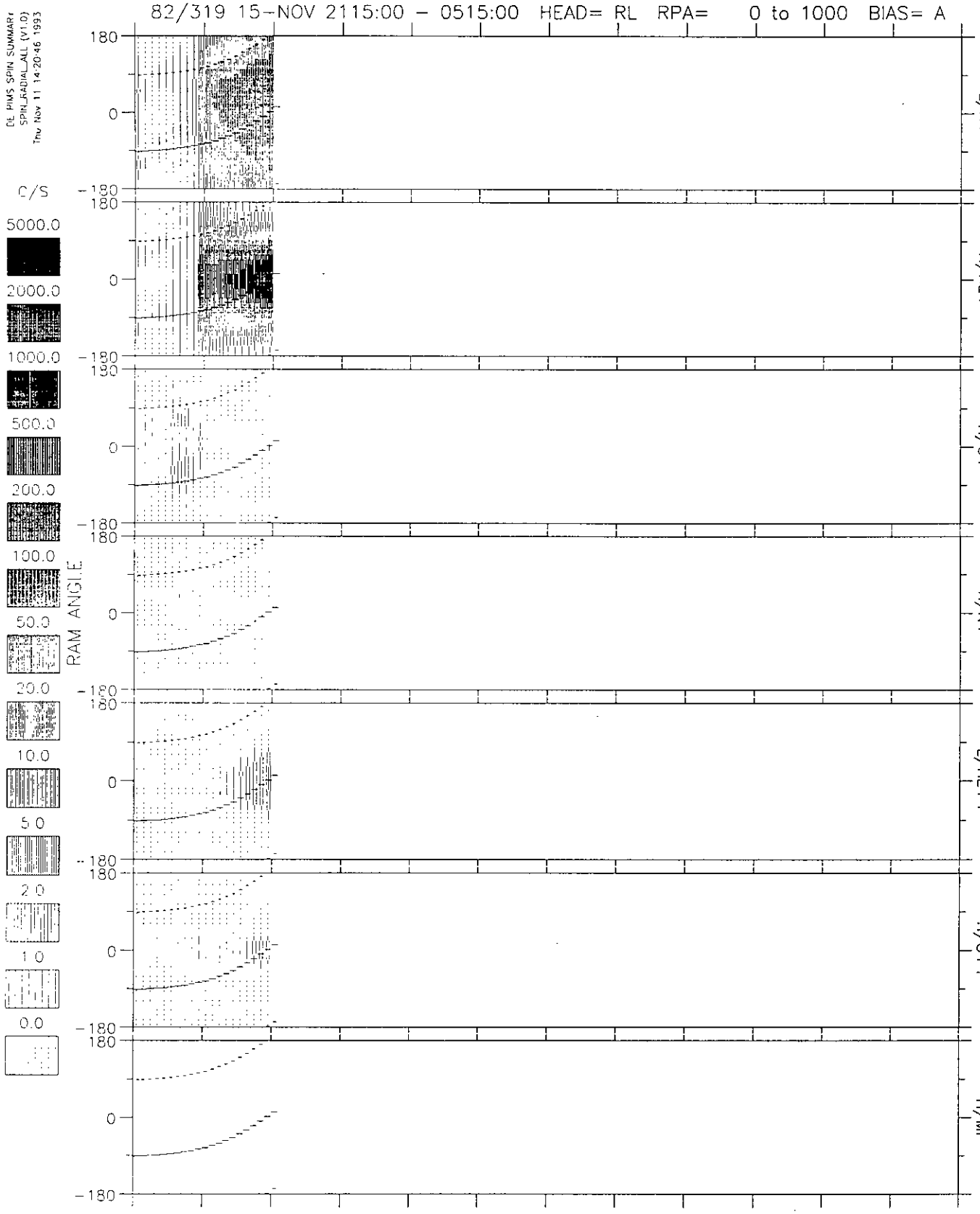

82/319 15-NOV 0115:00 - 0915:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
180
0
-180
TIME 0155 0235 0000 0000 0000 0000 0000 0635 0715 0755 0835 HHMM
RE 1.9 1.2 0.0 0.0 0.0 0.0 0.0 4.5 4.1 3.4 2.3 RE
L 2.1 1.4 0.0 0.0 0.0 0.0 0.0 7.7 5.2 3.5 2.6
MLT 7.4 19.1 0.0 0.0 0.0 0.0 0.0 6.9 7.2 7.5 7.9 HRS
MLAT 19.23 22.50 0.00 0.00 0.00 0.00 0.00 ***** ***** -7.61 23.64 DEGS
INVLAT 46.9 31.4 0.0 0.0 0.0 0.0 0.0 68.9 64.0 57.9 51.6 DEGS



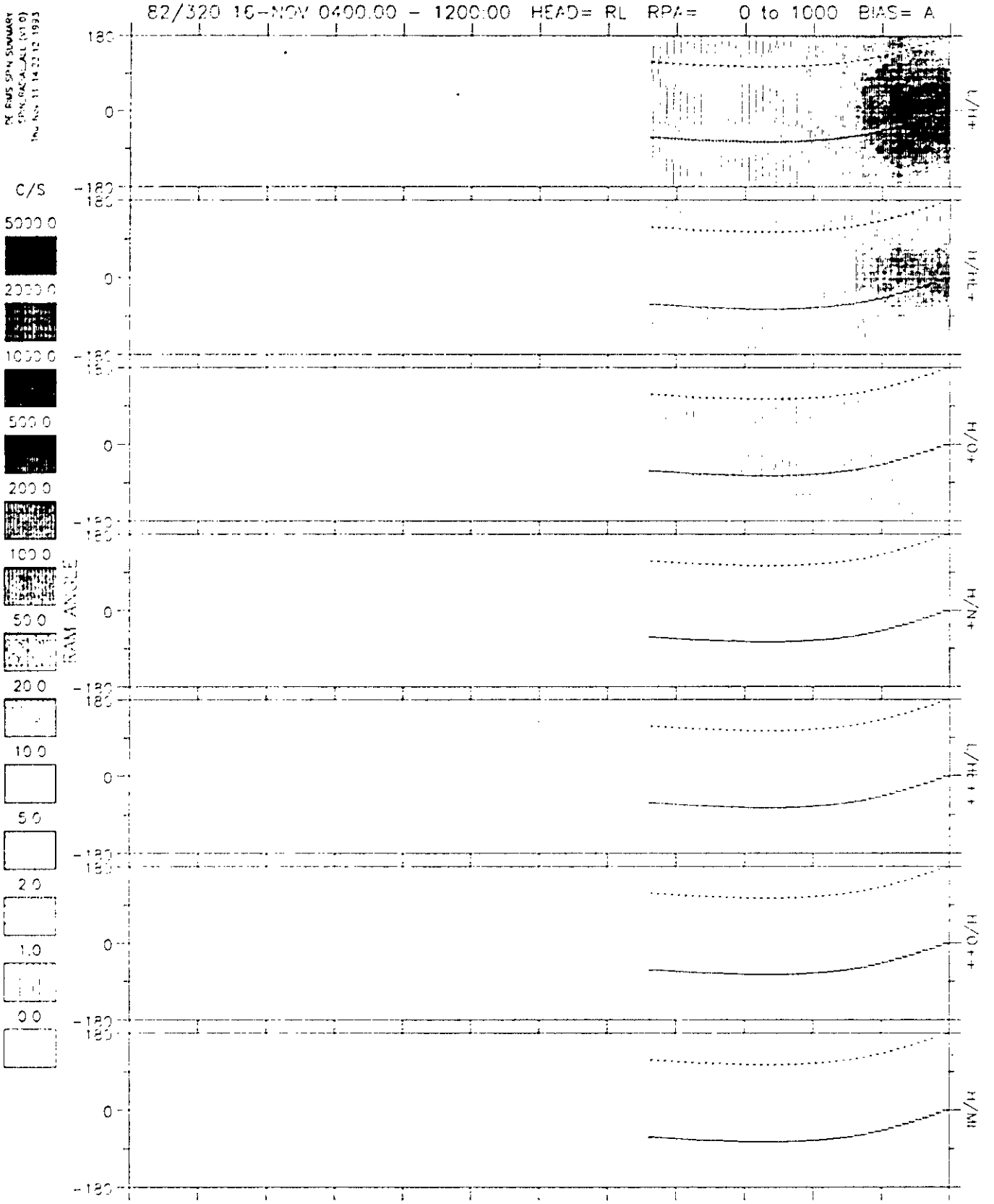
TIME	0810	0850	0930	1010	1050	1130	1210	1250	0000	0000	1450	HHMM
RE	3.0	1.8	1.3	2.6	3.6	4.2	4.6	4.7	0.0	0.0	3.3	RE
L	3.1	3.0	1.3	71.8	67.7	19.6	11.5	8.1	0.0	0.0	3.3	
MLT	7.6	8.1	19.7	21.0	6.8	7.5	7.7	7.8	0.0	0.0	7.5	HRS
MLAT	1.23	44.09	*****	*****	*****	*****	*****	*****	0.00	0.00	-3.96	DEGS
INVLAT	55.3	55.0	28.2	83.2	83.0	76.9	72.9	69.5	0.0	0.0	56.5	DEGS



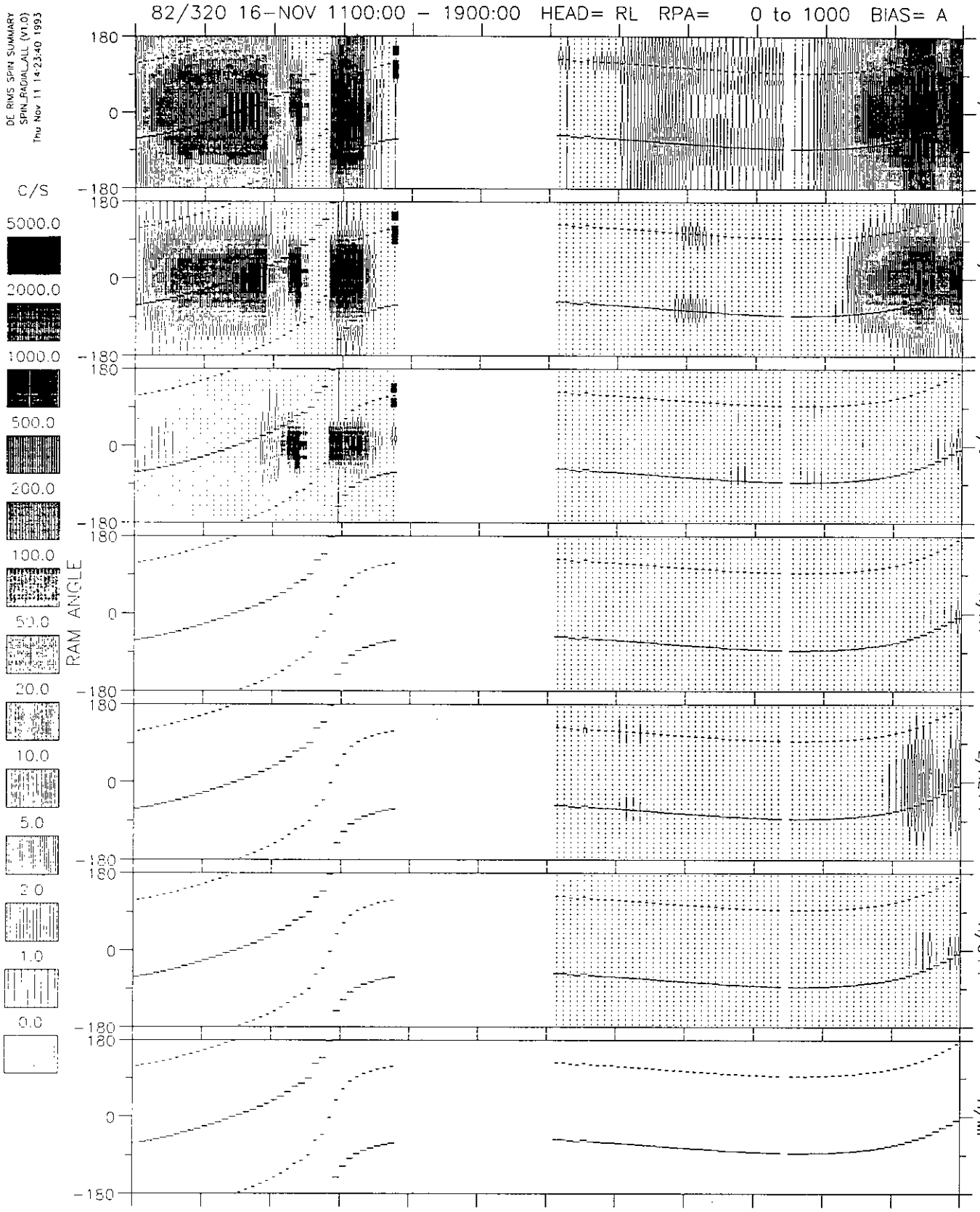
TIME	1510	1550	1630	1710	1750	1830	1910	1950	2030	2110	2150	HHMM
RE	2.7	1.4	1.6	2.9	3.8	4.3	4.6	4.6	4.4	3.9	3.0	RE
L	2.8	6.2	2.3	28.9	80.0	40.8	23.0	14.4	9.2	5.7	3.2	
MLT	7.4	6.2	18.9	16.8	11.9	9.5	8.6	8.1	7.7	7.4	7.2	HRS
MLAT	7.74	61.23	*****	*****	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	53.2	66.3	49.0	79.3	83.6	81.0	78.0	74.8	70.8	65.2	56.2	DEGS



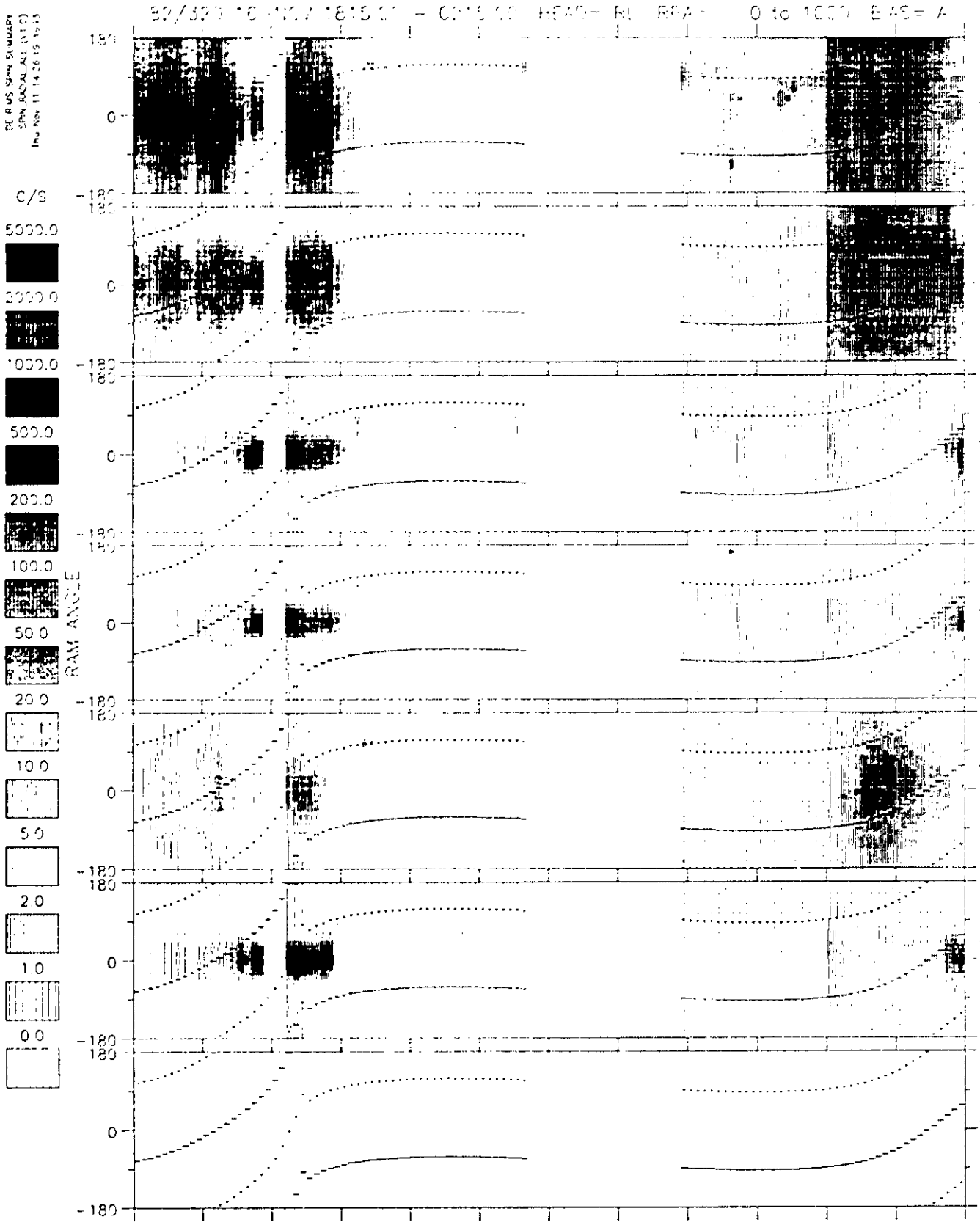
TIME	2155	2235	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	2.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	3.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	7.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	*****	27.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	54.7	47.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



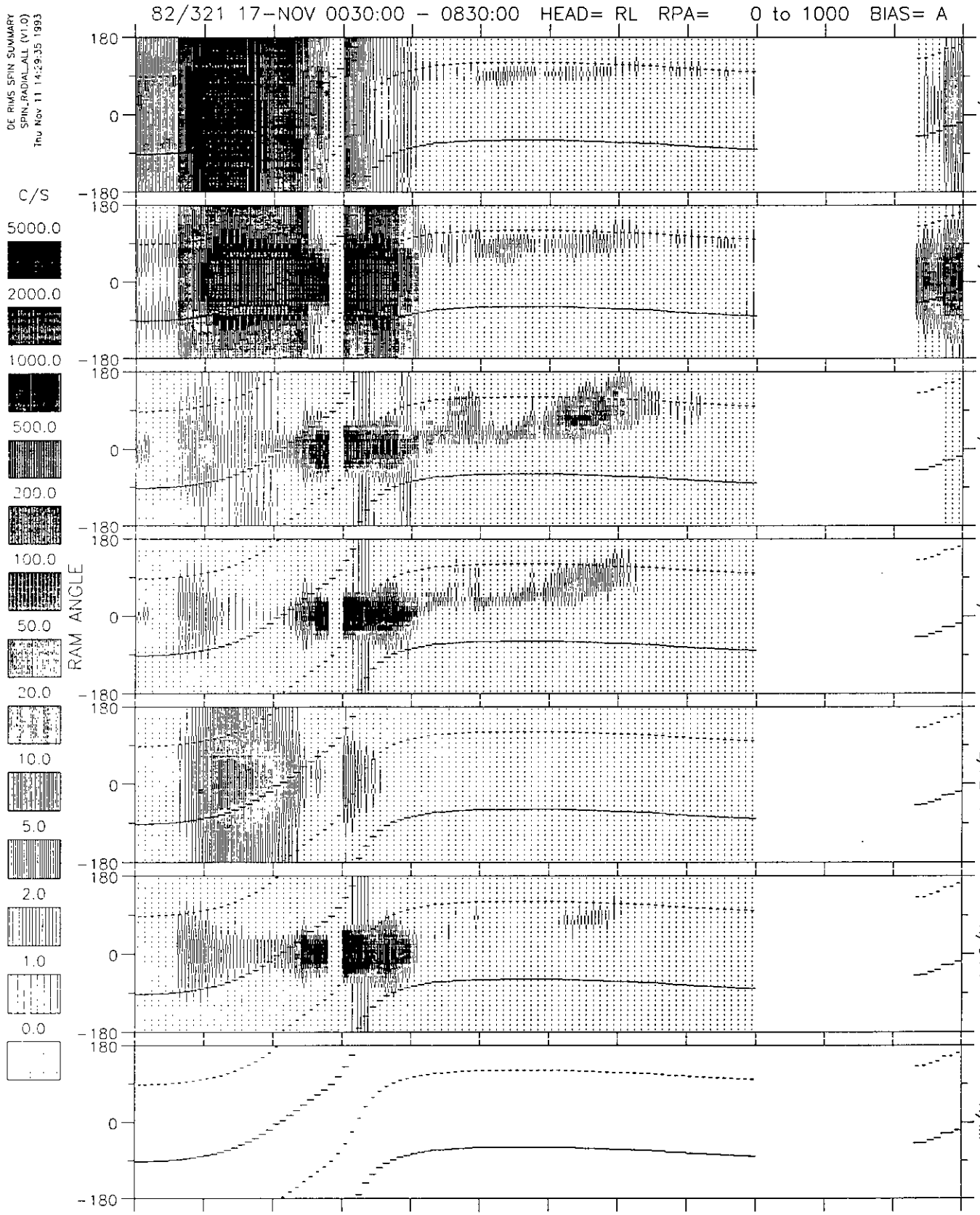
TIME	0000	0000	0000	0000	0000	0000	0000	0920	1000	1040	1120	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.5	4.1	3.3	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	6.3	4.6	3.4	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	7.3	7.5	7.5	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-1.79	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.3	66.5	62.2	57.0	DEGS



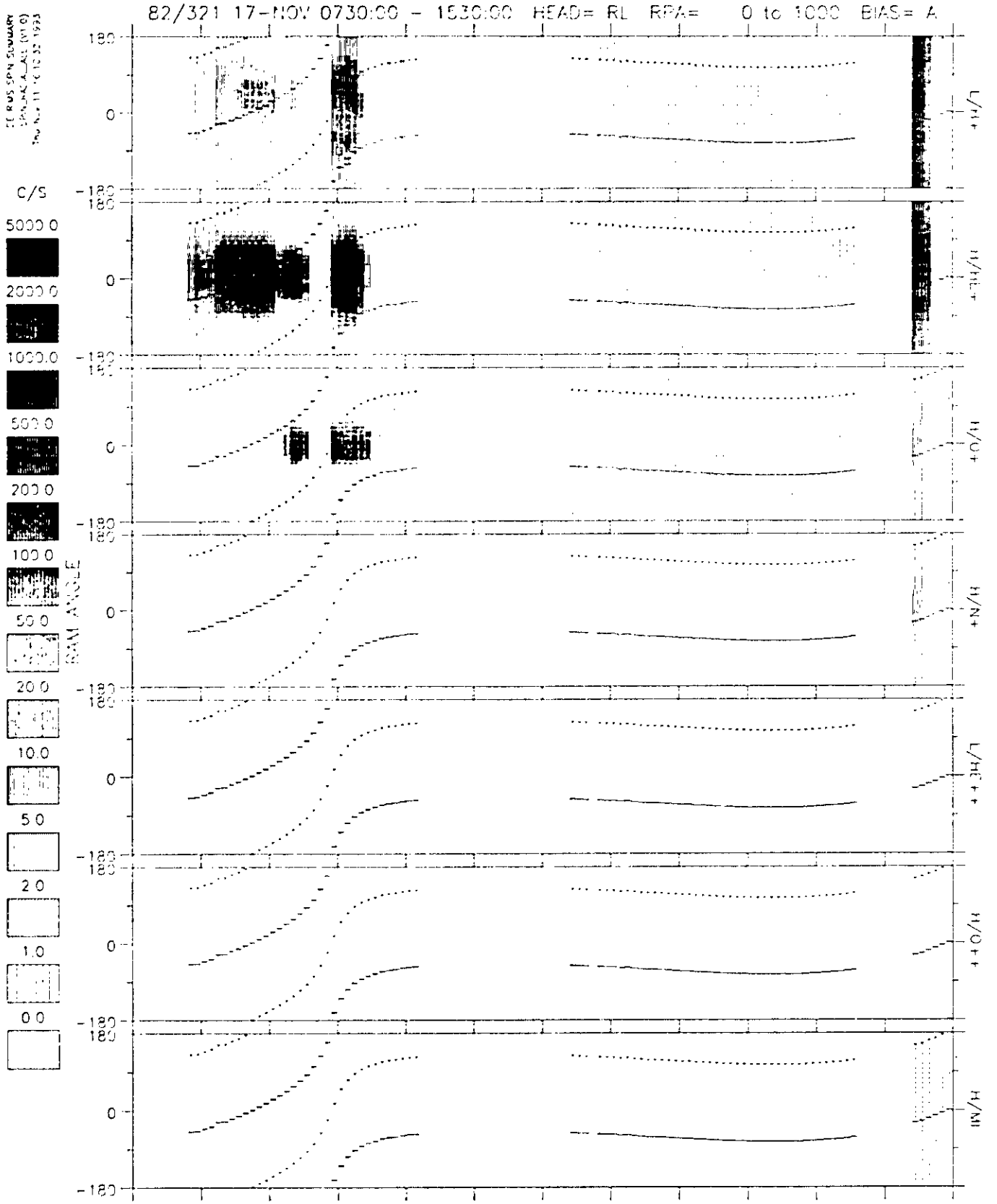
TIME	1140	1220	1300	0000	0000	0000	1540	1620	1700	1740	1820	HHMM
RE	2.8	1.5	1.5	0.0	0.0	0.0	4.6	4.6	4.4	3.9	3.1	RE
L	3.0	7.3	2.1	0.0	0.0	0.0	13.5	9.6	7.0	4.9	3.2	
MLT	7.5	7.2	19.3	0.0	0.0	0.0	8.3	8.1	7.8	7.6	7.3	HRS
MLAT	10.41	63.03	*****	0.00	0.00	0.00	*****	*****	*****	*****	*****	DEGS
INVLAT	54.5	68.3	46.5	0.0	0.0	0.0	74.2	71.2	67.8	63.1	55.8	DEGS



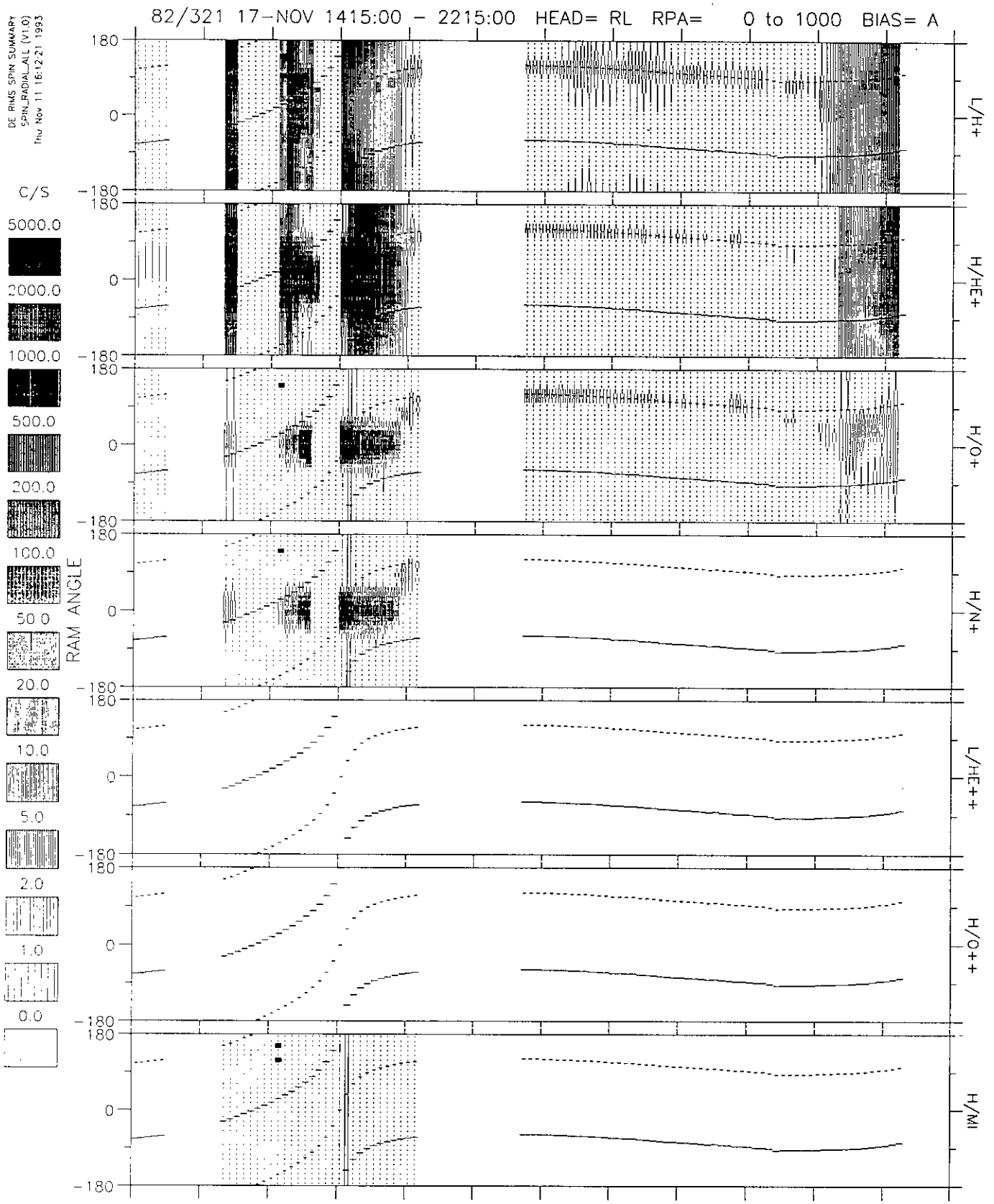
TIME	1855	1935	2015	2055	2135	0000	0000	2335	0015	0055	0135	HHMM
RE	2.0	1.1	2.4	3.4	4.1	0.0	0.0	4.5	4.1	3.4	2.4	RE
L	2.2	1.4	6.2	53.2	100.0	0.0	0.0	14.1	7.7	4.3	2.3	
MLT	6.9	19.6	18.3	17.0	11.4	0.0	0.0	7.0	6.9	6.9	7.1	HRS
MLAT	18.72	36.02	*****	*****	*****	0.00	0.00	*****	*****	*****	0.46	DEGS
INVLAT	47.7	33.0	66.2	82.1	87.2	0.0	0.0	74.6	68.9	61.0	49.2	DEGS



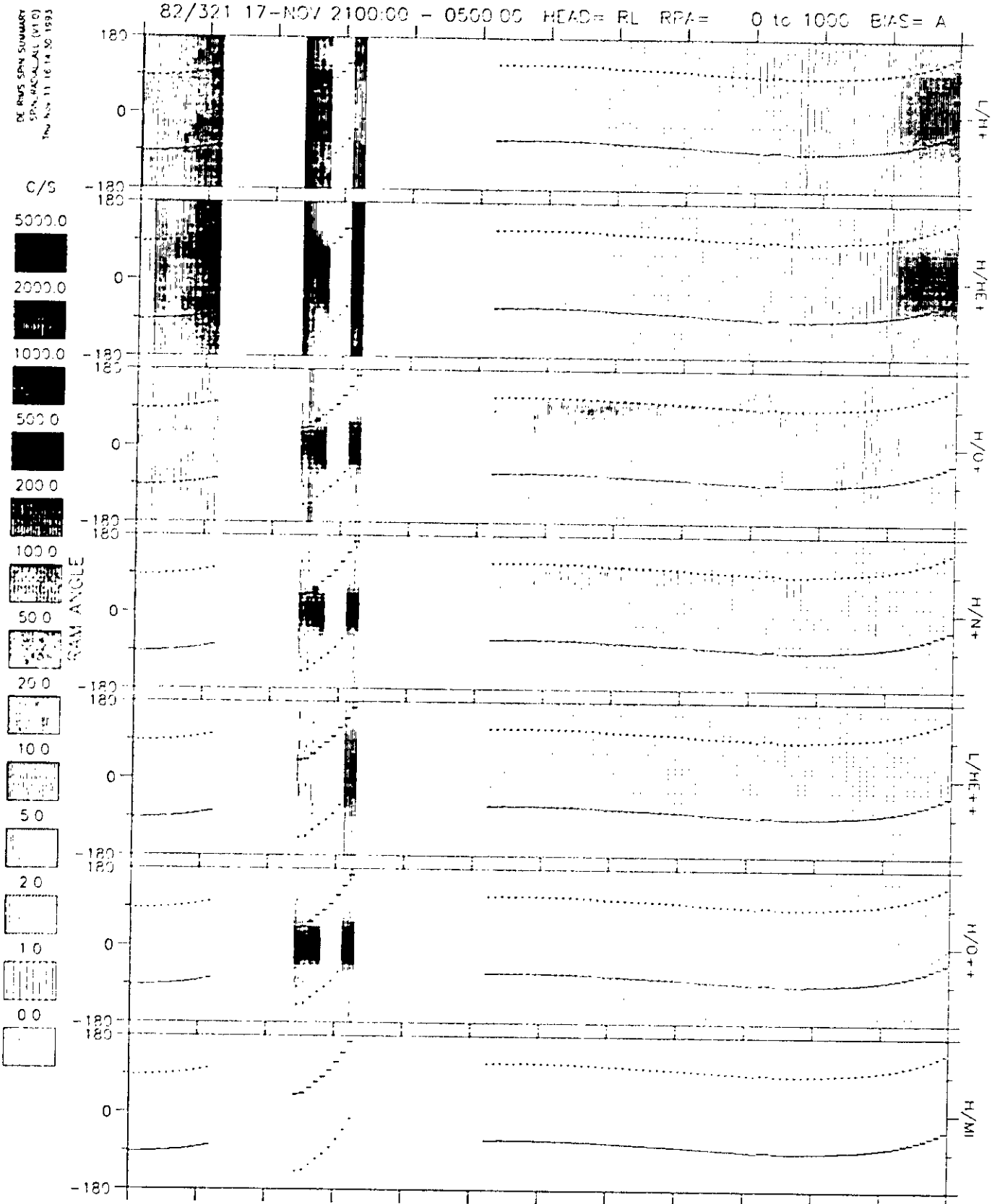
TIME	0110	0150	0230	0310	0350	0430	0510	0550	0000	0000	0000	HHMM
RE	3.1	1.9	1.2	2.5	3.5	4.2	4.6	4.7	0.0	0.0	0.0	RE
L	3.4	2.1	1.4	7.8	70.3	56.8	22.6	12.4	0.0	0.0	0.0	
MLT	6.9	7.3	18.9	20.1	23.2	4.2	5.8	6.4	0.0	0.0	0.0	HRS
MLAT	*****	19.39	21.20	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	57.1	46.7	30.9	69.0	83.2	82.4	77.9	73.5	0.0	0.0	0.0	DEGS



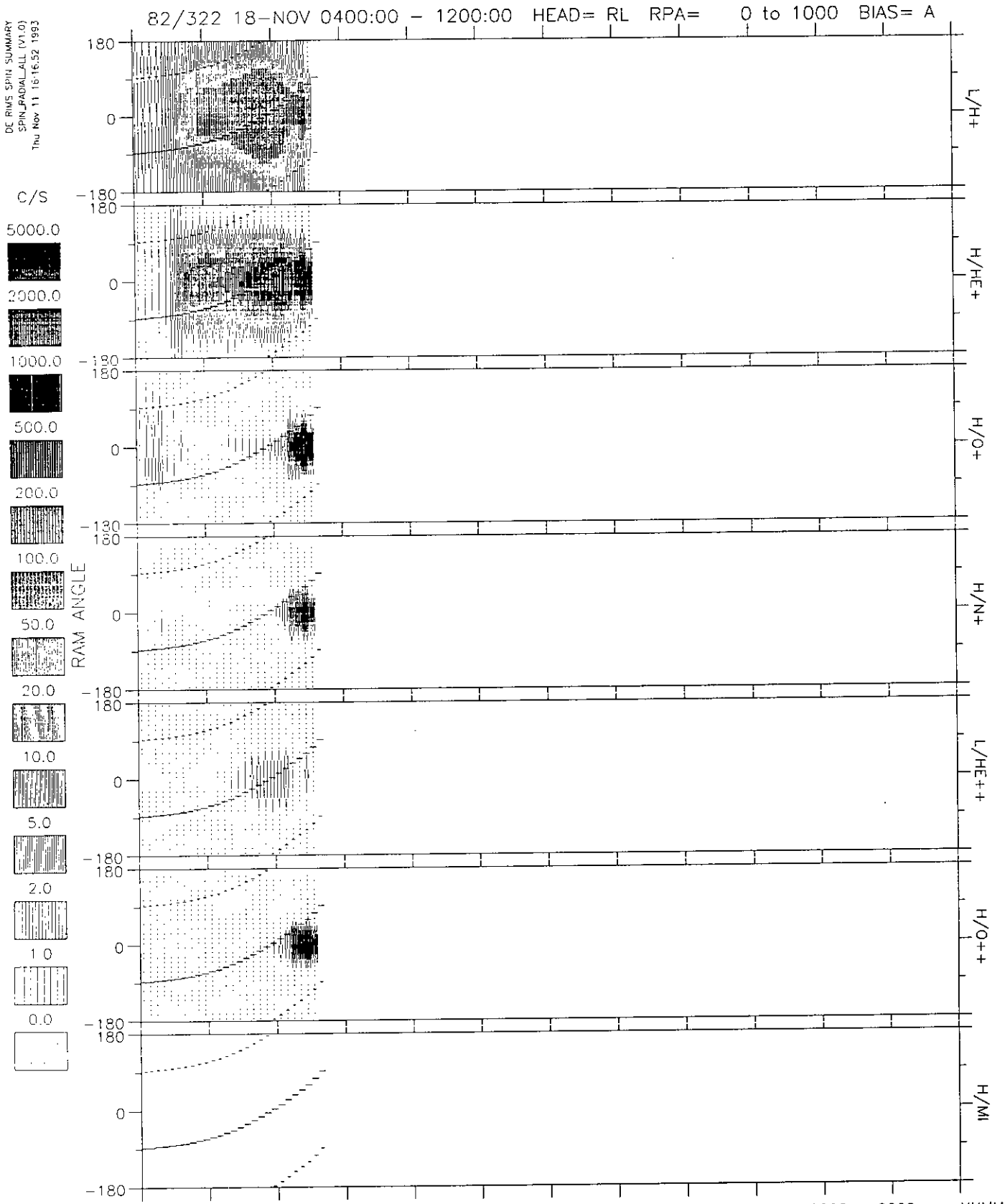
TIME	0810	0850	0930	1010	0000	0000	1210	1250	1330	1410	0000	HHMM
RE	2.9	1.6	1.5	2.8	0.0	0.0	4.6	4.6	4.4	3.9	0.0	RE
L	2.9	4.0	1.8	-0.0	0.0	0.0	11.6	8.0	5.9	4.4	0.0	
MLT	7.5	8.2	19.7	21.3	0.0	0.0	7.6	7.6	7.6	7.5	0.0	HRS
MLAT	4.48	54.81	*****	*****	0.00	0.00	*****	*****	*****	*****	0.00	DEGS
INVLAT	54.3	59.9	41.7	-0.0	0.0	0.0	73.0	69.2	65.7	61.5	0.0	DEGS



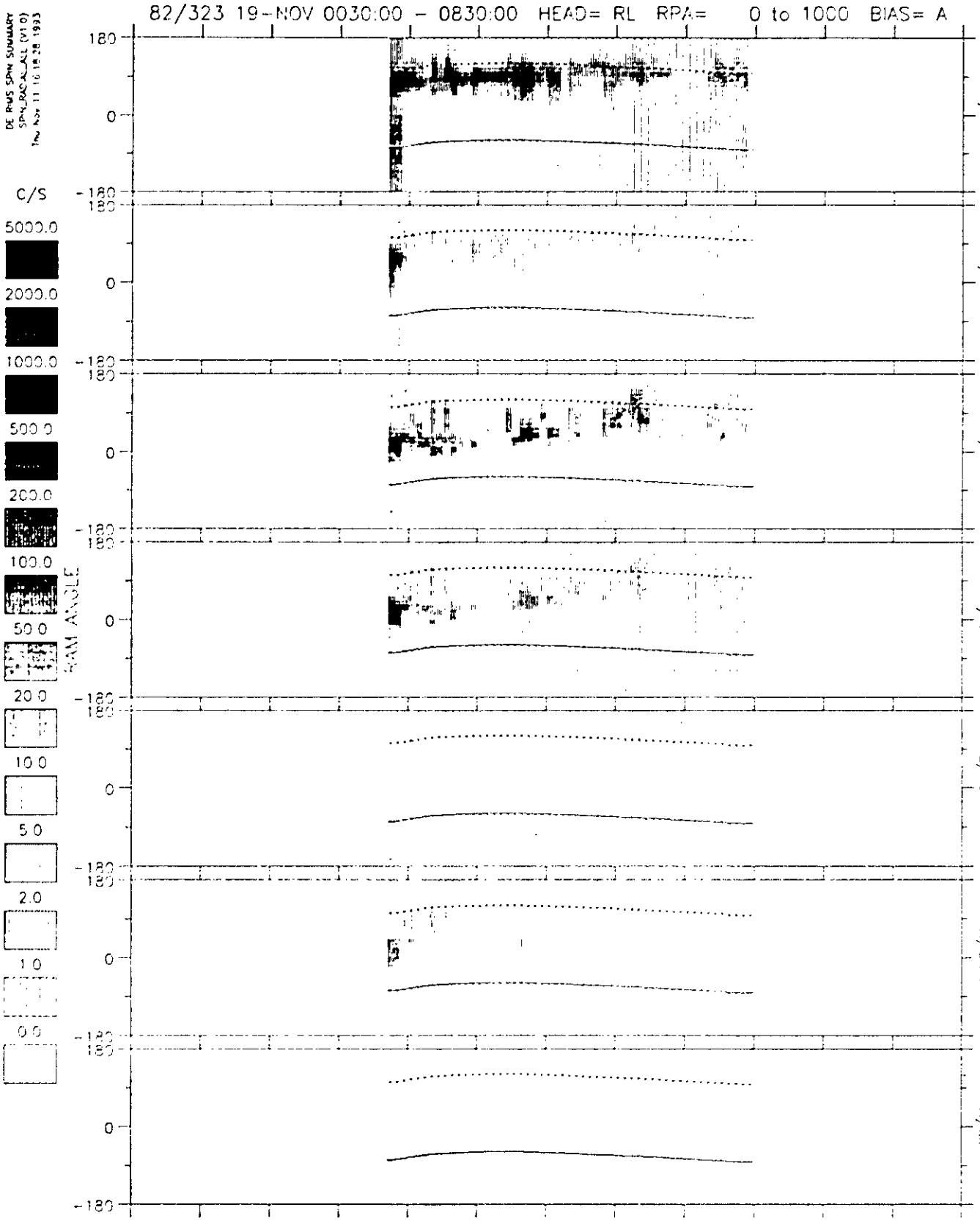
TIME	0000	1535	1615	1655	0000	1815	1855	1935	2015	2055	2135	HHMM
RE	0.0	1.8	1.3	2.6	0.0	4.2	4.6	4.7	4.5	4.0	3.3	RE
L	0.0	3.0	1.3	15.6	0.0	51.4	27.5	16.8	10.6	6.6	3.8	
MLT	0.0	6.7	19.2	17.4	0.0	9.8	8.7	8.1	7.6	7.3	7.1	HRS
MLAT	0.00	40.21	-3.98	*****	0.00	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	54.5	29.1	75.3	0.0	82.0	79.0	75.9	72.1	67.0	59.0	DEGS

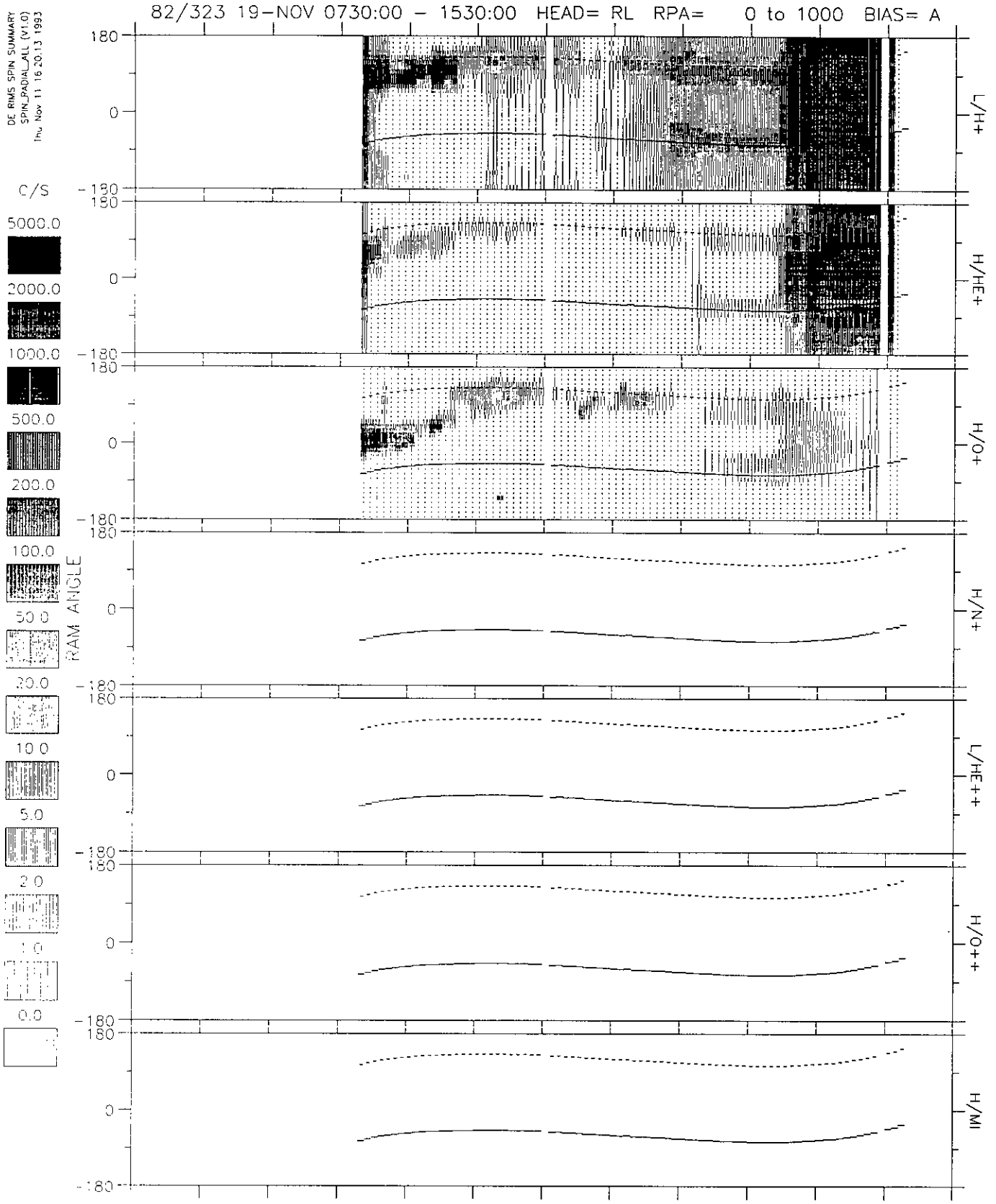


TIME	2140	0000	2300	0000	0000	0100	0140	0220	0300	0340	0420	HHMM
RE	3.1	0.0	1.2	0.0	0.0	4.2	4.5	4.7	4.5	4.1	3.4	RE
L	3.5	0.0	1.7	0.0	0.0	100.0	57.9	21.4	11.1	6.5	3.9	
MLT	7.1	0.0	19.0	0.0	0.0	2.7	5.5	6.0	6.4	6.6	7.0	HRS
MLAT	•••••	0.00	32.27	0.00	0.00	•••••	•••••	•••••	•••••	•••••	•••••	DEGS
INVLAT	57.6	0.0	39.6	0.0	0.0	87.3	82.4	77.5	72.5	66.9	59.5	DEGS

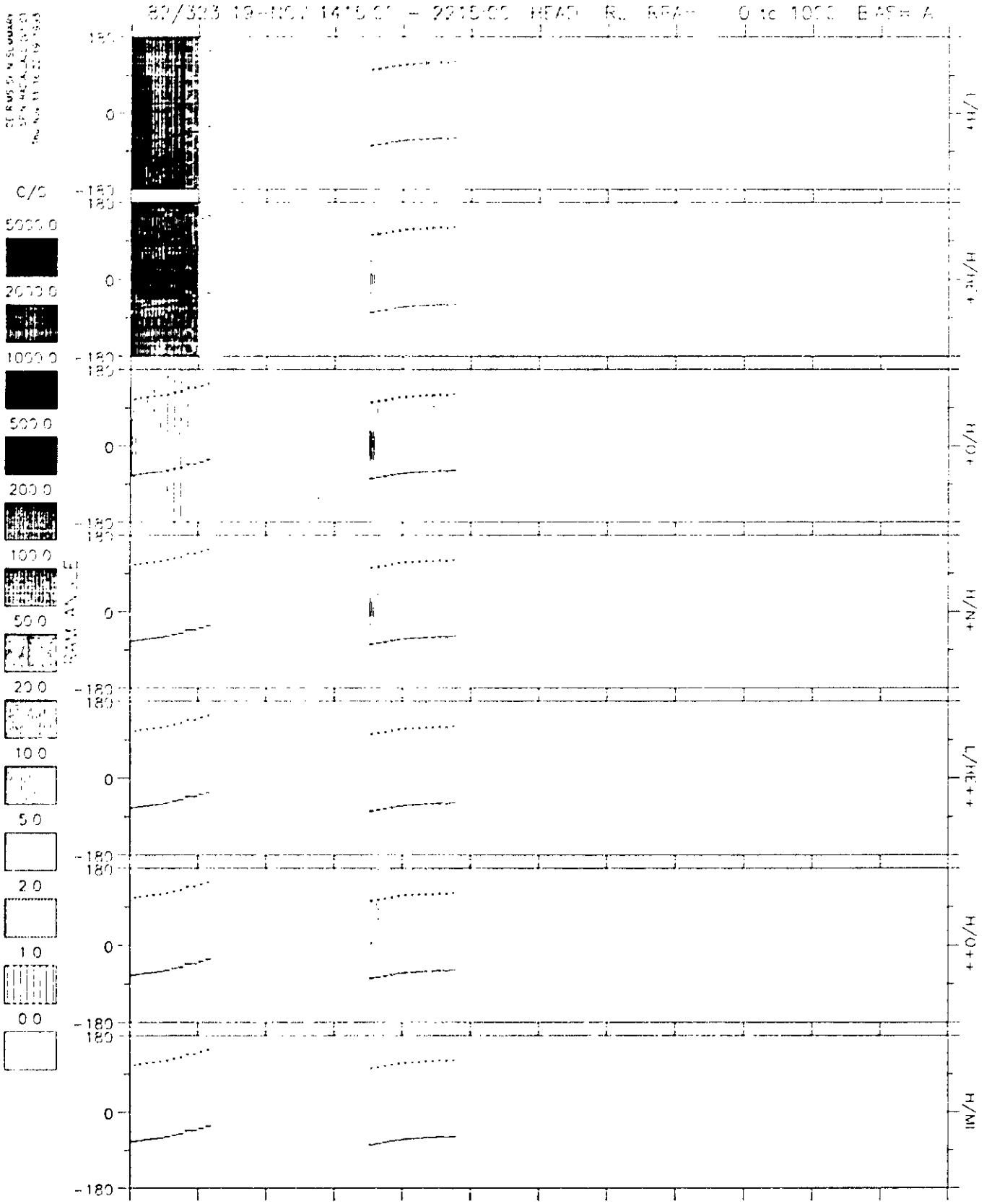


TIME	0440	0520	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	2.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	3.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	7.2	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	-6.77	40.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	54.8	52.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

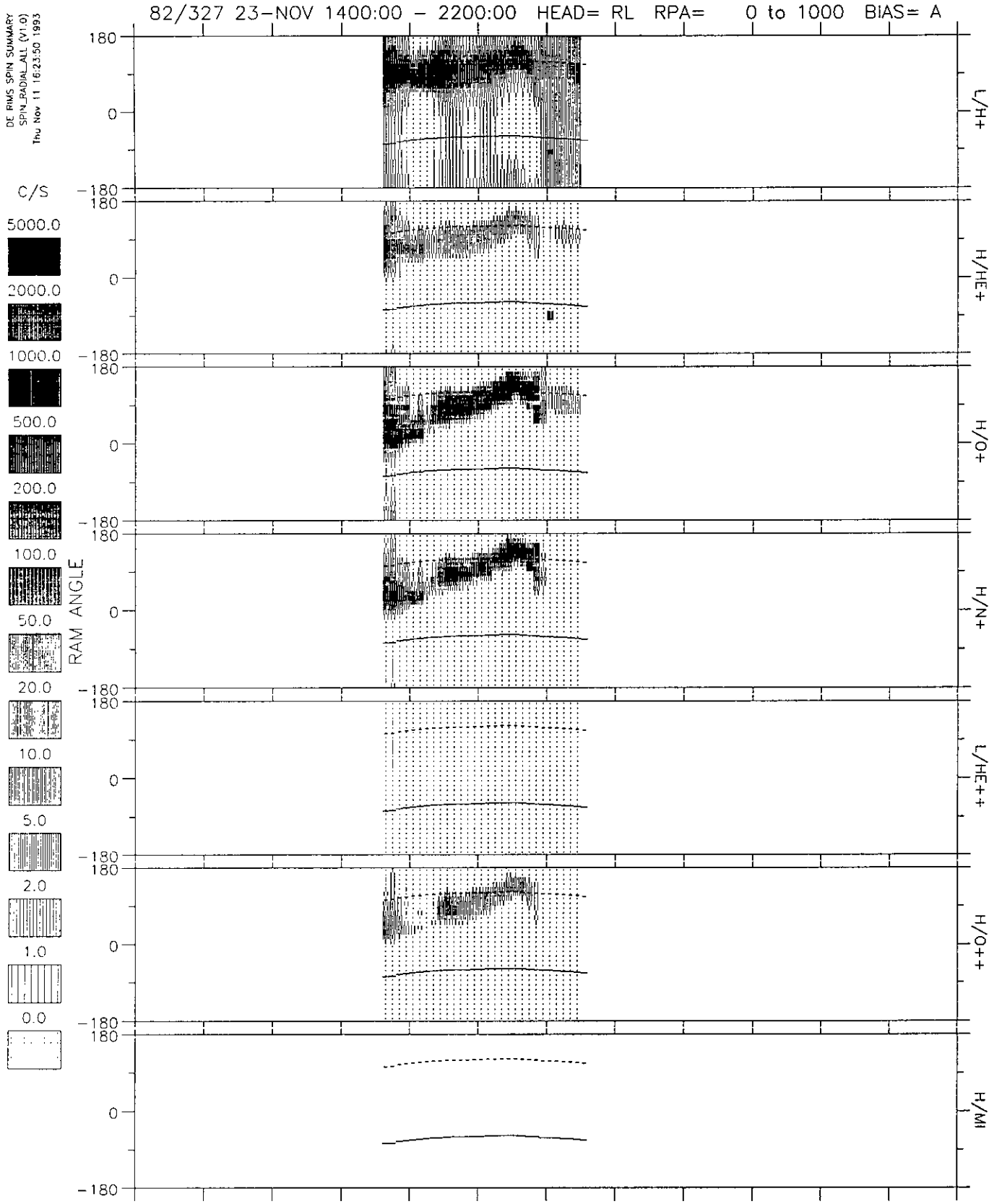

82/323 19-NOV 0030:00 - 0830:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RIMS SPIN SUMMARY
SPIN_RAC_ALL (V1.0)
Tue Nov 11 10:18:28 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/AR
TIME
RE
L
MLT
MLAT
INVLAT
HHMM
HRS
DEGS



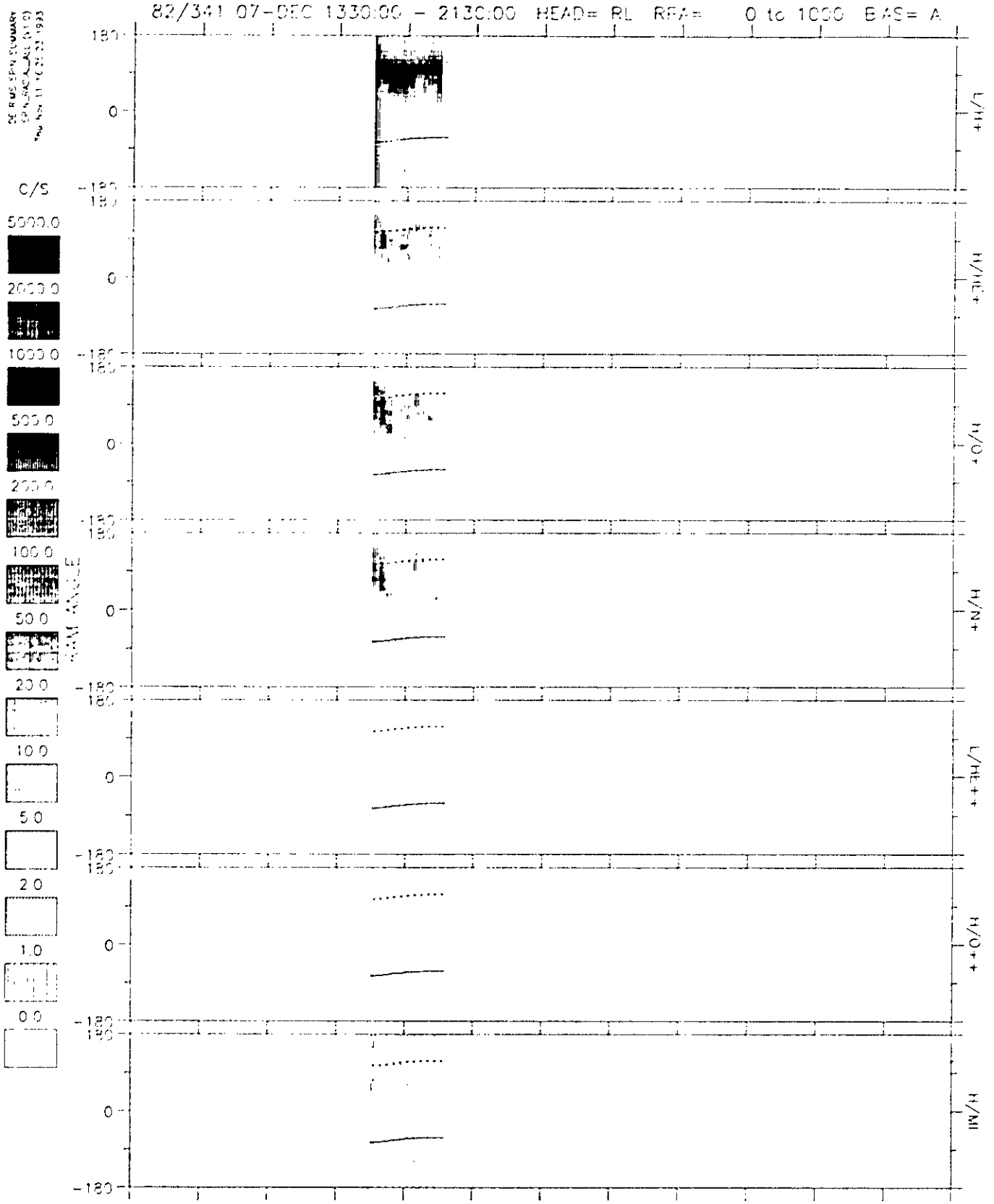
TIME	0000	0000	0000	1010	1050	0000	1210	1250	1330	1410	1450	HHMM
RE	0.0	0.0	0.0	2.9	3.8	0.0	4.6	4.6	4.4	3.8	3.0	RE
L	0.0	0.0	0.0	-0.0	47.9	0.0	10.9	7.8	5.8	4.2	3.0	
MLT	0.0	0.0	0.0	21.9	6.9	0.0	7.5	7.5	7.5	7.4	7.2	HRS
MLAT	0.00	0.00	0.00	*****	*****	0.00	*****	*****	*****	*****	0.35	DEGS
INVLAT	0.0	0.0	0.0	-0.0	81.7	0.0	72.4	69.0	65.4	60.9	54.7	DEGS

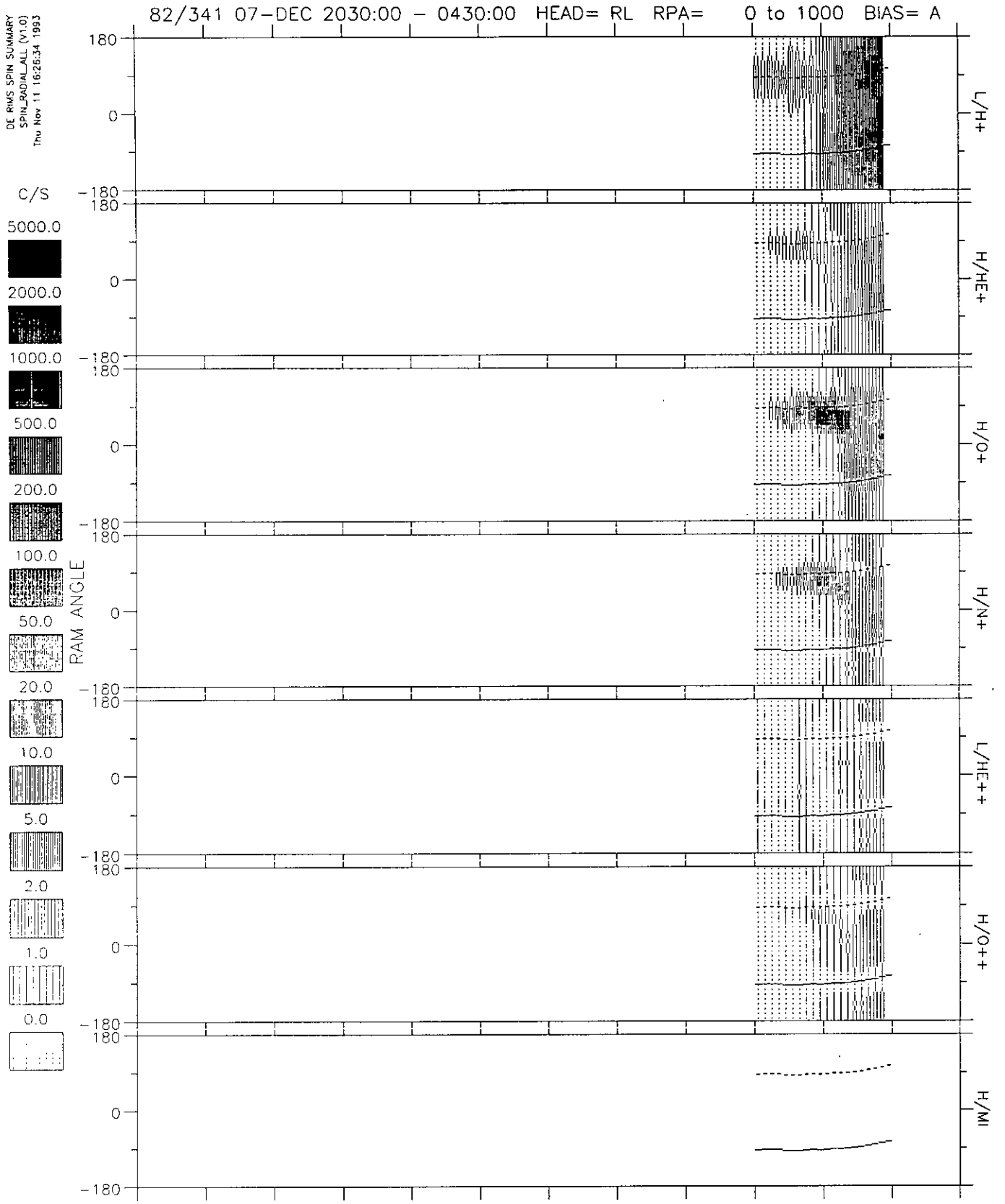


TIME	1455	0000	0000	1655	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	2.9	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	2.9	0.0	0.0	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	7.2	0.0	0.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	3.47	0.00	0.00	*****	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	53.8	0.0	0.0	77.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS

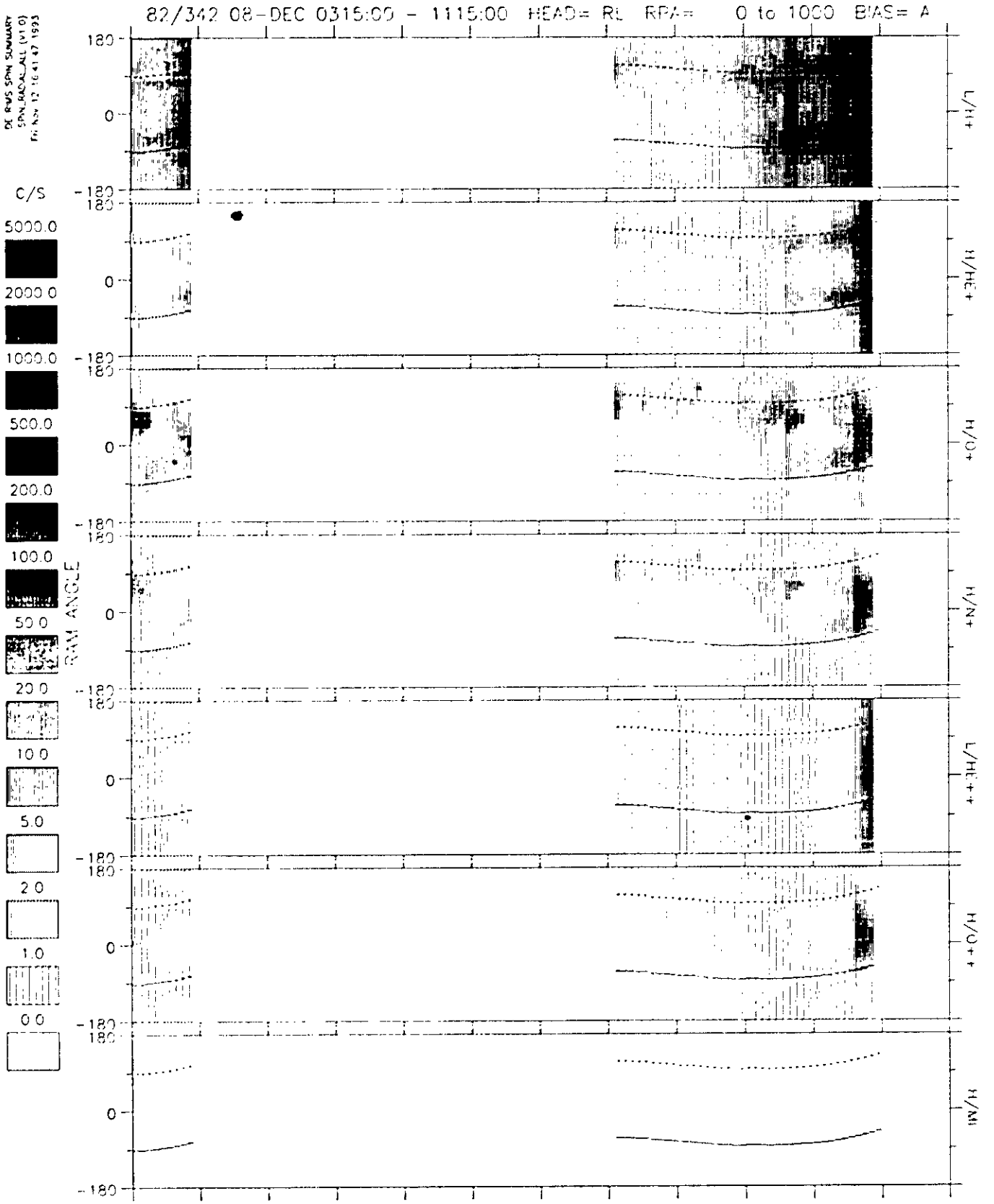


TIME	0000	0000	0000	1640	1720	1800	0000	0000	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	2.7	3.6	4.2	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	14.5	81.5	61.7	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	17.1	13.4	9.8	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	74.8	83.6	82.7	0.0	0.0	0.0	0.0	0.0	DEGS

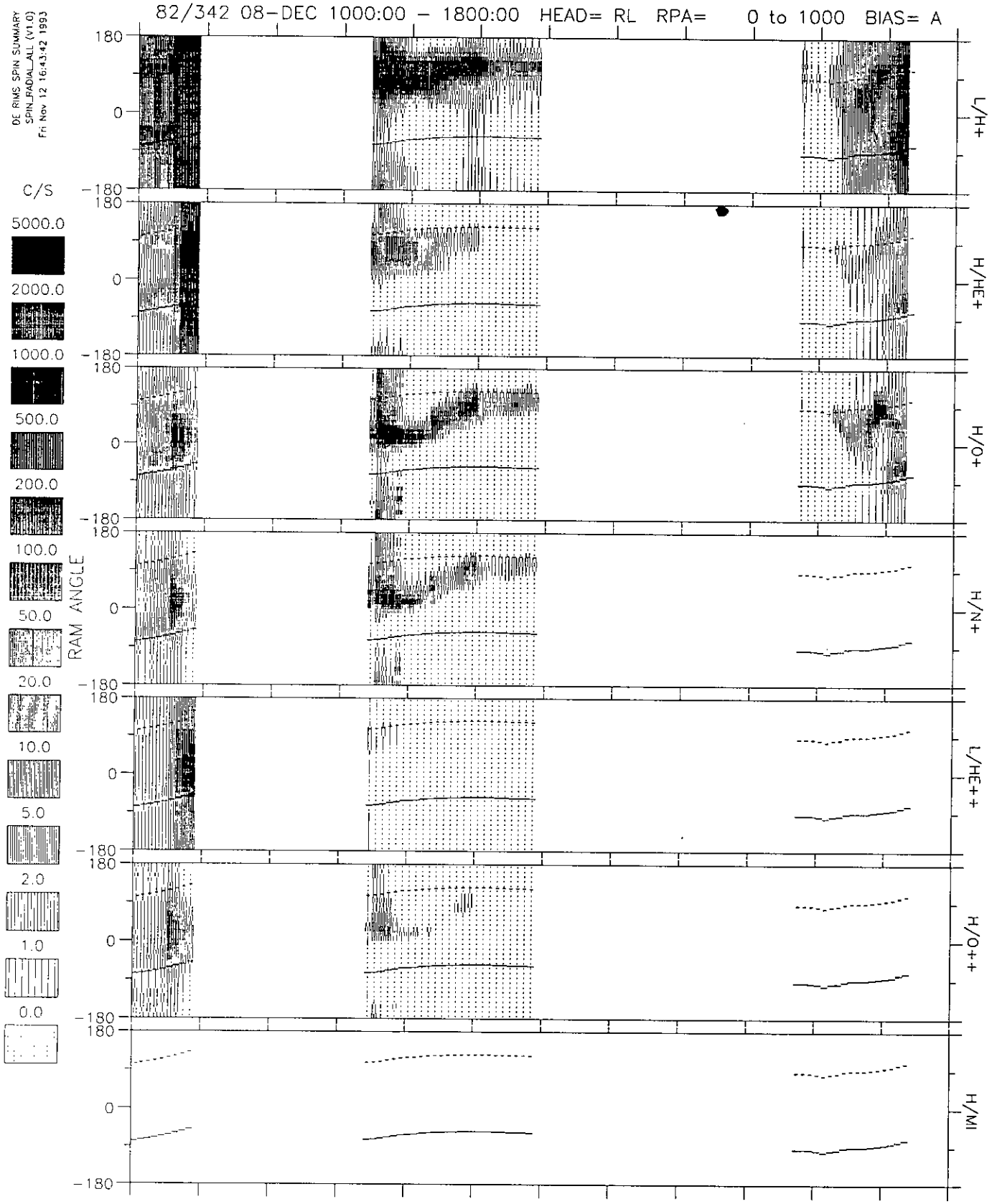

82/341 07-DEC 1330:00 - 2130:00 HEAD= RL REA= 0 to 1000 BAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
PAM ANGLE
180
0
-180
L/HE+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 0000 0000 0000 1610 0000 0000 0000 0000 0000 0000 0000 HHMM
RE 0.0 0.0 0.0 2.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 RE
L 0.0 0.0 0.0 15.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0
MLT 0.0 0.0 0.0 16.1 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 DEGS
INVLAT 0.0 0.0 0.0 75.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 DEGS



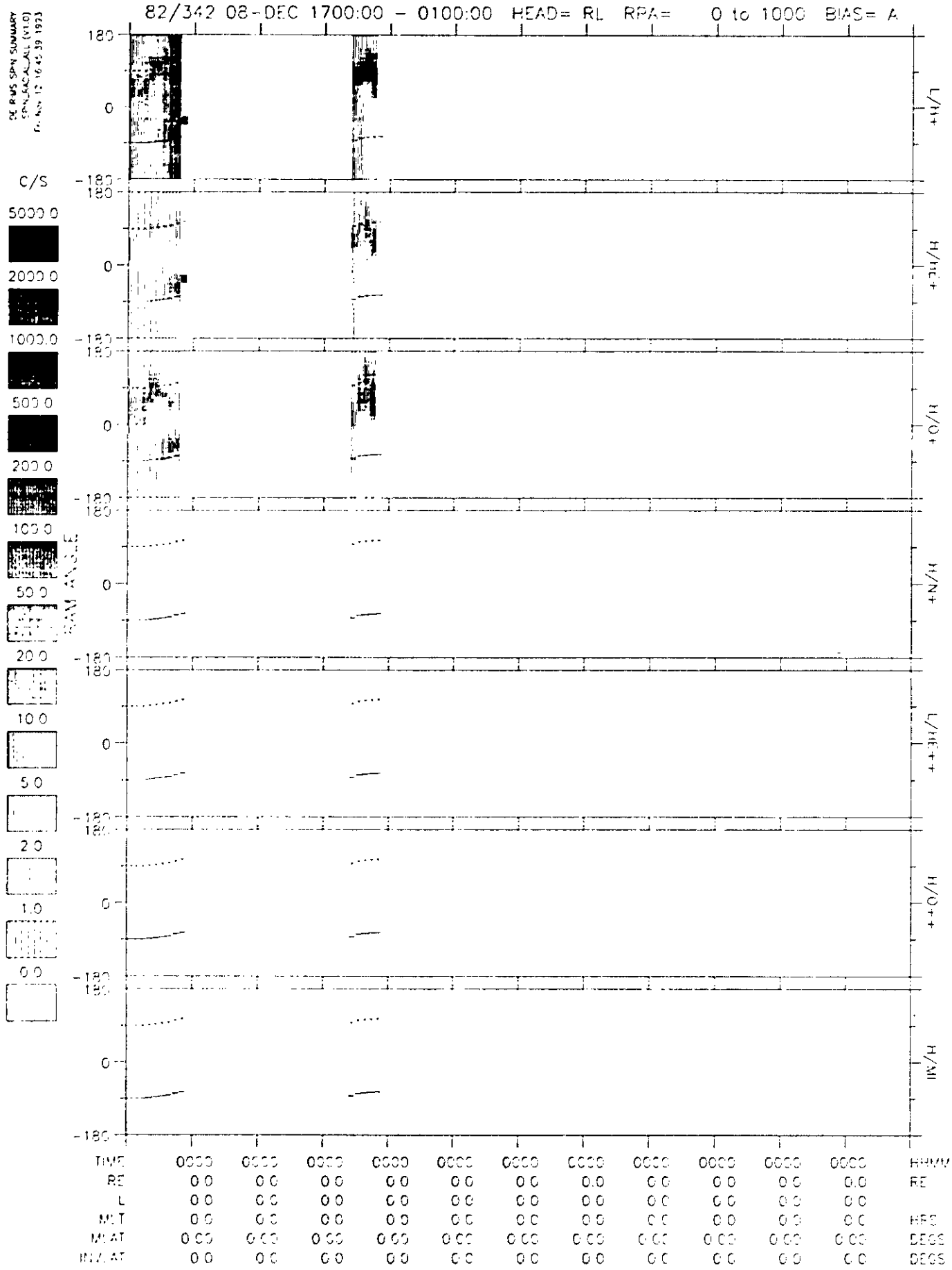
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0230	0310	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	3.7	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	5.3	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	5.2	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.1	64.3	0.0	DEGS

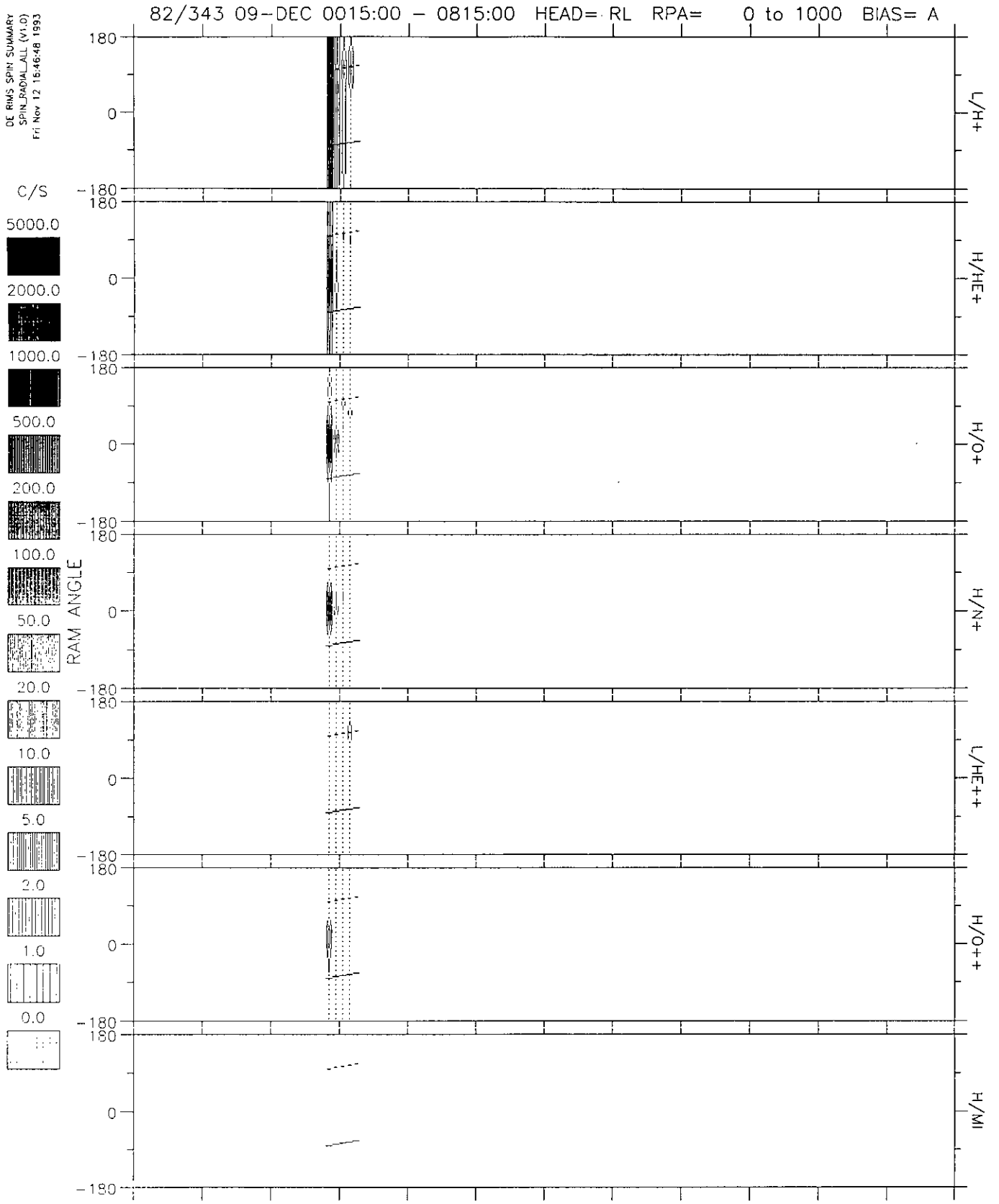


TIME	0000	0000	0000	0000	0000	0000	0000	0835	0915	0955	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.4	3.8	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	6.4	4.4	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.9	6.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.0	66.7	61.4	0.0	DEGS

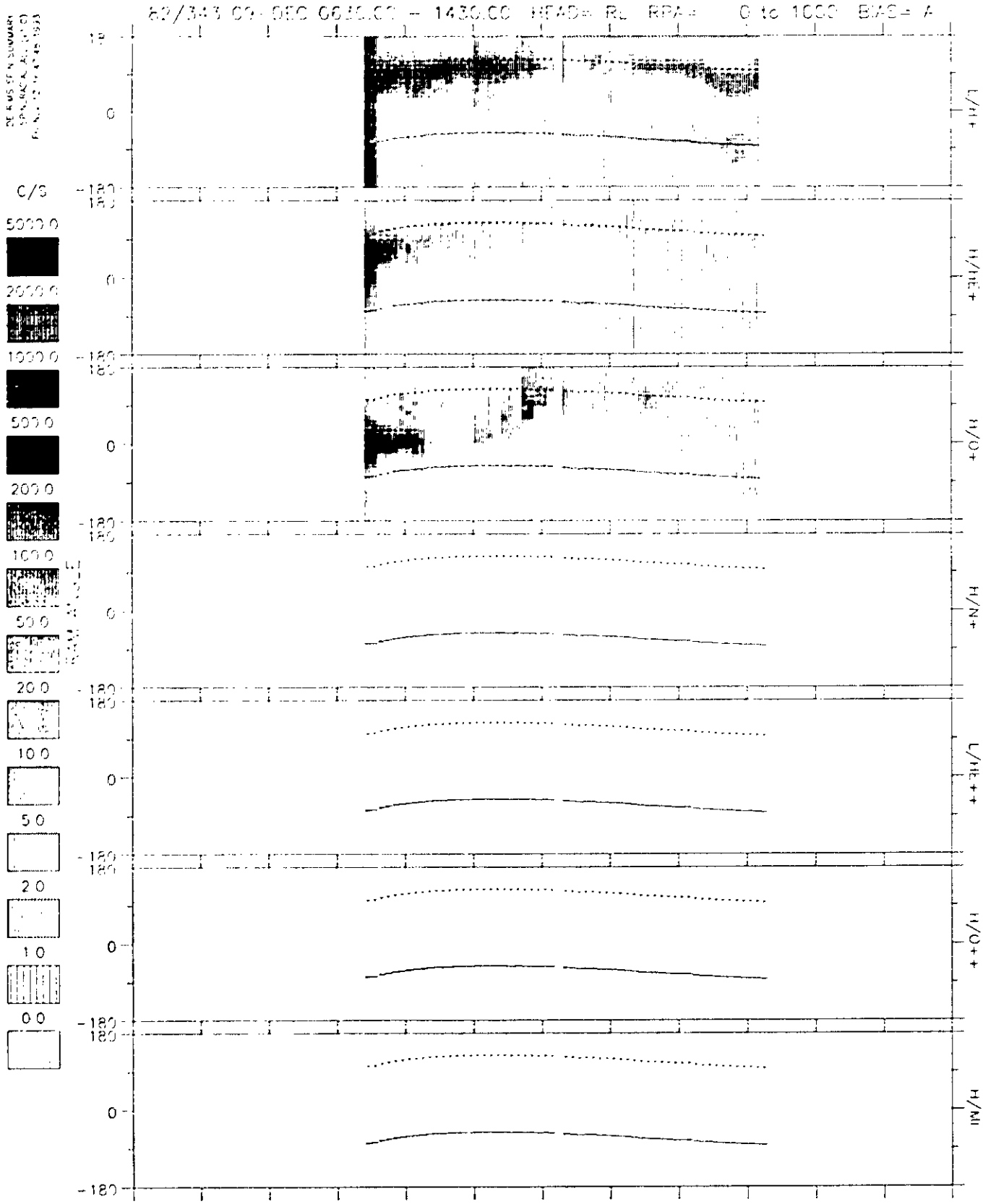


TIME	0000	0000	0000	1240	1320	0000	0000	0000	0000	1640	1720	HHMM
RE	0.0	0.0	0.0	2.8	3.7	0.0	0.0	0.0	0.0	3.9	3.1	RE
L	0.0	0.0	0.0	34.6	100.0	0.0	0.0	0.0	0.0	5.9	3.4	
MLT	0.0	0.0	0.0	16.4	10.1	0.0	0.0	0.0	0.0	6.2	5.9	HRS
MI AT	0.00	0.00	0.00	*****	*****	0.00	0.00	0.00	0.00	*****	*****	DEGS
INVI AT	0.0	0.0	0.0	80.2	84.8	0.0	0.0	0.0	0.0	65.6	57.3	DEGS

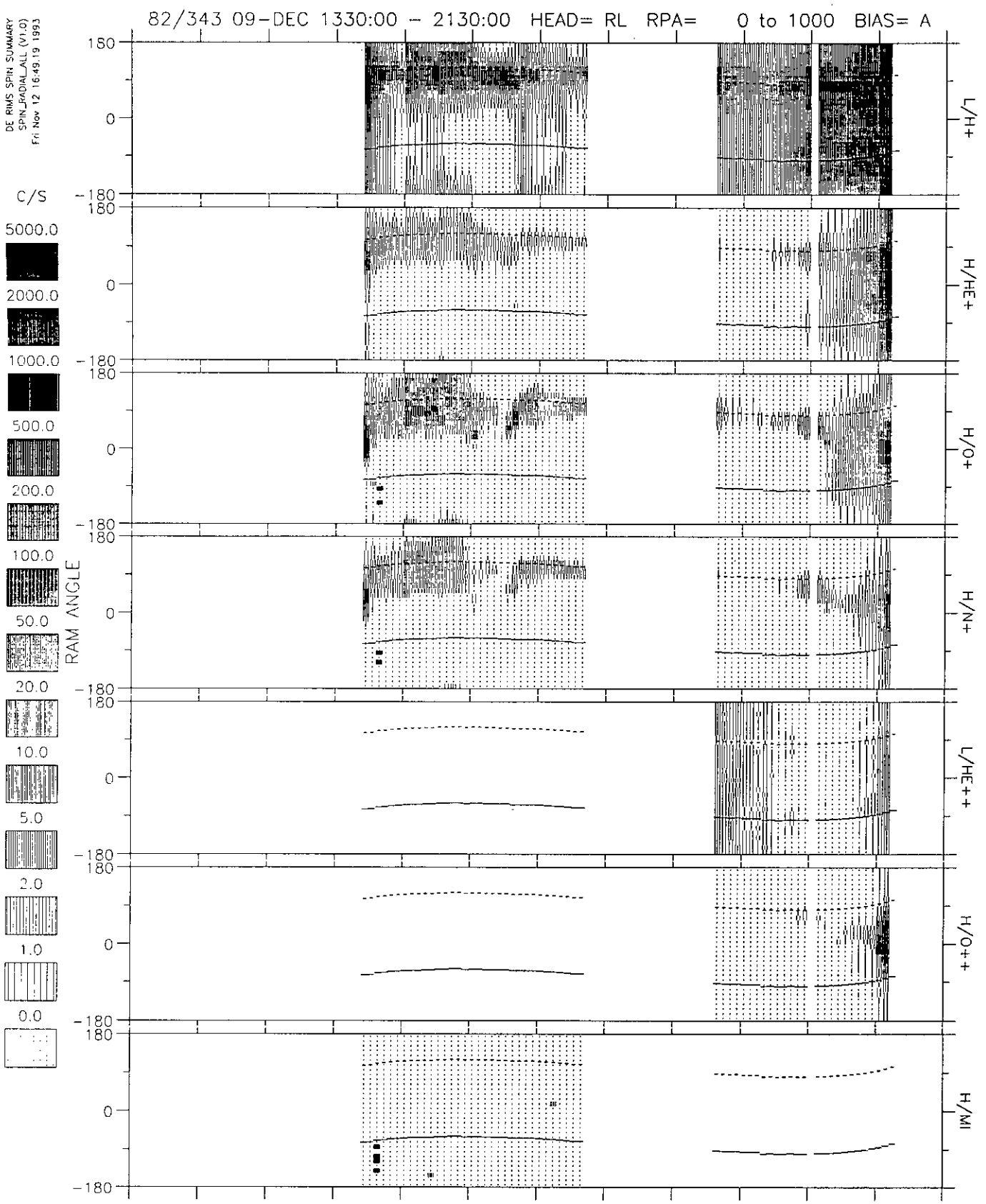

82/342 08-DEC 1700:00 - 0100:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
PHASE ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M
TIME 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 HHMM
RE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 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



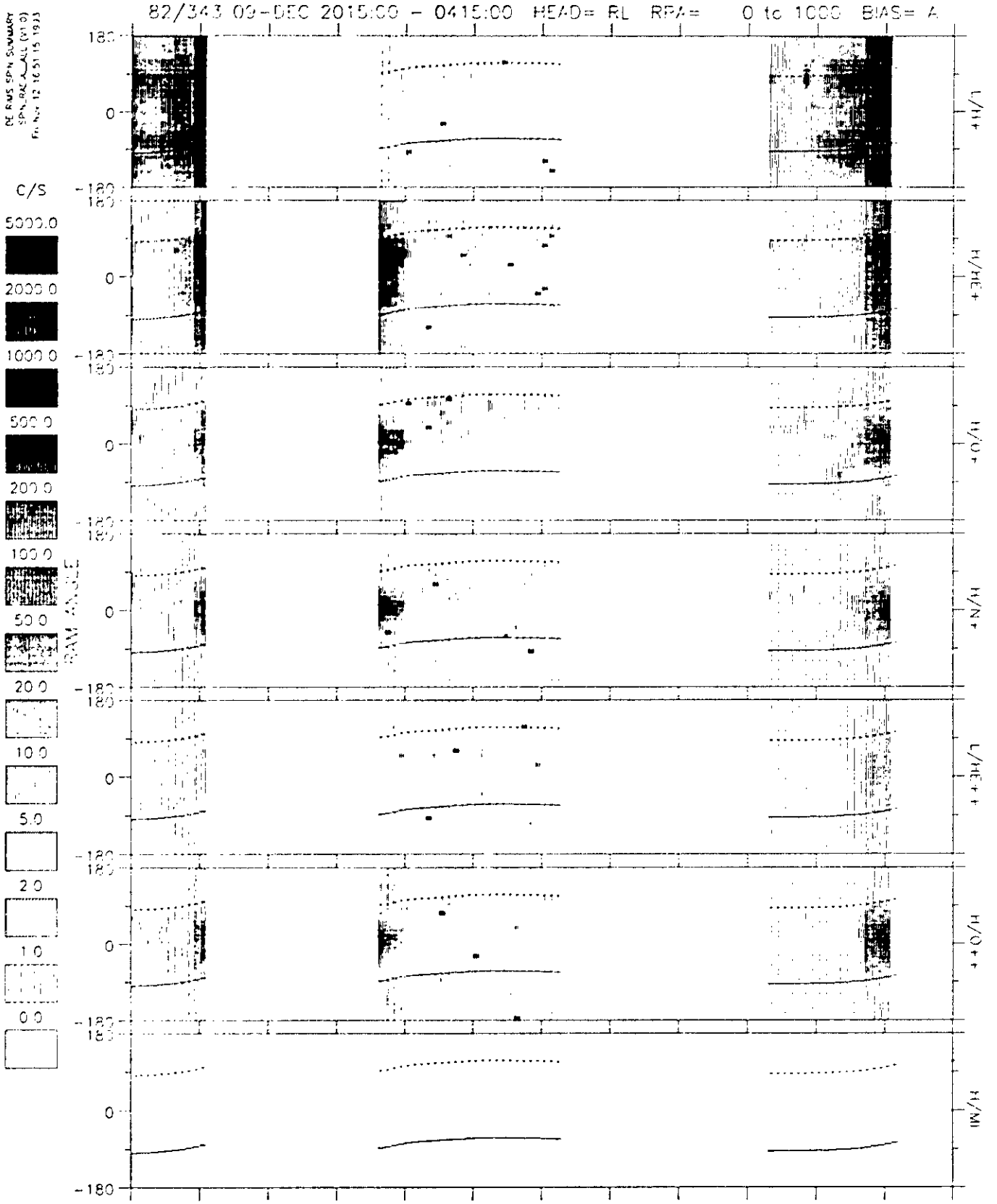
TIME	0000	0000	0215	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	*****	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	68.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	DEGS



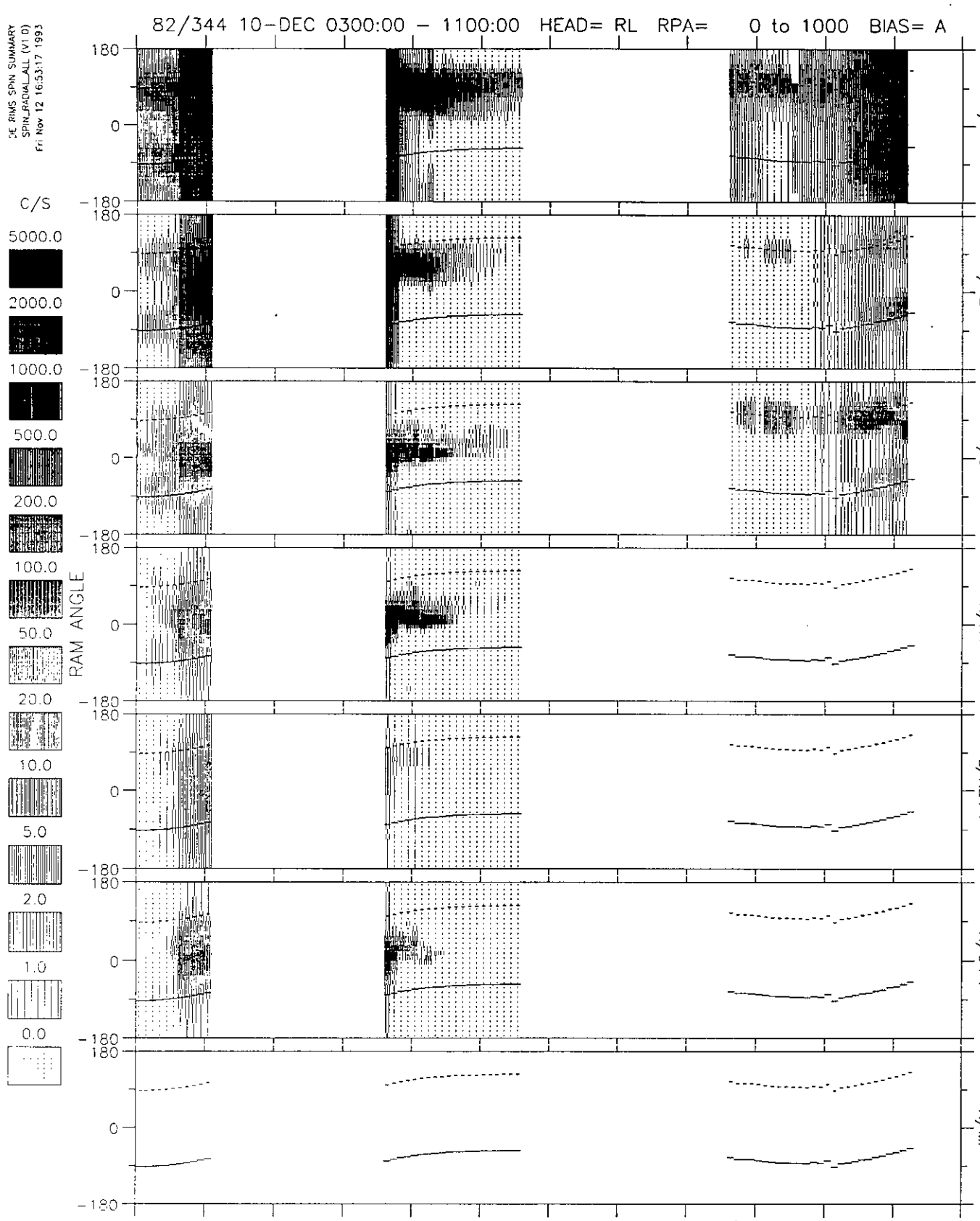
TIME	0000	0000	0000	0910	0950	1030	1110	1150	1230	0000	0000	HHMM
RE	0.0	0.0	0.0	2.8	3.7	4.3	4.6	4.6	4.4	0.0	0.0	RE
L	0.0	0.0	0.0	47.2	100.0	32.2	16.1	10.3	7.1	0.0	0.0	
MLT	0.0	0.0	0.0	18.7	5.5	6.2	6.3	6.3	6.3	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	81.6	80.6	79.8	75.5	71.8	68.0	0.0	0.0	DEGS



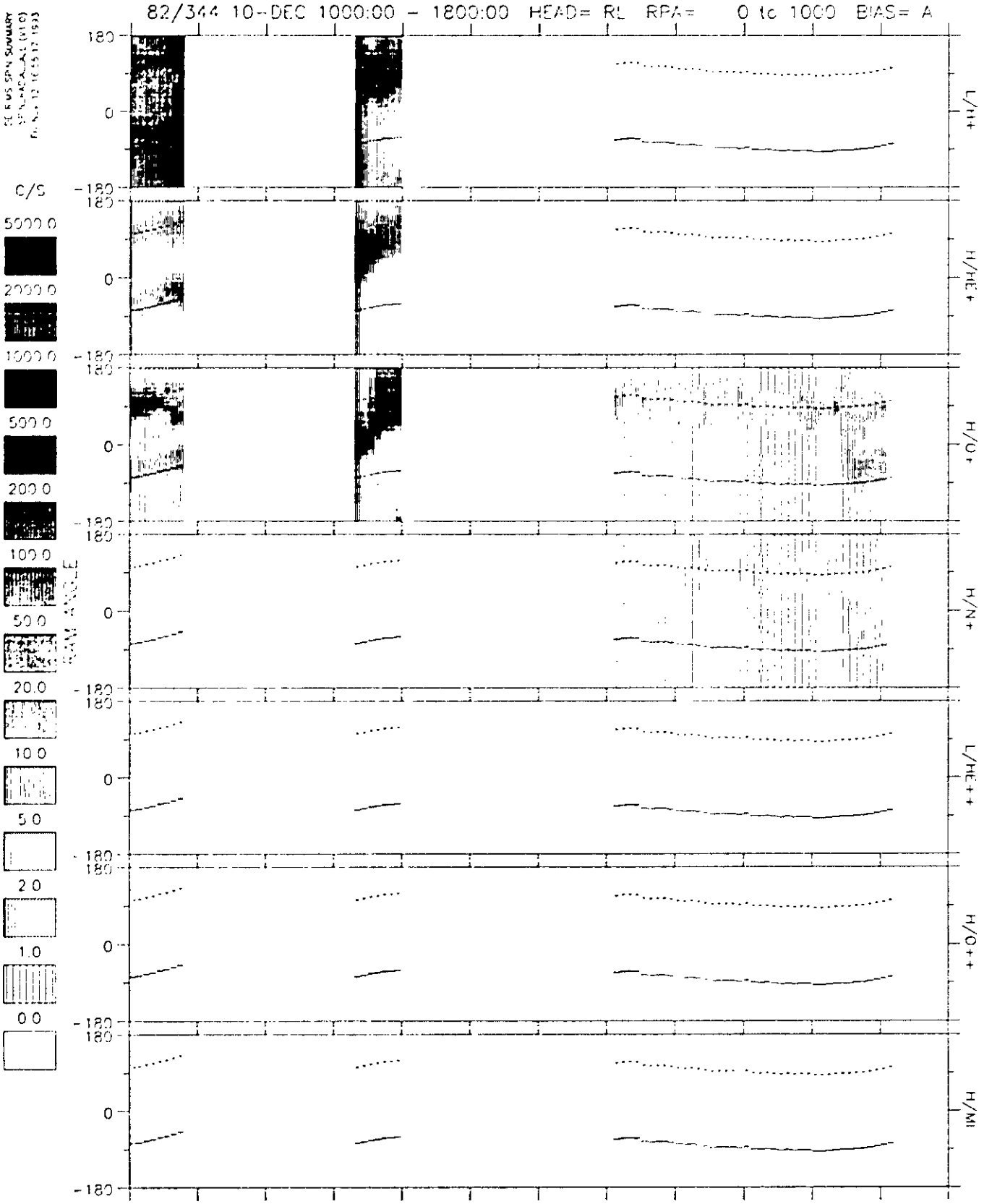
TIME	0000	0000	0000	1610	1650	1730	0000	0000	1930	0000	2050	HHMM
RE	0.0	0.0	0.0	3.0	3.9	4.4	0.0	0.0	4.3	0.0	2.9	RE
L	0.0	0.0	0.0	19.5	87.1	86.1	0.0	0.0	12.6	0.0	3.3	
MLT	0.0	0.0	0.0	15.8	12.7	9.1	0.0	0.0	6.1	0.0	5.5	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	*****	0.00	*****	DEGS
INVLAT	0.0	0.0	0.0	76.9	83.8	83.8	0.0	0.0	73.6	0.0	56.4	DEGS



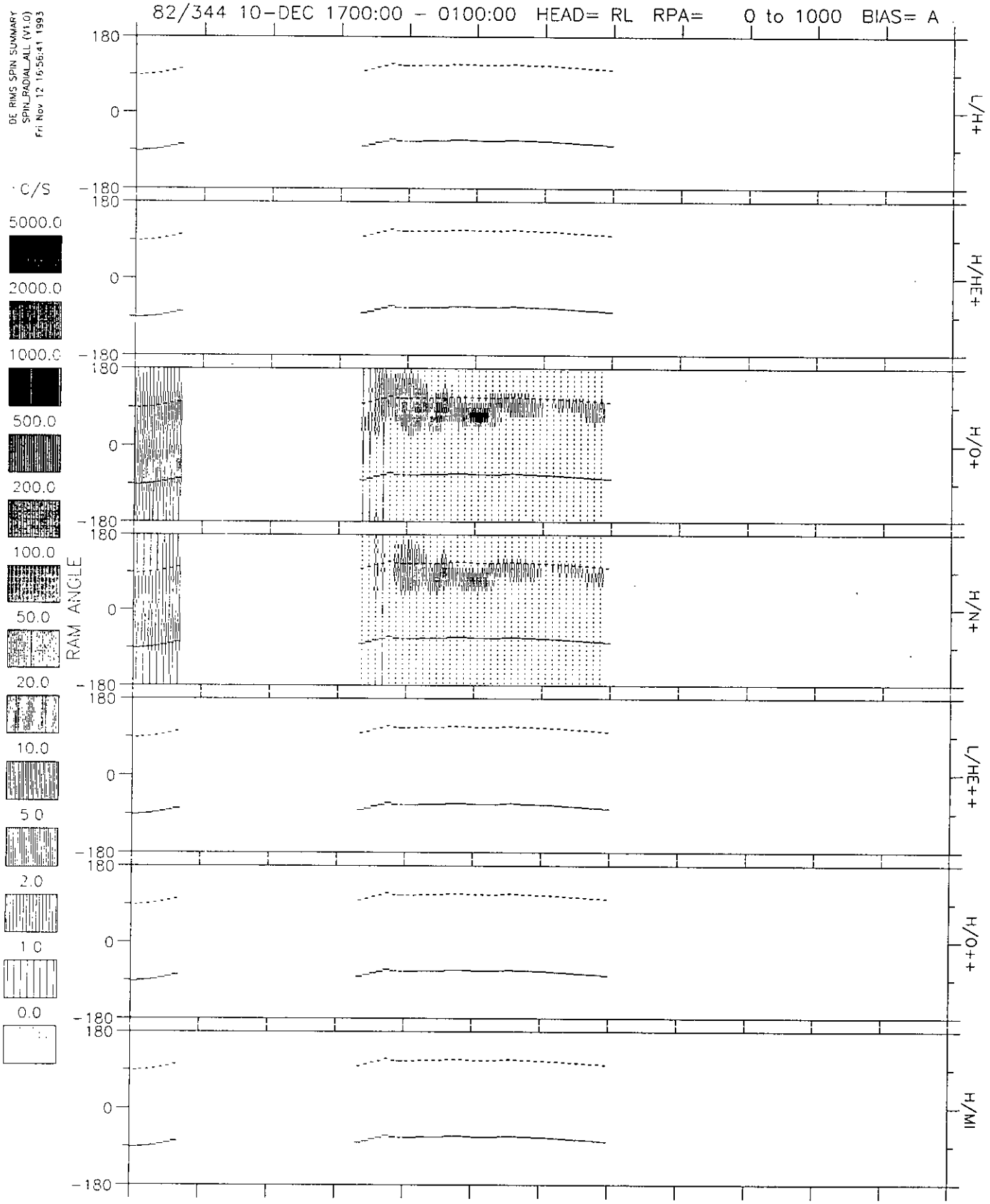
TIME	2055	0000	0000	2255	2335	0015	0000	0000	0000	0255	0335	HHMM
RE	2.8	0.0	0.0	2.9	3.8	4.3	0.0	0.0	0.0	3.9	3.0	RE
L	3.0	0.0	0.0	8.5	54.8	100.0	0.0	0.0	0.0	6.2	3.4	
MLT	5.4	0.0	0.0	17.0	18.0	23.7	0.0	0.0	0.0	4.9	5.3	HRS
MLAT	*****	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	*****	*****	DEGS
INVLAT	54.5	0.0	0.0	69.9	82.2	86.7	0.0	0.0	0.0	66.3	57.2	DEGS



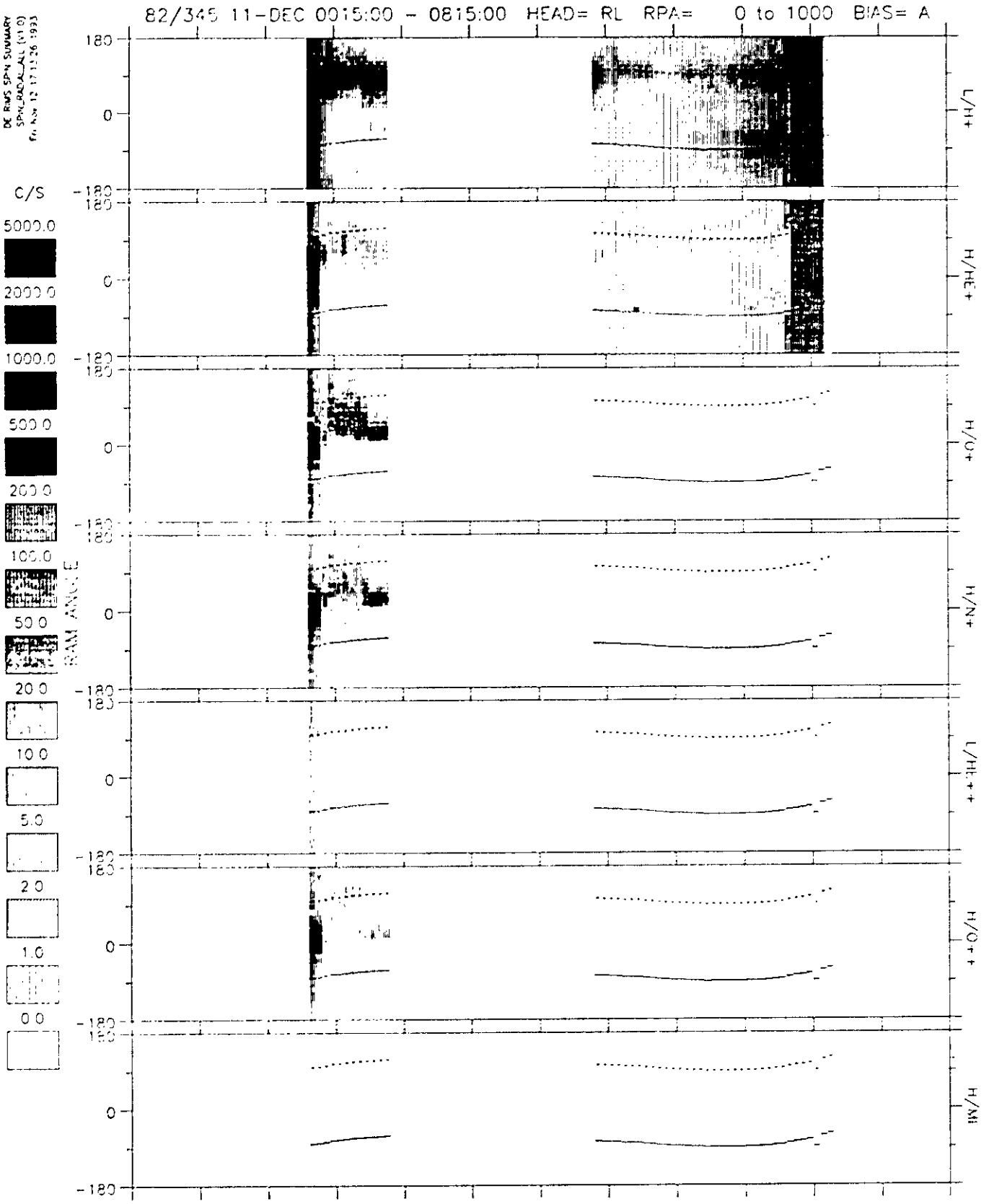
TIME	0340	0000	0000	0540	0620	0000	0000	0000	0900	0940	1020	HHMM
RE	2.9	0.0	0.0	2.7	3.7	0.0	0.0	0.0	4.4	4.0	3.2	RE
L	3.2	0.0	0.0	16.4	100.0	0.0	0.0	0.0	7.1	4.8	3.3	
MLT	5.4	0.0	0.0	19.3	0.2	0.0	0.0	0.0	5.8	5.9	5.9	HRS
MLAT	*****	0.00	0.00	*****	*****	0.00	0.00	0.00	*****	*****	-6.73	DEGS
INVLAT	56.0	0.0	0.0	75.7	84.7	0.0	0.0	0.0	67.9	62.9	56.4	DEGS



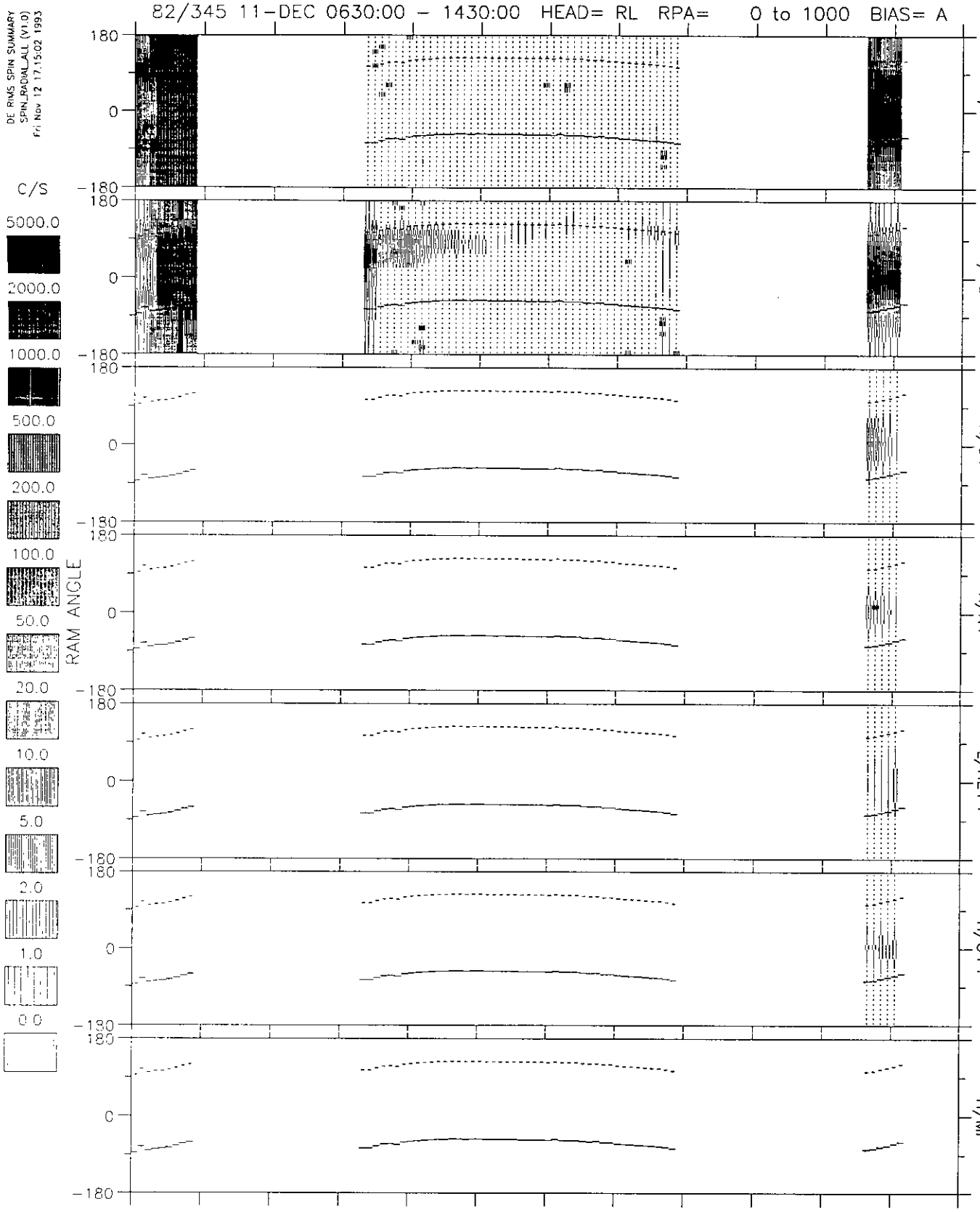
TIME	0000	0000	0000	0000	0000	0000	0000	1520	1600	1640	1720	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.4	3.8	2.9	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	8.8	5.0	3.2	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	6.4	6.1	5.7	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.....	.....	.....	.....	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.0	70.3	65.0	55.9	DEGS



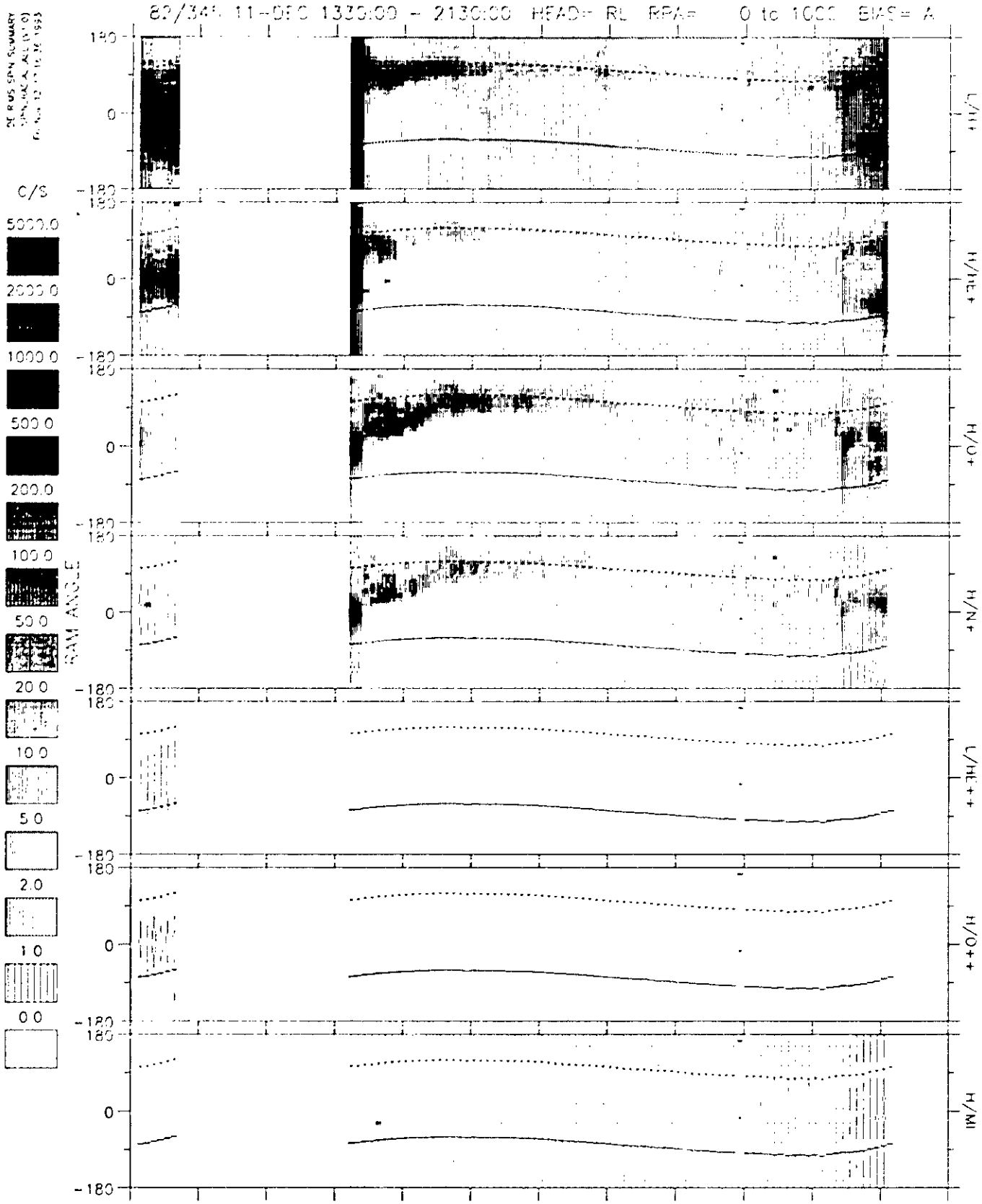
TIME	0000	0000	0000	1940	2020	2100	0000	0000	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	3.2	4.0	4.5	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	15.9	100.0	100.0	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	16.5	15.5	8.3	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	75.5	84.6	88.4	0.0	0.0	0.0	0.0	0.0	DEGS



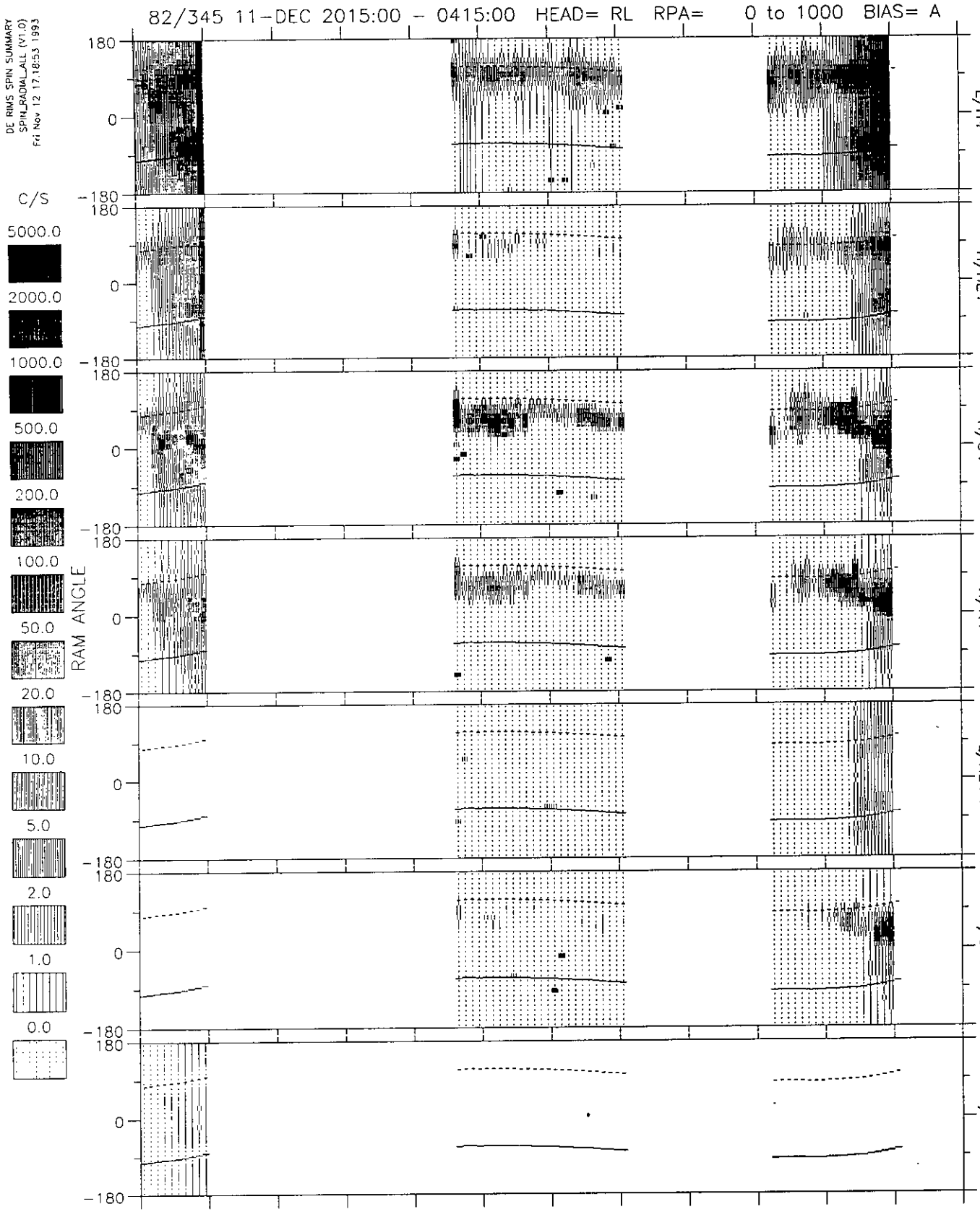
TIME	0000	0000	0215	0000	0000	0000	0455	0535	0615	0655	0000	HHMM
RE	0.0	0.0	2.8	0.0	0.0	0.0	4.6	4.4	3.9	3.1	0.0	RE
L	0.0	0.0	9.7	0.0	0.0	0.0	14.1	8.4	5.2	3.3	0.0	
MLT	0.0	0.0	18.5	0.0	0.0	0.0	4.5	5.0	5.4	5.7	0.0	HRS
MLAT	0.00	0.00	*****	0.00	0.00	0.00	*****	*****	*****	-8.61	0.00	DEGS
INVLAT	0.0	0.0	71.3	0.0	0.0	0.0	74.6	69.8	64.1	56.6	0.0	DEGS



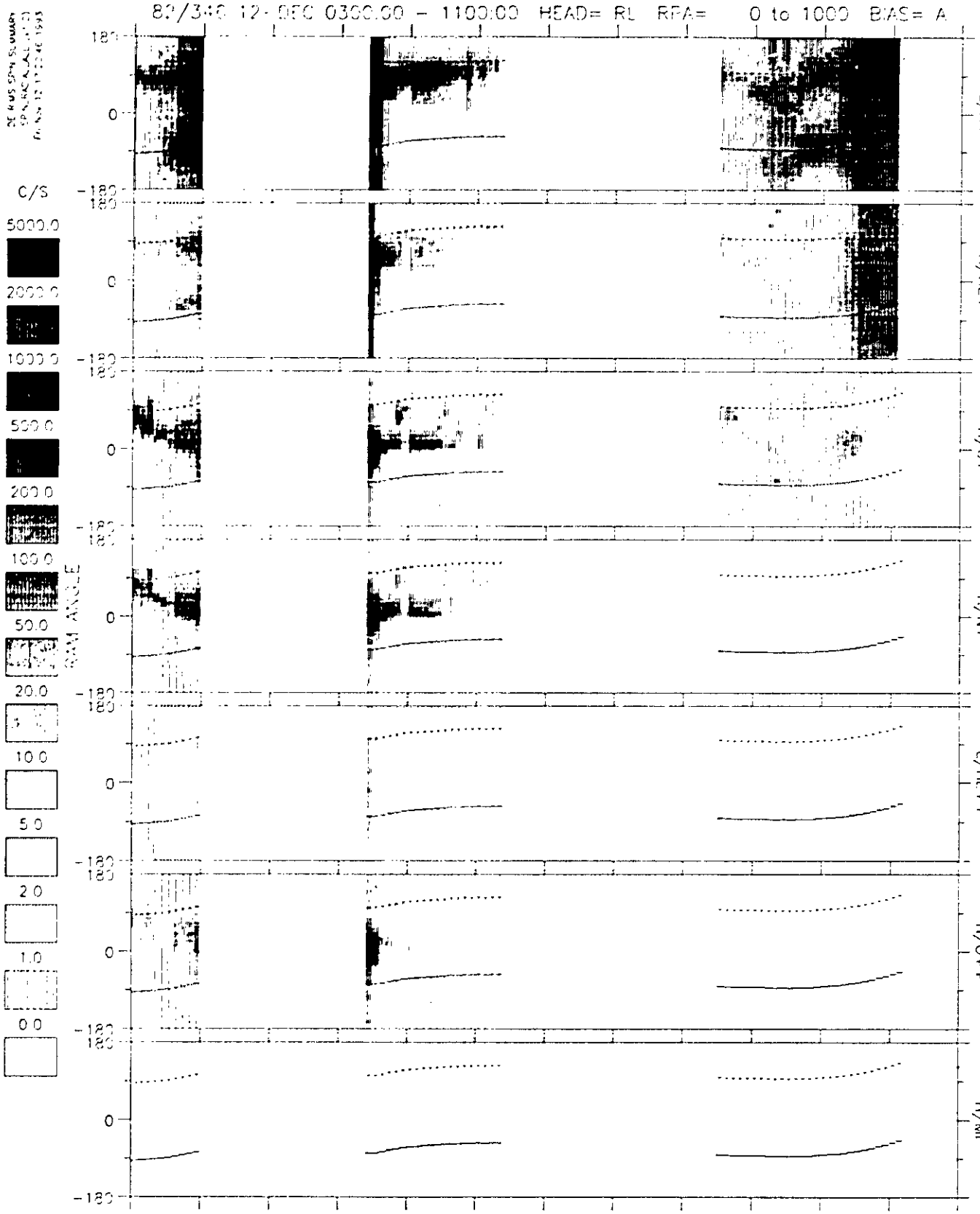
TIME	0000	0000	0000	0910	0950	1030	1110	0000	0000	0000	1350	HHMM
RE	0.0	0.0	0.0	2.9	3.8	4.4	4.6	0.0	0.0	0.0	3.0	RE
L	0.0	0.0	0.0	82.9	100.0	30.1	15.5	0.0	0.0	0.0	3.0	
MLT	0.0	0.0	0.0	18.7	5.6	6.1	6.2	0.0	0.0	0.0	5.8	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	0.00	0.00	0.00	-7.80	DEGS
INVLAT	0.0	0.0	0.0	83.7	85.6	79.5	75.3	0.0	0.0	0.0	55.0	DEGS



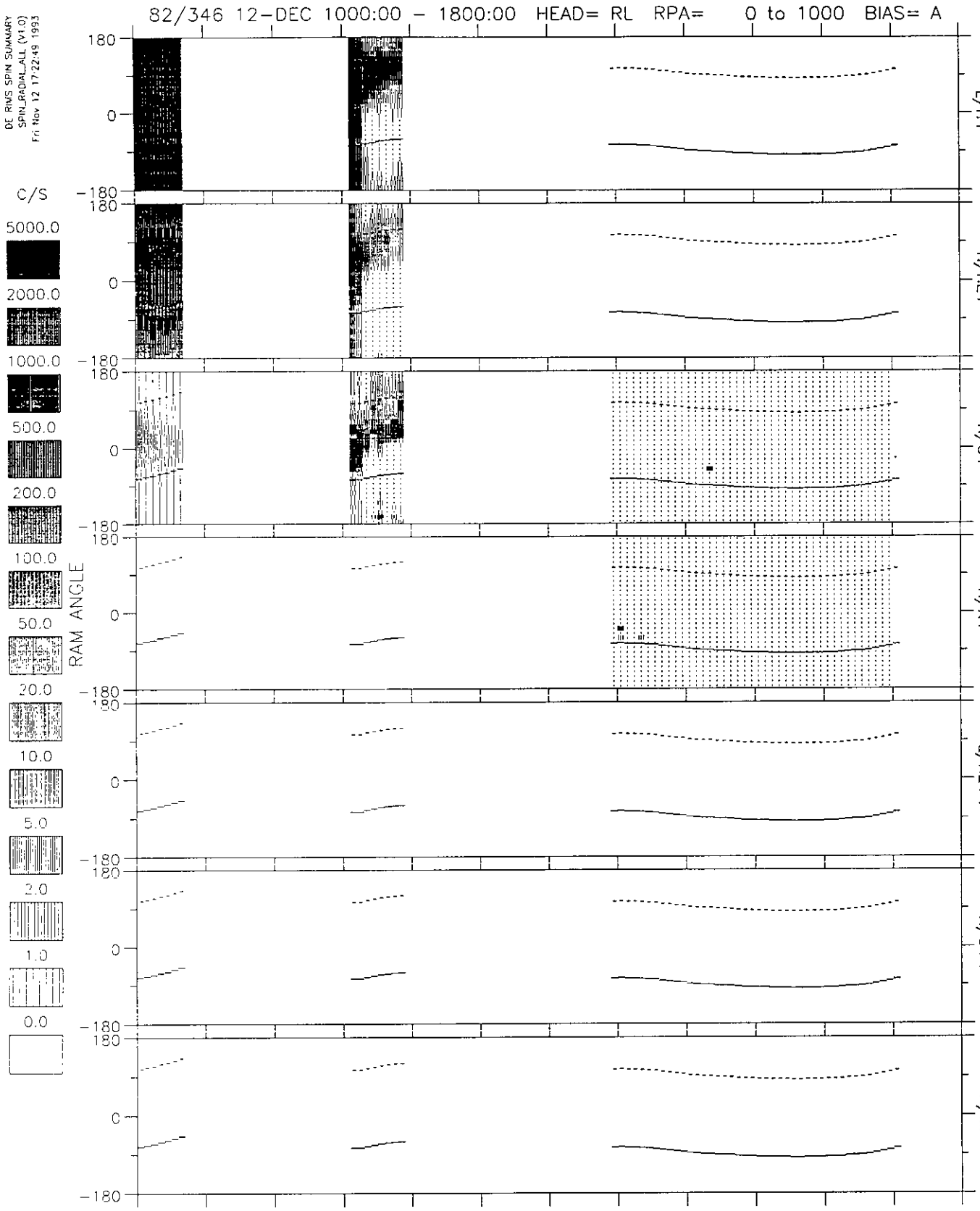
TIME	0000	0000	0000	1610	1650	1730	1810	1850	1930	2010	2050	HHMM
RE	0.0	0.0	0.0	3.2	4.0	4.4	4.6	4.6	4.3	3.7	2.7	RE
L	0.0	0.0	0.0	23.5	94.6	85.1	42.4	22.2	12.0	6.2	3.0	
MLT	0.0	0.0	0.0	15.5	12.3	8.8	7.2	6.4	5.9	5.5	5.3	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	78.1	84.1	83.8	81.2	77.7	73.2	66.4	54.5	DEGS



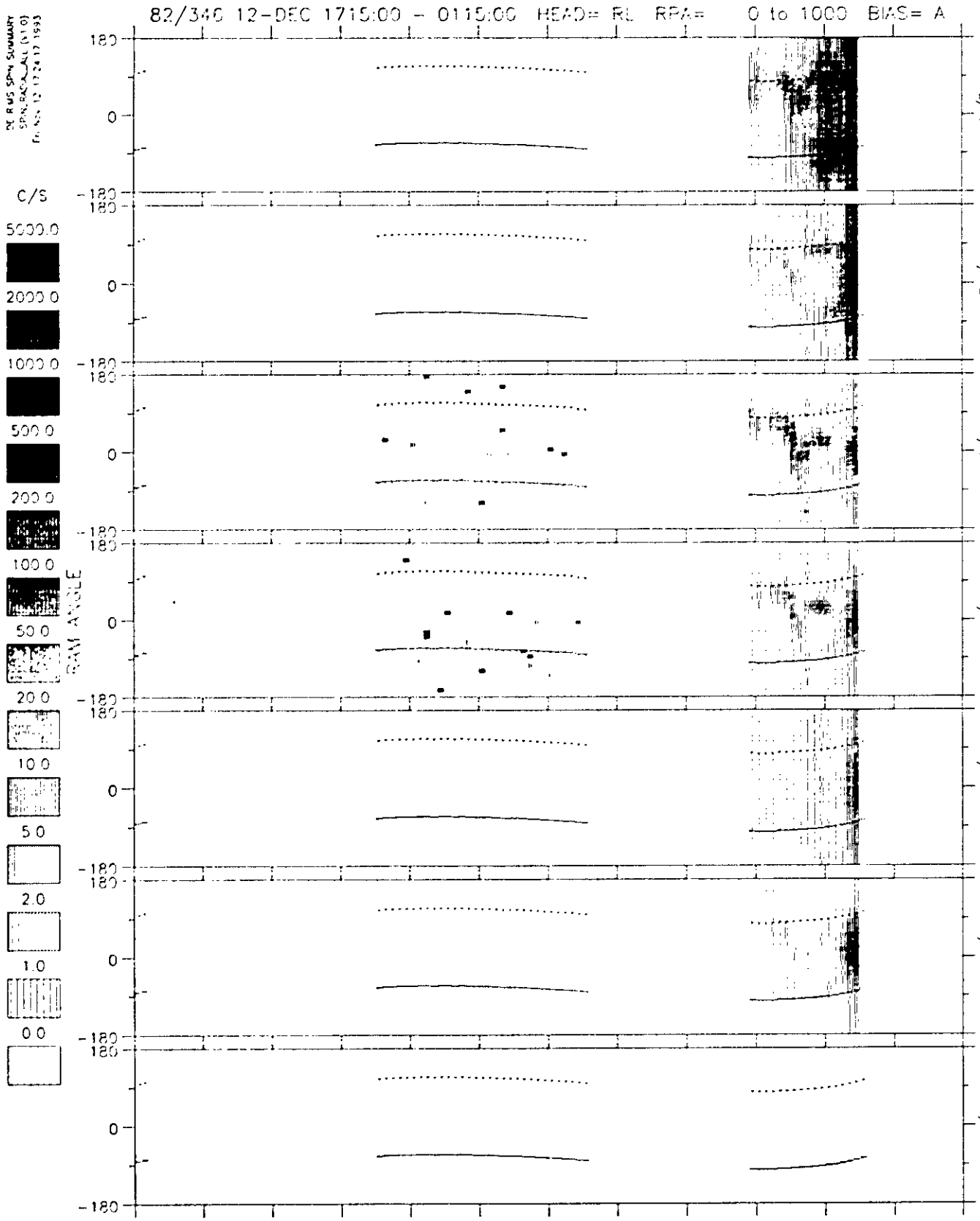
TIME	0000	0000	0000	0000	2335	0015	0055	0000	0000	0255	0335	HHMM
RE	0.0	0.0	0.0	0.0	3.9	4.4	4.6	0.0	0.0	3.8	2.9	RE
L	0.0	0.0	0.0	0.0	67.5	100.0	58.8	0.0	0.0	5.8	3.2	
MLT	0.0	0.0	0.0	0.0	18.7	0.2	3.2	0.0	0.0	4.8	5.2	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	83.0	86.5	82.5	0.0	0.0	65.4	56.0	DEGS



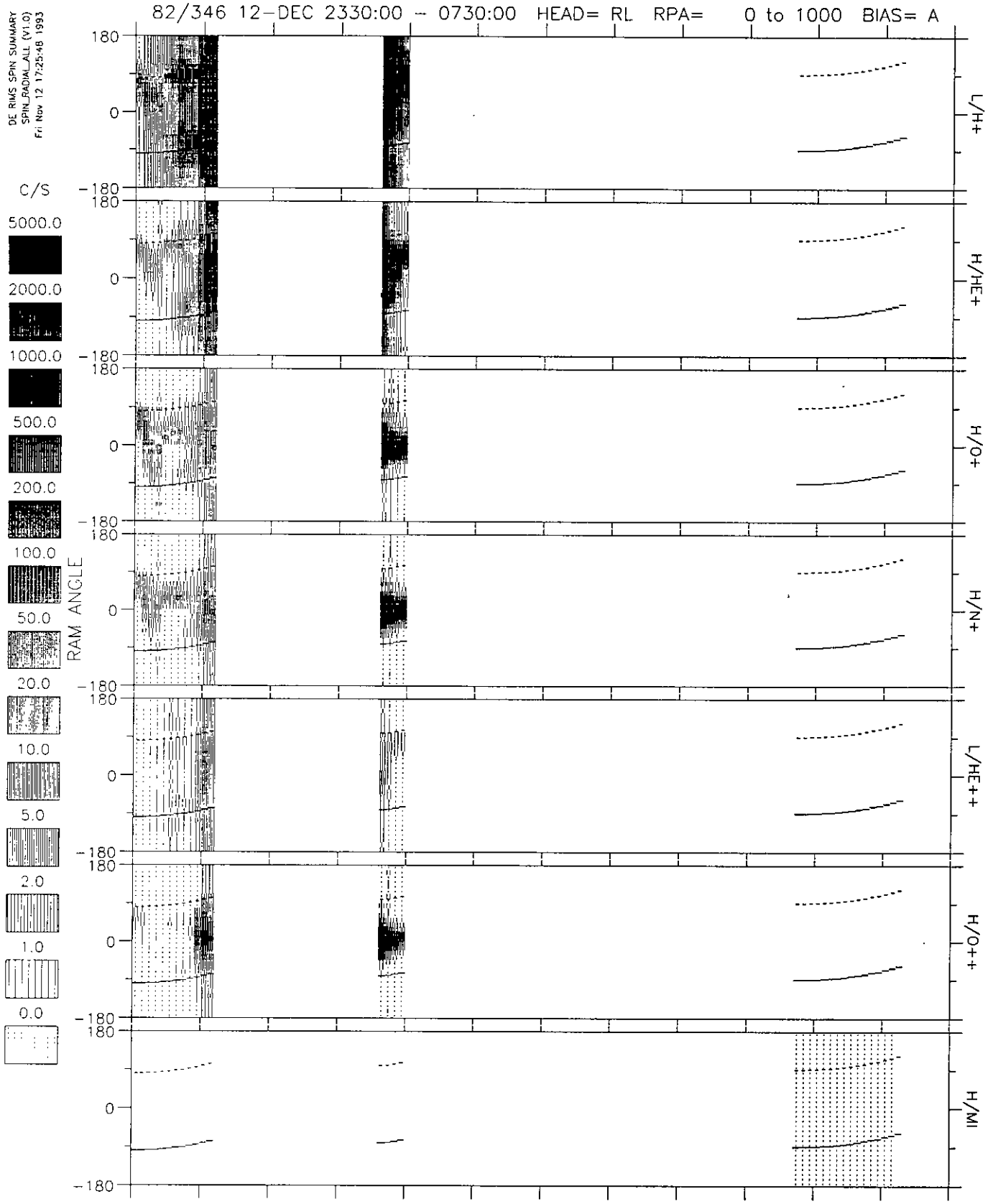
TIME	0000	0000	0000	0540	0600	0000	0000	0000	0900	0940	1000	HHMM
RE	0.0	0.0	0.0	2.9	3.8	0.0	0.0	0.0	4.4	3.9	3.0	RE
L	0.0	0.0	0.0	22.0	100.0	0.0	0.0	0.0	6.8	4.6	3.1	
MLT	0.0	0.0	0.0	19.4	0.8	0.0	0.0	0.0	5.6	5.8	5.8	HRS
MLAT	0.00	0.00	0.00	*****	*****	0.00	0.00	0.00	*****	*****	-4.27	DEGS
INVLAT	0.0	0.0	0.0	77.8	84.7	0.0	0.0	0.0	67.5	62.3	55.4	DEGS



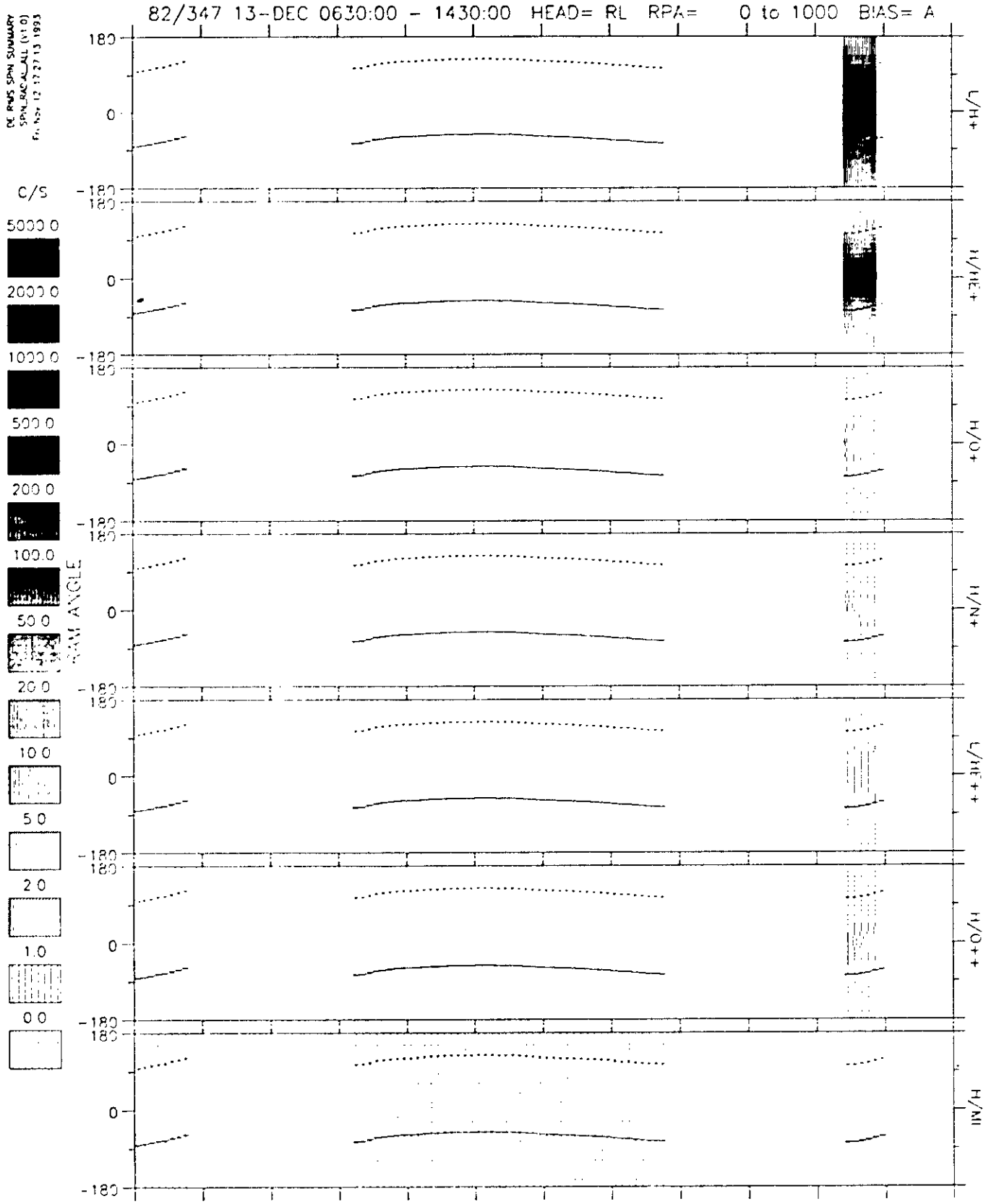
TIME	0000	0000	0000	0000	0000	0000	1440	1520	1600	1640	1720	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	4.3	3.7	2.8	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	20.1	13.0	8.5	5.3	3.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	6.9	6.5	6.2	5.9	5.5	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	77.1	73.9	70.0	64.3	54.6	DEGS



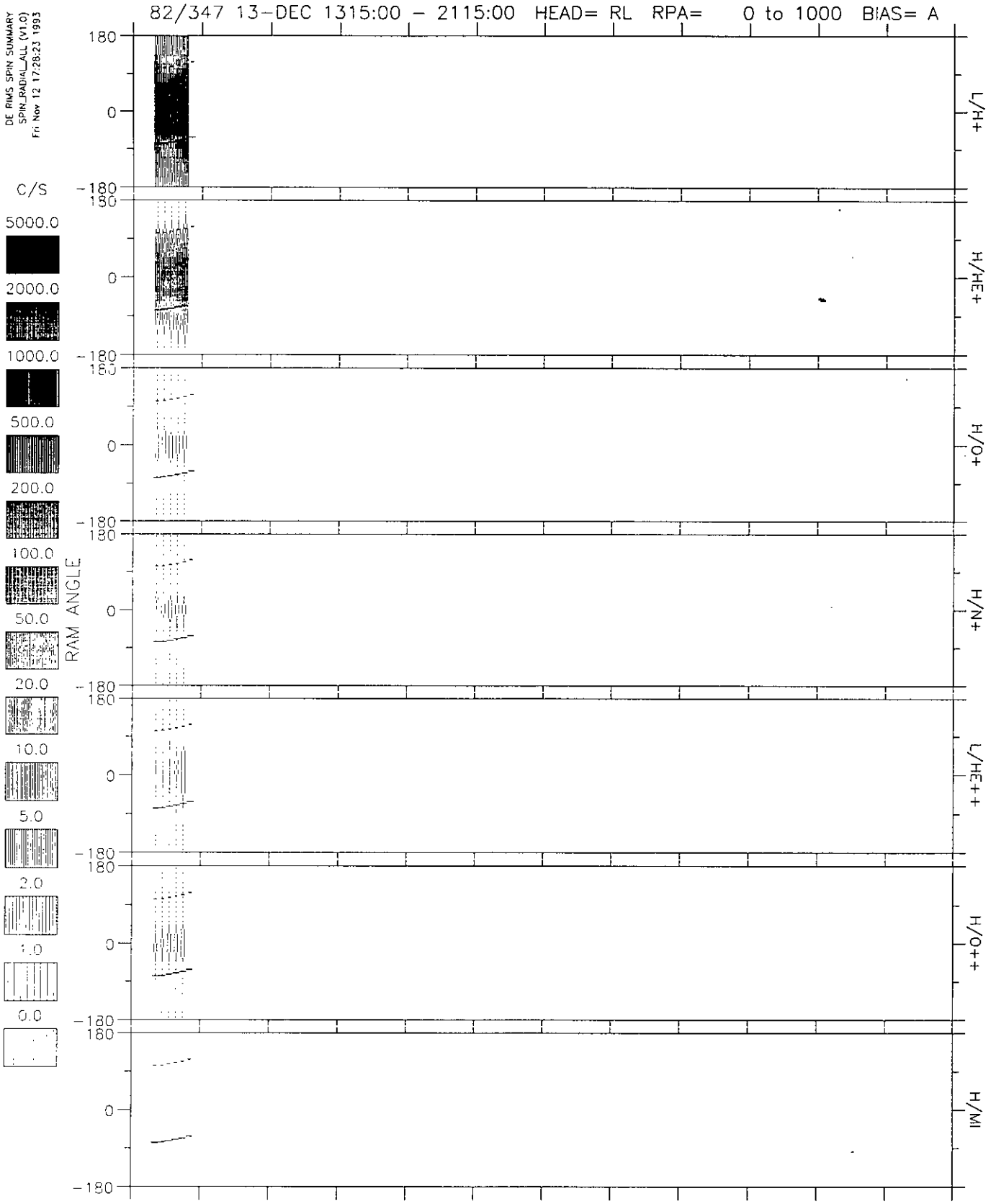
TIME	0000	0000	0000	1955	2035	2115	0000	0000	2315	2355	0000	HHMM
RE	0.0	0.0	0.0	3.7	4.3	4.6	0.0	0.0	4.0	3.2	0.0	RE
L	0.0	0.0	0.0	36.8	100.0	100.0	0.0	0.0	8.7	4.1	0.0	
MLT	0.0	0.0	0.0	16.0	14.1	5.9	0.0	0.0	4.8	4.9	0.0	HRS
MLAT	0.00	0.00	0.00	.....	.....	.....	0.00	0.00	.....	.....	0.00	DEGS
INVLAT	0.0	0.0	0.0	80.5	87.5	86.6	0.0	0.0	70.2	60.5	0.0	DEGS



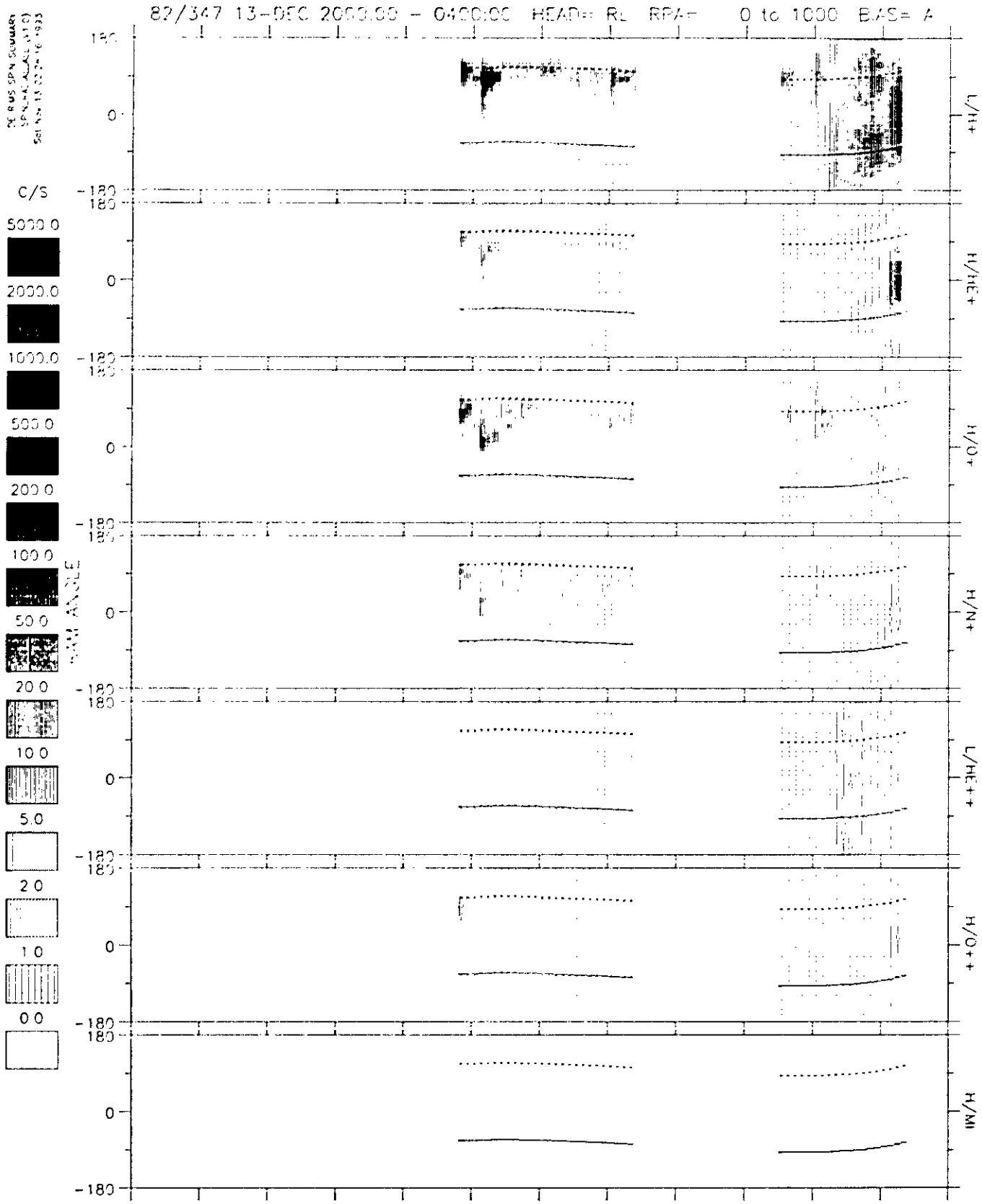
TIME	0010	0000	0000	0000	0000	0000	0000	0000	0000	0610	0650	HHMM
RE	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	3.1	RE
L	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	3.3	
MLT	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	5.5	HRS
MLAT	*****	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	-8.91	DEGS
INVLAT	55.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.2	56.5	DEGS



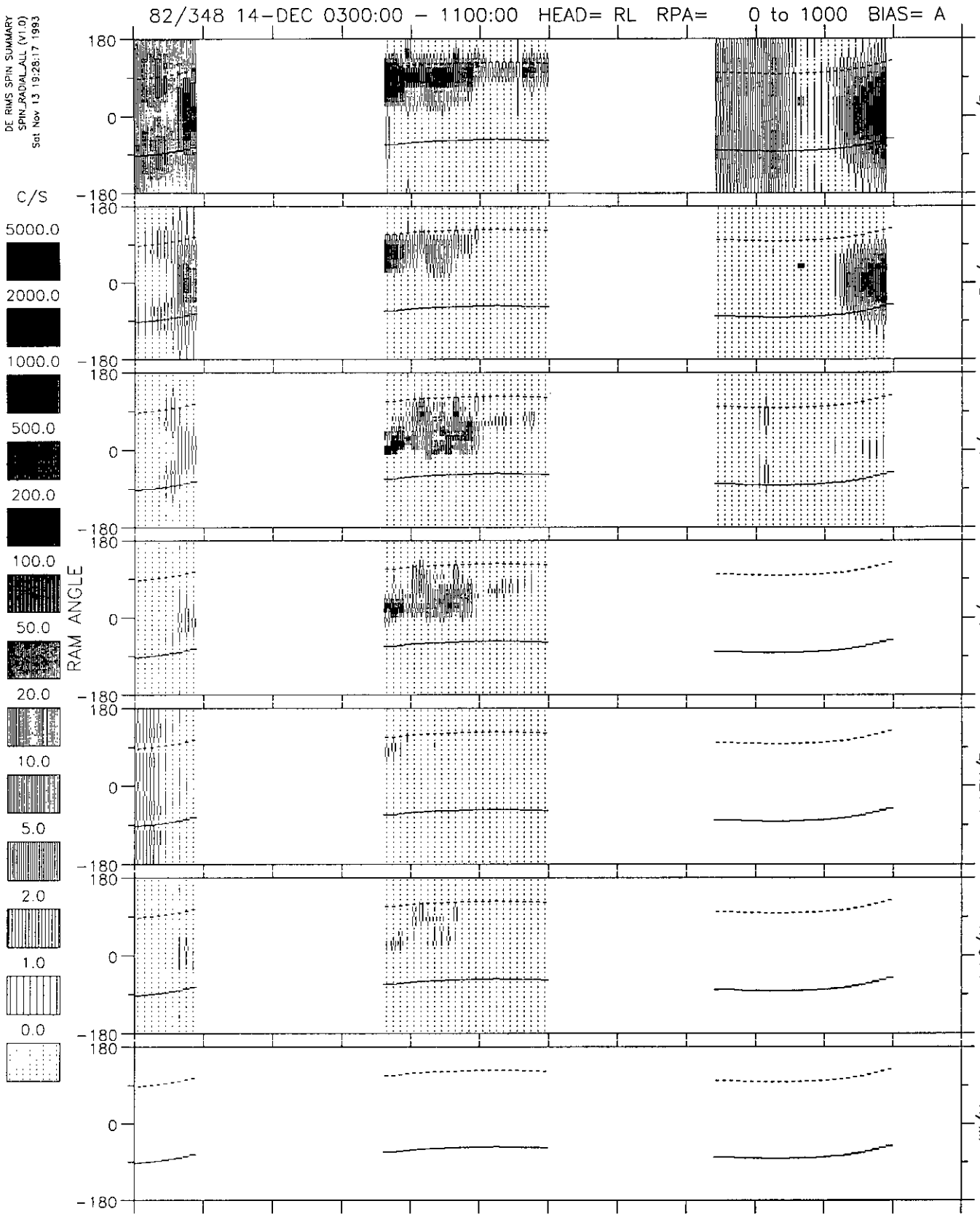
TIME	0000	0000	0000	0910	0950	1030	1110	0000	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	3.1	3.9	4.4	4.6	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	100.0	100.0	28.3	15.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	18.6	5.7	6.0	6.1	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	85.4	84.8	79.2	75.0	0.0	0.0	0.0	0.0	DEGS



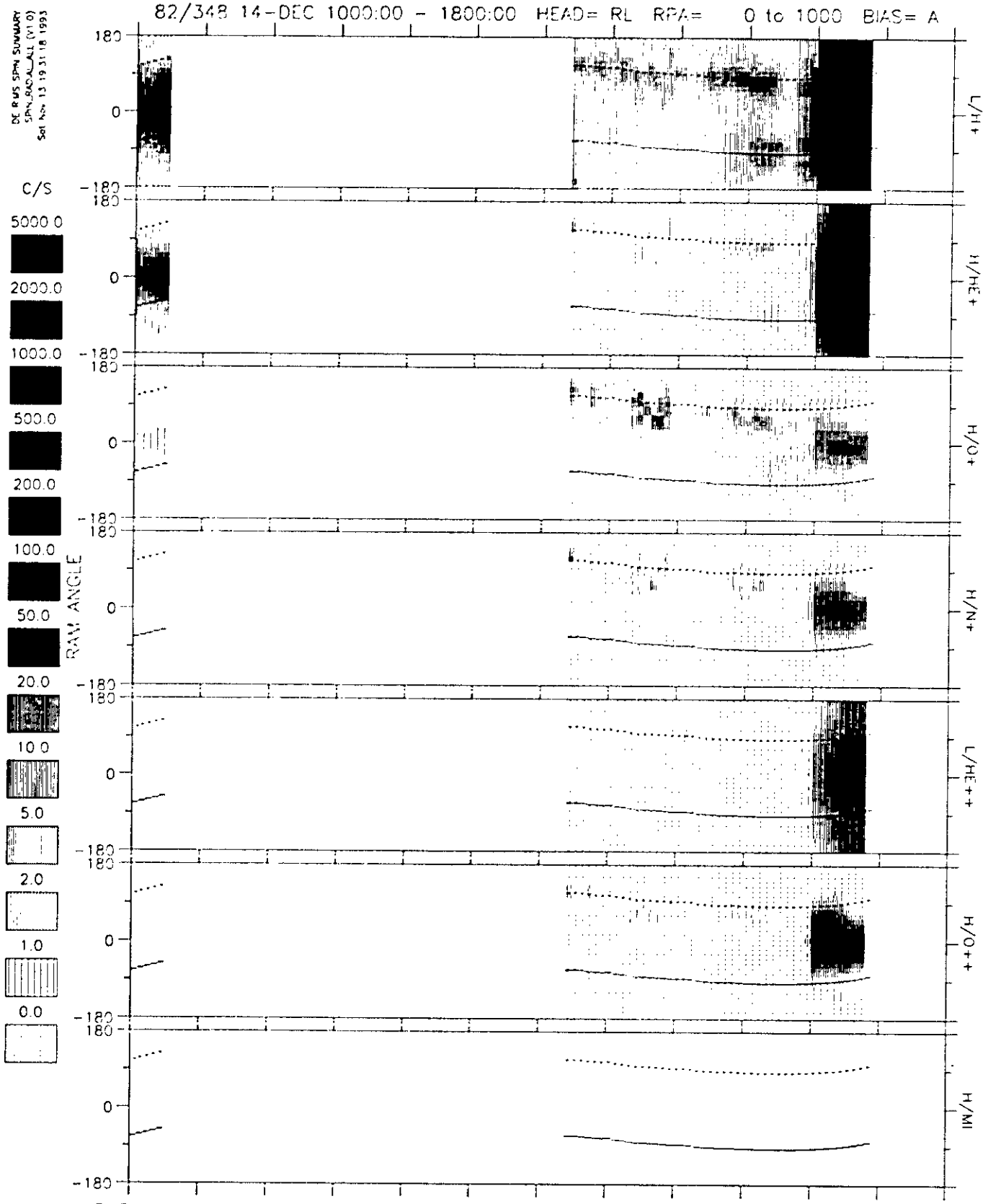
TIME	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0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



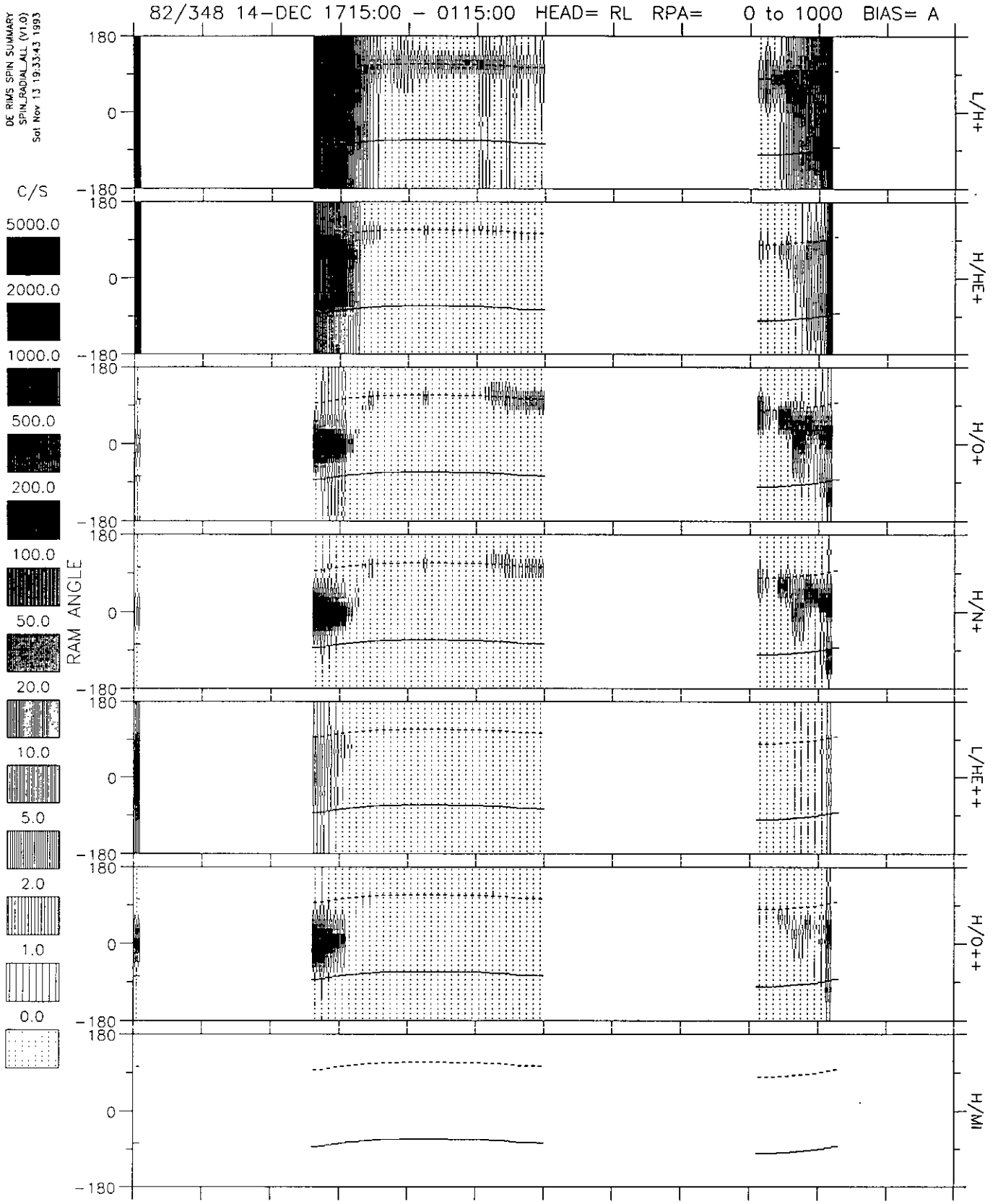
TIME	0000	0000	0000	0000	2320	0000	0040	0000	0000	0240	0320	HHMM
RE	0.0	0.0	0.0	0.0	3.7	4.3	4.6	0.0	0.0	3.9	3.1	RE
L	0.0	0.0	0.0	0.0	38.5	100.0	85.5	0.0	0.0	6.8	3.7	
MLT	0.0	0.0	0.0	0.0	18.0	22.0	2.6	0.0	0.0	4.5	4.9	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	80.7	80.5	83.8	0.0	0.0	67.4	58.5	DEGS



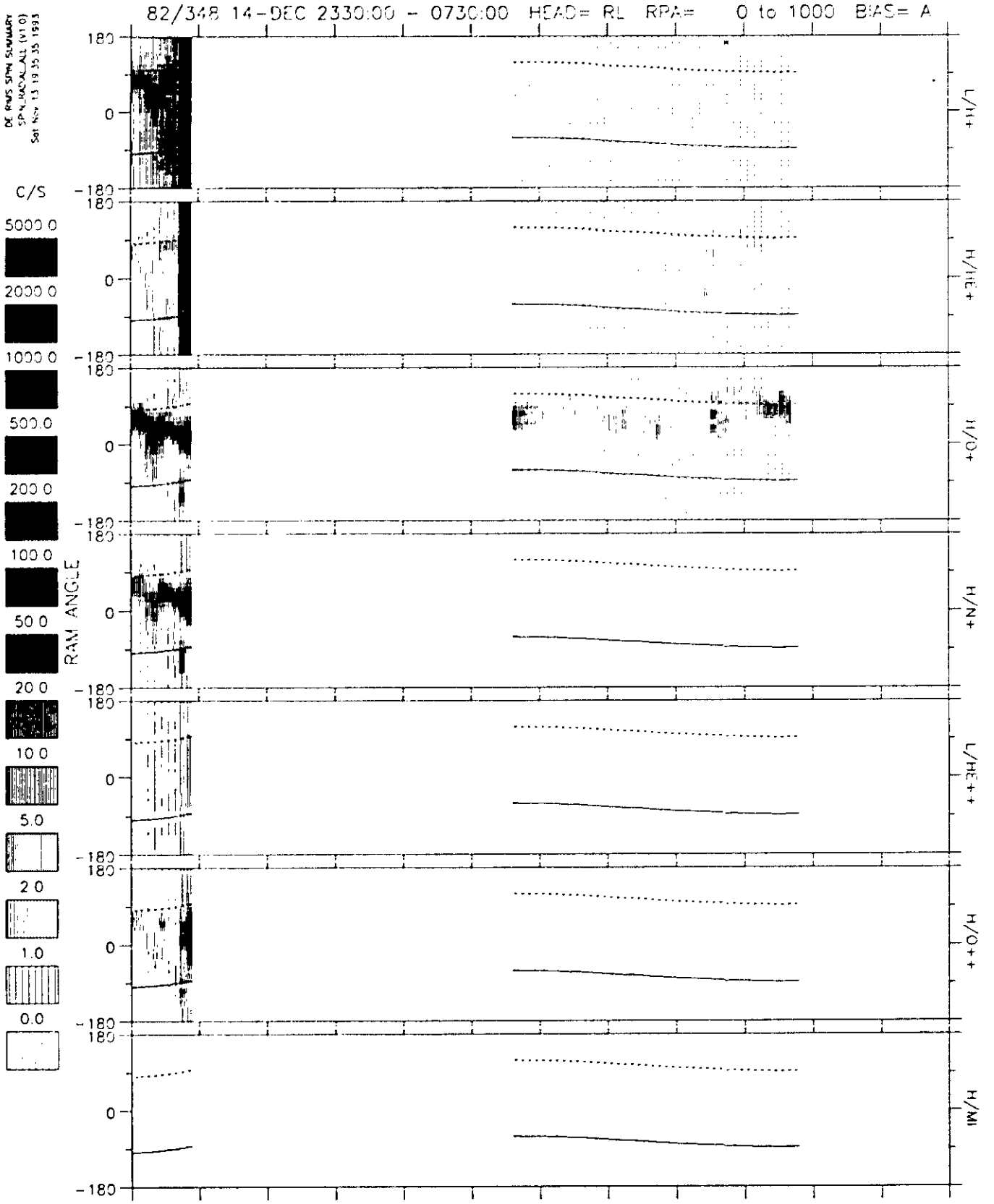
TIME	0000	0000	0000	0540	0620	0000	0000	0000	0900	0940	0000	HHMM
RE	0.0	0.0	0.0	3.0	3.9	0.0	0.0	0.0	4.3	3.8	0.0	RE
L	0.0	0.0	0.0	31.1	100.0	0.0	0.0	0.0	6.6	4.4	0.0	
MLT	0.0	0.0	0.0	19.6	1.3	0.0	0.0	0.0	5.5	5.6	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	0.00	0.00	0.00	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	79.7	84.5	0.0	0.0	0.0	67.0	61.6	0.0	DEGS

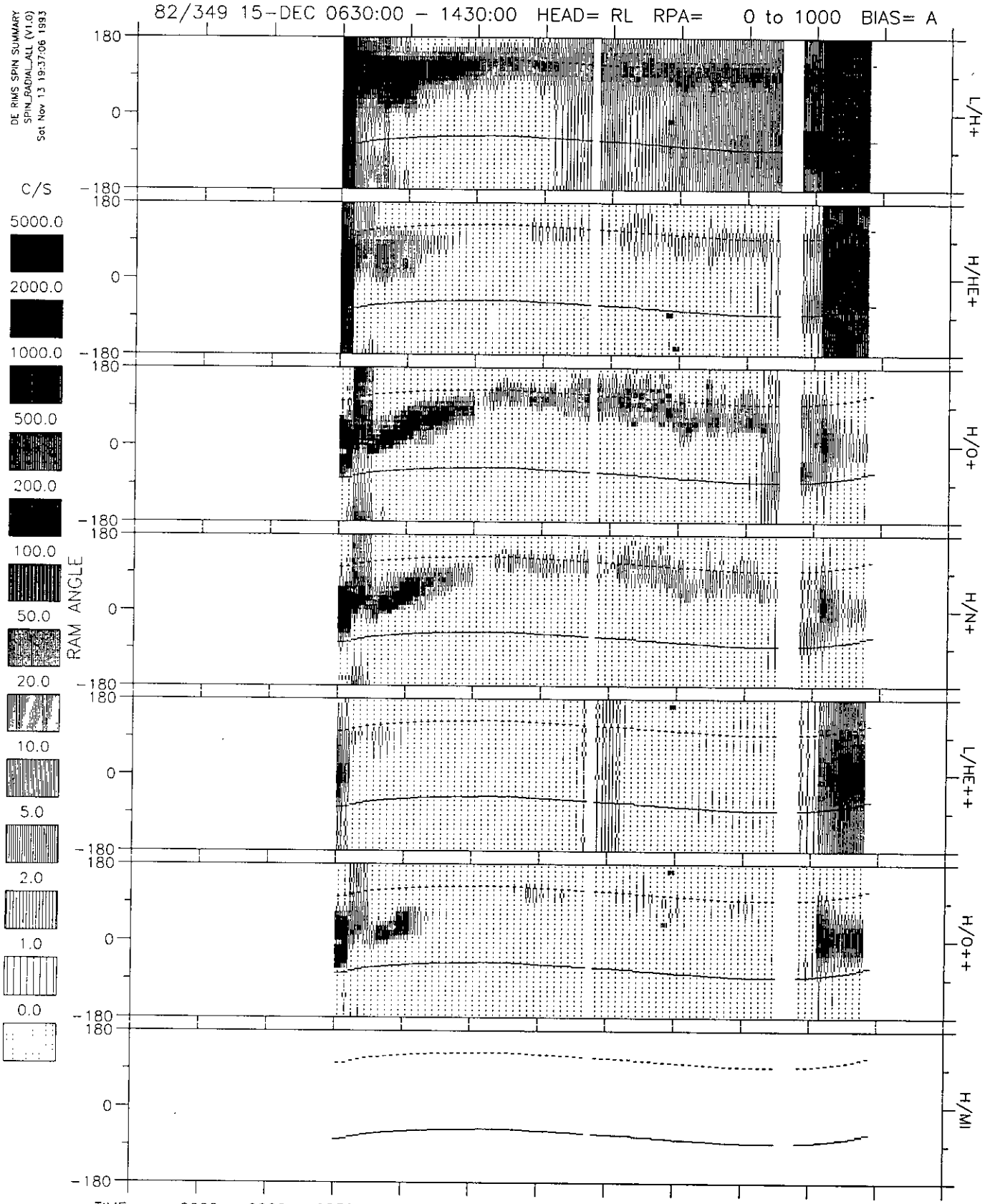


TIME	0000	0000	0000	0000	0000	0000	1440	1520	1600	1640	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.6	4.2	3.6	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	19.7	12.7	8.2	5.0	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.4	6.0	5.7	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	77.0	73.7	69.6	63.5	0.0	DEGS

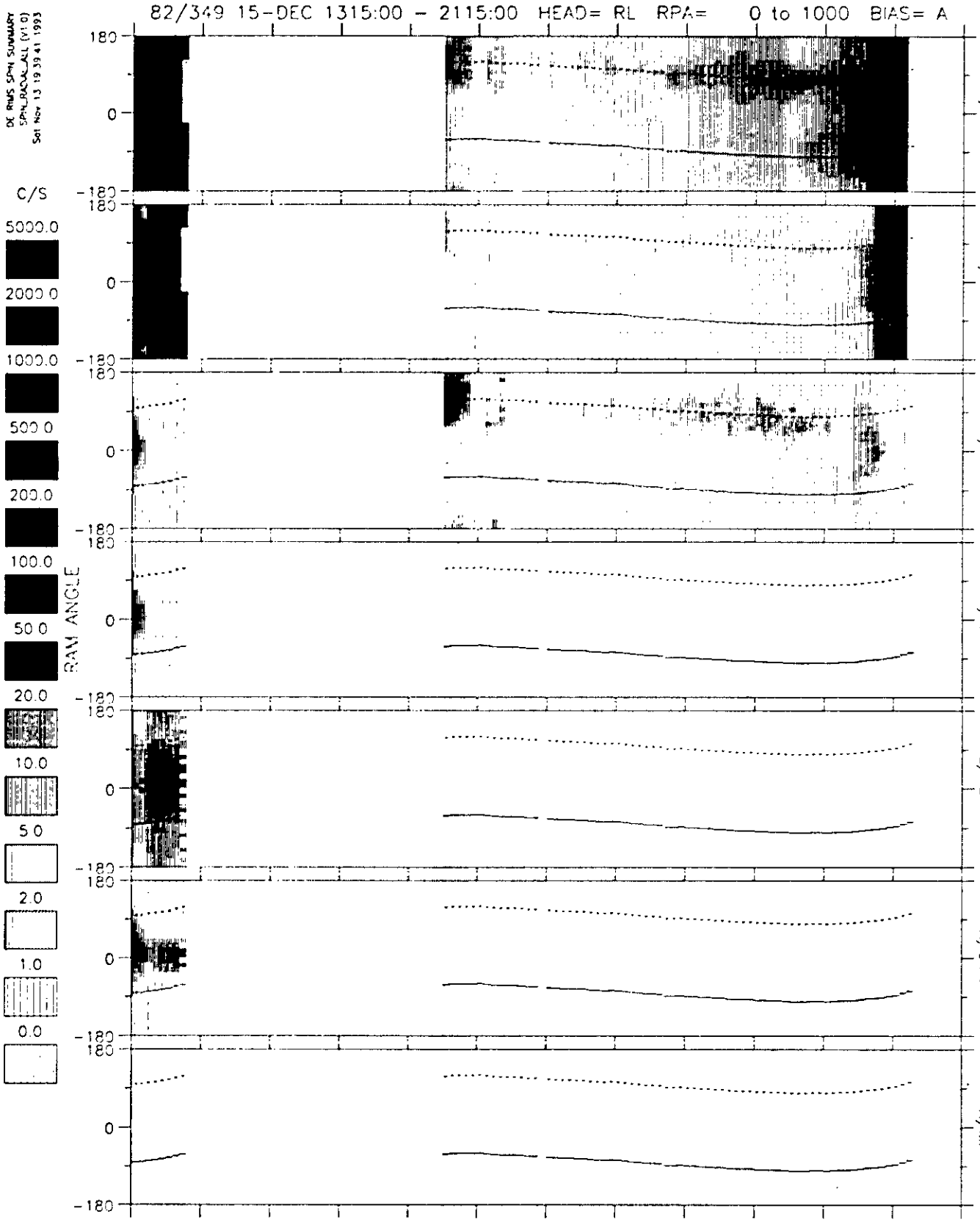


TIME	0000	0000	1915	1955	2035	0000	0000	0000	0000	2355	0000	HHMM
RE	0.0	0.0	2.9	3.8	4.3	0.0	0.0	0.0	0.0	3.1	0.0	RE
L	0.0	0.0	8.3	44.3	100.0	0.0	0.0	0.0	0.0	3.8	0.0	
MLT	0.0	0.0	16.4	15.9	13.6	0.0	0.0	0.0	0.0	4.8	0.0	HRS
MLAT	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	0.00	*****	0.00	DEGS
INVLAT	0.0	0.0	69.7	81.3	87.9	0.0	0.0	0.0	0.0	59.0	0.0	DEGS

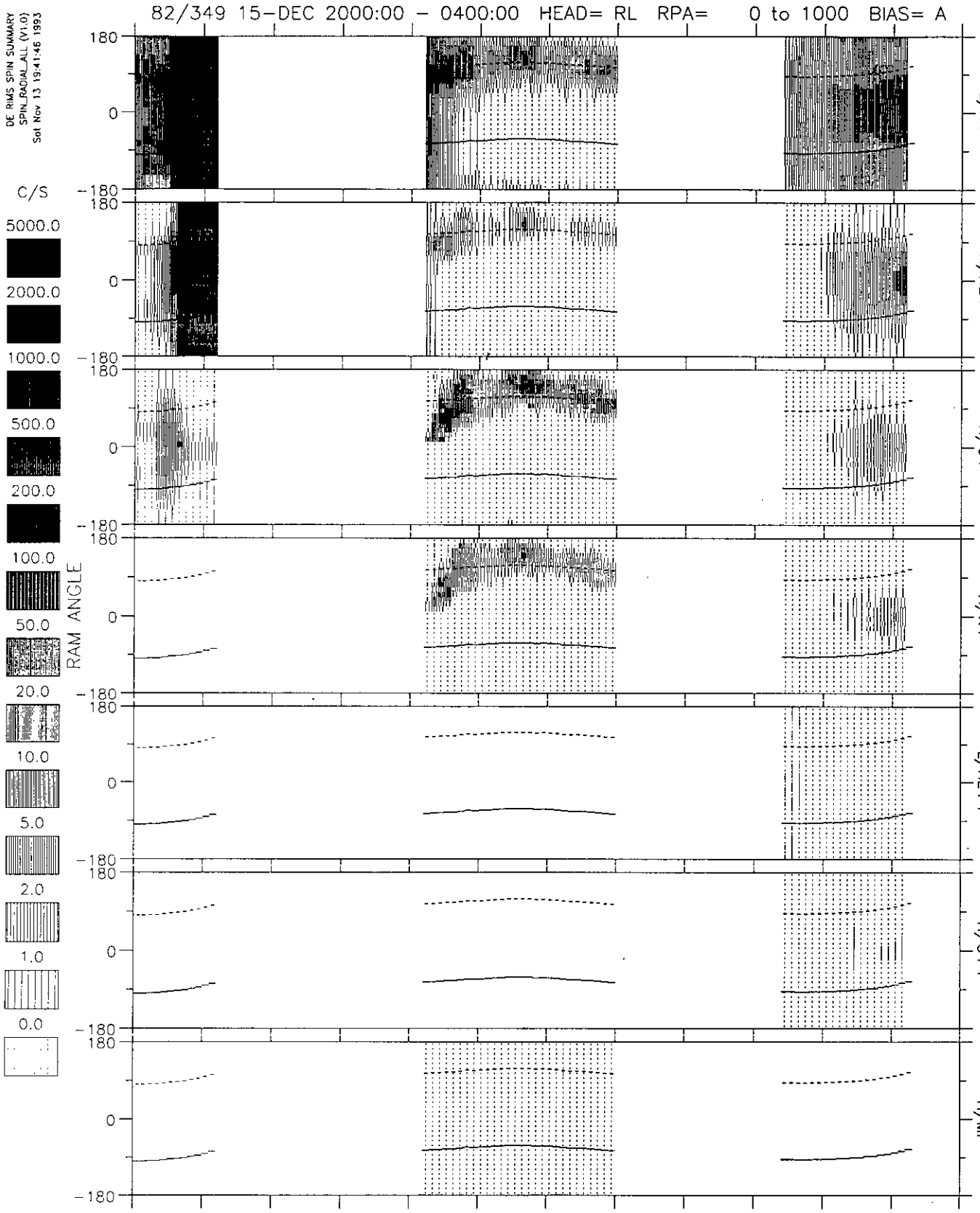

82/348 14-DEC 2330:00 - 0730:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RPWS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Nov 13 19:35:35 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/N+
TIME 0000 0000 0000 0000 0000 0330 0410 0450 0530 0000 0000 HHMM
RE 0.0 0.0 0.0 0.0 0.0 4.4 4.6 4.6 4.4 0.0 0.0 RE
L 0.0 0.0 0.0 0.0 0.0 64.0 26.3 13.6 8.1 0.0 0.0
MLT 0.0 0.0 0.0 0.0 0.0 1.7 3.4 4.2 4.7 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 82.8 78.8 74.3 69.4 0.0 0.0 DEGS



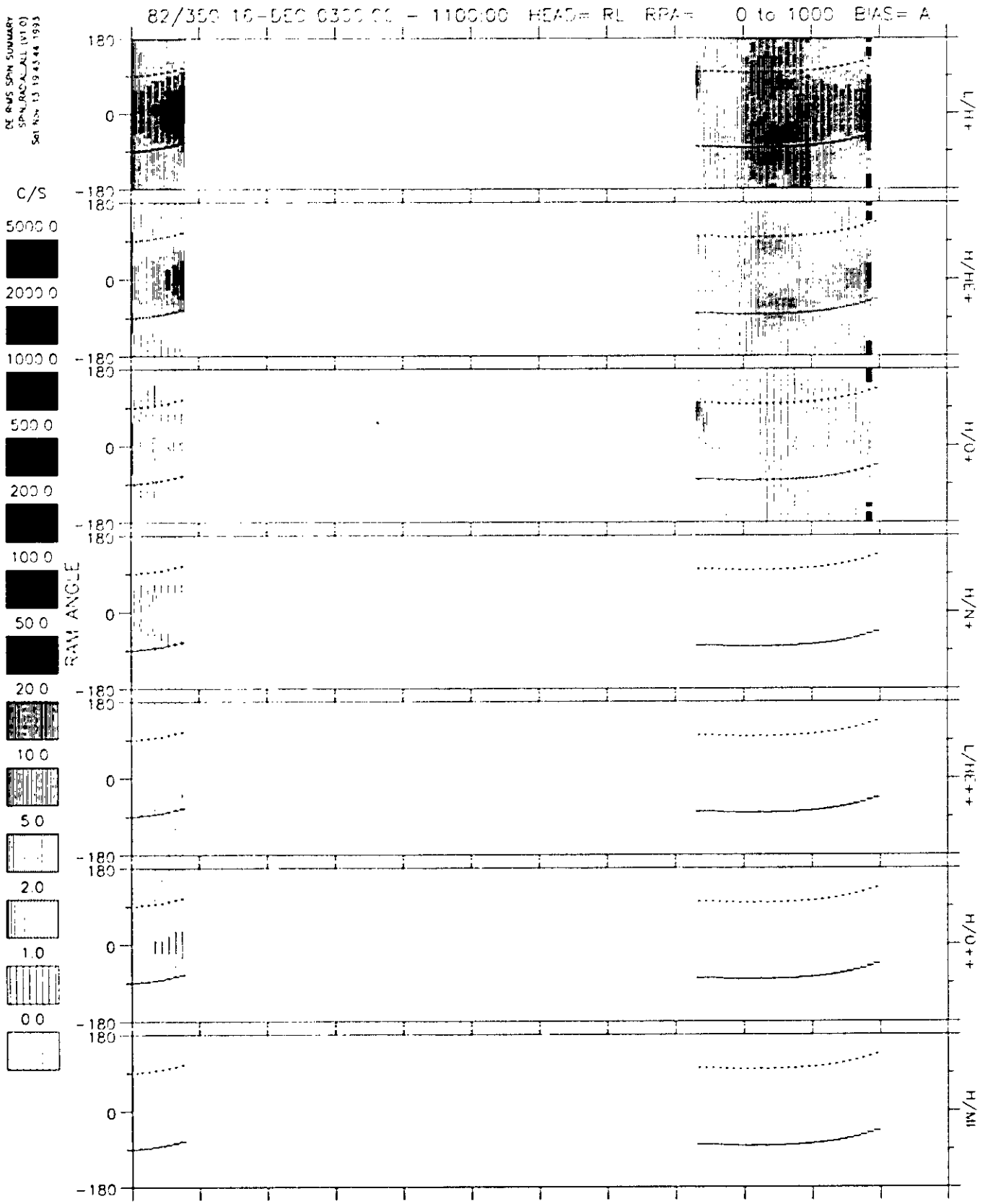
TIME	0000	0000	0830	0910	0950	1030	1110	1150	1230	1310	0000	HHMM
RE	0.0	0.0	2.0	3.2	4.0	4.5	4.6	4.6	4.3	3.6	0.0	RE
L	0.0	0.0	5.0	-0.0	-0.0	26.6	14.5	9.5	6.5	4.3	0.0	
MLT	0.0	0.0	17.8	18.6	5.7	5.9	6.0	5.9	5.9	5.7	0.0	HRS
MLAT	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	63.3	-0.0	-0.0	78.8	74.8	71.0	66.8	61.2	0.0	DEGS

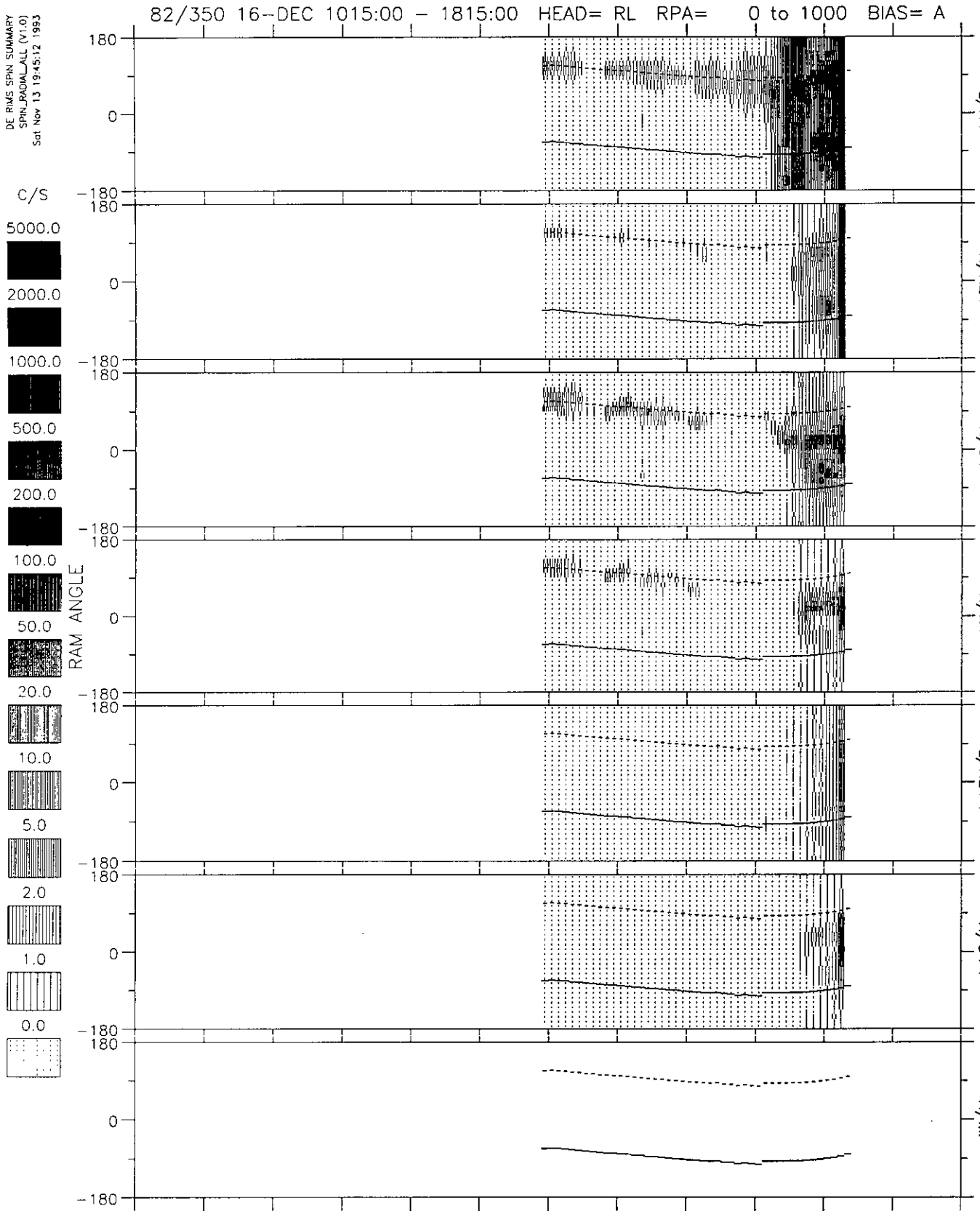


TIME	0000	0000	0000	0000	1635	1715	1755	1835	1915	1955	2035	HHMM
RE	0.0	0.0	0.0	0.0	3.9	4.4	4.6	4.6	4.3	3.8	2.8	RE
L	0.0	0.0	0.0	0.0	79.9	100.0	52.5	20.3	13.7	7.0	3.3	
MLT	0.0	0.0	0.0	0.0	12.9	9.1	7.2	6.2	5.6	5.3	5.0	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	83.6	84.4	82.1	78.8	74.3	67.8	56.4	DEGS

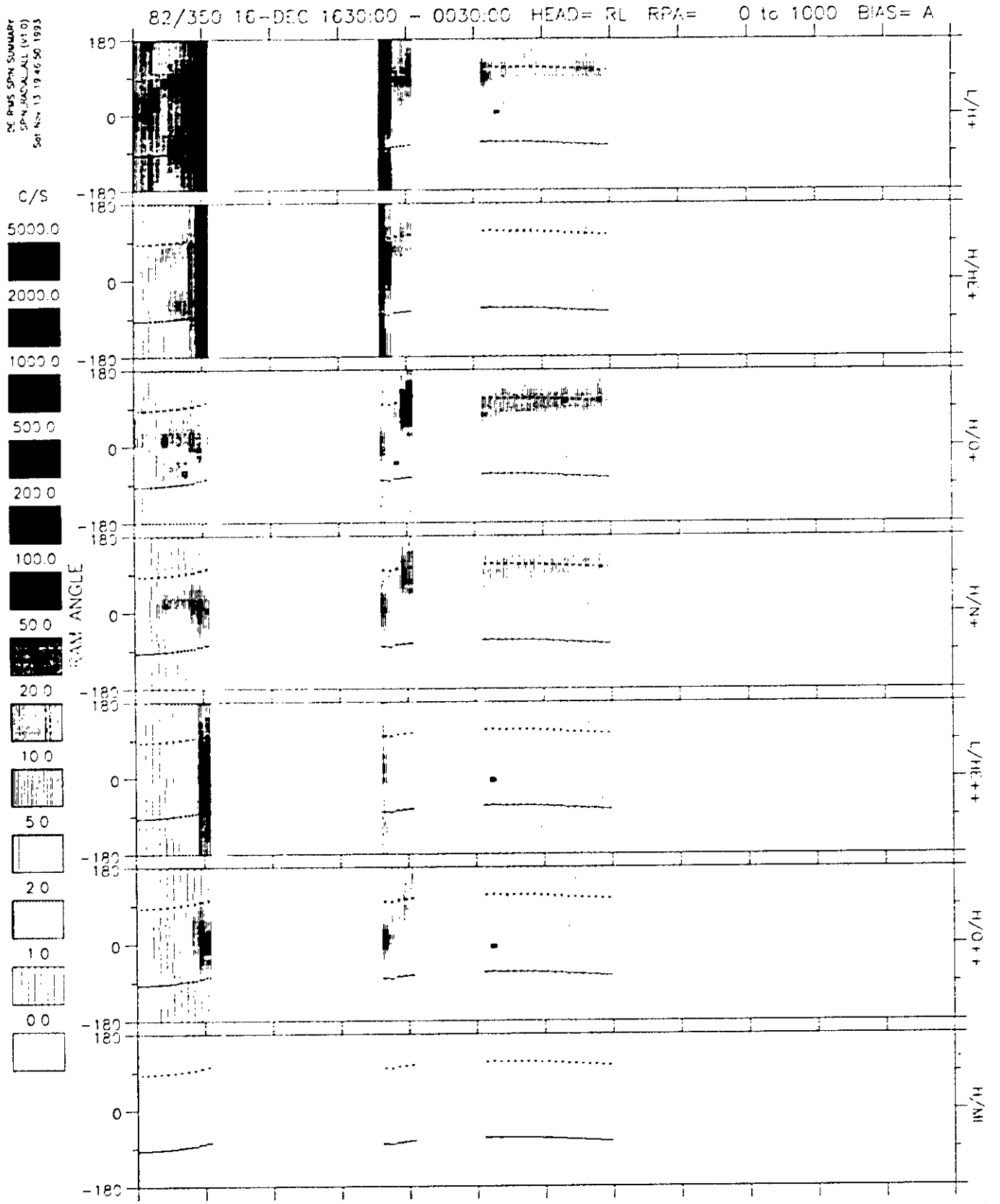


TIME	2040	0000	0000	0000	2320	0000	0000	0000	0000	0240	0320	HHMM
RE	2.7	0.0	0.0	0.0	3.8	4.4	0.0	0.0	0.0	3.9	3.0	RE
L	3.0	0.0	0.0	0.0	47.1	100.0	0.0	0.0	0.0	6.3	3.4	
MLT	5.0	0.0	0.0	0.0	18.1	22.5	0.0	0.0	0.0	4.4	4.8	HRS
MLAT	*****	0.00	0.00	0.00	*****	*****	0.00	0.00	0.00	*****	*****	DEGS
INVLAT	54.4	0.0	0.0	0.0	81.6	86.5	0.0	0.0	0.0	66.6	57.1	DEGS

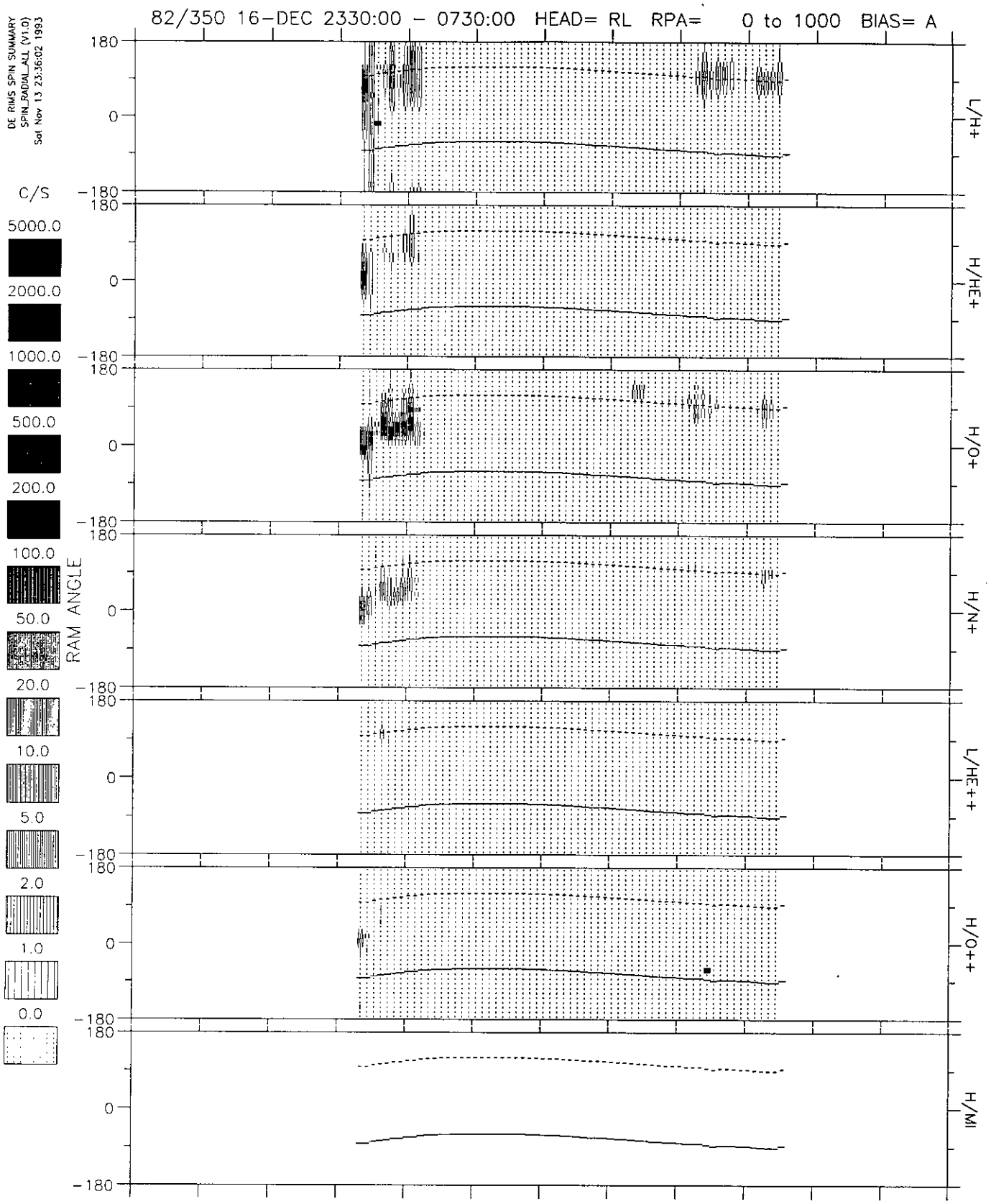

82/350 16-DEC 0300:00 - 1100:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RWS SPIN SUMMARY
SPIN_RACAL_ALL (V1.0)
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/N+
TIME 0000 0000 0000 0000 0000 0000 0000 0000 0900 0940 0000 HHMM
RE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 4.3 3.7 0.0 RE
L 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 6.3 4.2 0.0
MLT 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 5.4 5.5 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 0.0 66.5 60.8 0.0 DEGS



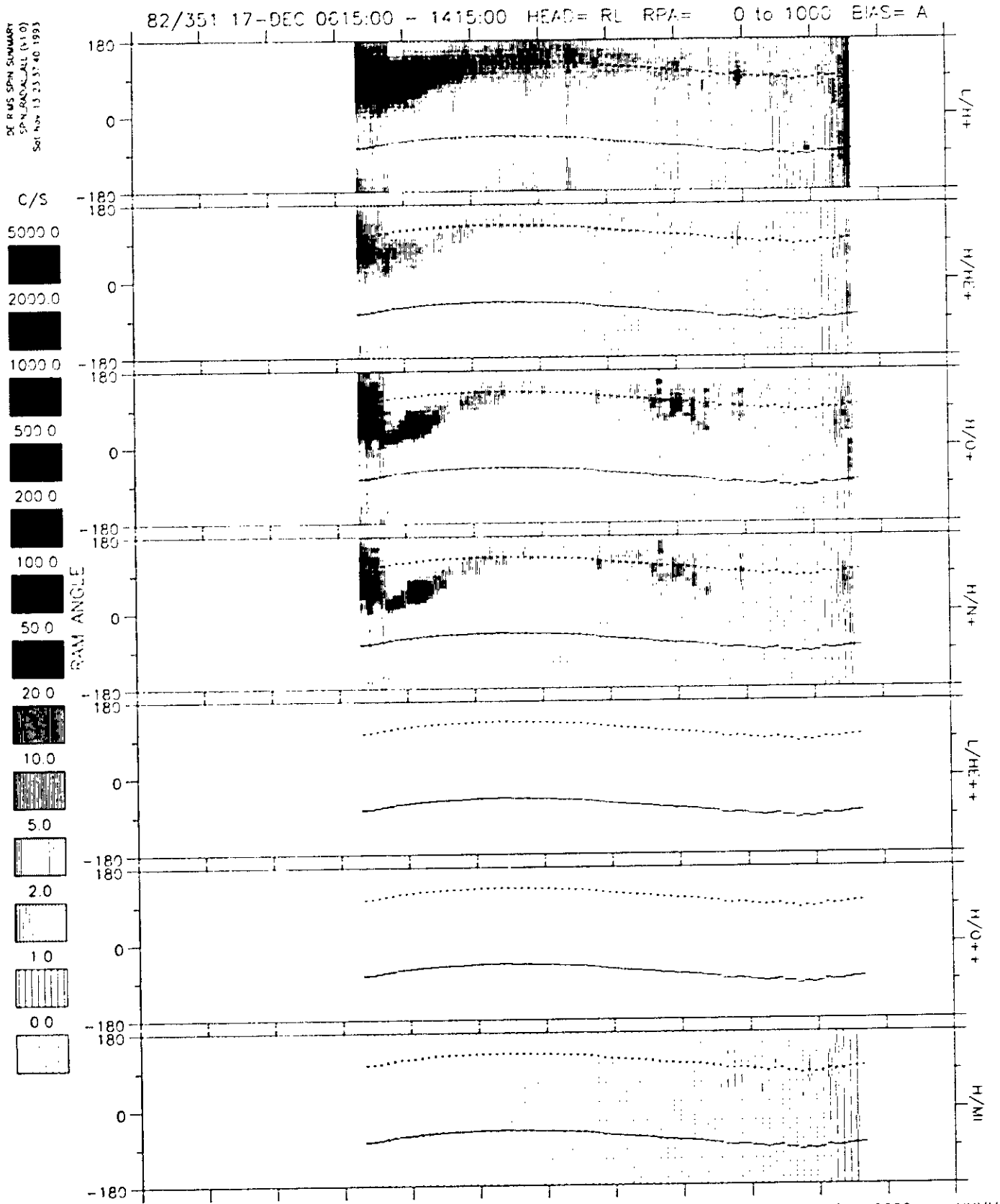
TIME	0000	0000	0000	0000	0000	1415	1455	1535	1615	1655	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	4.6	4.6	4.4	4.0	3.2	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	26.6	16.2	10.5	6.6	3.8	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	6.9	6.5	6.1	5.8	5.4	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	78.8	75.6	72.0	67.1	58.9	0.0	DEGS



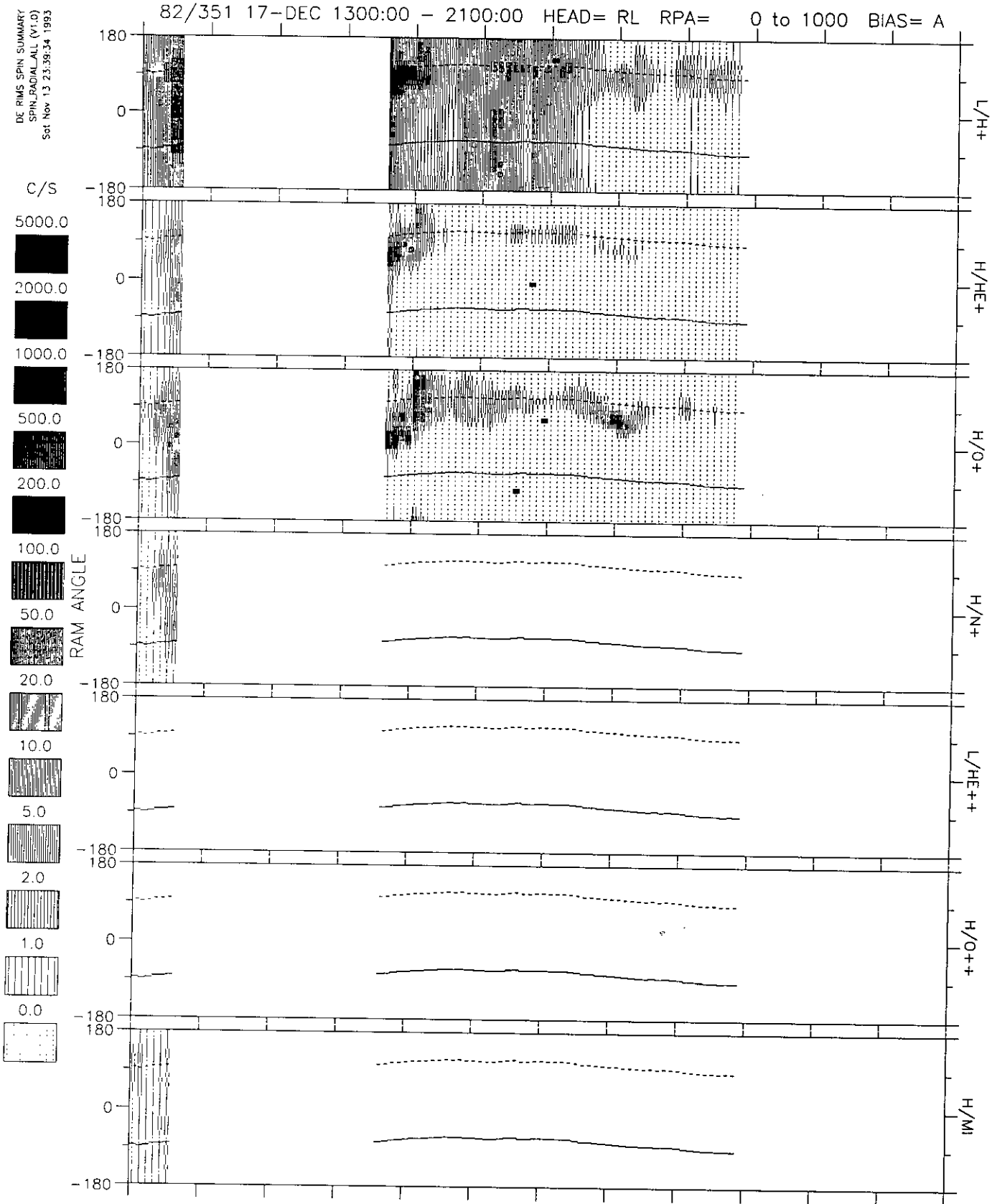
TIME	17:0	0000	0000	19:0	0000	2030	0000	0000	0000	0000	0000	HHMM
RE	2.8	0.0	0.0	2.8	0.0	4.3	0.0	0.0	0.0	0.0	0.0	RE
L	3.1	0.0	0.0	7.8	0.0	100.0	0.0	0.0	0.0	0.0	0.0	
MLT	5.3	0.0	0.0	16.3	0.0	13.9	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	*****	0.00	0.00	*****	0.00	*****	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	55.3	0.0	0.0	69.1	0.0	87.8	0.0	0.0	0.0	0.0	0.0	DEGS



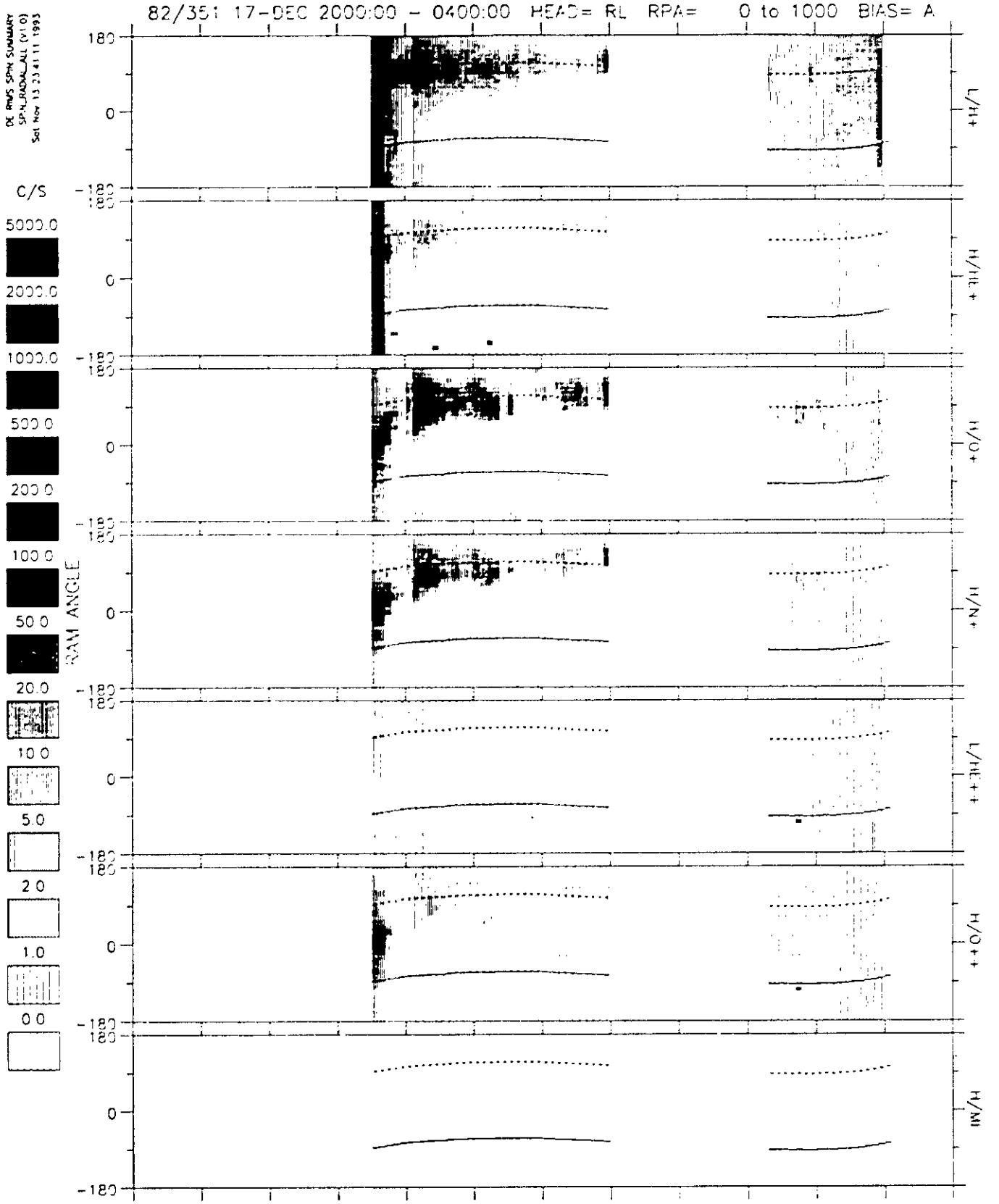
TIME	0000	0000	0000	0210	0250	0330	0410	0450	0530	0000	0000	HHMM
RE	0.0	0.0	0.0	3.1	3.9	4.4	4.6	4.6	4.3	0.0	0.0	RE
L	0.0	0.0	0.0	15.2	78.6	58.4	24.5	12.9	7.6	0.0	0.0	
MLT	0.0	0.0	0.0	18.4	21.5	1.8	3.4	4.1	4.6	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	75.2	83.5	82.5	78.3	73.8	68.8	0.0	0.0	DEGS

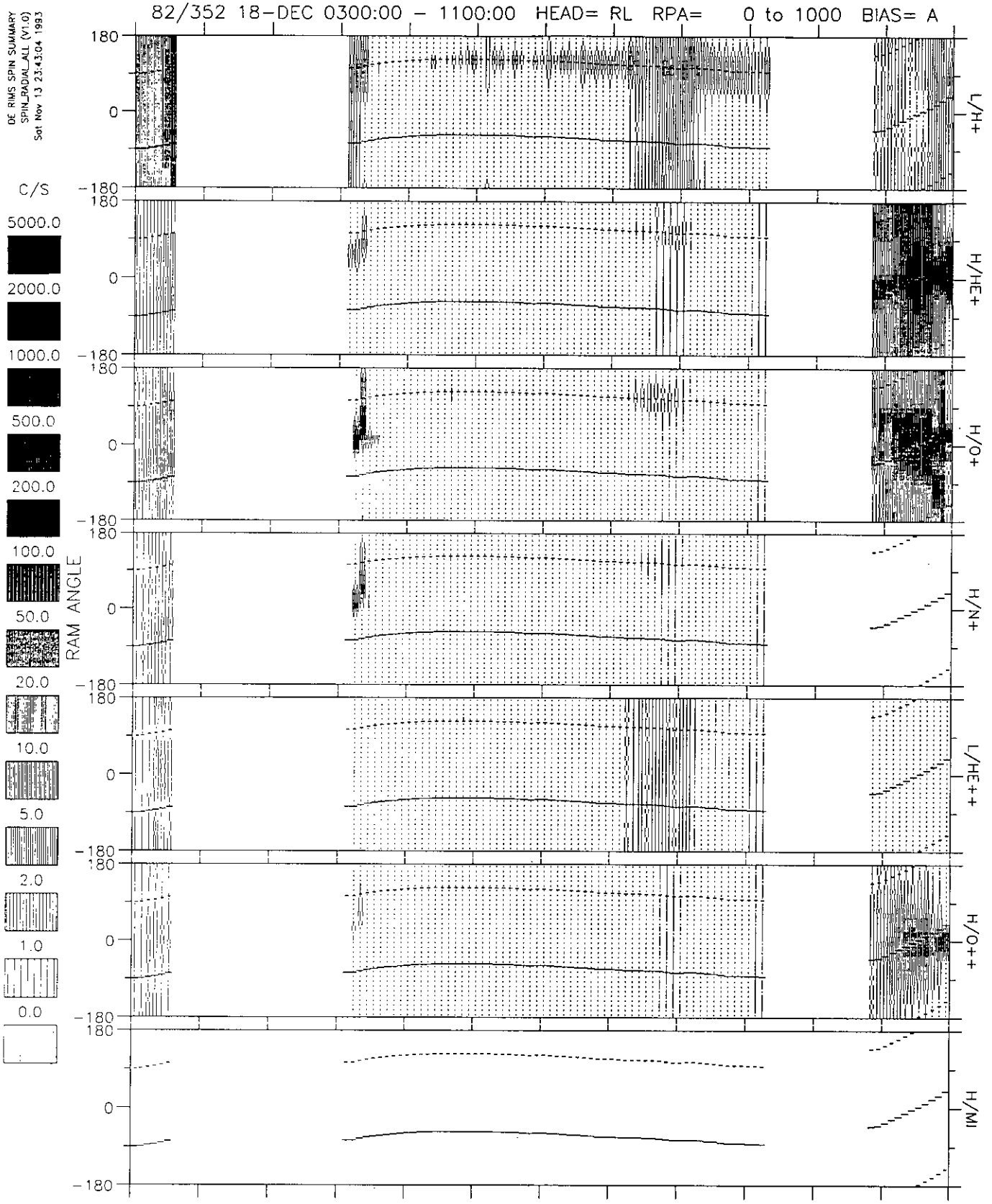


TIME	0000	0000	0000	0855	0935	1015	1055	1135	1215	1255	0000	HHMM
RE	0.0	0.0	0.0	3.0	3.8	4.4	4.6	4.6	4.4	3.8	0.0	RE
L	0.0	0.0	0.0	70.9	100.0	34.7	17.1	10.7	7.2	4.8	0.0	
MLT	0.0	0.0	0.0	18.0	5.4	5.8	5.8	5.8	5.8	5.6	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	83.2	86.0	80.2	76.0	72.2	68.2	63.0	0.0	DEGS

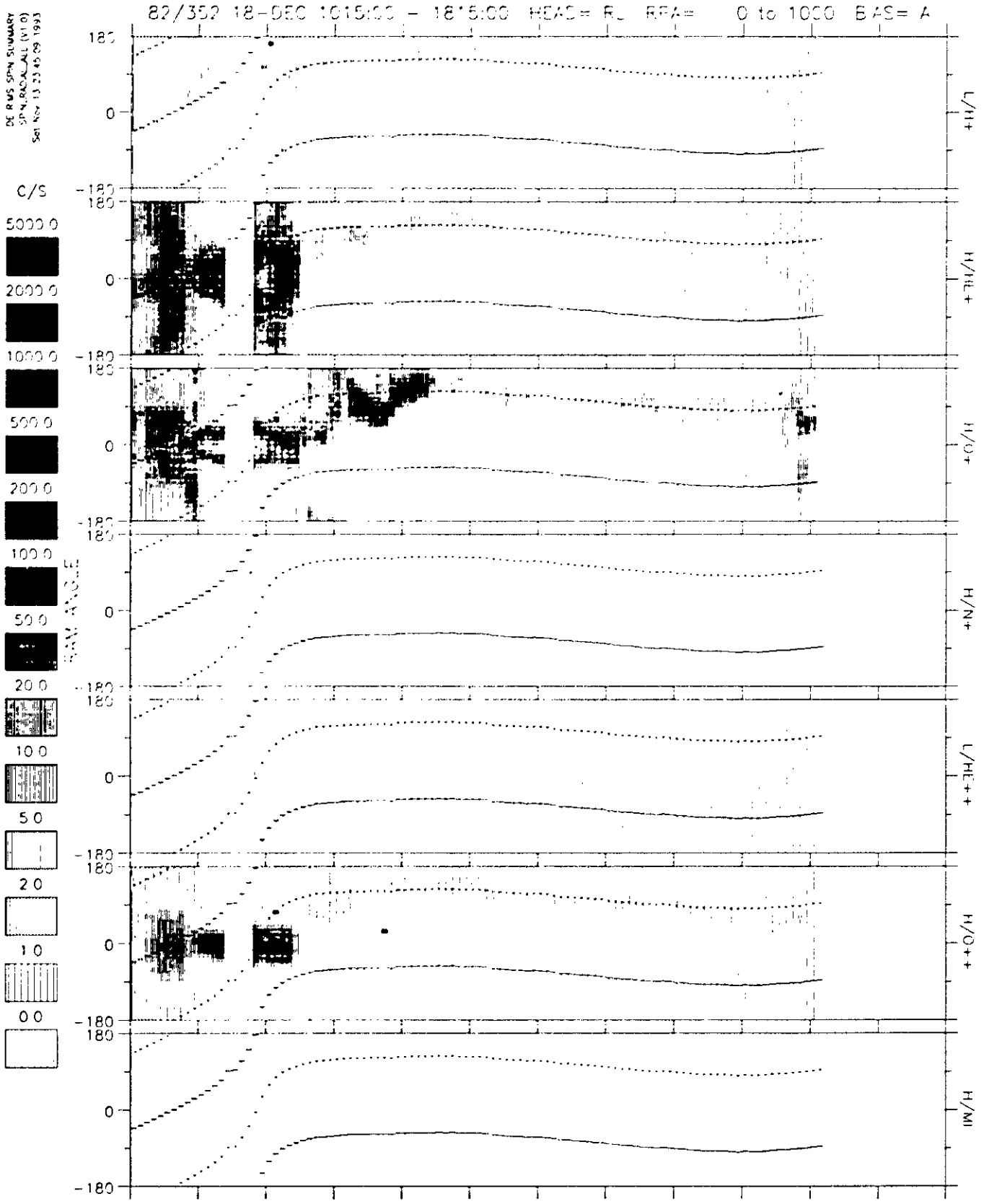


TIME	0000	0000	0000	1540	1620	1700	1740	1820	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	2.8	3.7	4.3	4.6	4.6	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	11.3	56.0	100.0	67.7	33.9	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	15.8	13.7	10.0	7.5	6.3	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	72.7	82.3	84.7	83.0	80.1	0.0	0.0	0.0	DEGS

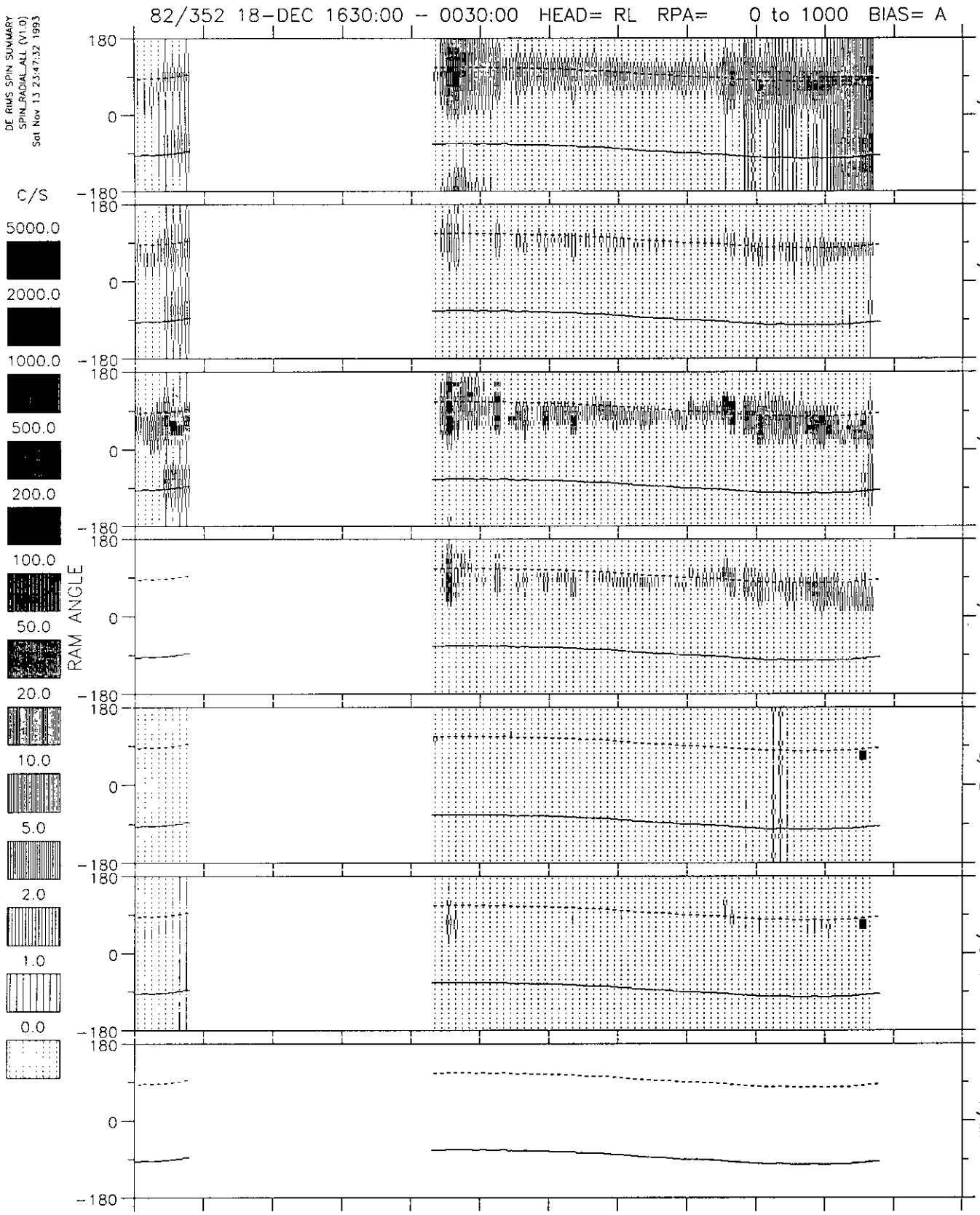

82/351 17-DEC 2000:00 - 0400:00 HEAD= RL RPA= 0 to 1000 BIAS= A
DE RWS SPIN SUMMARY
SPIN_RADIAL_ALL (V1.0)
Sat Nov 13 23:41:11 1993
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
RAM ANGLE
180
0
-180
L/H+
H/HL+
H/O+
H/N+
L/H++
H/O++
H/M
TIME 0000 0000 0000 2240 2320 0000 0000 0000 0000 0240 0330 HHMM
RE 0.0 0.0 0.0 3.1 3.9 4.4 0.0 0.0 0.0 3.8 2.9 RE
L 0.0 0.0 0.0 9.9 57.1 100.0 0.0 0.0 0.0 5.9 3.2
MLT 0.0 0.0 0.0 17.1 18.2 23.0 0.0 0.0 0.0 4.3 4.7 HRS
MLAT 0.00 0.00 0.00 ***** ***** ***** 0.00 0.00 0.00 ***** ***** DEGS
INVLAT 0.0 0.0 0.0 71.5 82.4 85.4 0.0 0.0 0.0 65.7 56.3 DEGS



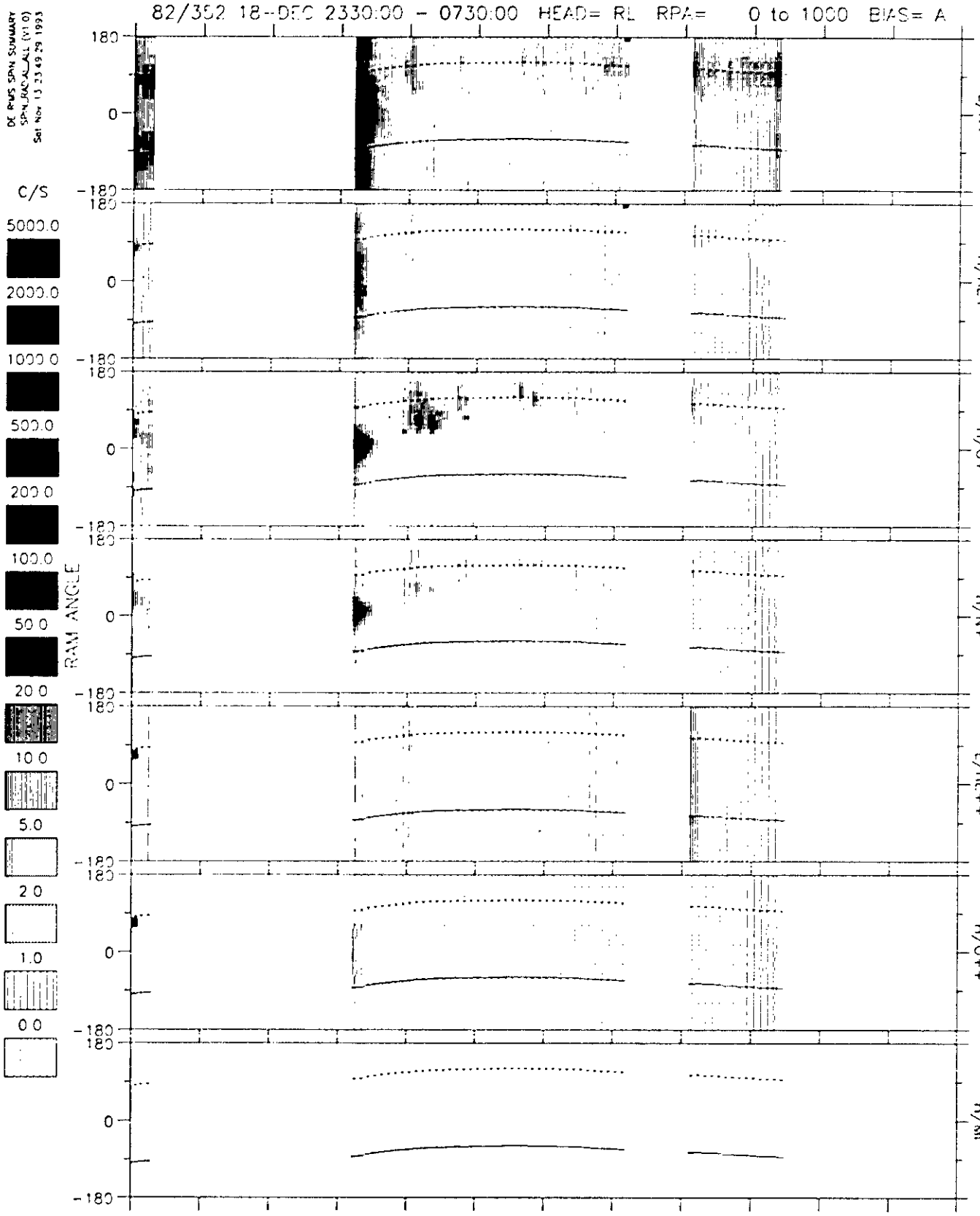
TIME	0000	0000	0000	0540	0620	0700	0740	0820	0900	0000	1020	HHMM
RE	0.0	0.0	0.0	3.3	4.0	4.5	4.7	4.6	4.2	0.0	2.6	RE
L	0.0	0.0	0.0	57.4	89.5	29.3	15.0	9.2	6.1	0.0	2.7	
MLT	0.0	0.0	0.0	20.0	2.0	4.1	4.7	5.1	5.3	0.0	5.3	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	5.37	DEGS
INVLAT	0.0	0.0	0.0	82.4	83.9	79.3	75.0	70.8	66.0	0.0	52.2	DEGS



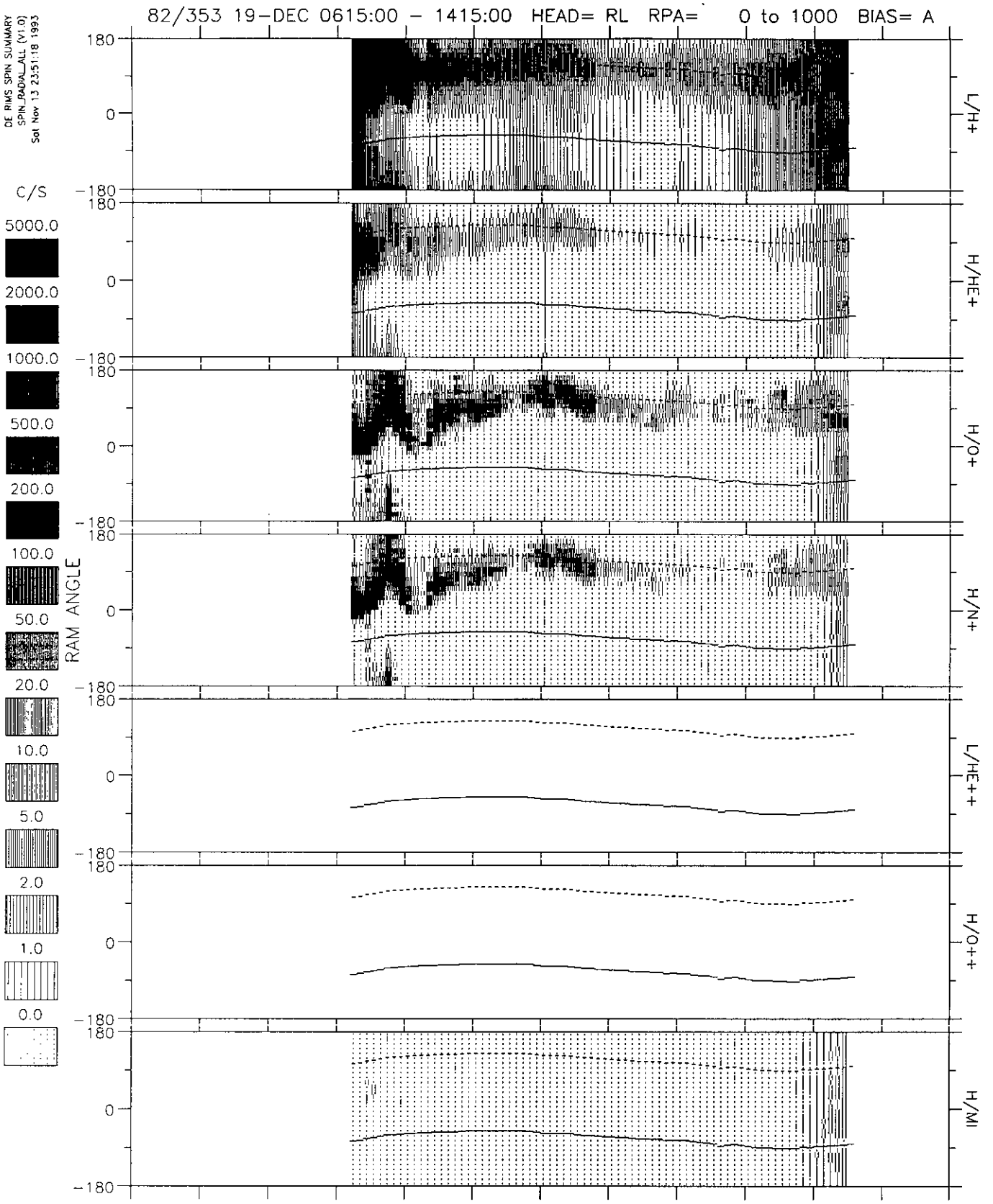
TIME	1055	1135	1215	1255	1335	1415	1455	1535	1615	1655	0000	HHMM
RE	1.4	1.6	2.9	3.8	4.3	4.6	4.6	4.4	3.9	3.0	0.0	RE
L	5.2	2.0	27.9	100.0	51.6	25.9	15.9	10.2	6.3	3.5	0.0	
MLT	4.9	17.1	15.8	10.7	7.6	6.8	6.3	5.9	5.6	5.2	0.0	HRS
MLAT	57.92	*****	*****	*****	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	64.0	44.4	79.1	85.1	82.0	78.7	75.5	71.8	66.5	57.6	0.0	DEGS



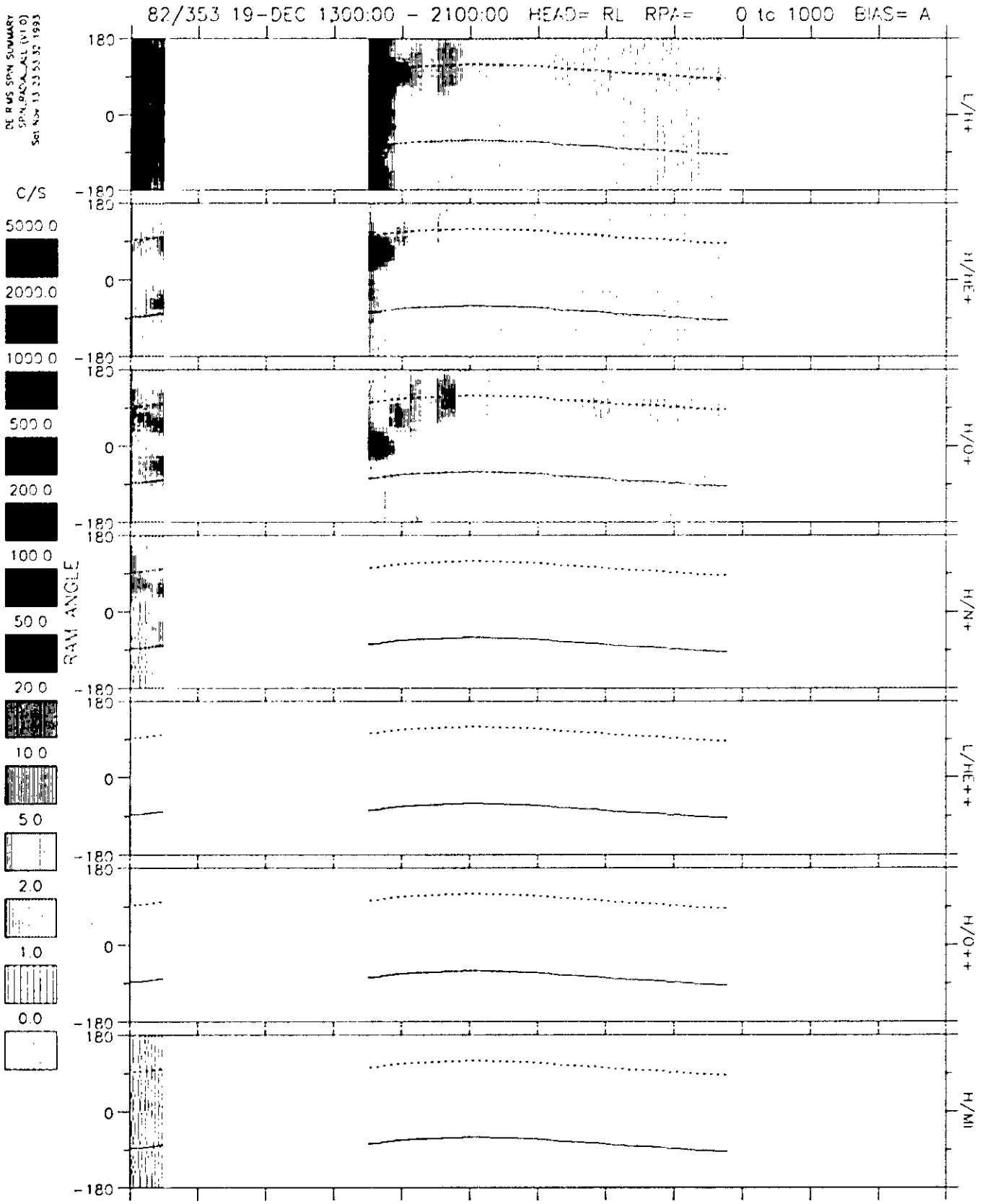
TIME	0000	0000	0000	0000	1950	2030	2110	2150	2230	2310	0000	HHMM
RE	0.0	0.0	0.0	0.0	3.9	4.4	4.6	4.6	4.3	3.8	0.0	RE
L	0.0	0.0	0.0	0.0	50.7	100.0	100.0	44.0	16.6	7.5	0.0	
MLT	0.0	0.0	0.0	0.0	15.6	13.4	5.0	4.4	4.3	4.3	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	81.9	88.2	86.2	81.3	75.8	68.6	0.0	DEGS



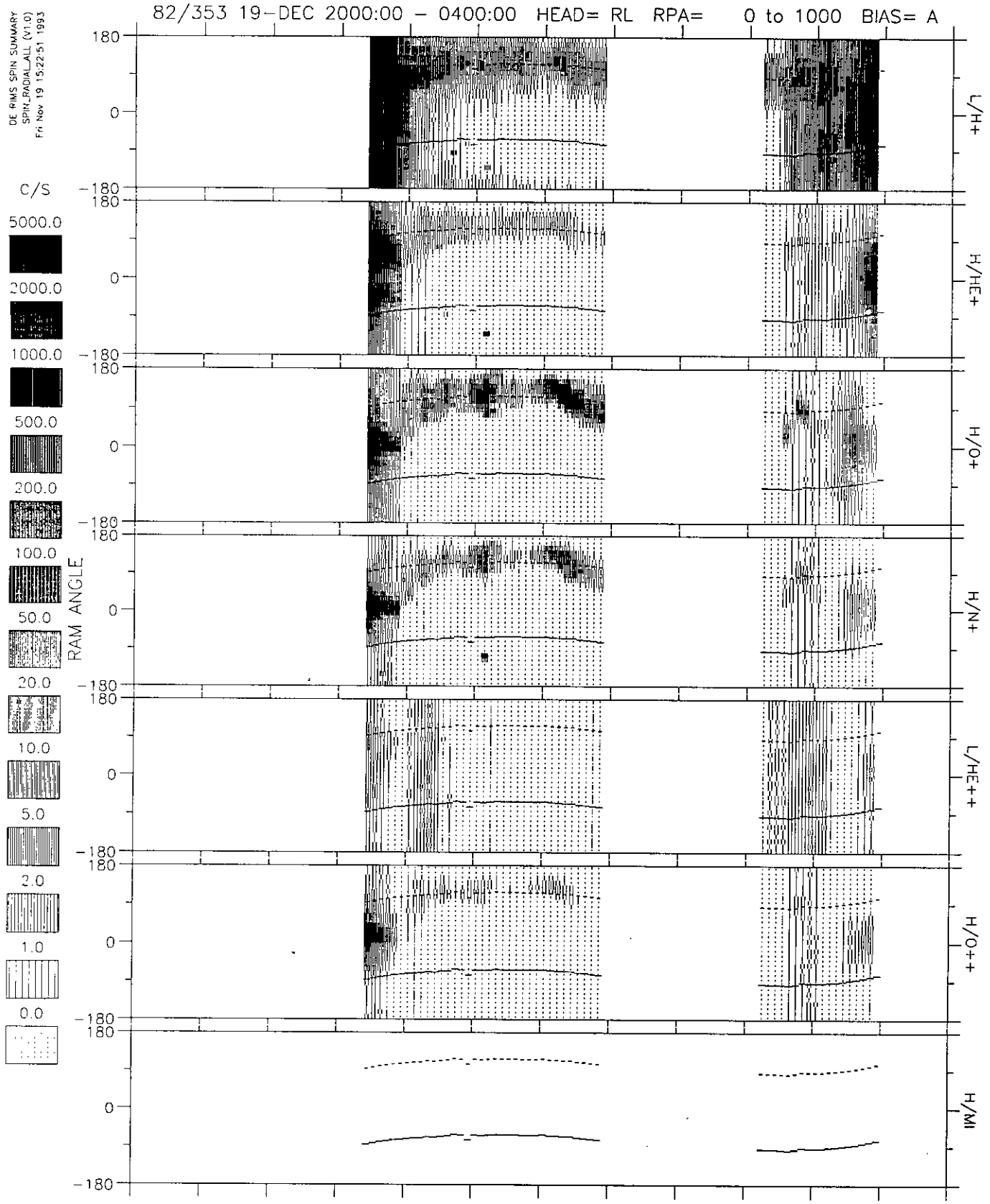
TIME	0000	0000	0000	0210	0250	0330	0410	0000	0530	0000	0000	HHMM
RE	0.0	0.0	0.0	3.2	4.0	4.5	4.6	0.0	4.2	0.0	0.0	RE
L	0.0	0.0	0.0	18.9	86.1	53.4	22.9	0.0	7.3	0.0	0.0	
MLT	0.0	0.0	0.0	18.5	21.9	1.9	3.3	0.0	4.5	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	0.00	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	76.7	83.8	82.1	77.9	0.0	68.2	0.0	0.0	DEGS



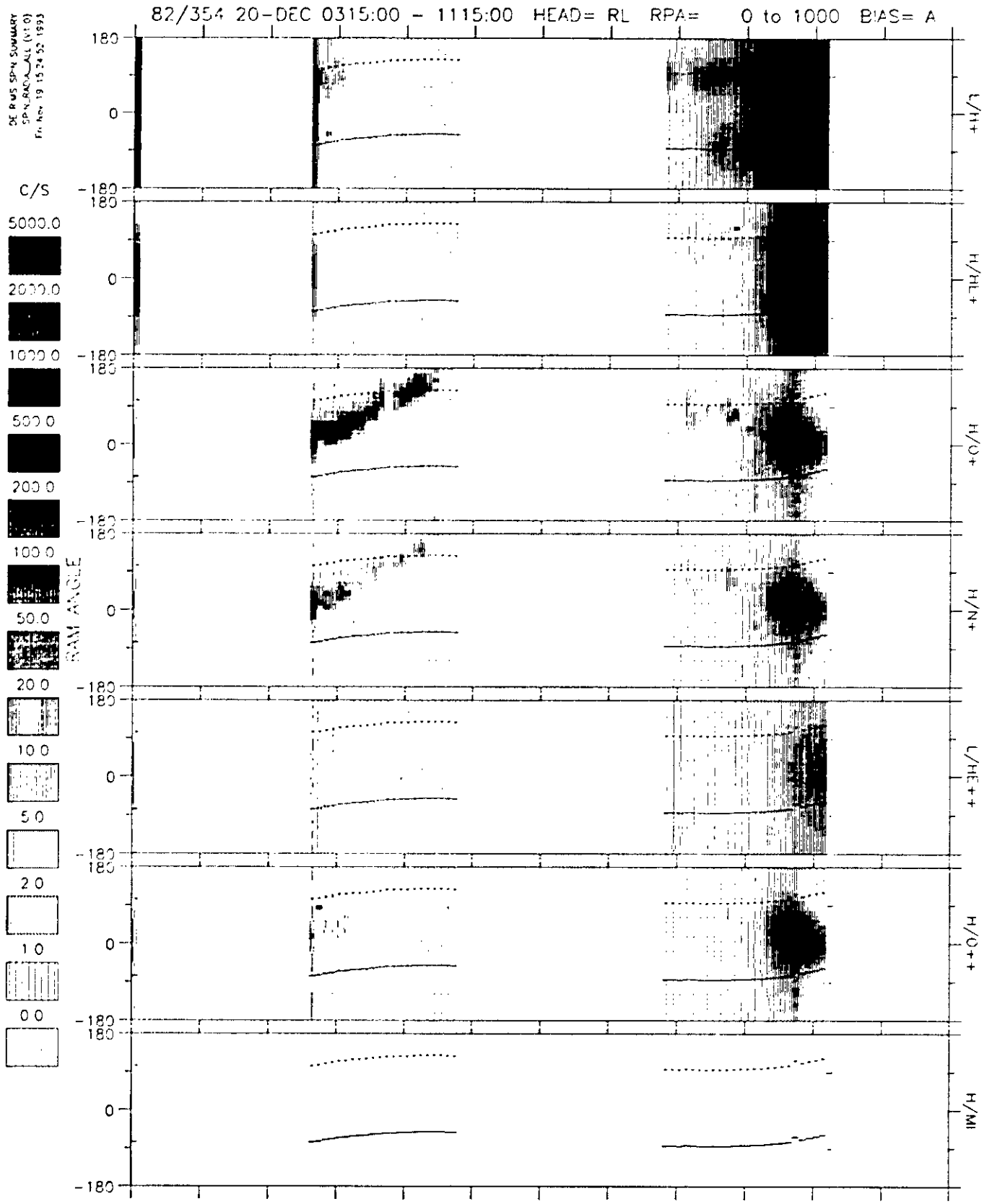
TIME	0000	0000	0000	0855	0935	1015	1055	1135	1215	1255	0000	HHMM
RE	0.0	0.0	0.0	3.1	3.9	4.4	4.6	4.6	4.3	3.7	0.0	RE
L	0.0	0.0	0.0	100.0	100.0	32.5	16.5	10.4	7.0	4.6	0.0	
MLT	0.0	0.0	0.0	17.9	5.4	5.7	5.7	5.7	5.6	5.5	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	84.8	85.5	79.9	75.7	72.0	67.8	62.3	0.0	DEGS



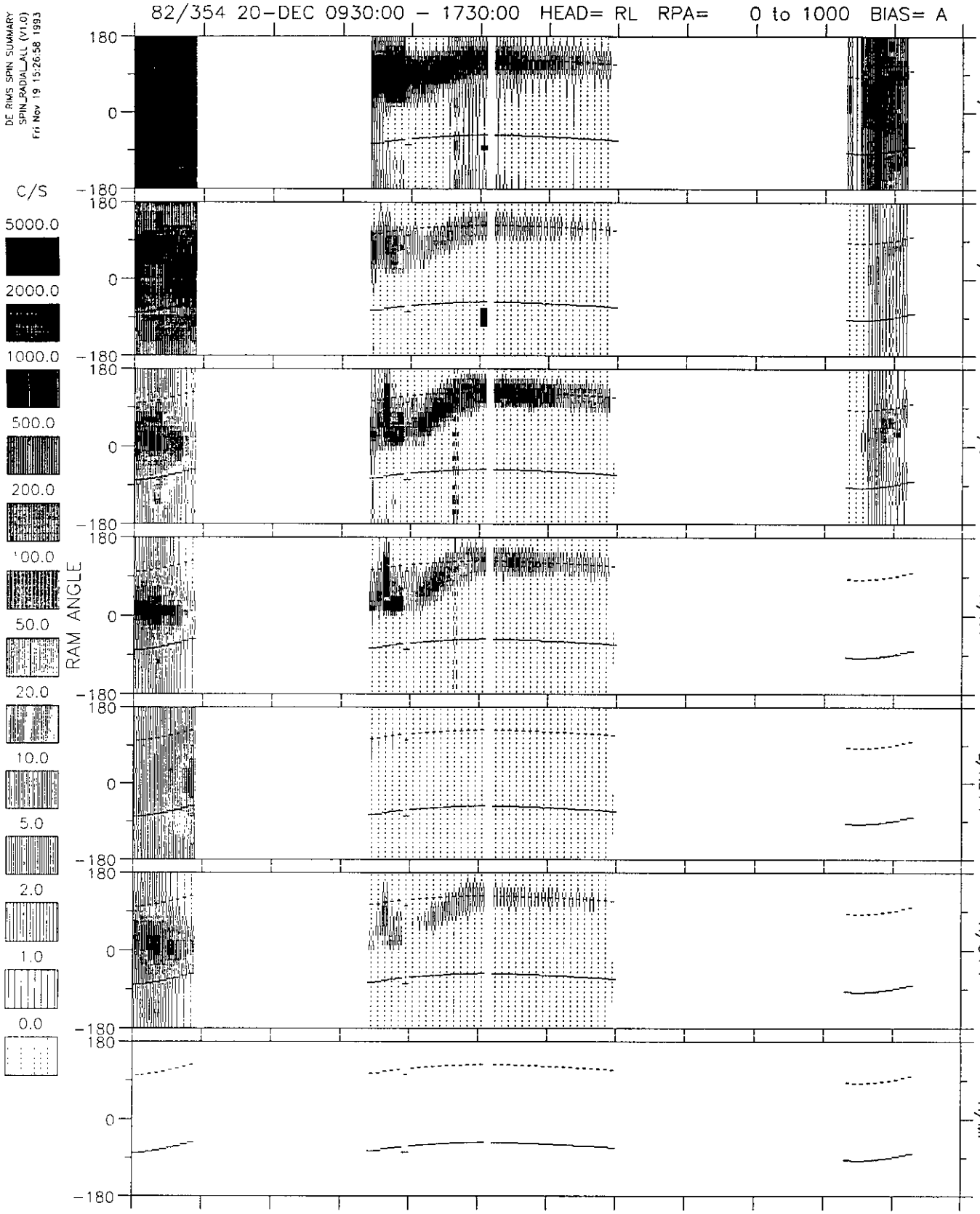
TIME	0000	0000	0000	1540	1620	1700	1740	1820	0000	0000	0000	HHMM
RE	0.0	0.0	0.0	3.0	3.8	4.4	4.6	4.6	0.0	0.0	0.0	RE
L	0.0	0.0	0.0	13.7	63.6	-0.0	66.2	31.6	0.0	0.0	0.0	
MLT	0.0	0.0	0.0	15.5	13.4	9.7	7.2	6.1	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	74.3	82.8	-0.0	82.9	79.8	0.0	0.0	0.0	DEGS



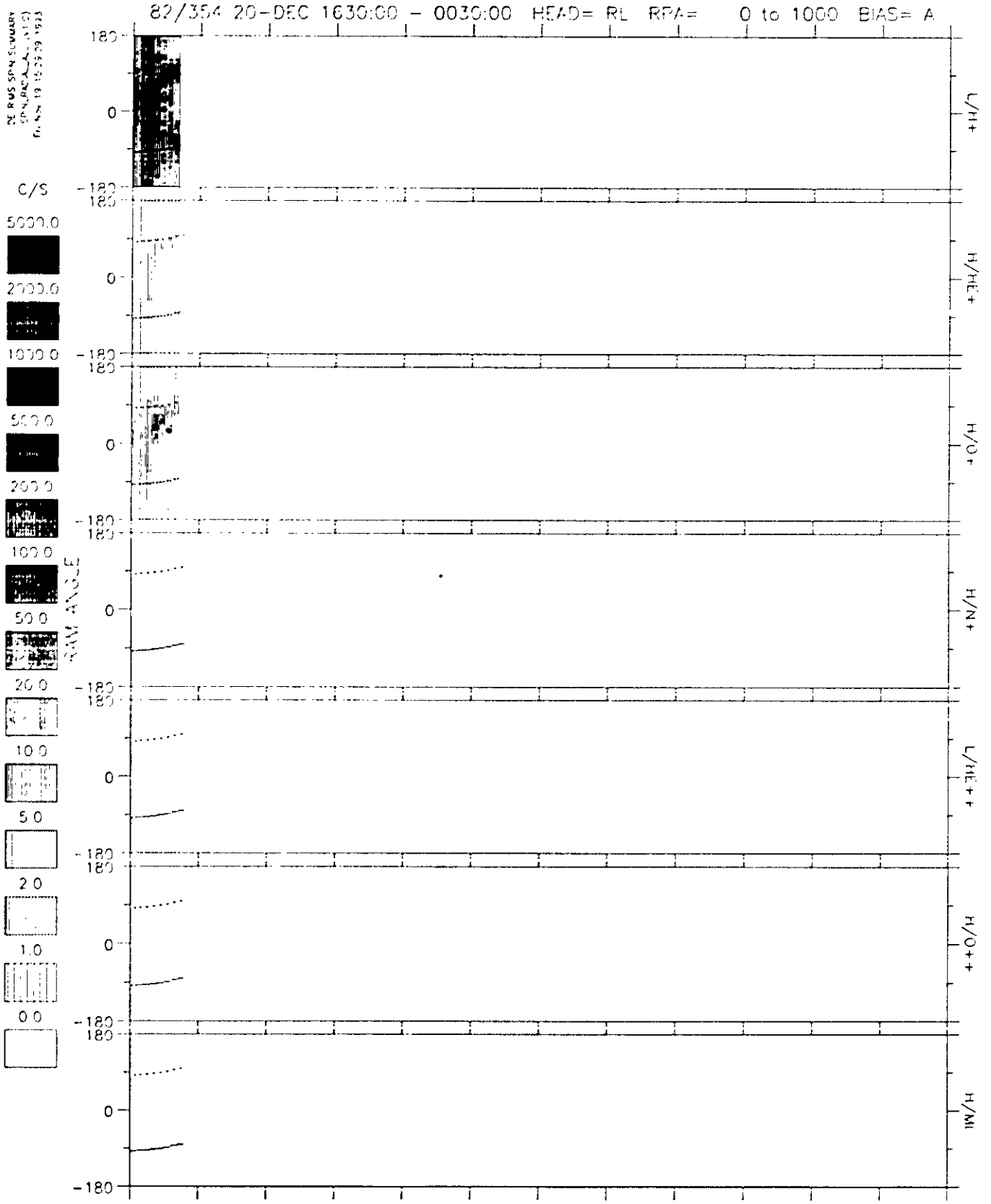
TIME	0000	0000	0000	2240	2320	0000	0000	0000	0000	0240	0000	HHMM
RE	0.0	0.0	0.0	3.2	4.0	4.4	0.0	0.0	0.0	3.7	0.0	RE
L	0.0	0.0	0.0	12.0	69.5	100.0	0.0	0.0	0.0	5.5	0.0	
MLT	0.0	0.0	0.0	17.0	18.3	23.5	0.0	0.0	0.0	4.2	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	73.2	83.1	86.2	0.0	0.0	0.0	64.7	0.0	DEGS

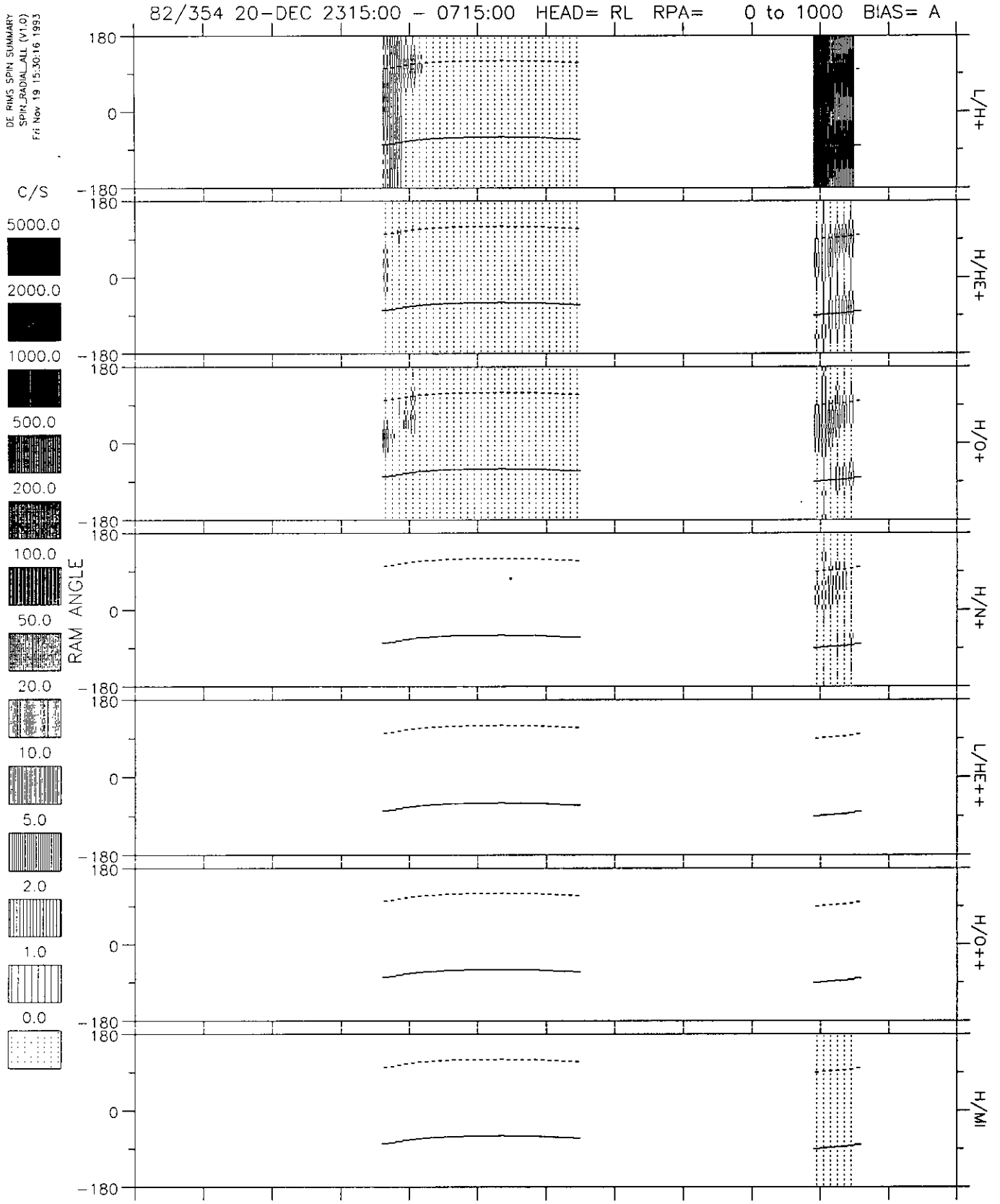


TIME	0000	0000	0515	0555	0000	0000	0000	0835	0915	0955	0000	HHMM
RE	0.0	0.0	2.8	3.7	0.0	0.0	0.0	4.5	3.9	3.1	0.0	RE
L	0.0	0.0	15.9	100.0	0.0	0.0	0.0	7.8	5.0	3.2	0.0	
MLT	0.0	0.0	18.4	22.7	0.0	0.0	0.0	5.0	5.2	5.2	0.0	HRS
MLAT	0.00	0.00	*****	*****	0.00	0.00	0.00	*****	*****	-8.80	0.00	DEGS
INVLAT	0.0	0.0	75.5	85.1	0.0	0.0	0.0	69.0	63.3	56.2	0.0	DEGS

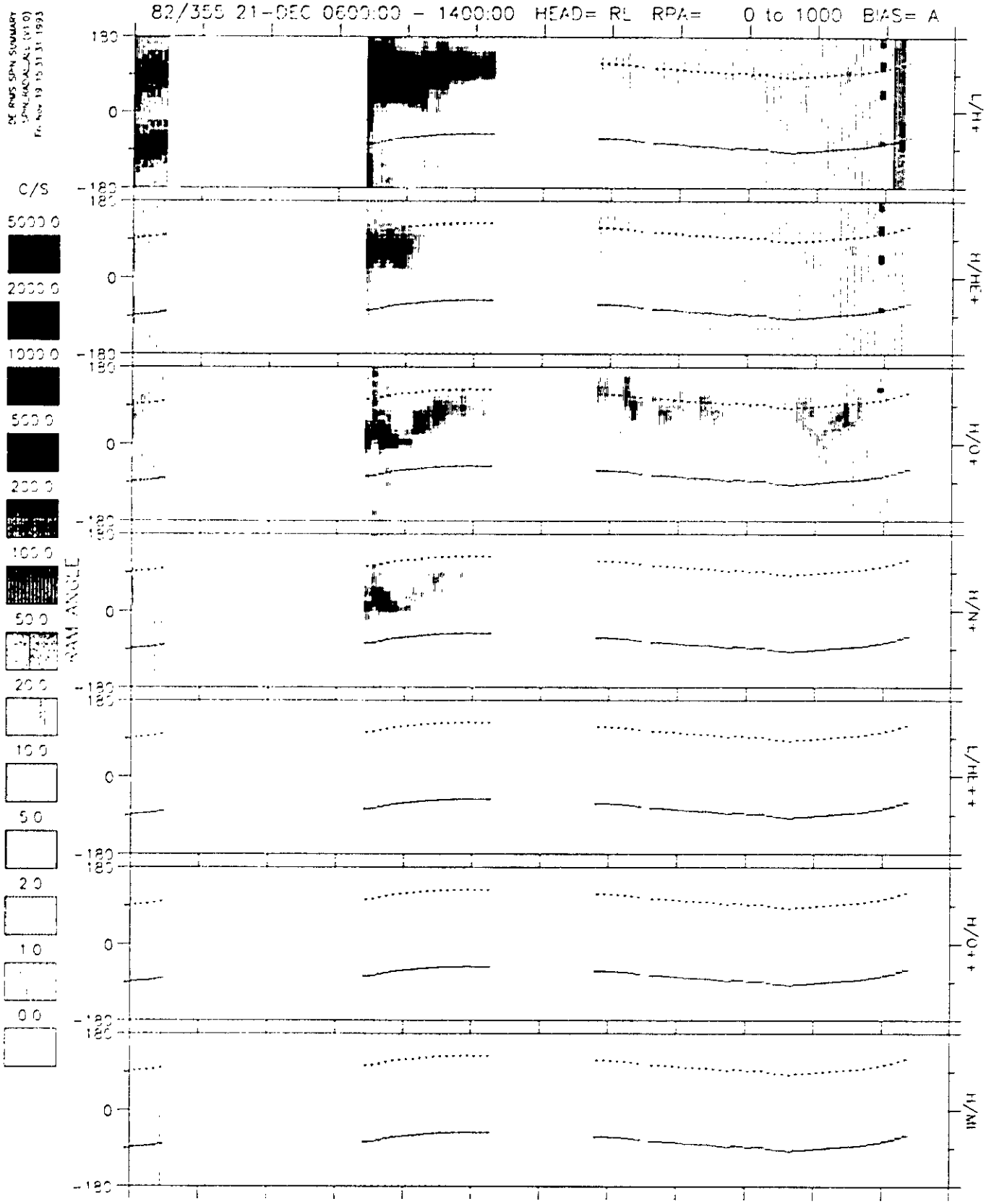


TIME	0000	0000	0000	1210	1250	1330	0000	0000	0000	0000	1650	HHMM
RE	0.0	0.0	0.0	2.9	3.8	4.3	0.0	0.0	0.0	0.0	3.0	RE
L	0.0	0.0	0.0	26.9	100.0	54.5	0.0	0.0	0.0	0.0	3.5	
MLT	0.0	0.0	0.0	15.7	10.9	7.6	0.0	0.0	0.0	0.0	5.1	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	0.00	*****	DEGS
INVLAT	0.0	0.0	0.0	78.9	85.1	82.2	0.0	0.0	0.0	0.0	57.6	DEGS

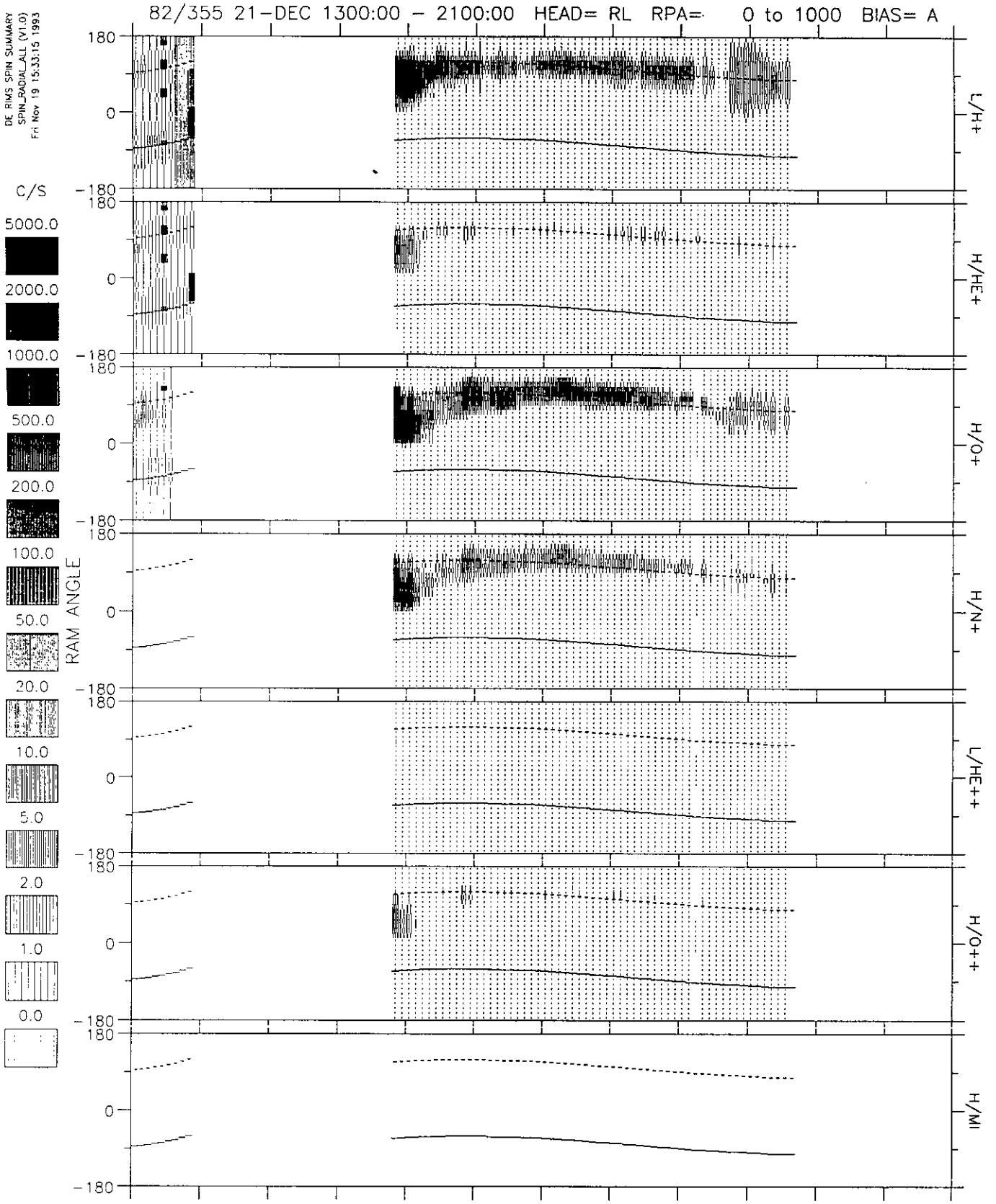

82/354 20-DEC 1630:00 - 0030:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
PAM ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/N+
TIME 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 HHMM
RE 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 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



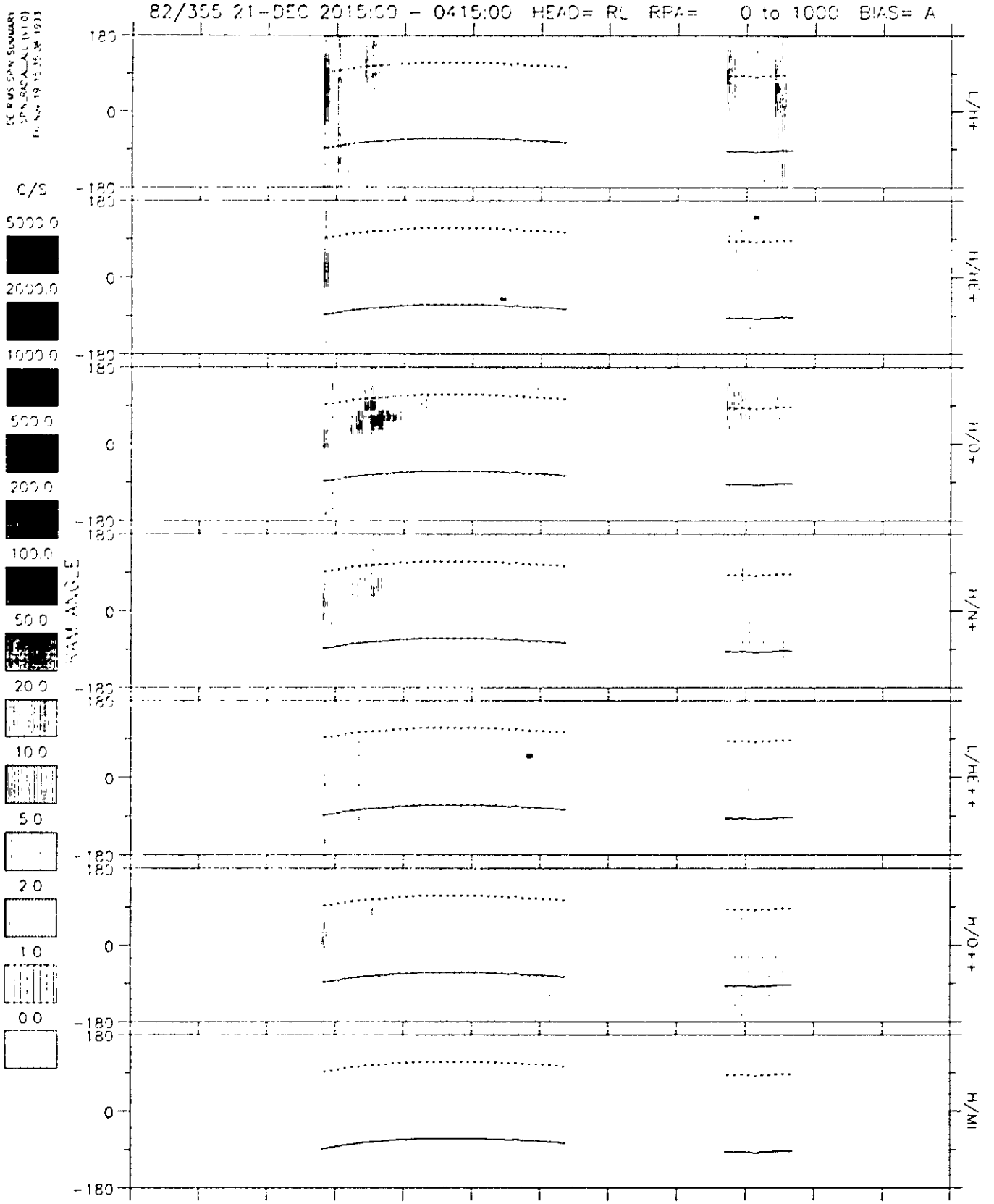
TIME	0000	0000	0000	0155	0235	0315	0000	0000	0000	0555	0000	HHMM
RE	0.0	0.0	0.0	3.0	3.9	4.4	0.0	0.0	0.0	3.8	0.0	RE
L	0.0	0.0	0.0	11.8	65.3	69.6	0.0	0.0	0.0	5.0	0.0	
MLT	0.0	0.0	0.0	17.9	20.4	1.0	0.0	0.0	0.0	4.6	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	73.1	82.9	83.1	0.0	0.0	0.0	63.6	0.0	DEGS



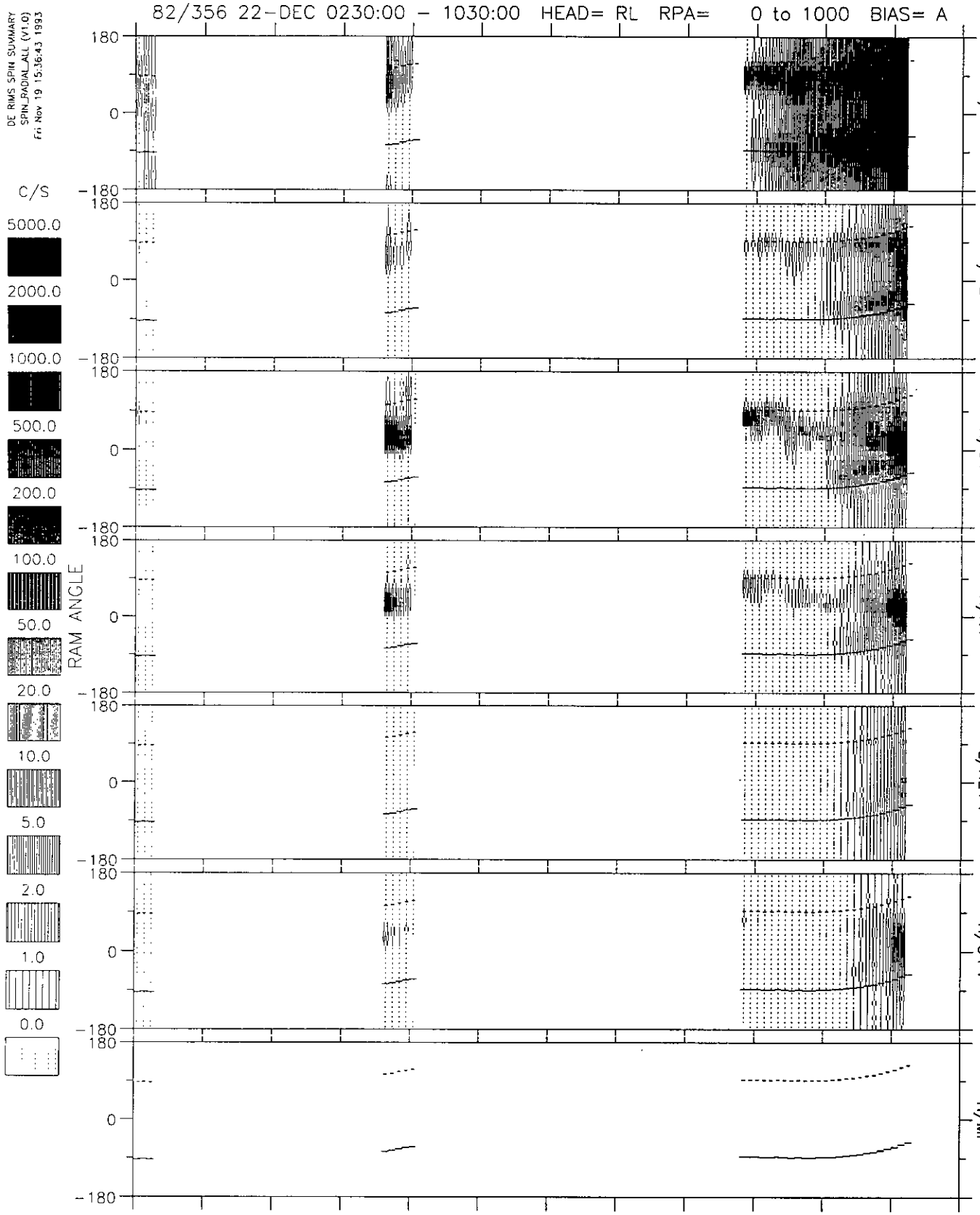
TIME	0000	0000	0000	0840	0920	0000	1040	1120	1200	1240	1320	HHMM
RE	0.0	0.0	0.0	2.9	3.8	0.0	4.6	4.6	4.4	3.9	3.1	RE
L	0.0	0.0	0.0	38.7	100.0	0.0	19.6	11.9	7.9	5.2	3.2	
MLT	0.0	0.0	0.0	17.6	5.1	0.0	5.6	5.6	5.5	5.4	5.2	HRS
MLAT	0.00	0.00	0.00	*****	*****	0.00	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	80.8	87.5	0.0	76.9	73.1	69.1	64.0	56.2	DEGS



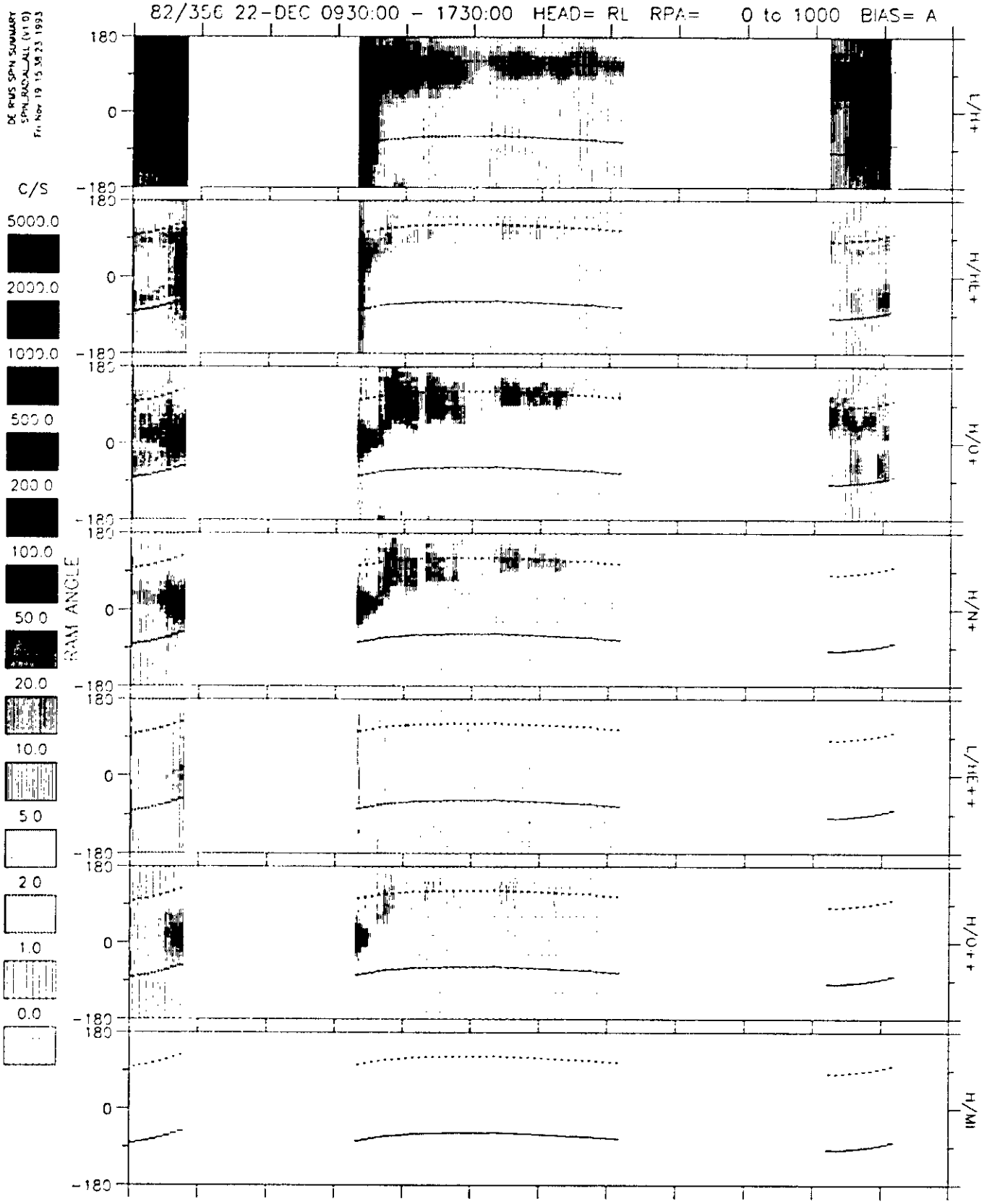
TIME	0000	0000	0000	1540	1620	1700	1740	1820	1900	0000	0000	HHMM
RE	0.0	0.0	0.0	3.1	3.9	4.4	4.6	4.6	4.3	0.0	0.0	RE
L	0.0	0.0	0.0	16.4	71.6	100.0	64.6	30.5	15.1	0.0	0.0	
MLT	0.0	0.0	0.0	15.2	13.0	9.3	6.9	5.8	5.2	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	75.7	83.2	84.8	82.8	79.6	75.1	0.0	0.0	DEGS



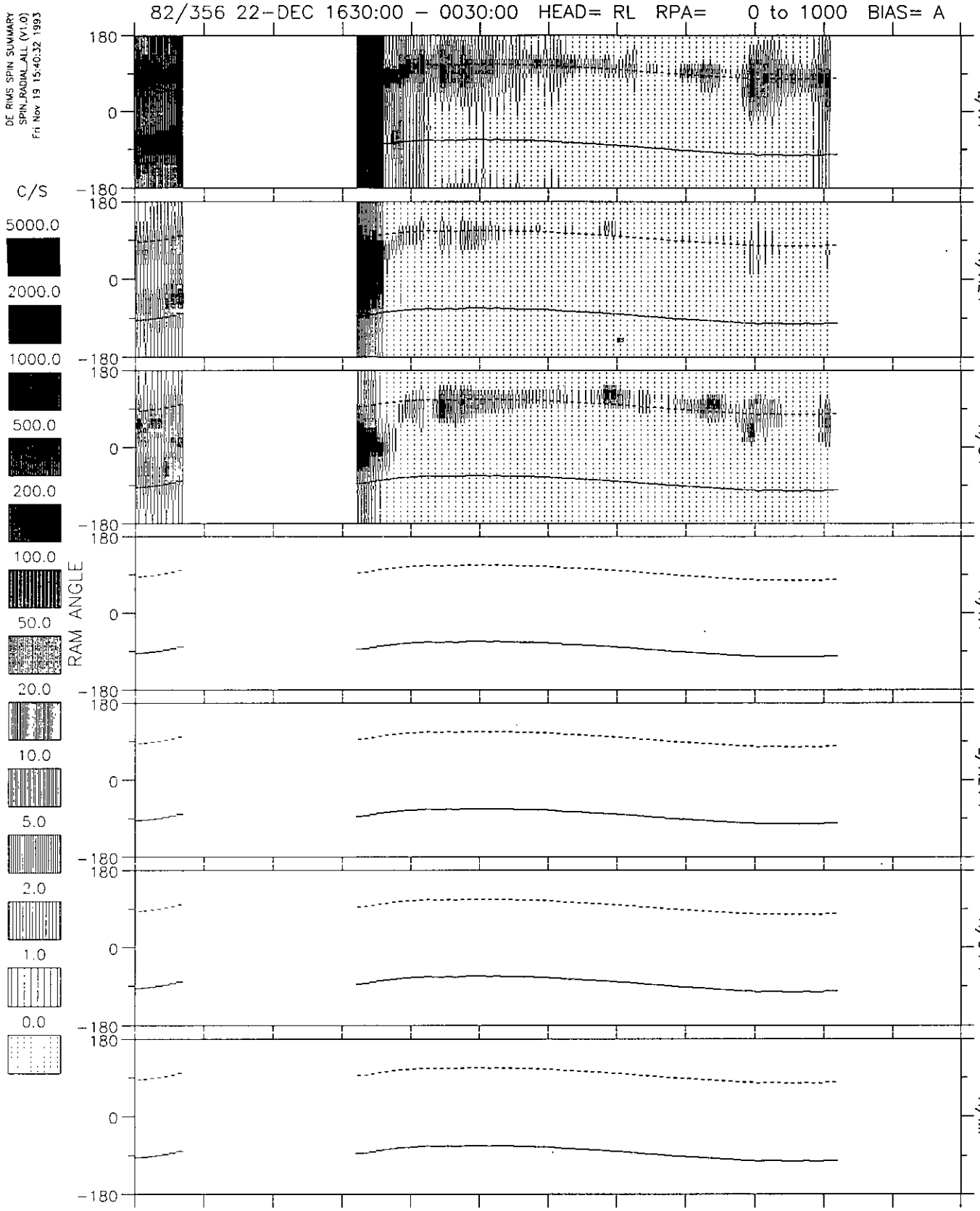
TIME	0000	0000	2215	2255	2335	0015	0000	0000	0215	0000	0000	HHMM
RE	0.0	0.0	2.7	3.0	4.3	4.6	0.0	0.0	4.0	0.0	0.0	RE
L	0.0	0.0	5.4	26.5	100.0	100.0	0.0	0.0	7.6	0.0	0.0	
MLT	0.0	0.0	16.7	17.3	19.9	1.3	0.0	0.0	3.8	0.0	0.0	HRS
MLAT	0.00	0.00	*****	*****	*****	*****	0.00	0.00	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	64.5	78.8	85.6	84.8	0.0	0.0	68.7	0.0	0.0	DEGS



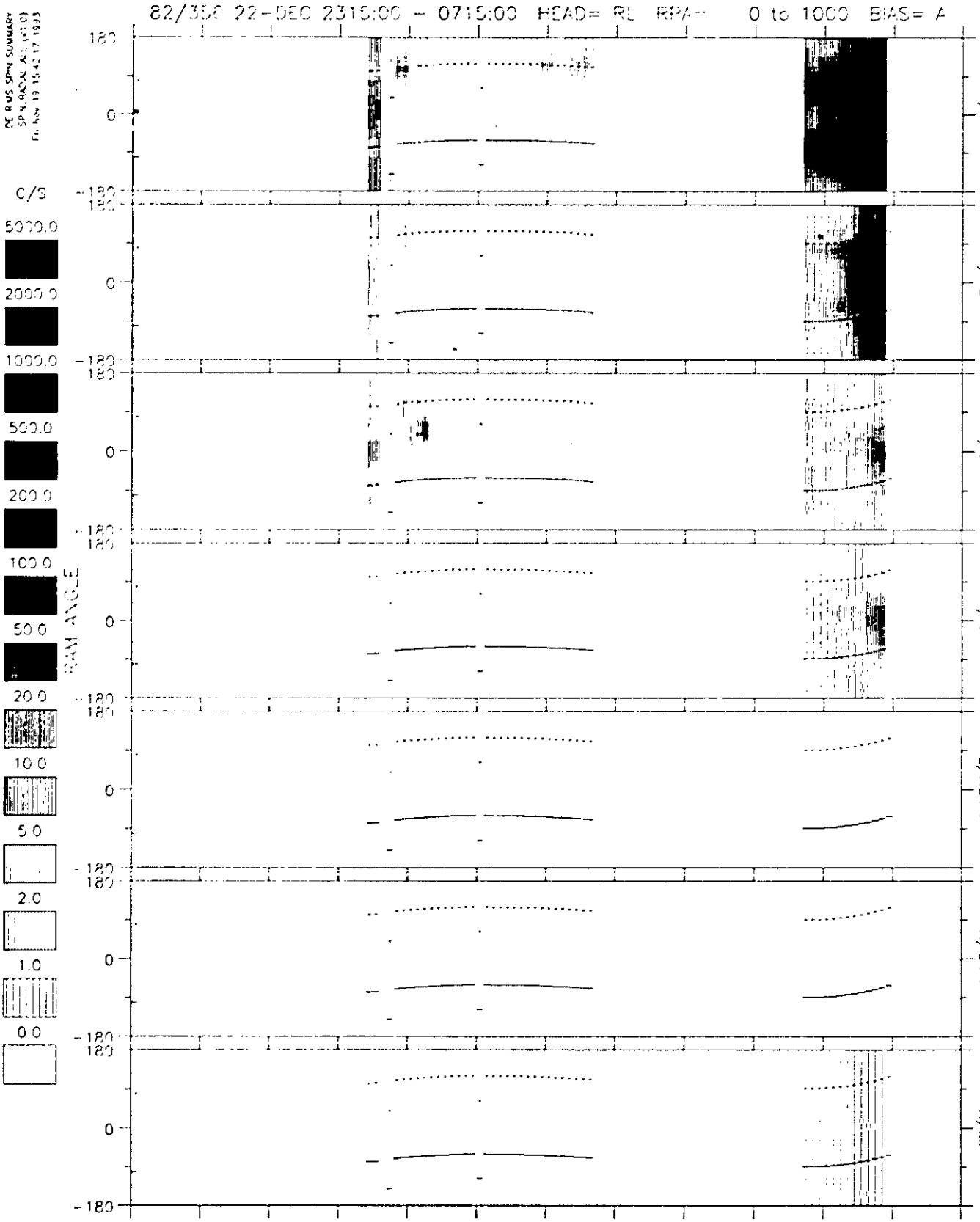
TIME	0000	0000	0000	0510	0000	0000	0000	0000	0830	0910	0950	HHMM
RE	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	4.4	3.9	3.1	RE
L	0.0	0.0	0.0	12.3	0.0	0.0	0.0	0.0	7.6	5.0	3.2	
MLT	0.0	0.0	0.0	18.1	0.0	0.0	0.0	0.0	4.9	5.0	5.1	HRS
MLAT	0.00	0.00	0.00	*****	0.00	0.00	0.00	0.00	*****	*****	-9.18	DEGS
INVLAT	0.0	0.0	0.0	73.5	0.0	0.0	0.0	0.0	68.8	63.4	56.2	DEGS



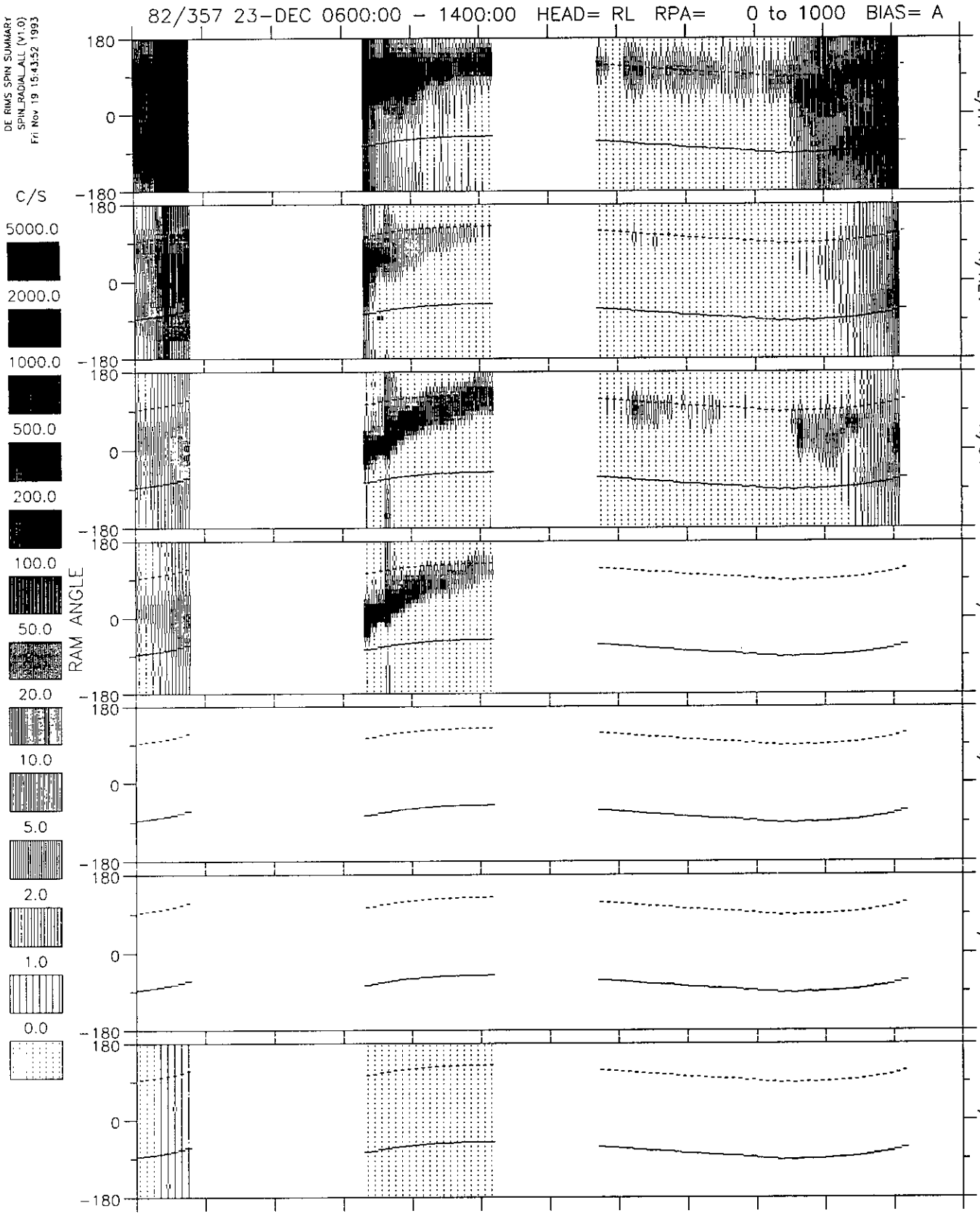
TIME	0000	0000	0000	1210	1250	1330	1410	0000	0000	0000	1650	HHMM
RE	0.0	0.0	0.0	3.1	3.9	4.4	4.6	0.0	0.0	0.0	2.9	RE
L	0.0	0.0	0.0	35.5	100.0	51.6	26.4	0.0	0.0	0.0	3.2	
MLT	0.0	0.0	0.0	15.2	10.2	7.4	6.5	0.0	0.0	0.0	4.9	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	0.00	0.00	0.00	*****	DEGS
INVLAT	0.0	0.0	0.0	80.3	85.0	82.0	78.8	0.0	0.0	0.0	56.0	DEGS



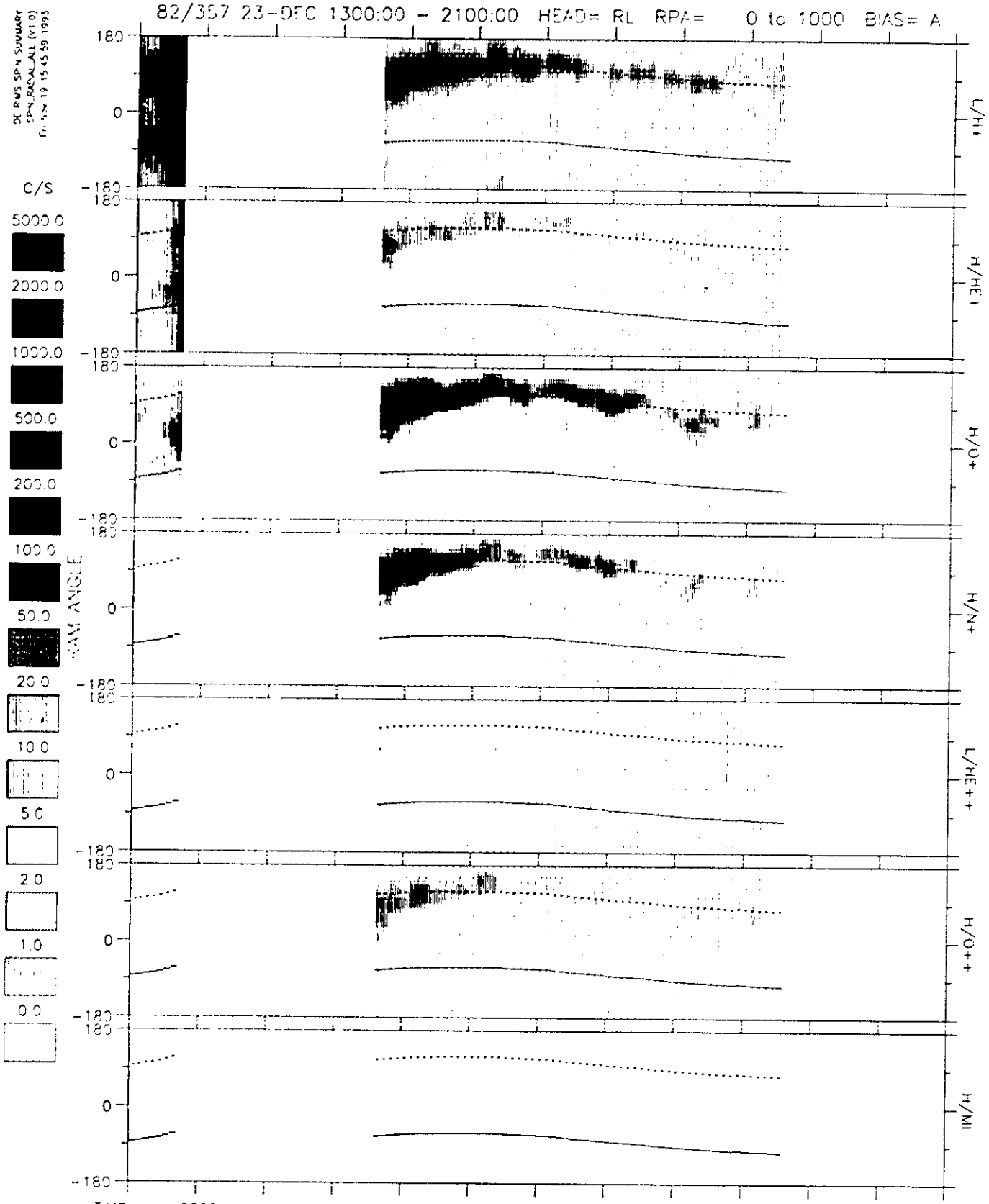
TIME	0000	0000	0000	1910	1950	2030	2110	2150	2230	2310	0000	HHMM
RE	0.0	0.0	0.0	3.3	4.0	4.5	4.7	4.6	4.2	3.6	0.0	RE
L	0.0	0.0	0.0	13.6	73.8	-0.0	100.0	36.4	14.1	6.3	0.0	
MLT	0.0	0.0	0.0	15.8	15.3	11.6	4.3	4.0	4.0	4.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	74.3	83.3	-0.0	85.5	80.5	74.6	66.5	0.0	DEGS



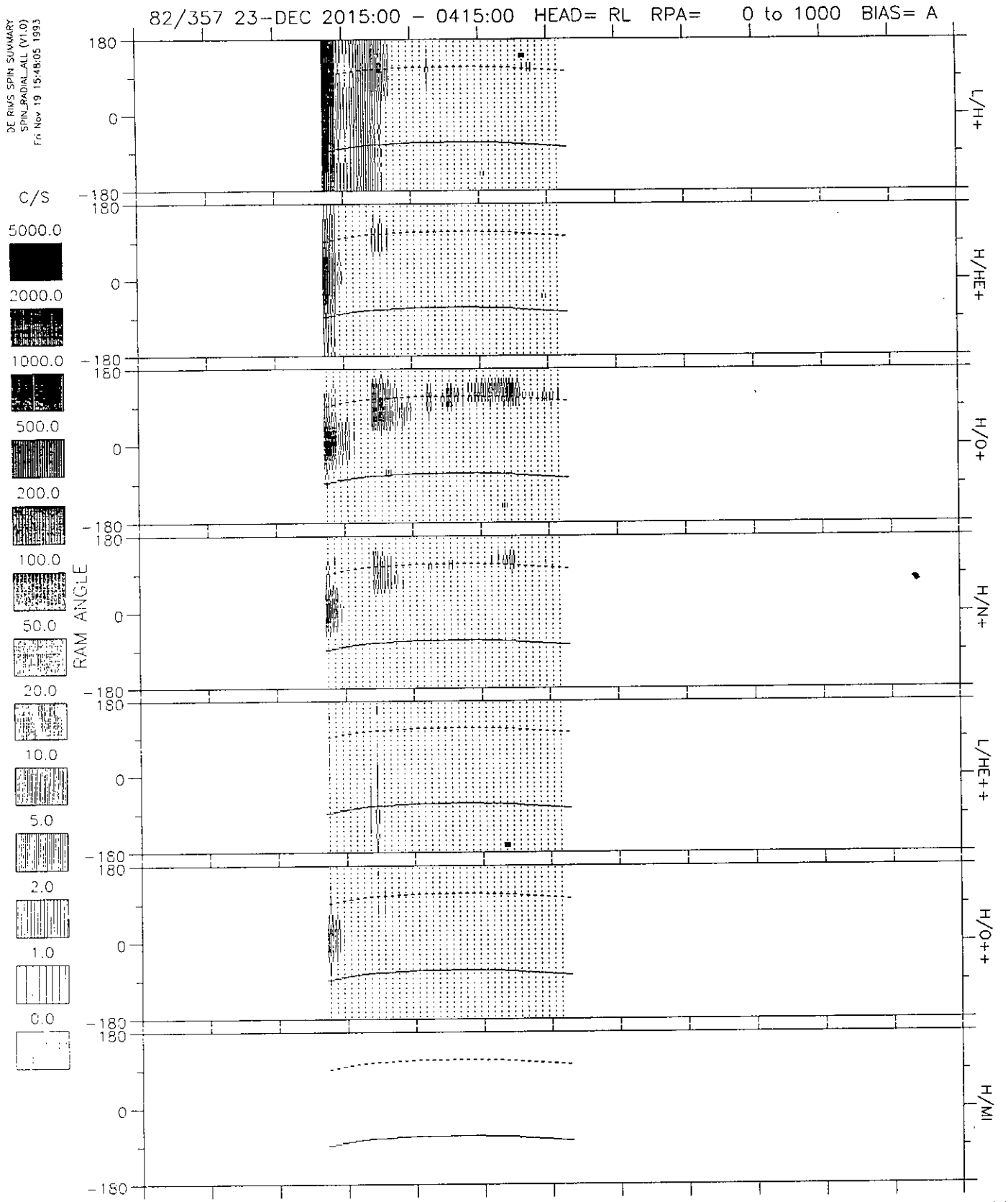
TIME	0000	0000	0000	0155	0235	0315	0000	0000	0000	0555	0000	HHMM
RE	0.0	0.0	0.0	3.1	3.9	4.4	0.0	0.0	0.0	3.7	0.0	RE
L	0.0	0.0	0.0	14.6	74.5	63.8	0.0	0.0	0.0	4.8	0.0	
MLT	0.0	0.0	0.0	17.9	20.8	1.1	0.0	0.0	0.0	4.5	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	74.9	83.3	82.8	0.0	0.0	0.0	62.8	0.0	DEGS



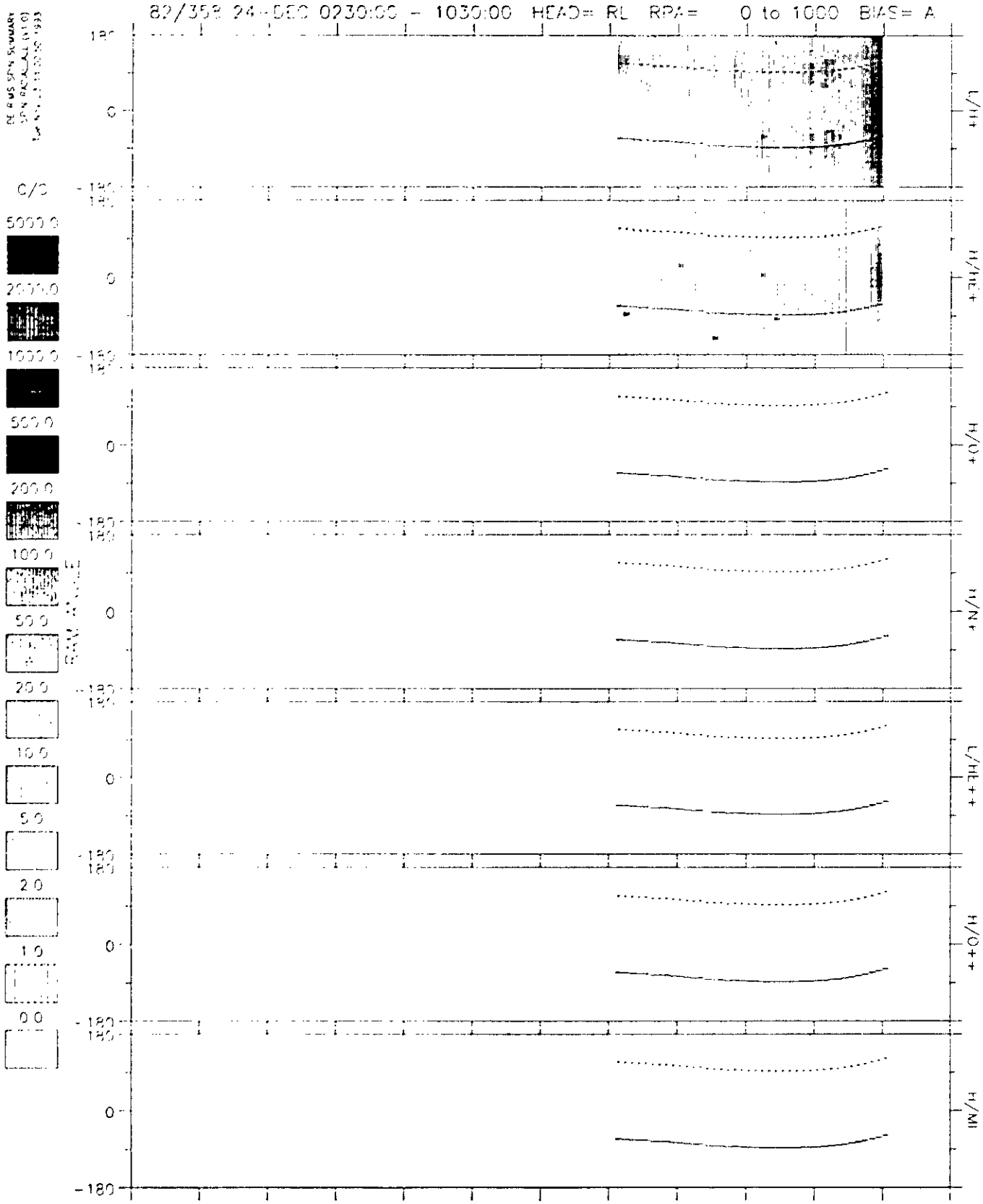
TIME	0000	0000	0000	0840	0920	0000	1040	1120	1200	1240	1320	HHMM
RE	0.0	0.0	0.0	3.0	3.9	0.0	4.6	4.6	4.3	3.8	2.9	RE
L	0.0	0.0	0.0	60.8	100.0	0.0	18.9	11.5	7.6	5.0	3.0	
MLT	0.0	0.0	0.0	17.4	5.2	0.0	5.5	5.5	5.4	5.2	5.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	0.00	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	82.6	86.8	0.0	76.7	72.9	68.7	63.3	54.9	DEGS



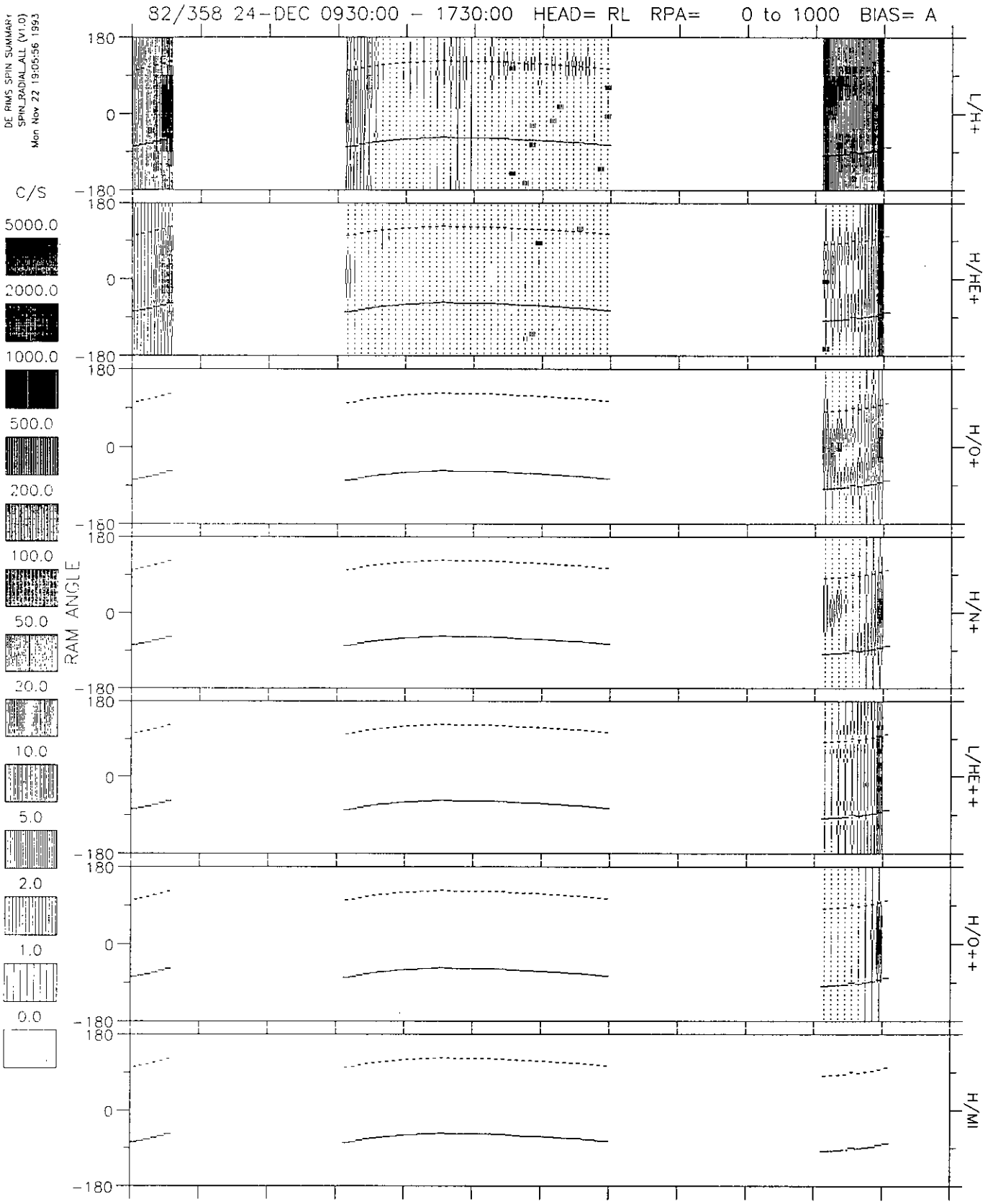
TIME	0000	0000	0000	1540	1620	1700	1740	1820	1900	0000	0000	HHMM
RE	0.0	0.0	0.0	3.2	4.0	4.5	4.6	4.6	4.2	0.0	0.0	RE
L	0.0	0.0	0.0	19.4	79.8	100.0	63.0	29.3	14.2	0.0	0.0	
MLT	0.0	0.0	0.0	14.9	12.6	8.9	6.7	5.6	5.0	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	76.9	83.6	84.8	82.8	79.3	74.6	0.0	0.0	DEGS



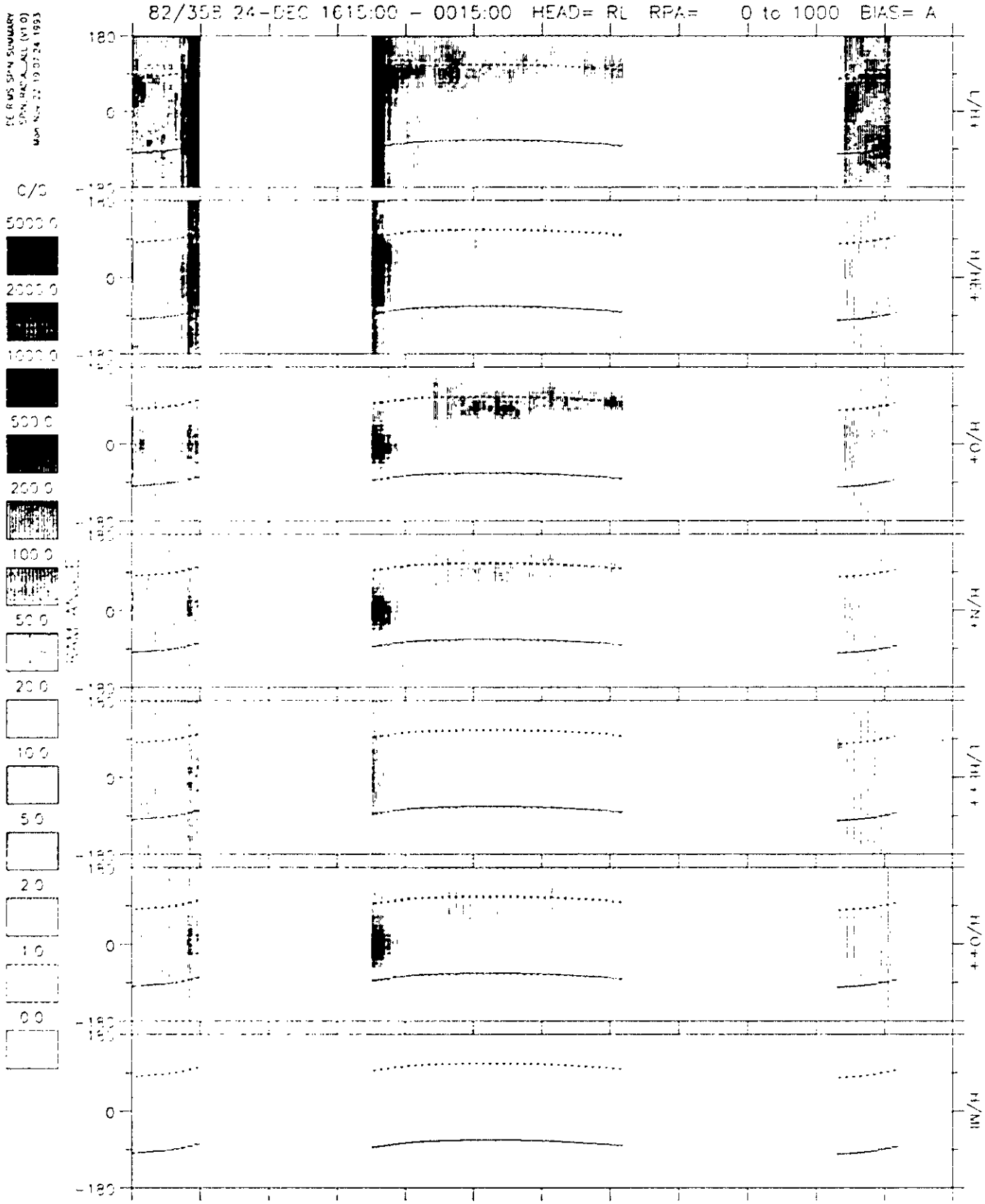
TIME	0000	0000	2215	2255	2335	0015	0000	0000	0000	0000	0000	HHMM
RE	0.0	0.0	2.8	3.7	4.3	4.6	0.0	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	6.5	31.6	100.0	100.0	0.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	16.6	17.3	20.3	1.3	0.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	*****	*****	*****	*****	0.00	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	66.9	79.8	85.8	84.3	0.0	0.0	0.0	0.0	0.0	DEGS



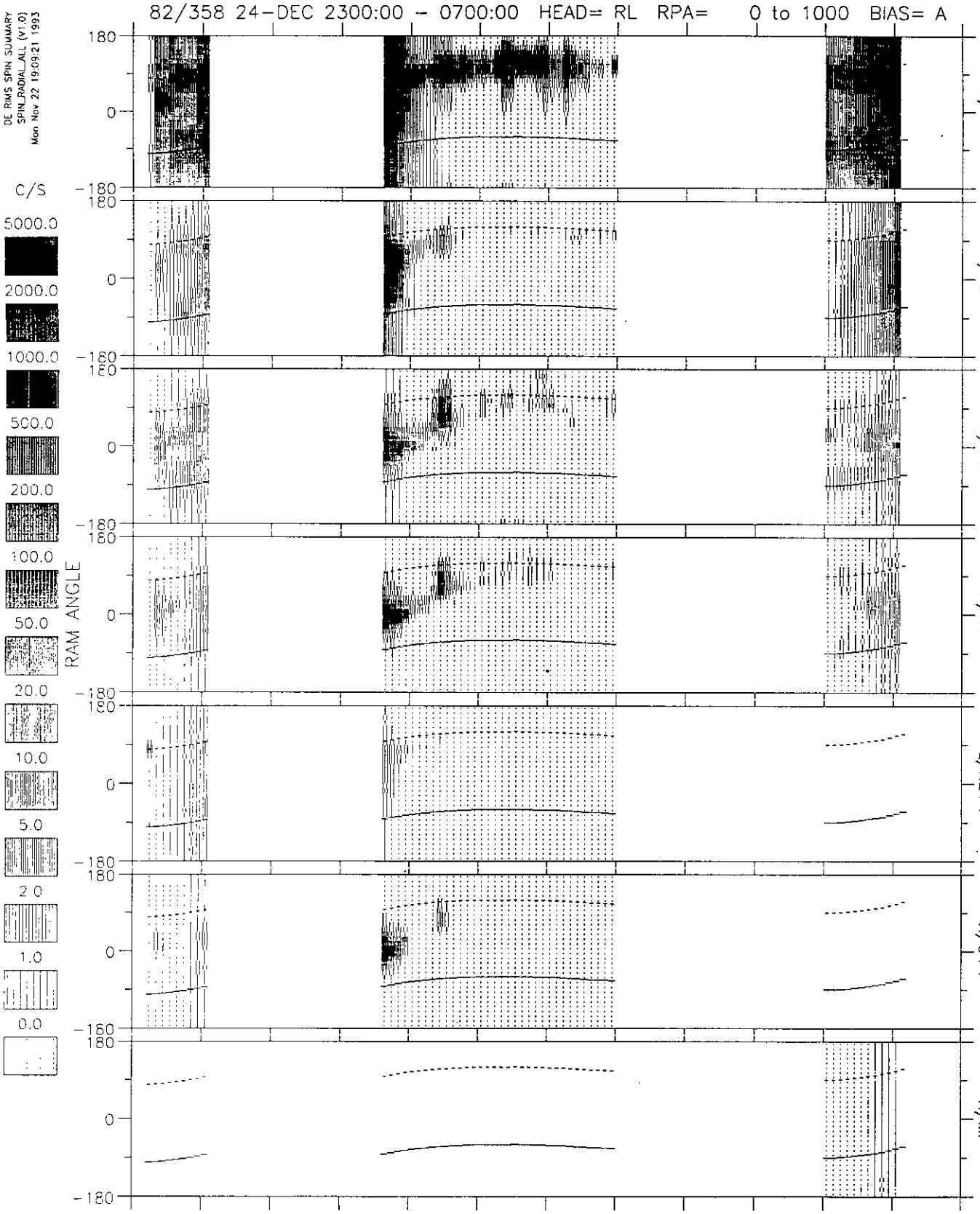
TIME	0000	0000	0000	0000	0000	0000	0000	0750	0830	0910	0950	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.4	3.8	3.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	7.3	4.8	3.1	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.8	4.9	4.9	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	-7.85	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.9	68.3	62.7	55.5	DEGS



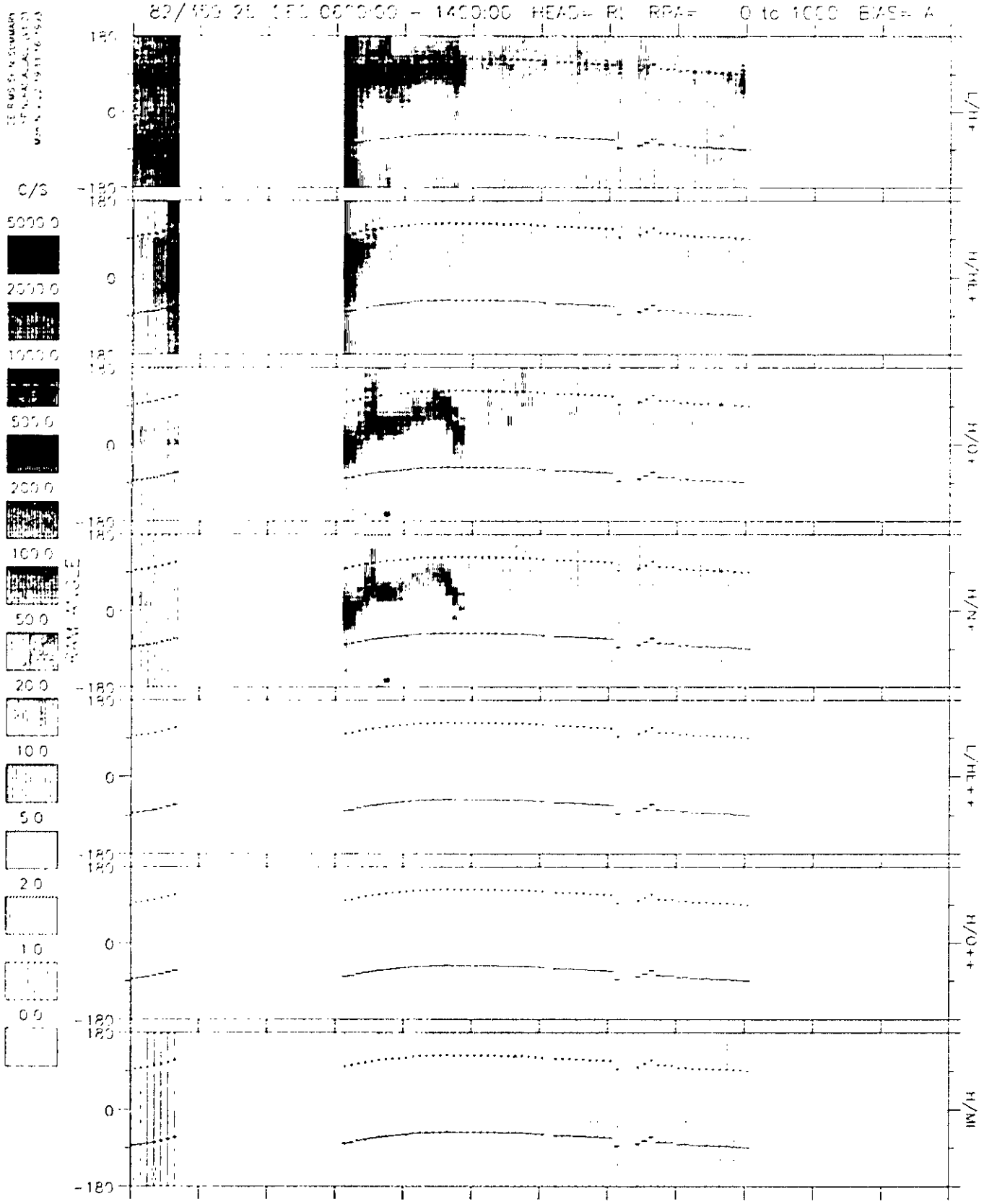
TIME	0000	0000	0000	1210	1250	1330	0000	0000	0000	0000	1650	HHMM
RE	0.0	0.0	0.0	3.2	4.0	4.4	0.0	0.0	0.0	0.0	2.8	RE
L	0.0	0.0	0.0	45.2	100.0	49.4	0.0	0.0	0.0	0.0	3.0	
MLT	0.0	0.0	0.0	14.8	9.6	7.2	0.0	0.0	0.0	0.0	4.7	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	0.00	*****	DEGS
INVLAT	0.0	0.0	0.0	81.4	84.8	81.8	0.0	0.0	0.0	0.0	54.9	DEGS



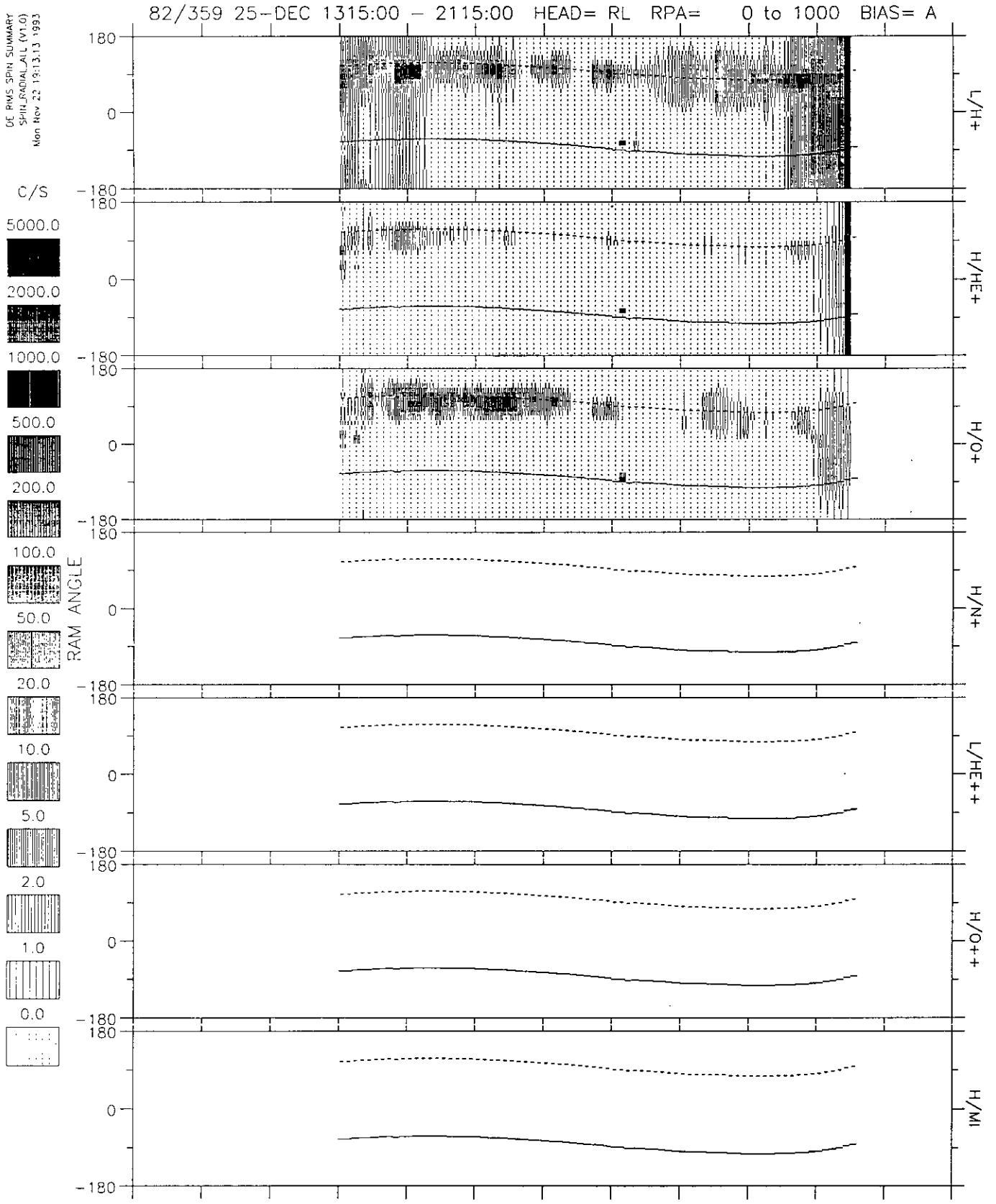
TIME	0000	0000	0000	1855	1935	2015	2055	0000	0000	0000	2335	HHMM
RE	0.0	0.0	0.0	3.0	3.9	4.4	4.5	0.0	0.0	0.0	2.9	RE
L	0.0	0.0	0.0	9.3	43.1	100.0	100.0	0.0	0.0	0.0	3.4	
MLT	0.0	0.0	0.0	15.8	15.4	14.3	4.4	0.0	0.0	0.0	4.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	0.00	0.00	0.00	*****	DEGS
INVLAT	0.0	0.0	0.0	70.8	81.2	87.7	87.0	0.0	0.0	0.0	57.2	DEGS



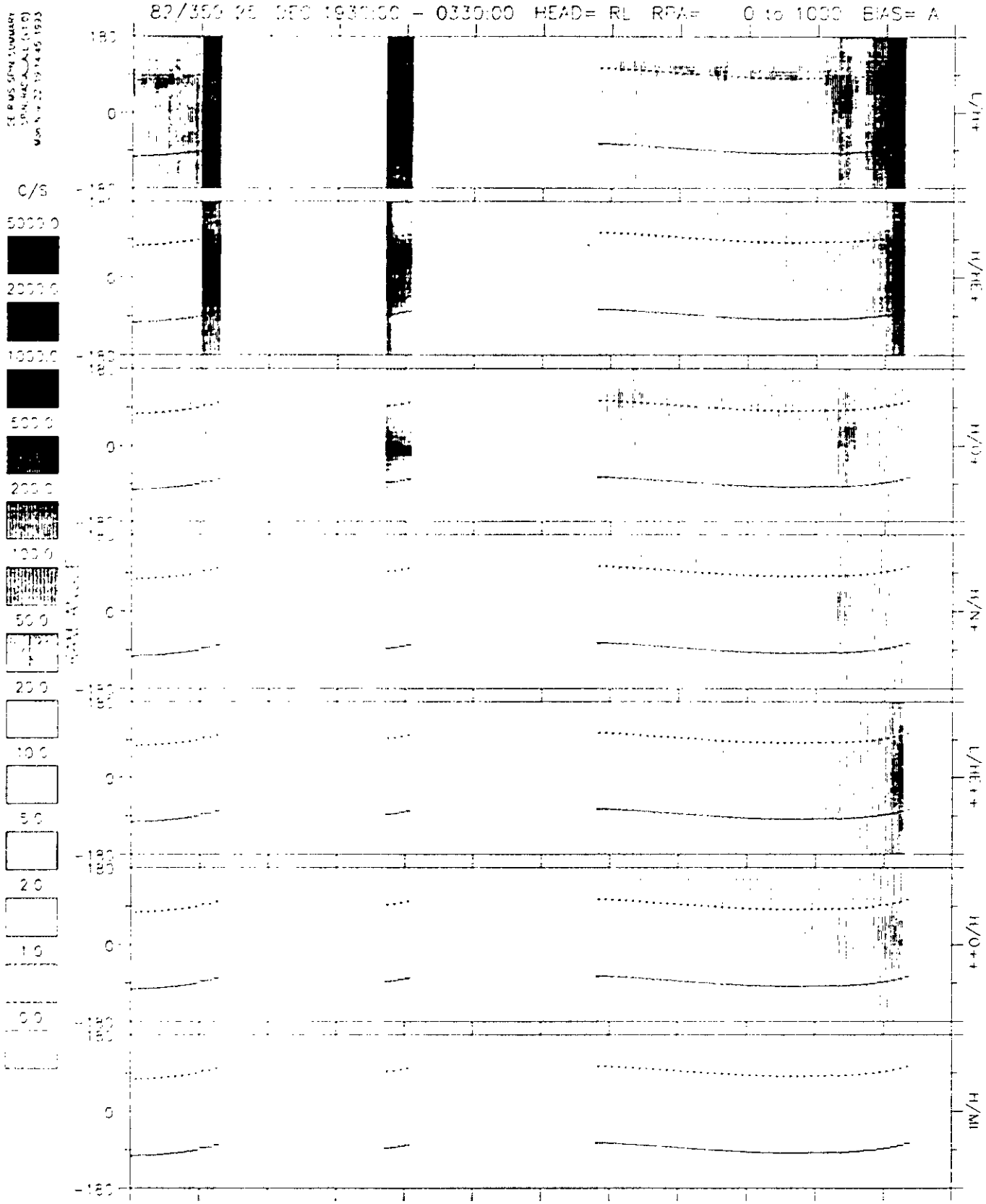
TIME	2340	0000	0000	0140	0220	0300	0000	0000	0000	0540	0620	HHMM
RE	2.8	0.0	0.0	2.9	3.8	4.3	0.0	0.0	0.0	3.9	3.0	RE
L	3.1	0.0	0.0	9.3	51.9	80.9	0.0	0.0	0.0	5.4	3.2	
MLT	4.0	0.0	0.0	17.4	19.5	2.6	0.0	0.0	0.0	4.2	4.6	HRS
MLAT	*****	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	*****	*****	DEGS
INVLAT	55.7	0.0	0.0	70.9	82.0	83.6	0.0	0.0	0.0	64.6	56.3	DEGS



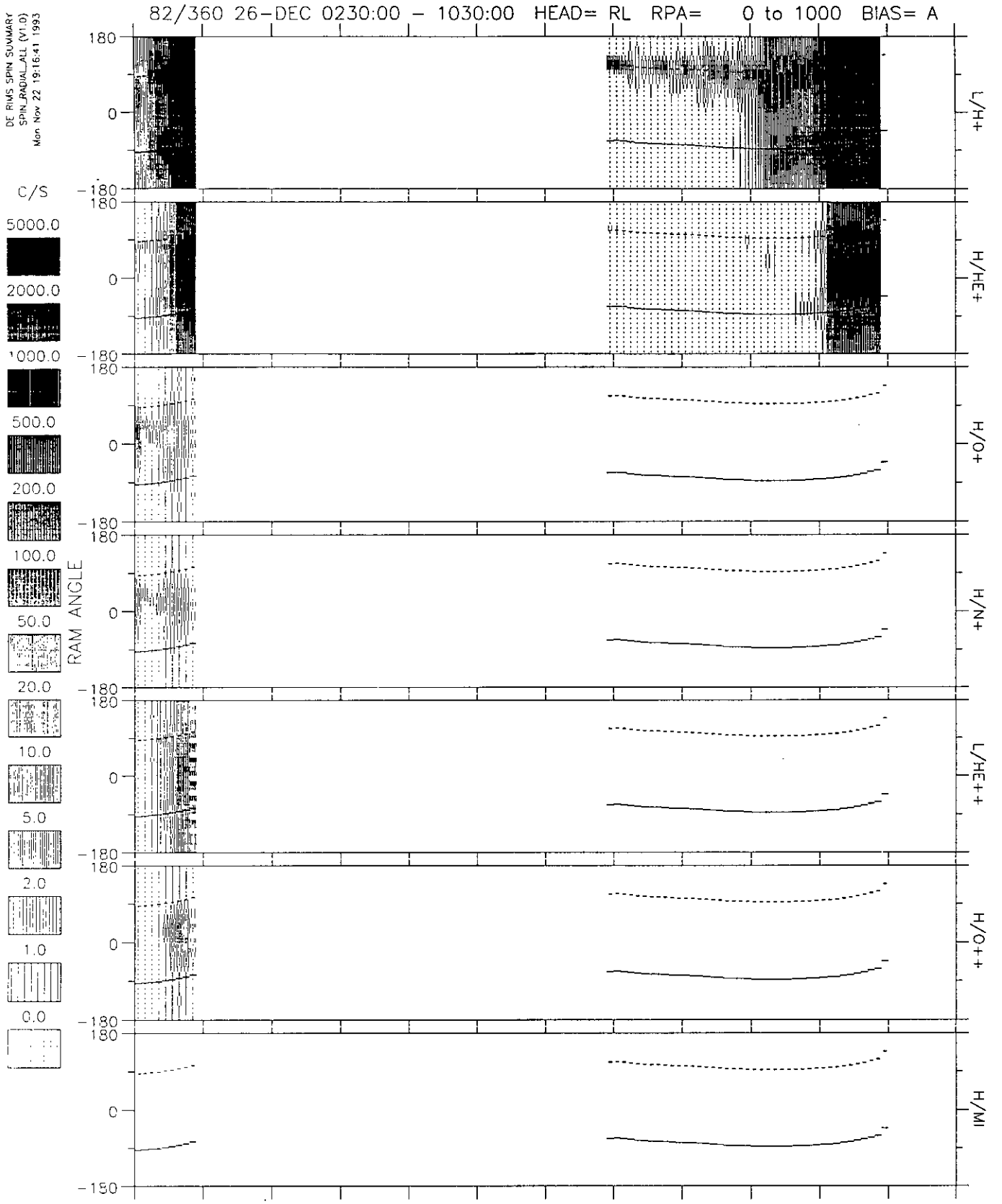
TIME	0000	0000	0000	0840	0920	1000	1040	1120	1200	0000	0000	HHMM
RE	0.0	0.0	0.0	3.1	3.9	4.4	4.6	4.6	4.3	0.0	0.0	RE
L	0.0	0.0	0.0	98.7	100.0	40.0	18.2	11.2	7.6	0.0	0.0	
MLT	0.0	0.0	0.0	17.3	5.2	5.4	5.4	5.3	5.3	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	84.2	85.2	80.9	76.4	72.6	68.7	0.0	0.0	DEGS



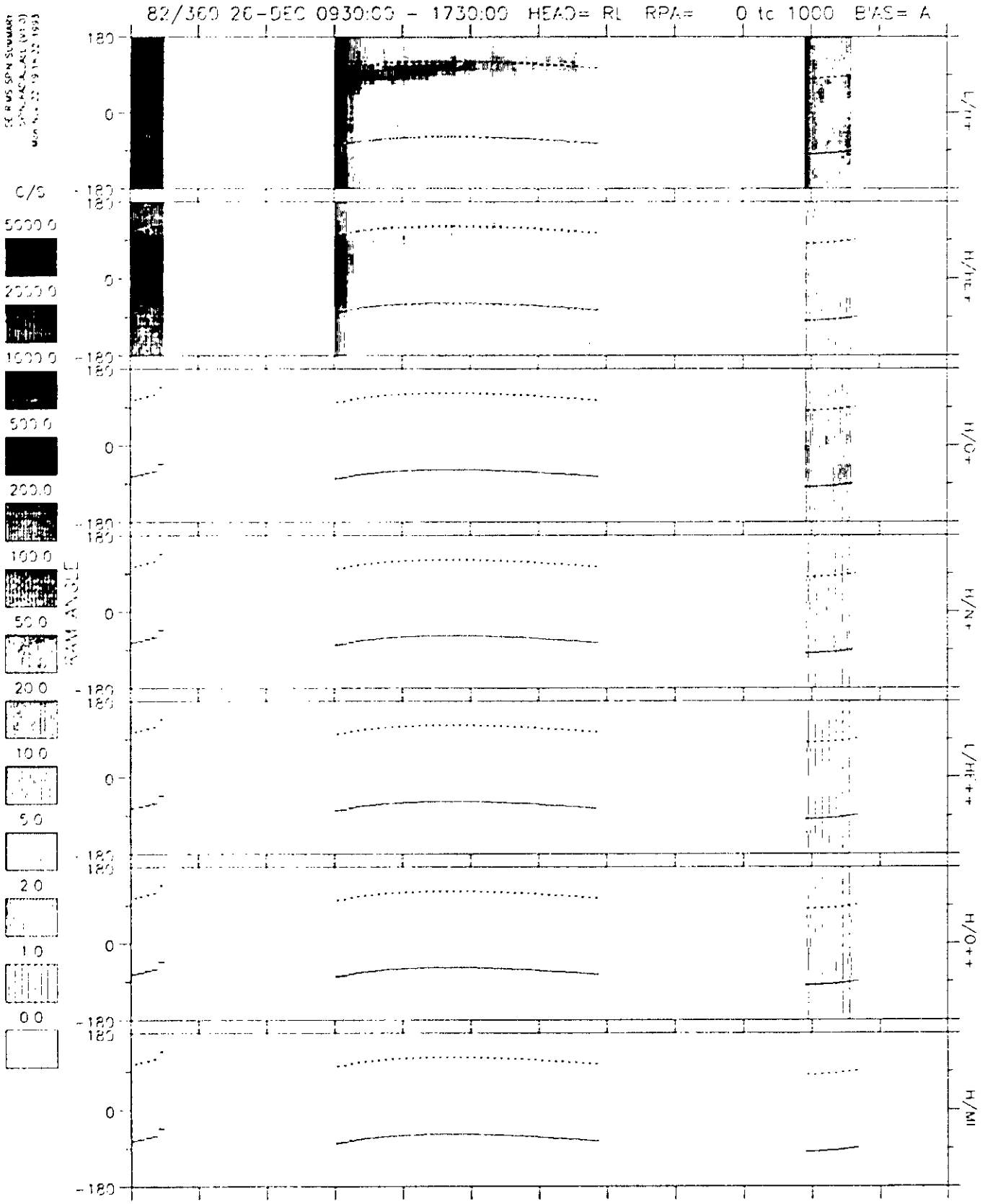
TIME	0000	0000	1515	1555	1635	1715	1755	1835	1915	1955	0000	HHMM
RE	0.0	0.0	2.7	3.7	4.3	4.6	4.6	4.4	4.0	3.2	0.0	RE
L	0.0	0.0	8.5	39.3	100.0	100.0	45.4	21.2	10.1	4.6	0.0	
MLT	0.0	0.0	15.5	13.9	10.9	7.6	6.0	5.2	4.7	4.4	0.0	HRS
MLAT	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	70.0	80.8	84.8	84.3	81.5	77.5	71.7	62.1	0.0	DEGS



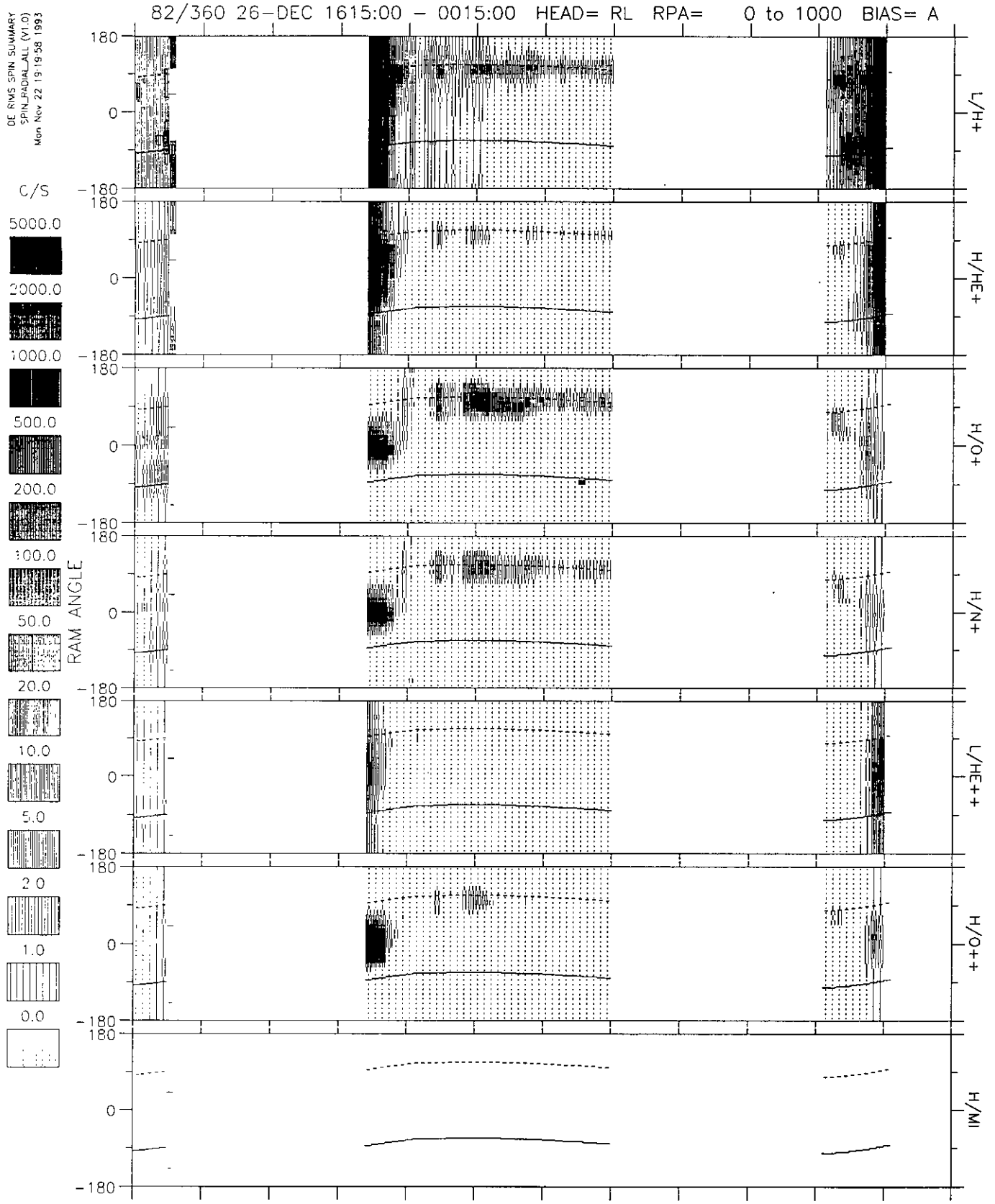
TME	2010	0000	0000	2210	0000	0000	0010	0050	0130	0210	0250	H+/W
RE	2.5	0.0	0.0	2.8	0.0	0.0	4.6	4.6	4.4	3.9	3.1	RE
L	3.3	0.0	0.0	6.4	0.0	0.0	100.0	32.3	14.1	7.1	3.7	
M.T	4.3	0.0	0.0	10.4	0.0	0.0	1.1	2.5	3.1	3.5	4.0	HRS
W AT	.....	0.00	0.00	.....	0.00	0.00	.....	.....	.....	.....	.....	DEGS
H/W AT	56.5	0.0	0.0	66.5	0.0	0.0	84.4	79.9	74.5	68.0	58.6	DEGS



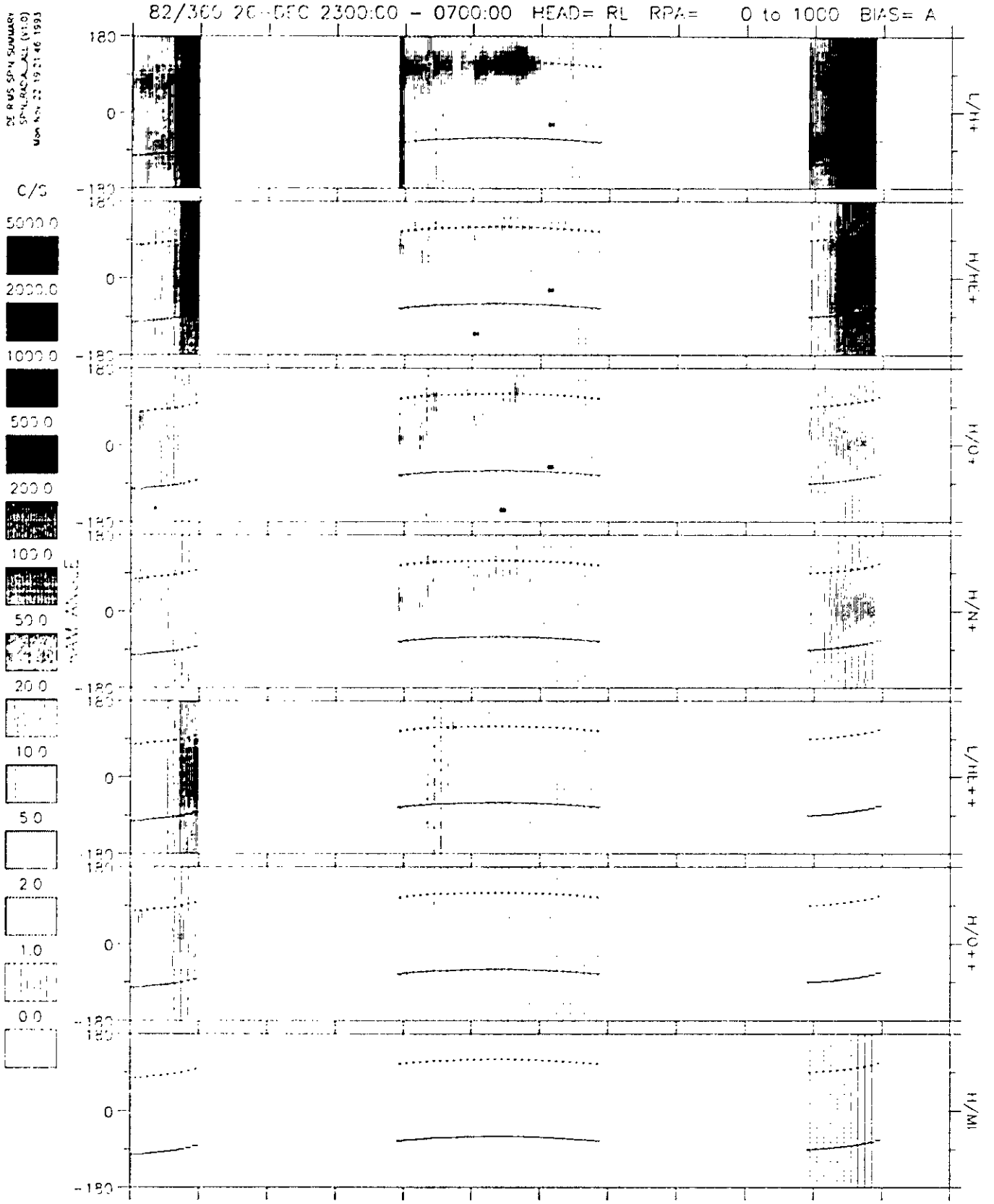
TIME	0000	0000	0000	0000	0000	0000	0710	0750	0830	0910	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	4.3	3.7	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	19.3	11.1	7.0	4.5	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.4	4.7	4.8	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	76.8	72.5	67.8	62.0	0.0	DEGS



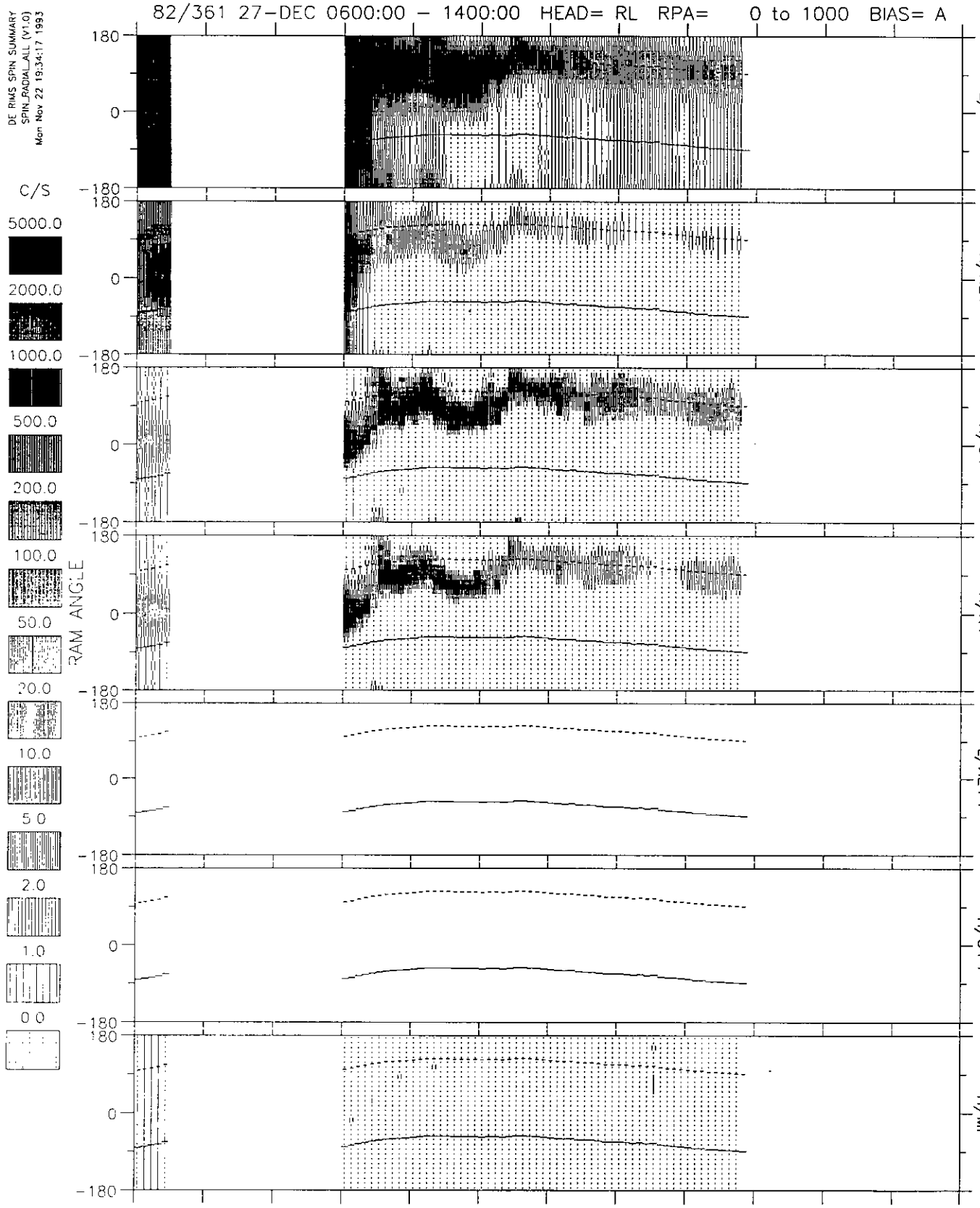
TIME	0000	0000	1130	1210	1250	1330	0000	0000	0000	1610	0000	HHMM
RE	0.0	0.0	2.2	3.3	4.1	4.5	0.0	0.0	0.0	3.6	0.0	RE
L	0.0	0.0	5.3	50.6	100.0	47.3	0.0	0.0	0.0	5.4	0.0	
MLT	0.0	0.0	16.2	14.3	9.2	7.0	0.0	0.0	0.0	4.9	0.0	HRS
MLAT	0.00	0.00	*****	*****	*****	*****	0.00	0.00	0.00	*****	0.00	DEGS
INVLAT	0.0	0.0	64.2	82.4	84.6	81.6	0.0	0.0	0.0	64.4	0.0	DEGS



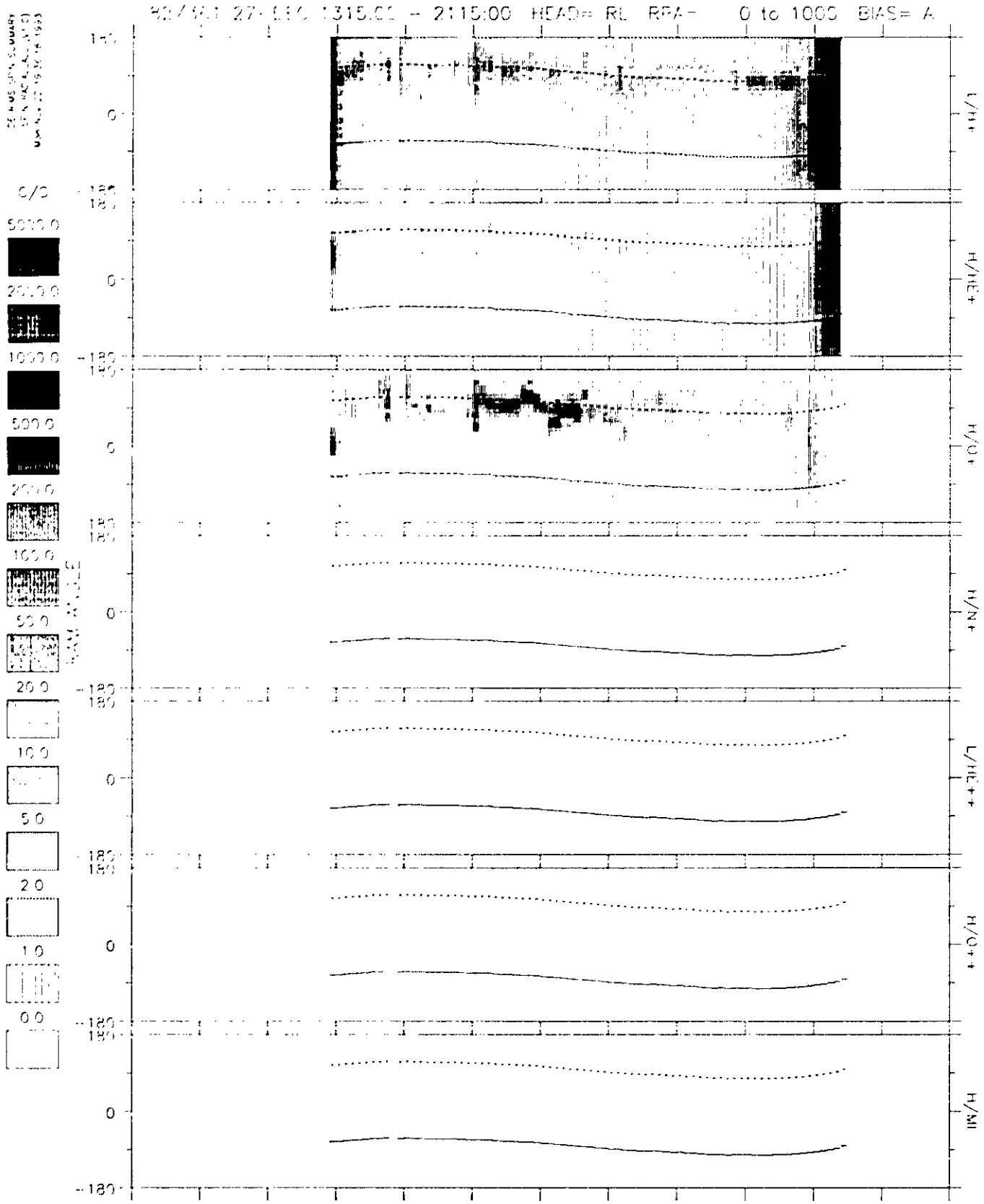
TIME	0000	0000	0000	1855	1935	2015	0000	0000	0000	0000	2335	HHMM
RE	0.0	0.0	0.0	3.2	4.0	4.4	0.0	0.0	0.0	0.0	2.7	RE
L	0.0	0.0	0.0	10.9	51.0	100.0	0.0	0.0	0.0	0.0	3.1	
MLT	0.0	0.0	0.0	15.6	15.3	14.1	0.0	0.0	0.0	0.0	3.9	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	0.00	*****	DEGS
INVLAT	0.0	0.0	0.0	72.3	81.9	88.1	0.0	0.0	0.0	0.0	55.6	DEGS



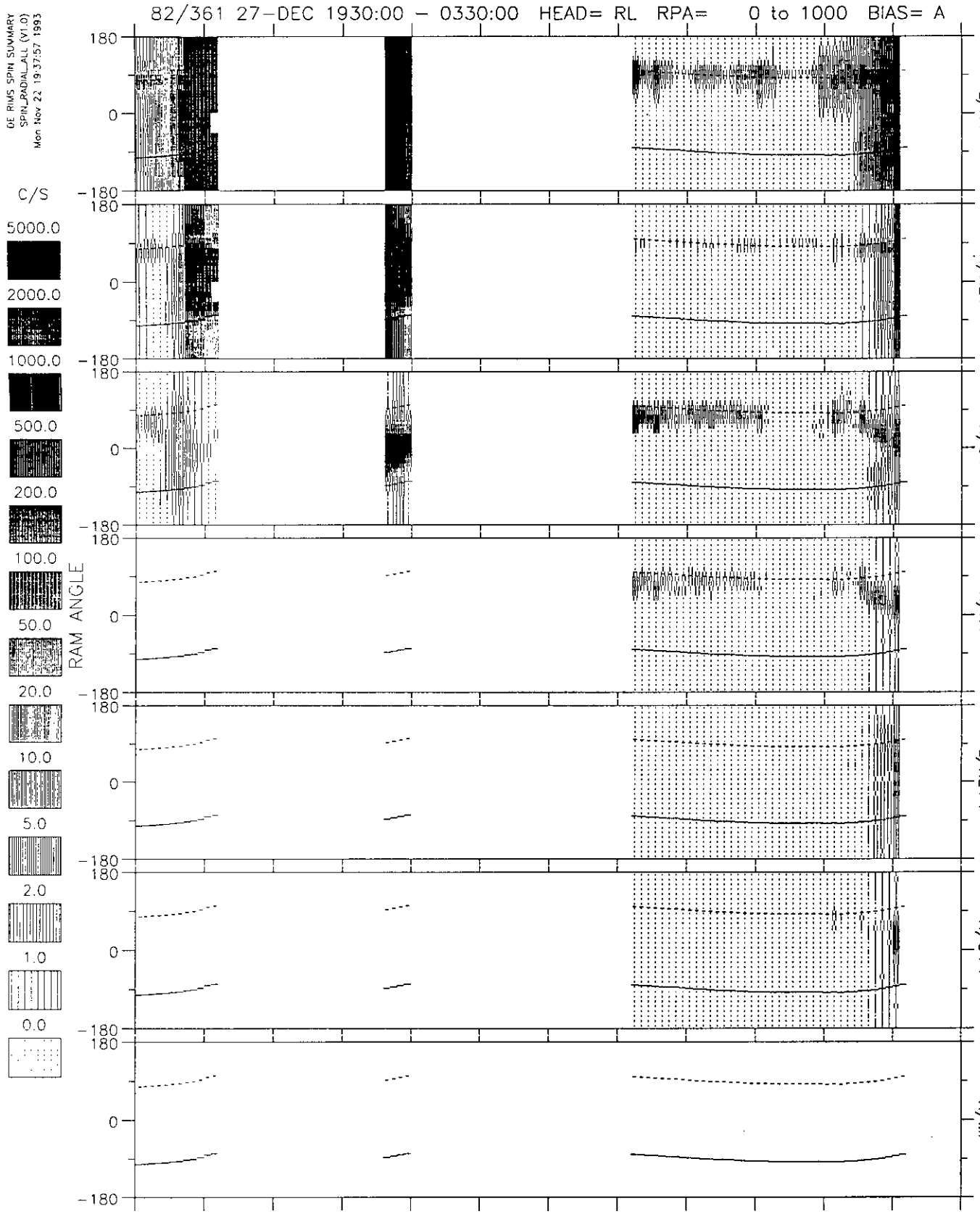
TIME	0000	0000	0000	0140	0220	0300	0000	0000	0000	0540	0000	HH:MM
RE	0.0	0.0	0.0	3.0	3.9	4.4	0.0	0.0	0.0	3.8	0.0	RE
L	0.0	0.0	0.0	11.6	61.1	75.2	0.0	0.0	0.0	5.1	0.0	
MLT	0.0	0.0	0.0	17.4	19.8	0.2	0.0	0.0	0.0	4.1	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	0.00	0.00	0.00	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	72.9	82.7	83.4	0.0	0.0	0.0	63.8	0.0	DEGS



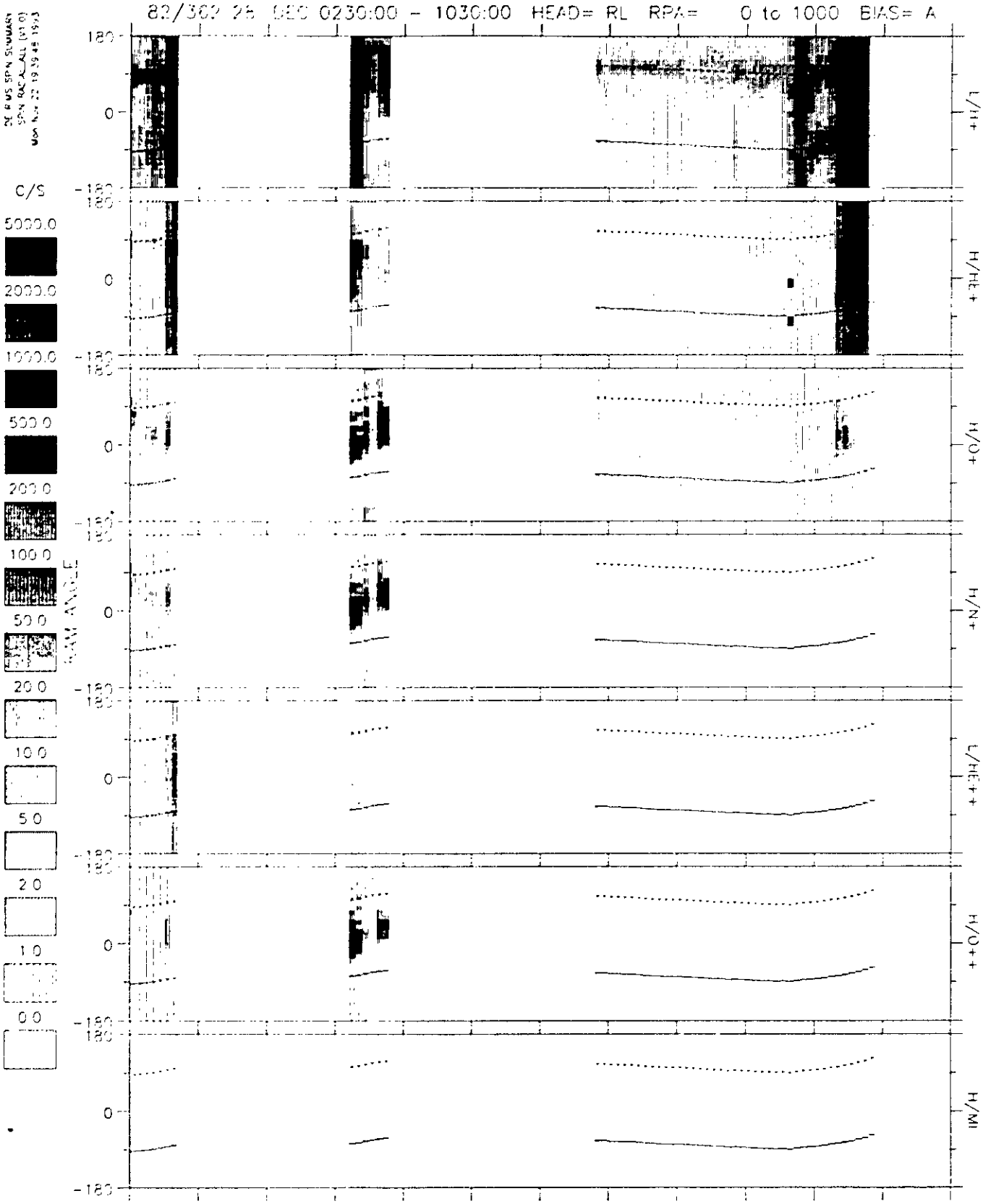
TIME	0000	0000	0800	0840	0920	1000	1040	1120	0000	0000	0000	HHMM
RE	0.0	0.0	2.1	3.3	4.0	4.5	4.7	4.6	0.0	0.0	0.0	RE
L	0.0	0.0	5.2	100.0	100.0	35.2	17.6	10.8	0.0	0.0	0.0	
MLT	0.0	0.0	16.9	17.1	5.2	5.3	5.3	5.2	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	*****	*****	*****	*****	*****	*****	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	63.8	85.7	85.6	80.3	76.2	72.3	0.0	0.0	0.0	DEGS

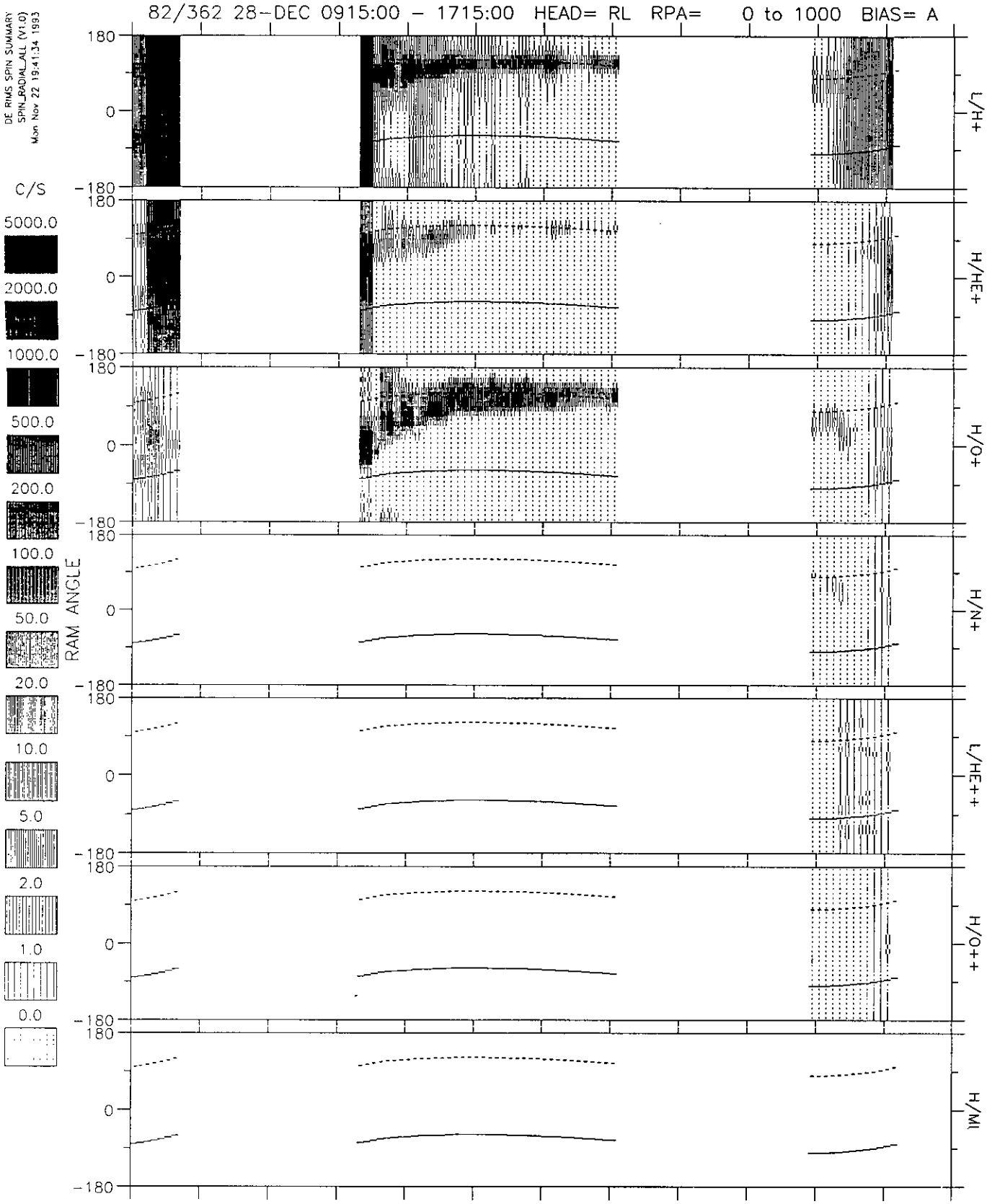


TIME	0000	0000	1515	1555	1635	1715	1755	1835	1915	1955	0000	HHMM
RE	0.0	0.0	2.9	3.8	4.3	4.6	4.6	4.4	3.9	3.0	0.0	RE
L	0.0	0.0	10.2	43.0	100.0	98.8	43.8	20.1	9.4	4.1	0.0	
MLT	0.0	0.0	15.2	13.7	10.5	7.3	5.7	4.9	4.5	4.2	0.0	HRS
MLAT	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	*****	0.00	DEGS
INVLAT	0.0	0.0	71.8	81.2	85.0	84.2	81.3	77.1	71.0	60.5	0.0	DEGS

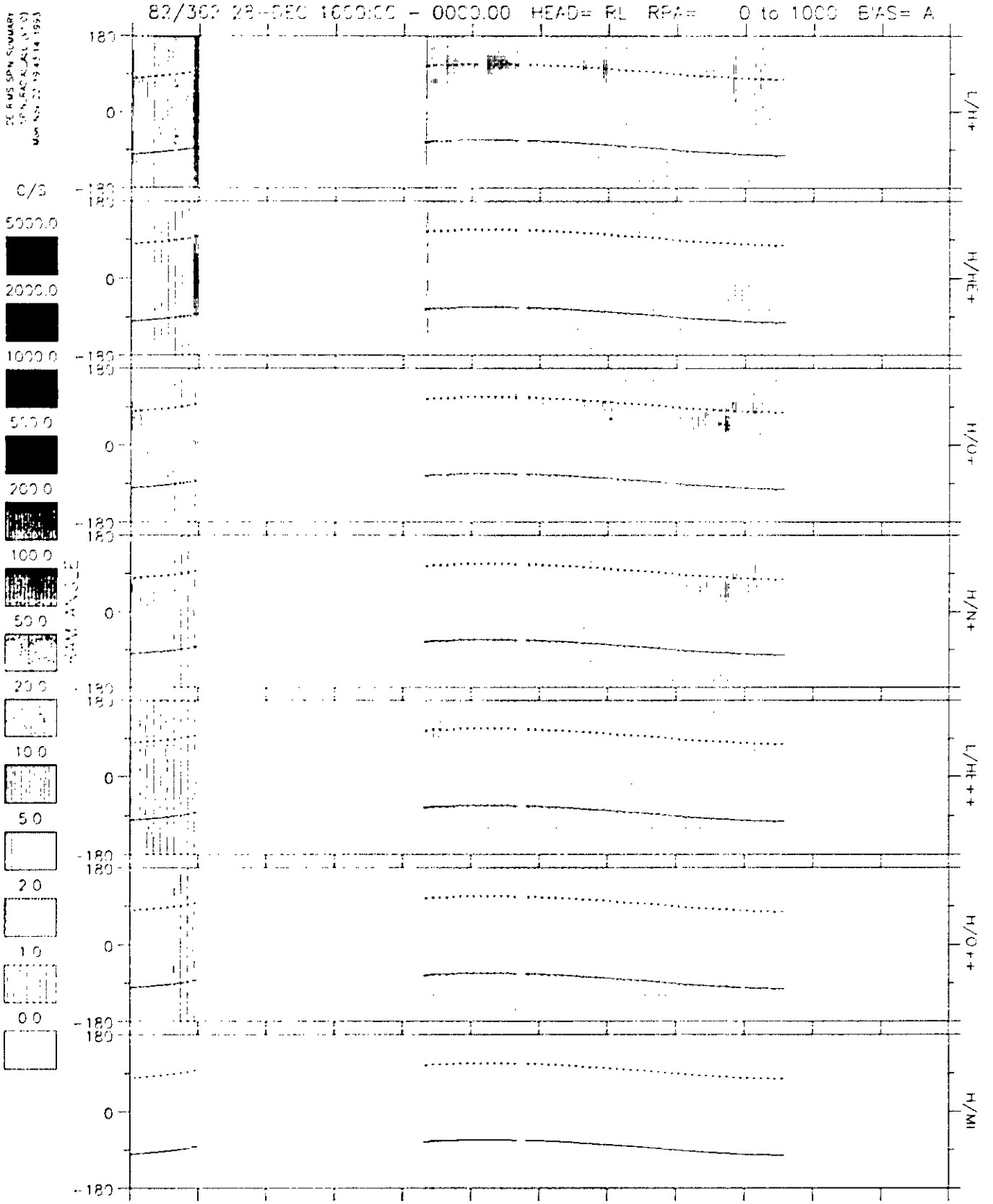


TIME	2010	0000	0000	0000	0000	0000	0000	0050	0130	0210	0250	HHMM
RE	2.6	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.4	3.8	2.9	RE
L	2.9	0.0	0.0	0.0	0.0	0.0	0.0	29.5	13.1	6.6	3.4	
MLT	4.1	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.0	3.4	3.8	HRS
MLAT	*****	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	DEGS
INVLAT	54.2	0.0	0.0	0.0	0.0	0.0	0.0	79.4	73.9	67.1	57.0	DEGS

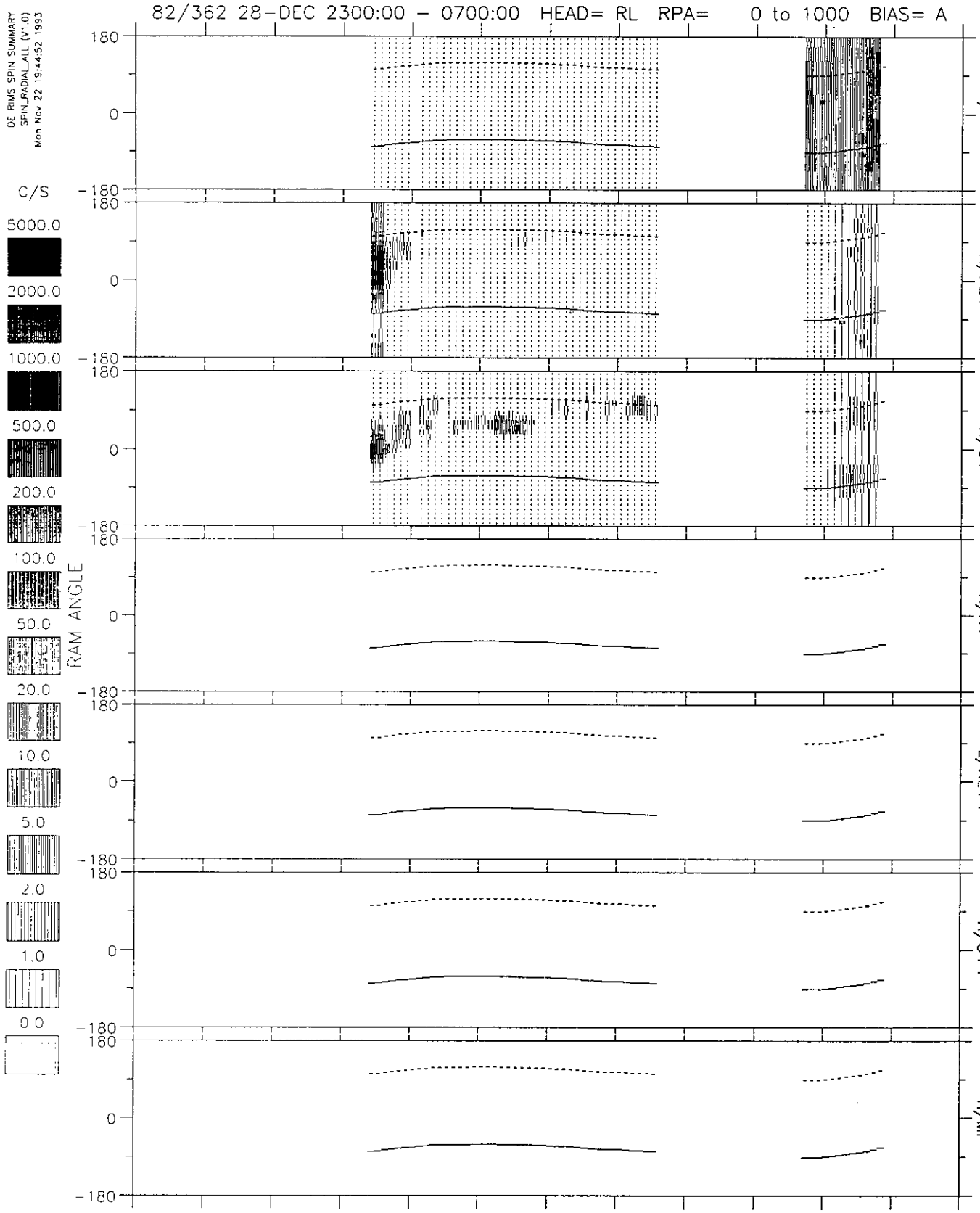

82/302 28 DEC 0230:00 - 1030:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
PITCH ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/M
TIME
RE
L
MLT
MLAT
INVLAT
HHMM
HRS
DEGS



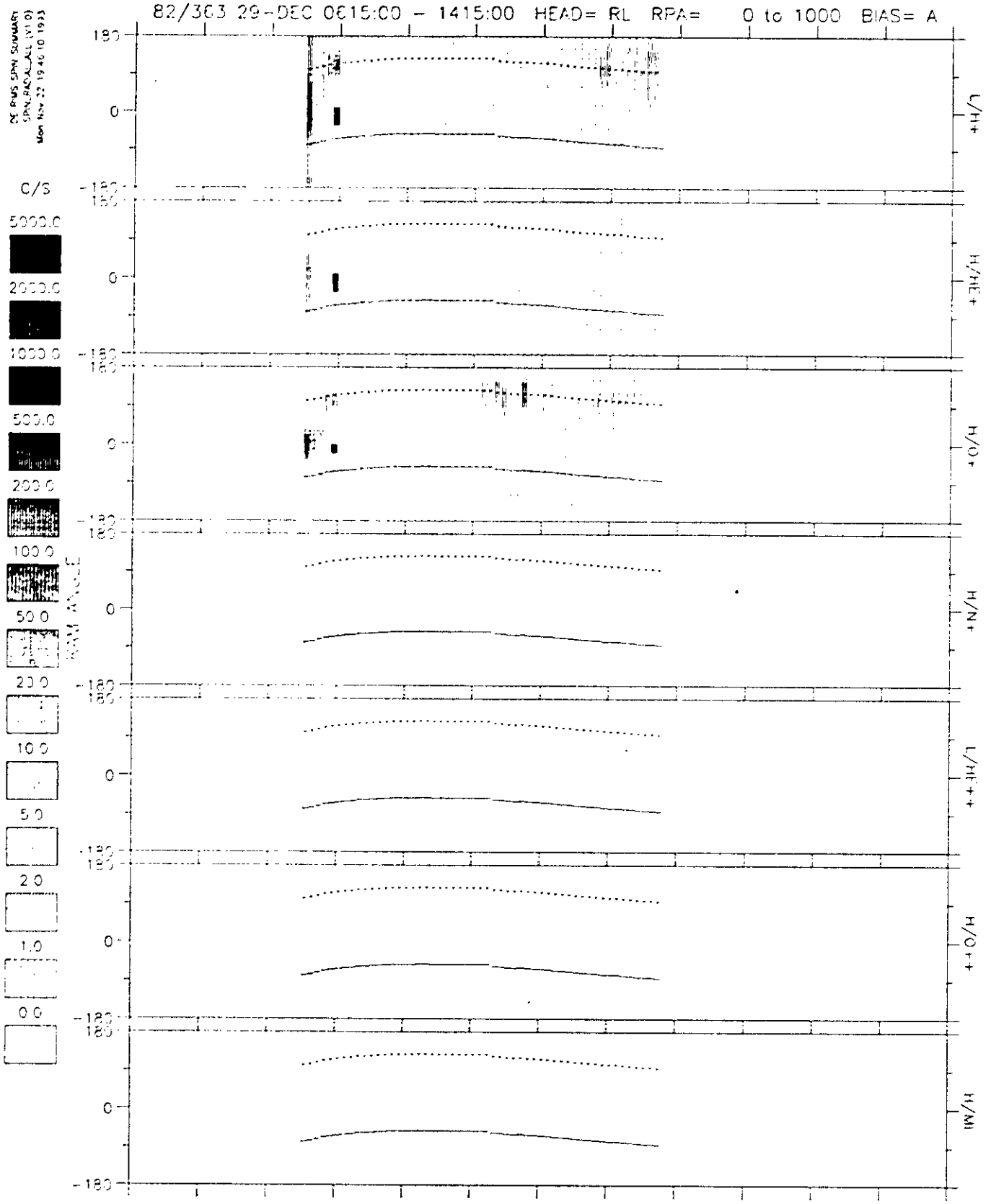
TIME	0000	0000	0000	1155	1235	1315	1355	0000	0000	1555	1635	HHMM
RE	0.0	0.0	0.0	3.1	3.9	4.4	4.6	0.0	0.0	3.7	2.8	RE
L	0.0	0.0	0.0	30.8	100.0	61.0	30.4	0.0	0.0	6.3	3.2	
MLT	0.0	0.0	0.0	14.9	10.5	7.3	6.3	0.0	0.0	4.9	4.5	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	0.00	0.00	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	79.6	85.0	82.6	79.5	0.0	0.0	66.6	56.0	DEGS



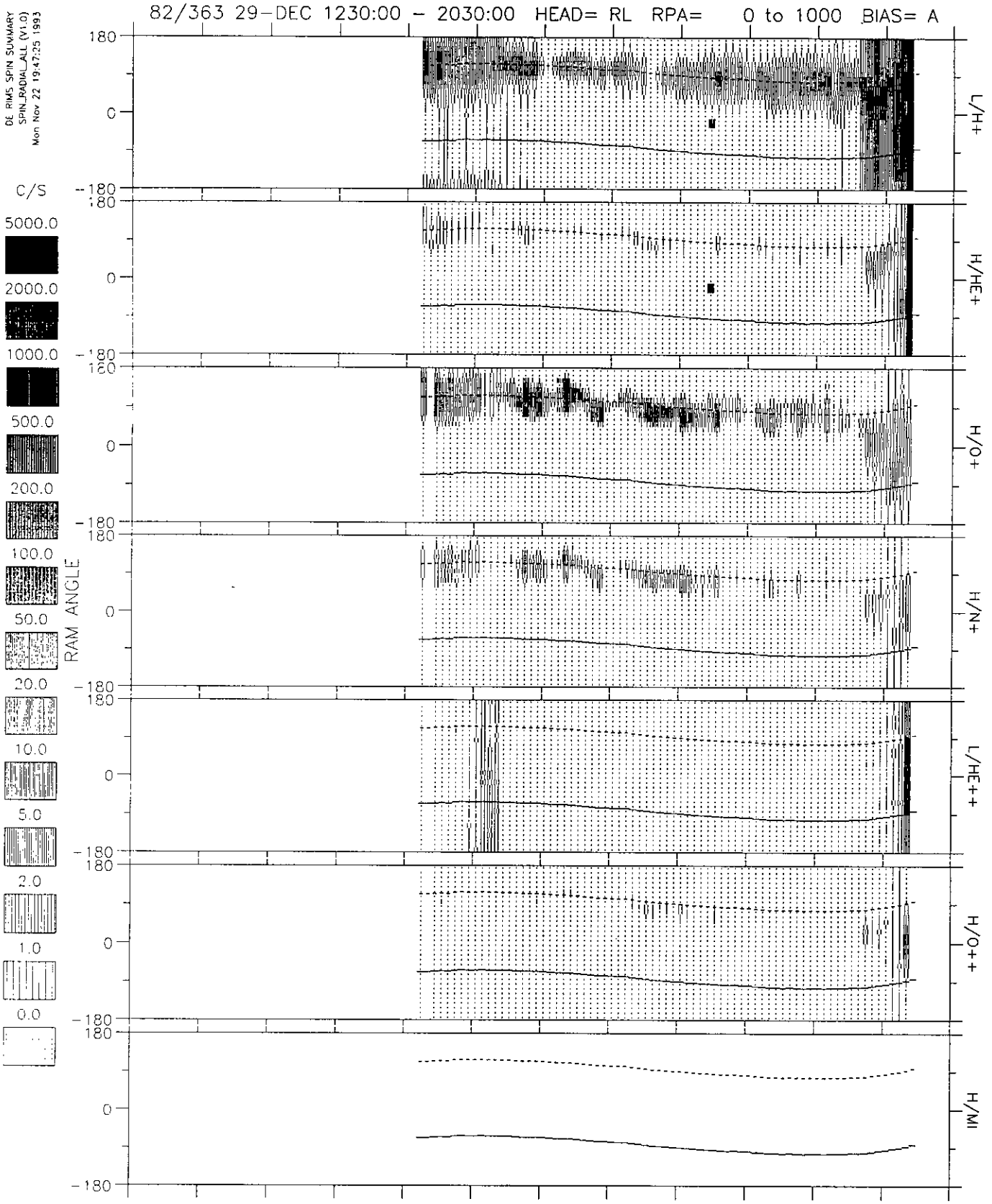
TIME	0000	0000	0000	0000	1920	2000	2040	2120	2200	0000	0000	HHMM
RE	0.0	0.0	0.0	0.0	3.8	4.4	4.6	4.6	4.4	0.0	0.0	RE
L	0.0	0.0	0.0	0.0	31.9	100.0	100.0	69.0	21.4	0.0	0.0	
MLT	0.0	0.0	0.0	0.0	15.3	14.8	4.1	3.5	3.4	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	79.8	80.5	88.1	83.1	77.5	0.0	0.0	DEGS



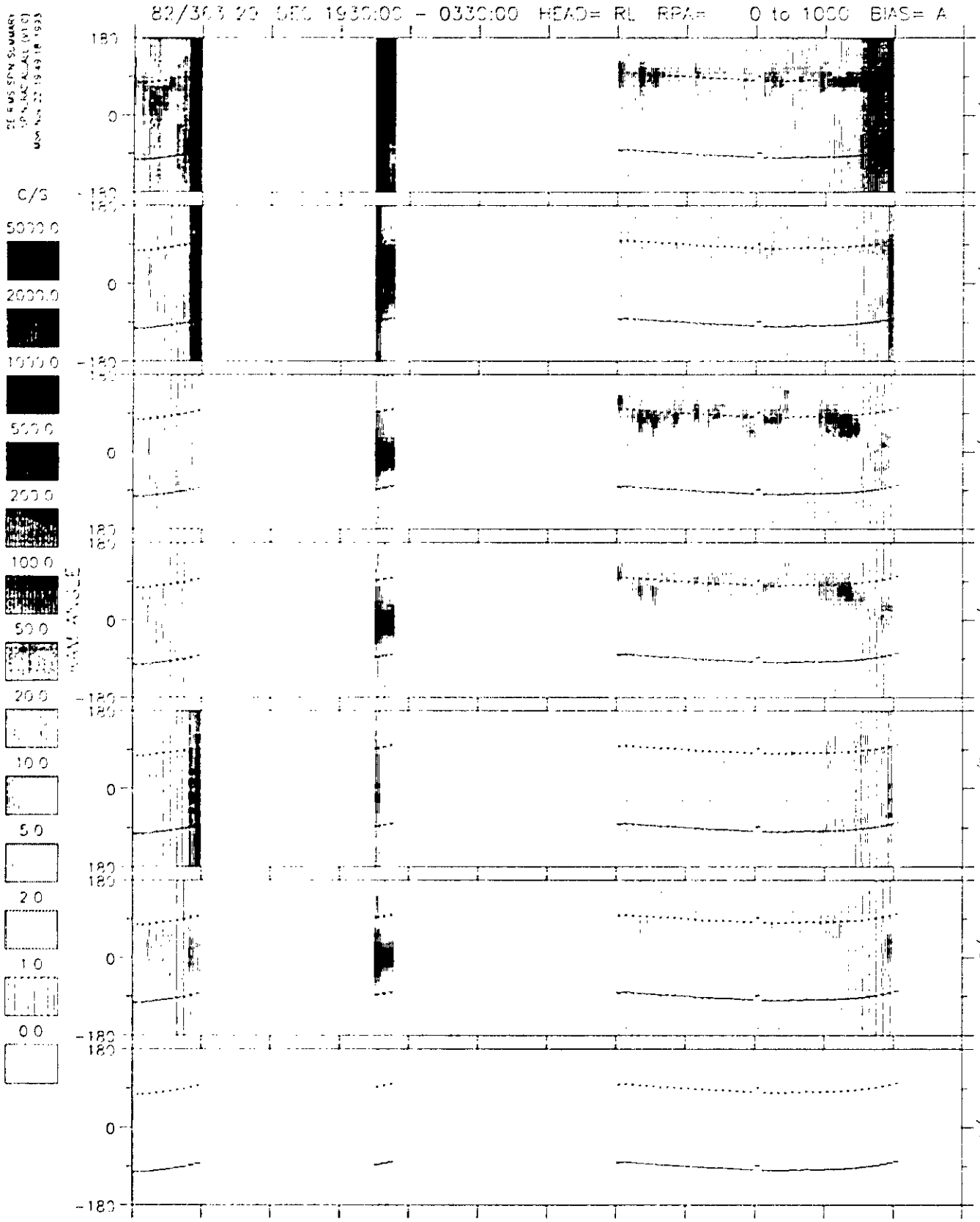
TIME	0000	0000	0000	0140	0220	0300	0340	0000	0000	0540	0000	HHMM
RE	0.0	0.0	0.0	3.1	4.0	4.4	4.6	0.0	0.0	3.7	0.0	RE
L	0.0	0.0	0.0	12.0	70.0	69.5	28.5	0.0	0.0	4.8	0.0	
MLT	0.0	0.0	0.0	17.3	20.0	0.4	2.3	0.0	0.0	4.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	0.00	0.00	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	73.2	83.1	83.1	79.2	0.0	0.0	62.9	0.0	DEGS



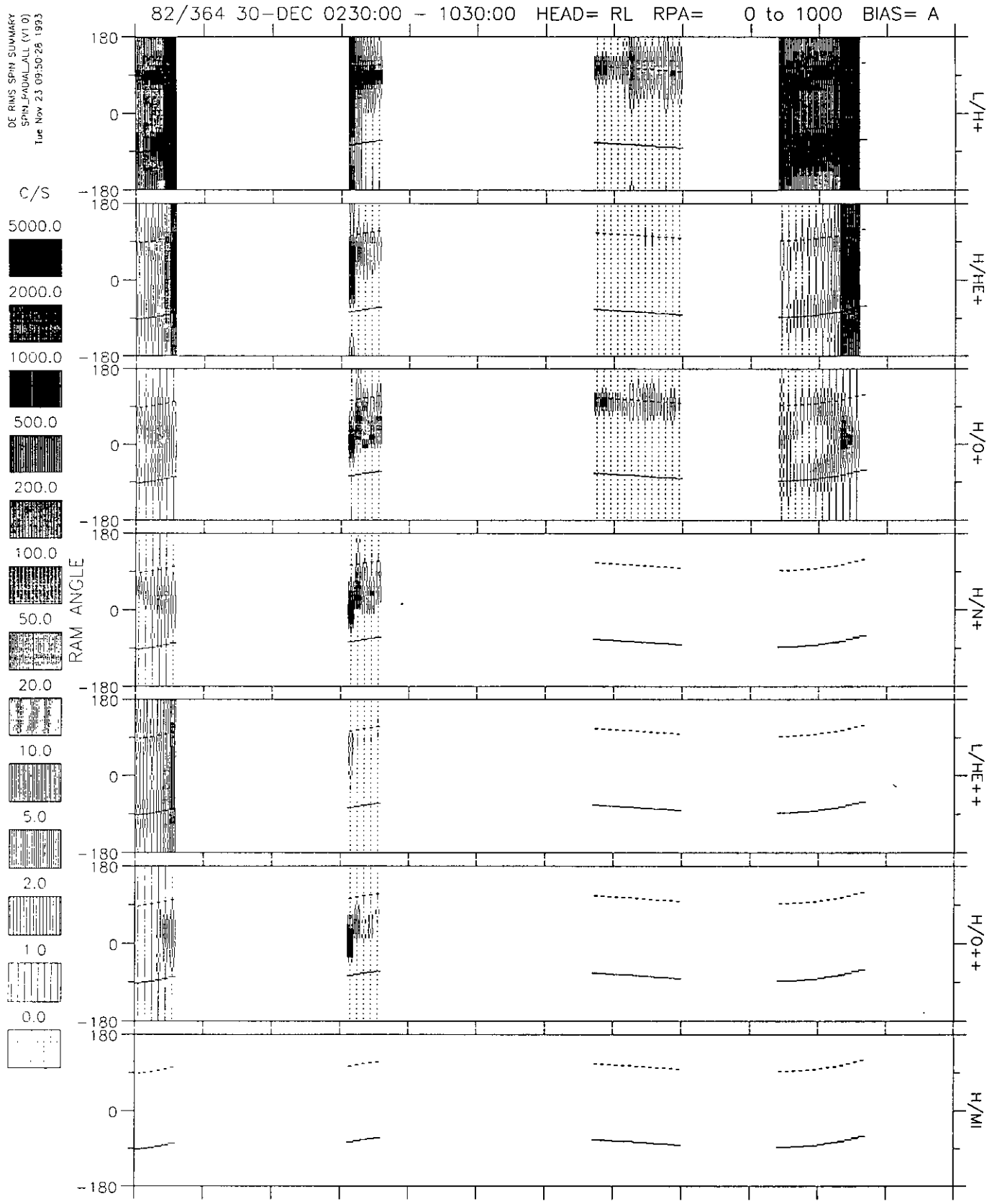
TIME	0000	0000	0815	0855	0935	1015	1055	0000	0000	0000	0000	HHMM
RE	0.0	0.0	2.8	3.7	4.3	4.6	4.6	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	22.2	-0.0	68.4	24.8	14.0	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	16.8	7.3	5.2	5.2	5.1	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	*****	*****	*****	*****	*****	0.00	0.00	0.00	0.00	DEGS
INV AT	0.0	0.0	77.8	-0.0	82.9	78.4	74.5	0.0	0.0	0.0	0.0	DEGS



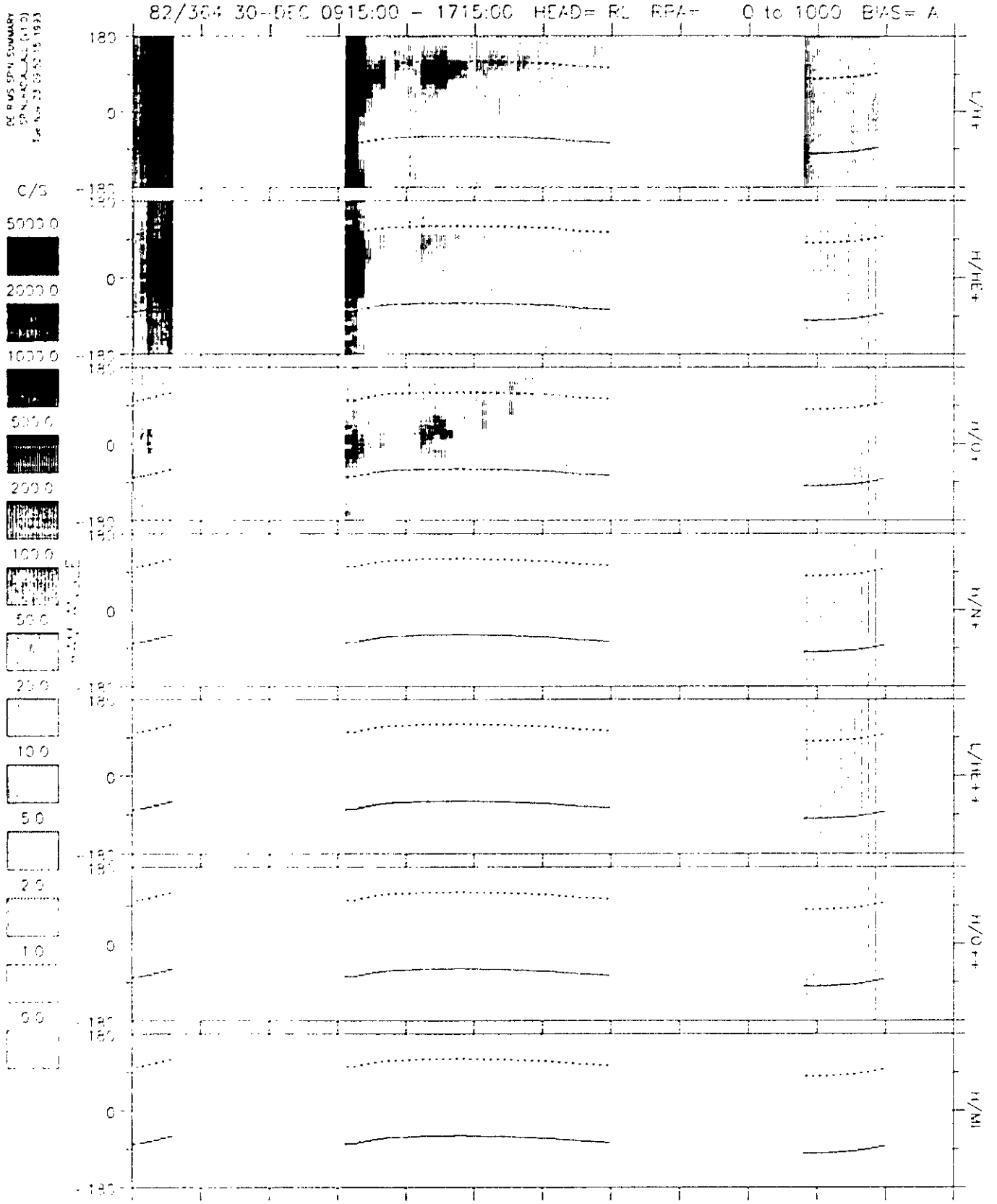
TIME	0000	0000	0000	0000	1550	1630	1710	1750	1830	1910	1950	HHMM
RE	0.0	0.0	0.0	0.0	3.8	4.3	4.6	4.6	4.4	3.9	3.0	RE
L	0.0	0.0	0.0	0.0	43.0	100.0	100.0	46.6	20.9	9.6	4.1	
MLT	0.0	0.0	0.0	0.0	13.6	10.6	7.3	5.6	4.8	4.3	4.1	HRS
MLAT	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	81.2	85.0	84.4	81.6	77.4	71.2	60.5	DEGS

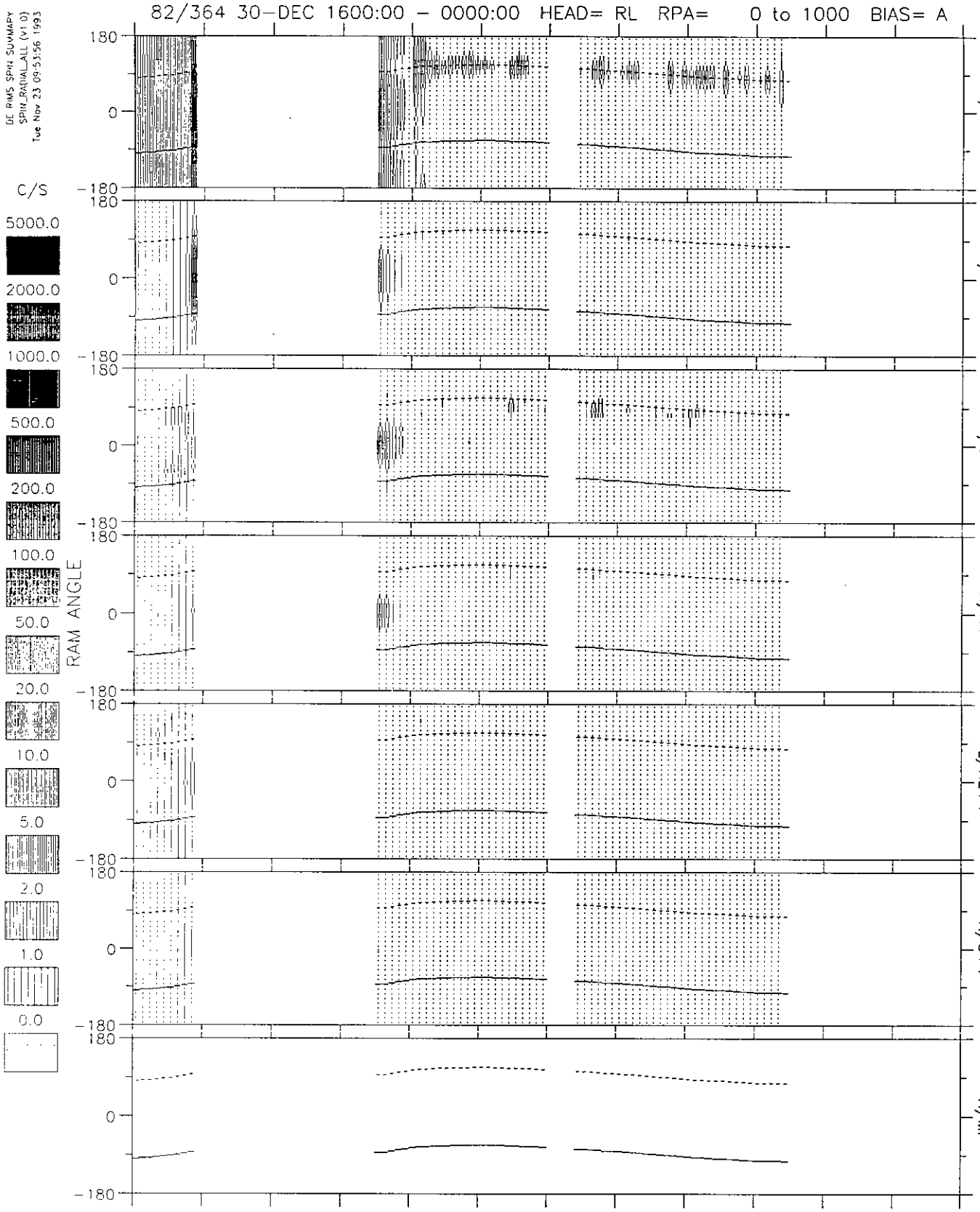


TIME	0000	0000	0000	0000	0000	0000	0010	0050	0130	0210	0250	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	4.3	3.7	2.8	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	80.9	26.9	12.1	6.1	3.1	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	2.9	3.3	3.7	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	*****	*****	*****	*****	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	83.6	78.9	73.3	66.2	55.7	DEGS

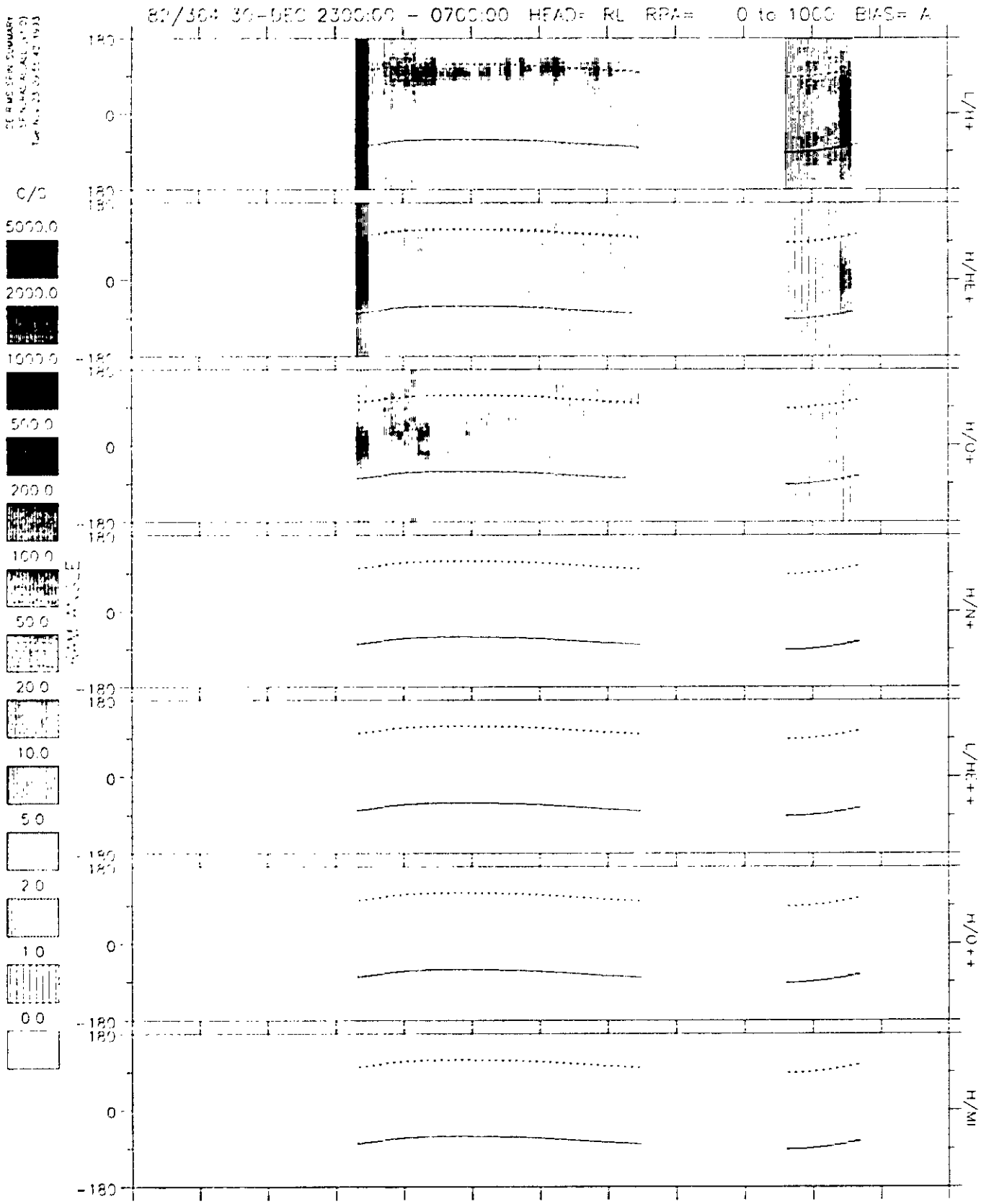


TIME	0000	0000	0000	0000	0000	0000	0710	0000	0000	0910	0000	HHMM
RE	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	3.5	0.0	RE
L	0.0	0.0	0.0	0.0	0.0	0.0	17.4	0.0	0.0	4.1	0.0	
MLT	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	4.5	0.0	HRS
MLAT	0.00	0.00	0.00	0.00	0.00	0.00	*****	0.00	0.00	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	0.0	0.0	0.0	76.1	0.0	0.0	60.3	0.0	DEGS

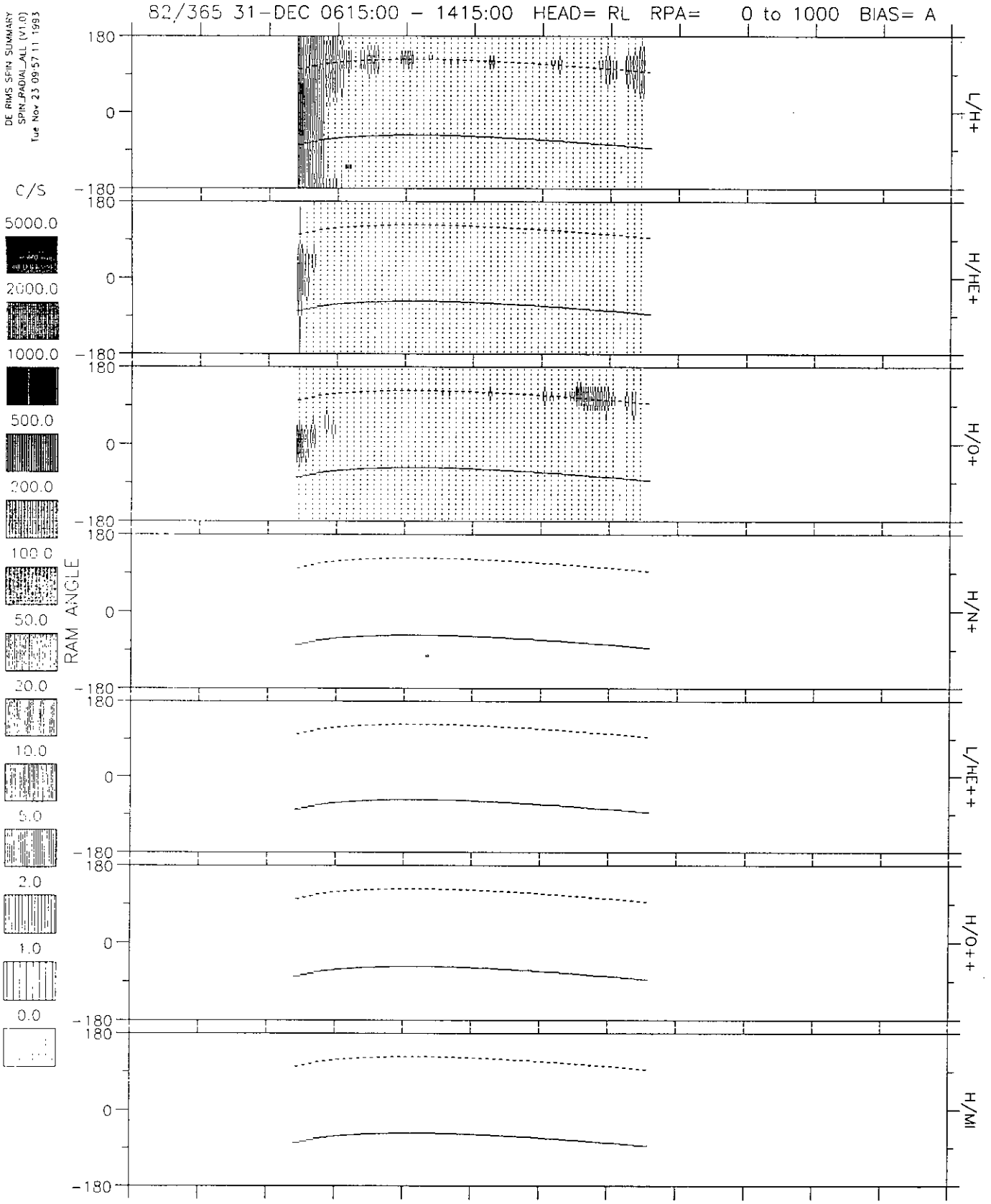

82/364 30-DEC 0915:00 - 1715:00 HEAD= RL RPA= 0 to 1000 BIAS= A
C/S
5000.0
2000.0
1000.0
500.0
200.0
100.0
50.0
20.0
10.0
5.0
2.0
1.0
0.0
L/HE+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/MI
TIME 0000 0000 0000 1155 1235 1315 0000 0000 0000 1555 0000 HHMM
RE 0.0 0.0 0.0 3.2 4.0 4.5 0.0 0.0 0.0 3.6 0.0 RE
L 0.0 0.0 0.0 38.9 100.0 58.2 0.0 0.0 0.0 5.9 0.0
MLT 0.0 0.0 0.0 14.5 9.9 7.1 0.0 0.0 0.0 4.7 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 80.8 84.9 82.5 0.0 0.0 0.0 65.8 0.0 DEGS



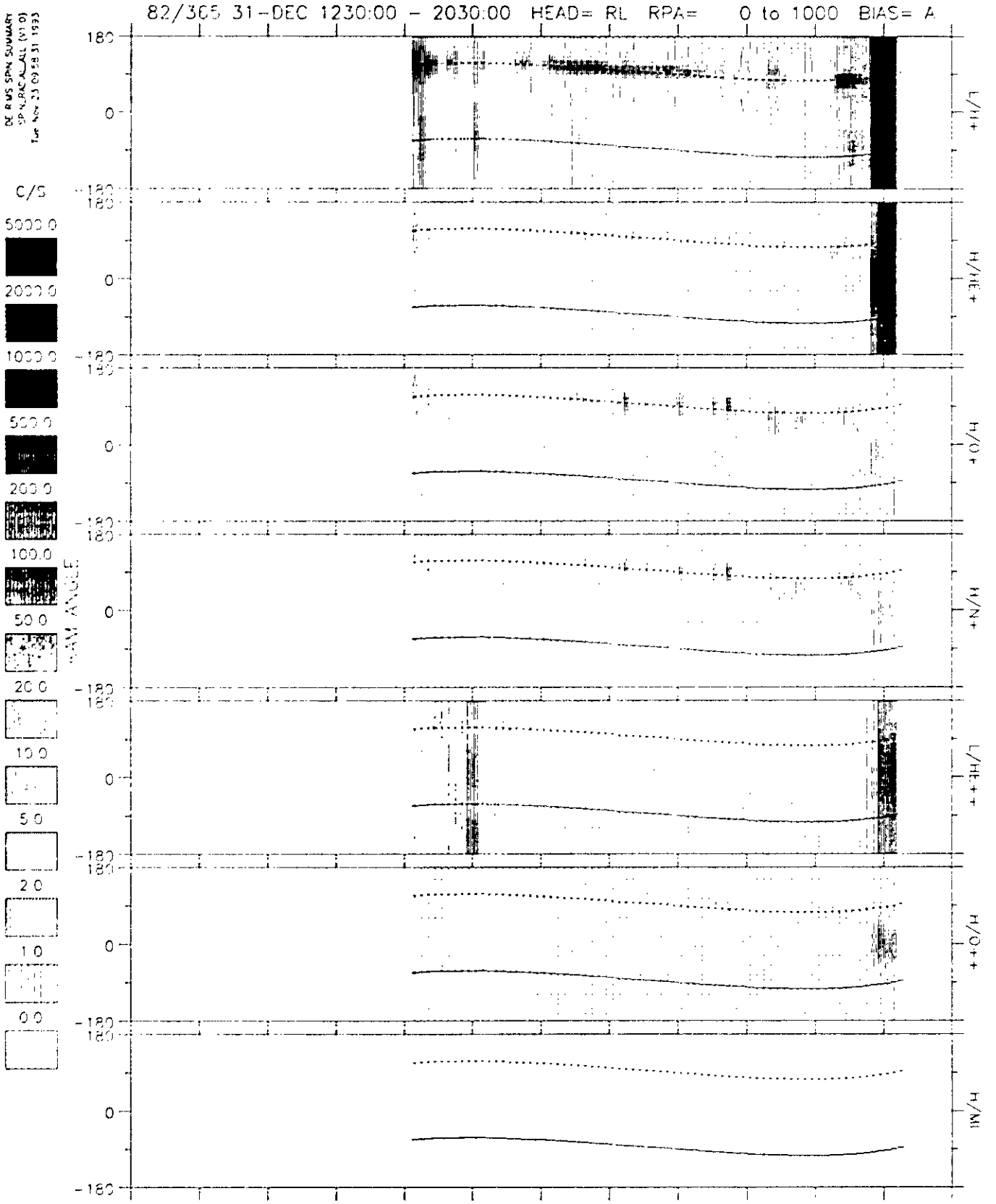
TIME	0000	0000	0000	1840	1920	0000	2040	2120	2200	0000	0000	HHMM
RE	0.0	0.0	0.0	3.1	3.9	0.0	4.6	4.6	4.3	0.0	0.0	RE
L	0.0	0.0	0.0	8.8	37.2	0.0	100.0	61.3	19.6	0.0	0.0	
MLT	0.0	0.0	0.0	15.4	15.2	0.0	3.7	3.3	3.3	0.0	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	0.00	*****	*****	*****	0.00	0.00	DEGS
INVLAT	0.0	0.0	0.0	70.3	80.6	0.0	87.7	82.7	76.9	0.0	0.0	DEGS



TIME	0000	0000	0000	0140	0220	0300	0340	0000	0000	0540	0000	HHMM
RE	0.0	0.0	0.0	3.3	4.1	4.5	4.7	0.0	0.0	3.6	0.0	RE
L	0.0	0.0	0.0	17.3	78.7	63.9	26.5	0.0	0.0	4.5	0.0	
MLT	0.0	0.0	0.0	17.4	20.3	0.5	2.2	0.0	0.0	3.9	0.0	HRS
MLAT	0.00	0.00	0.00	*****	*****	*****	*****	0.00	0.00	*****	0.00	DEGS
INVLAT	0.0	0.0	0.0	76.1	83.5	82.8	78.8	0.0	0.0	61.9	0.0	DEGS



TIME	0000	0000	0815	0855	0935	1015	1055	0000	0000	0000	0000	HHMM
RE	0.0	0.0	2.9	3.8	4.4	4.6	4.6	0.0	0.0	0.0	0.0	RE
L	0.0	0.0	32.3	100.0	59.9	23.7	13.6	0.0	0.0	0.0	0.0	
MLT	0.0	0.0	16.6	5.7	5.1	5.0	5.0	0.0	0.0	0.0	0.0	HRS
MLAT	0.00	0.00	*****	*****	*****	*****	*****	0.00	0.00	0.00	0.00	DEGS
INVLAT	0.0	0.0	79.9	88.7	82.6	78.2	74.2	0.0	0.0	0.0	0.0	DEGS


82/365 31-DEC 1230:00 - 2030:00 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
PAW ANGLE
180
0
-180
L/H+
H/HE+
H/O+
H/N+
L/HE++
H/O++
H/NI
TIME 0000 0000 0000 0000 1550 1630 1710 1750 1830 1910 1950 HHMM
RE 0.0 0.0 0.0 0.0 3.9 4.4 4.6 4.0 4.3 3.8 2.9 RE
L 0.0 0.0 0.0 0.0 48.0 100.0 100.0 44.7 19.7 8.9 3.7
MLT 0.0 0.0 0.0 0.0 13.3 10.2 6.9 5.4 4.6 4.2 3.9 HRS
MLAT 0.00 0.00 0.00 0.00 ***** ***** ***** ***** ***** ***** ***** DEGS
INVLAT 0.0 0.0 0.0 0.0 81.8 85.1 84.4 81.4 77.0 70.4 58.6 DEGS

APPROVAL

DYNAMICS EXPLORER 1, RETARDING ION MASS SPECTROMETER SUMMARY SPECTROGRAMS—82/230 TO 82/365 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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REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

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1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	March 1995	Technical Memorandum

4. TITLE AND SUBTITLE
Dynamics Explorer 1, Retarding Ion Mass Spectrometer Summary Spectrograms—82/230 to 82/265 Spin-Time Spectrograms for H^+, He^+, O^+, N^+, O^{++}, M/Z=2, and Molecular Ions

5. FUNDING NUMBERS

6. AUTHOR(S)
DE 1/RIMS Investigators

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
George C. Marshall Space Flight Center
Marshall Space Flight Center, AL 35812

8. PERFORMING ORGANIZATION REPORT NUMBER

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)
National Aeronautics and Space Administration
Washington, D.C. 20546

10. SPONSORING/MONITORING AGENCY REPORT NUMBER
NASA TM- 108486

11. SUPPLEMENTARY NOTES
Point of Contact: B. L. Giles/ES83/205-544-7637
Prepared by Space Sciences Laboratory, Science & Engineering Directorate.

12a. DISTRIBUTION/AVAILABILITY STATEMENT
Unclassified--Unlimited

12b. DISTRIBUTION CODE

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
Low-Energy Ions, Inner Magnetosphere, DE RIMS Data

15. NUMBER OF PAGES
400

16. PRICE CODE
NTIS

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
Unclassified	Unclassified	Unclassified	Unlimited

National Aeronautics and
Space Administration
Code JTT
Washington, DC
20546-0001

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