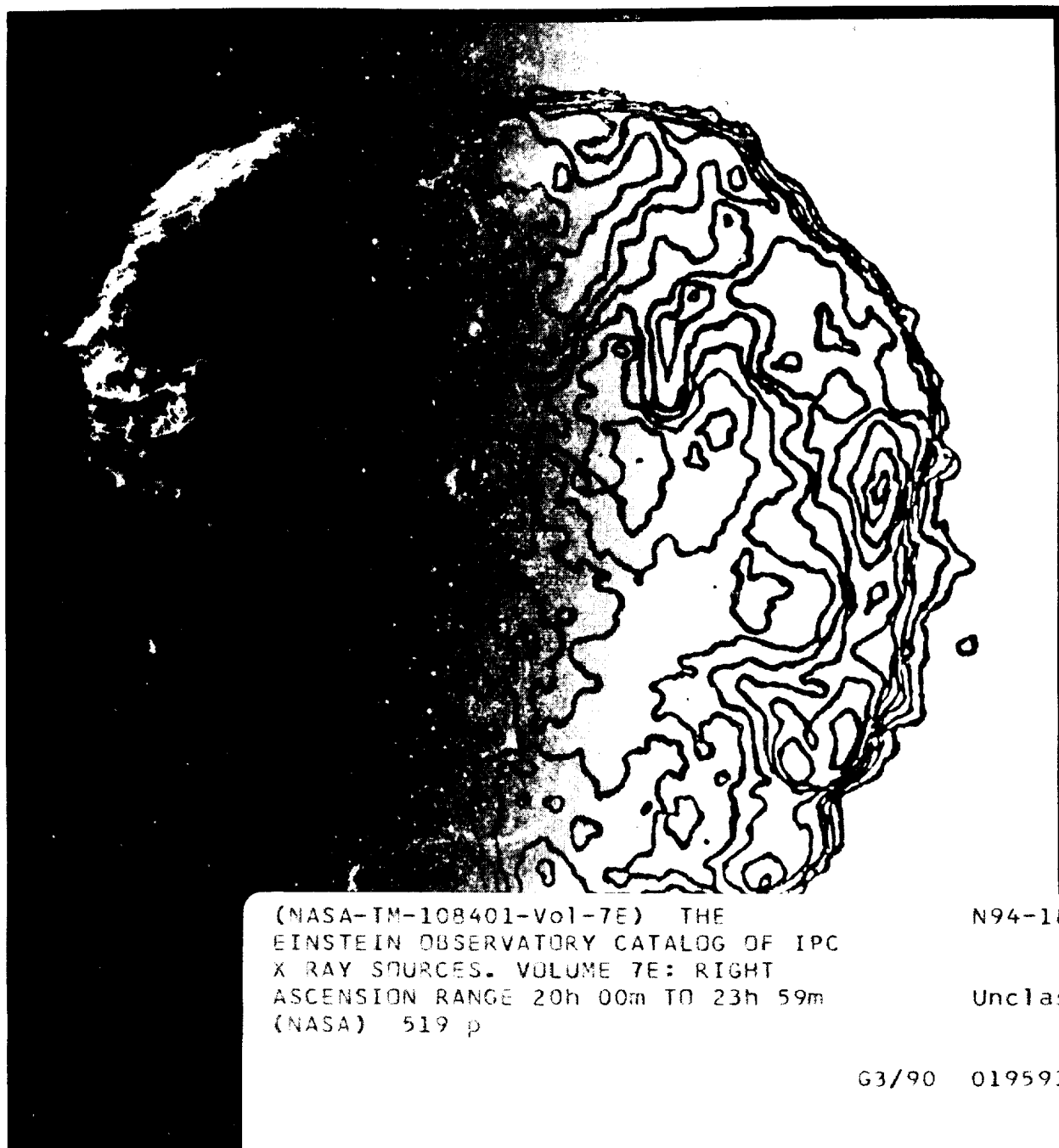


THE EINSTEIN OBSERVATORY CATALOG OF IPC X-RAY SOURCES



(NASA-TM-108401-Vol-7E) THE
EINSTEIN OBSERVATORY CATALOG OF IPC
X RAY SOURCES. VOLUME 7E: RIGHT
ASCENSION RANGE 20h 00m TO 23h 59m
(NASA) 519 p

N94-18618

Unclas

G3/90 0195934



[Relevant section numbers of Volume 1 are given in square brackets.]

- A) Sequence number of the observation. [5.0]
- B) Right ascension (1950) of the field center.
- C) First contour level (counts arcmin⁻²) and peak value. Successive contours increase by factors of 2. Negative contours are dotted. [4.5]
- D) Numbers of deep survey (DS) and bright Earth (BE) counts contained in the background map which has been subtracted from the data. [4.5]
- E) "Road-map" grid defining detector coordinates. These are required for estimating intensity upper limits. They are not present for observations which include data with "unstable" pointings. [4.6]
- F) Gray scale showing the relative exposure map (dominated by vignetting and the rib support shadows). [4.3]
- G) Intensity map, with detected sources indicated by field number and a cross (also listed in the table below the map). The map has had the background subtracted and has been corrected for vignetting. [4.1, 4.2] The coordinates of the map are R.A. and decl. (1950).
- H) Observation title from "Yellow Book" (Seward and Martenis 1986).
- I) Position of the field center in celestial (B1950 and J2000) and Galactic coordinates. [3.1]
- J) Other field data: start and stop dates [3.2]; live time [3.3]; roll angle of detector (clockwise from north; for zero degrees roll, detector letters are along the bottom of the road map) [3.4]; and the column density of neutral hydrogen in our Galaxy [3.5].
- K) Ref/ID flag: a nonblank entry indicates that a paper has been published on this field or on a source in the field. [3.6; Appendix I]
- L) Field flag [3.7]:
 - B: Background map suspect; may affect MDETECT
 - C: Combined fields: a merged map exists [Appendix J]
 - D: Deletion of one or more detections judged to be spurious [Appendix F]
 - G: Ghost image probably present
 - L: LDETECT only (MDETECT not run)
 - P: Particle-event contamination possible in background
 - S: Source has been missed by the detect algorithms [Appendix G]
 - T: Time correction redone to rectify erroneous dead-time calculation
- M) Catalog number and field number for the sources. An "L" following the field number indicates that the source was found by LDETECT only. [5.1, 5.2]
- N) Corrected count rate, as measured in a 2'4 box [5.4]. A preceding "*" warns that the intensity may be underestimated [5.8].
- O) Cell counts and the signal to noise ratio of the detection. [5.5, 5.6]
- P) SIZCOR, an intensity correction factor useful in estimating the intensity of extended sources, is the ratio of counts within the 3 σ (lowest) contour to the net cell counts (corrected for the point response function) [5.7]. RECO, the "rib and edge code," when nonzero, indicates that intensity measurements may be underestimated [5.8]. R' is the distance from the source to the field center in arcminutes.
- Q) Source flag [5.10]:
 - A: Additional detection(s) occurred in other field(s). [Appendix H]
 - a: Probably should be paired with another detection, but separation exceeded cutoff and thus not assigned an "A" flag.
 - E: Intensity corrected for source near the exposure cutoff at the field edge.
 - H: A hardness ratio is available [Appendix D]
 - I: Source detected by LDETECT near field edge. Intensity adjusted to remove redundant exposure correction.
- R) Ref/ID flag; see (K) above. [5.11]
- S) Volume number and page number



THE EINSTEIN OBSERVATORY CATALOG OF IPC X-RAY SOURCES

The *Einstein* Catalog Committee

D. E. Harris (<i>chair</i>)	T. Maccacaro
W. Forman	J. D. McSweeney
I.M. Gioia	F. A. Primini
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F.R. Harnden, Jr.	H. D. Tananbaum
C. Jones	J. Thurman
T. Karakashian	

Smithsonian Astrophysical Observatory
Cambridge, MA, USA

Volume 7

20^h 00^m

to

23^h 59^m

1990

The graphic inset on the cover was designed by Elizabeth Bohlen. The X-ray contours of the Cygnus Loop were generated by F. Seward from a montage of several IPC observations. The optical photograph is from the Palomar Sky Atlas; ©1960 The National Geographic Society - Palomar Sky Survey. Reproduced by permission of the California Institute of Technology.

The first volume of this seven-volume catalog contains complete documentation for the material that follows. Volumes 2–7 contain the Einstein imaging proportional counter (IPC) observations, ordered by right ascension with 4 hours per volume. Here we provide a short guide to the catalog pages, but the user is referred to Volume 1 for the details of this catalog.

1 The Contour Map

The map is constructed from the BROAD energy band (0.16–3.5 keV), smoothed with a Gaussian of FWHM=75". The data have had background subtracted and vignetting corrections applied. X-ray brightness units are counts arcmin⁻², with contour levels increasing by factors of 2. Dashed contours indicate negative levels (with the same values as the positive contours). The lowest positive contour level is 3 σ above the background at the field center; this level and the peak brightness level in the map are given in the lower left-hand corner.

Sources satisfying the catalog selection criteria (cf. § 2 of Vol. 1) are indicated by crosses, with their field numbers adjoining the cross. The gray scale shows the relative exposure, ranging from 1.0 at the field center (white) to zero under the rib shadows. Although it is difficult for the eye to differentiate between zero and the normal values in the field corners (about 0.25), we have chosen this low-contrast gray scale so that the contours will still dominate the visual impression. The exposure map is zeroed at any location where the effective exposure is < 300 s or <25% of the value at the field center.

For observations with "stable" pointings, a "road-map" index surrounds the map. This grid of characters defines detector coordinates, and may be used with the tables in Appendix B (Vol. 1) to estimate upper limits for X-ray intensities at arbitrary locations within the field.

In the lower right-hand corner we give the counts in the background maps which were subtracted from the image prior to smoothing the data. "DS BKG CNTS" gives the total counts in the scaled version of the standard background map made from a superposition of deep survey fields. "BE BKG CNTS" specifies the contribution (positive or negative) to the background map from the standard "bright Earth" background.

2 Field Description

Beneath the contour diagram are parameters pertaining to the observation. The observation title was taken from the "Yellow Book" (Seward and Martenis, 1986), which is known to contain a few misnamed sequences. Titles preceded by "(?)" appear in Table 3.0 (cf. § 3.0 of Vol. 1), which lists possibly misleading titles. The coordinates of the field center are given for two epochs, B1950 and J2000, as well as in Galactic coordinates. The date entry gives the start day and stop day of the observation in yyyy/ddd format. The "live time" is the data-acquisition time corrected for telemetry dead-time effects. The roll angle is given for observations with stable pointings, and is the angle which specifies the orientation of the detector on the sky, with positive values indicating clockwise rotation when looking at the sky, starting from north as zero degrees. For a roll angle of zero, the "narrowest edge area" (i.e., outside the shadow of the entrance window support "ribs"; cf. Vol. 1) lies horizontally along the top of the map; the numbered detector coordinate scale runs down the left side; and the lettered scale is on the bottom, running from left to right.

The column density of neutral hydrogen in our Galaxy for the pointing direction, given as the " N_H " parameter, has been integrated from radio observations of the HI line. The "Ref/ID" flag, if present, alerts the reader that Appendix I of Volume 1 contains an entry referring to a publication dealing with this observation. The field flag is used to describe certain conditions which are listed at the end of this introduction.

3 The Source Table

Whenever sources have been detected (at signal-to-noise ratios ≥ 3.5 , in the BROAD energy band), a source table is present below the field description. The catalog number identifies unique sources in this catalog. The field number should be considered an "internal" catalog parameter to be used to facilitate the correlation of contour map features with their entries in the source table and to locate source information in the appendices. "External" references to sources should use the IAU conventions or the catalog number, both preceded by "2E," which is the adopted prefix for this catalog (see Vol. 1, §1.5).

The count rate (with its 1σ uncertainty) refers to that measured in the standard detect cell (2'4 on a side) and has been corrected for telescope vignetting as well as for the standard scattering correction. The net and background counts also refer to the standard detect cell and are provided to assist users in evaluating source reliability. The signal-to-noise ratio of the detection is also given.

The size correction ("SIZCOR") is a multiplicative factor useful in estimating the intensity of sources which are much more extended than the resolution of the maps (approximately 2' FWHM). RECO is the "rib and edge code" and, when nonzero, alerts the user to the condition that the source intensity measurement may be affected by shadowing of the window support structure (ribs) or proximity to a detector edge. The distance of the source from the field center is given in arcminutes by R' .

The source flag is a one letter indicator denoting certain conditions described below, and the "ID" flag, when present, indicates that references to published papers concerning the source can be found by consulting Appendix I (Vol. 1).

4 Meaning of the Flags

Complete descriptions of the purpose and meaning of the various flags is given in Volume 1; here we give only a brief summary.

Ref/ID FLAGS

AGN	Active galactic nucleus
BL	BL Lac object
CLG	Cluster of galaxies or group of galaxies
CV	Cataclysmic variable
G	Galaxy
GLB	Globular cluster
P	Pulsar
Q	Quasar
RS	Radio source (optical type not specified)
S	Star
SNR	Supernova remnant
SY	Seyfert galaxy
*	Unspecified type: indicates separation $< 100''$
†	Unspecified type: indicates separations between $100''$ and $150''$
!	Unspecified type of (undetected) source(s) in the field

FIELD FLAGS

- B — Background is suspect; not a reference to further information. For a very few sequences, the MDETECT background map seemed unsuccessful in representing the true background. In these rare cases, the reliability of MDETECT sources (and the values of SIZCOR) may have been affected.
- C — Combined to form merged field. The current observation has been merged with one or more additional pointings to produce a combined map with a "new" sequence number. Results of the merged analyses appear in Appendix J, but in order to preserve statistical independence they were not included in the IPC source list (Vol. 1).
- D — Deleted detections. One or more detections have been deleted from this field and are listed in Appendix F of Volume 1. Such detections (primarily within extended emission regions such as supernova remnants and clusters) were deleted from the catalog because they were judged to be spurious.

- G — Ghost image (probably) present. See Appendix A of Volume 1 for a description of this effect due to bright sources just outside the IPC field of view.
- L — LDETECT only; not a reference to further information. Reasons for not running the MDETECT detection algorithm are discussed in Appendix A of Volume 1.
- P — Particle-event contamination of the background.
- S — Sources missed. One or more known sources in this field were missed by the detection algorithms. A list of such sources appears in Appendix G of Volume 1.
- T — Time correction made. The dead-time correction used in Rev1B was in error by 3% or more (occurred for 84 IPC sequences); this sequence has been reprocessed to obtain the proper live time.

SOURCE FLAGS

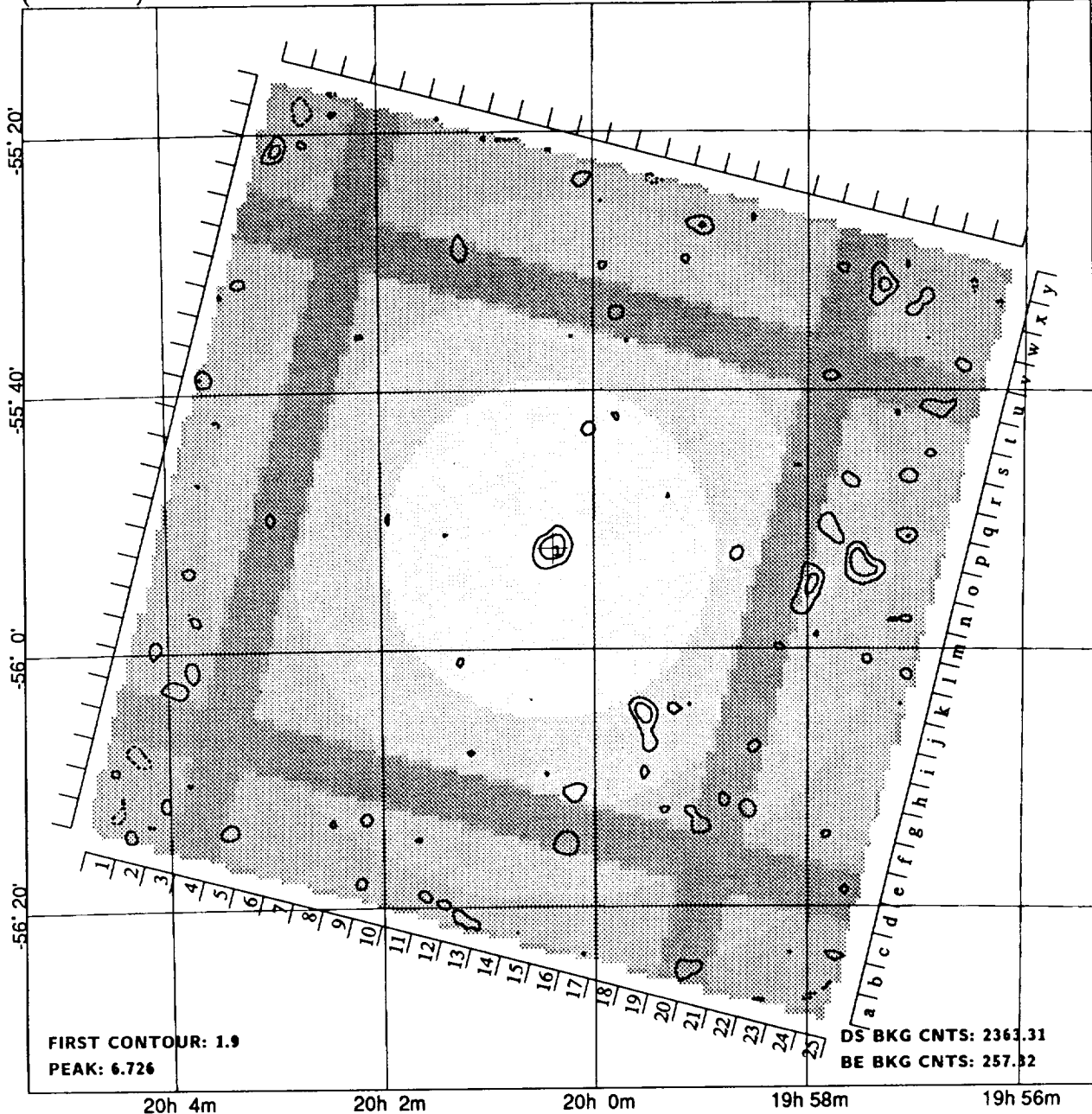
- A: Additional detection(s) occurred in other field(s).
- a: Probably should be paired with another detection, but separation exceeded cutoff; thus not assigned an “A” flag.
- E: Intensity corrected for source near the exposure cutoff at the field edge.
- H: A hardness ratio is available (cf. Appendix D of Vol. 1).
- I: Source detected by LDETECT near field edge. Intensity adjusted to remove redundant exposure correction.



(20h 0m)

I 3321

(20h 0m)



FIRST CONTOUR: 1.9
 PEAK: 6.726

D5 BKG CNTS: 2363.31
 BE BKG CNTS: 257.32

SYMBIOTIC STARS: RR TEL

FIELD CENTER: 20^h00^m19.9^s -55°52'03" (B1950)
 20^h04^m18.3^s -55°43'33" (J2000)
 l : 342.16 b : -32.24

DATE: 1979/ 99 - 1979/ 99
 LIVETIME: 1915.0s
 ROLL ANGLE: -75.6°

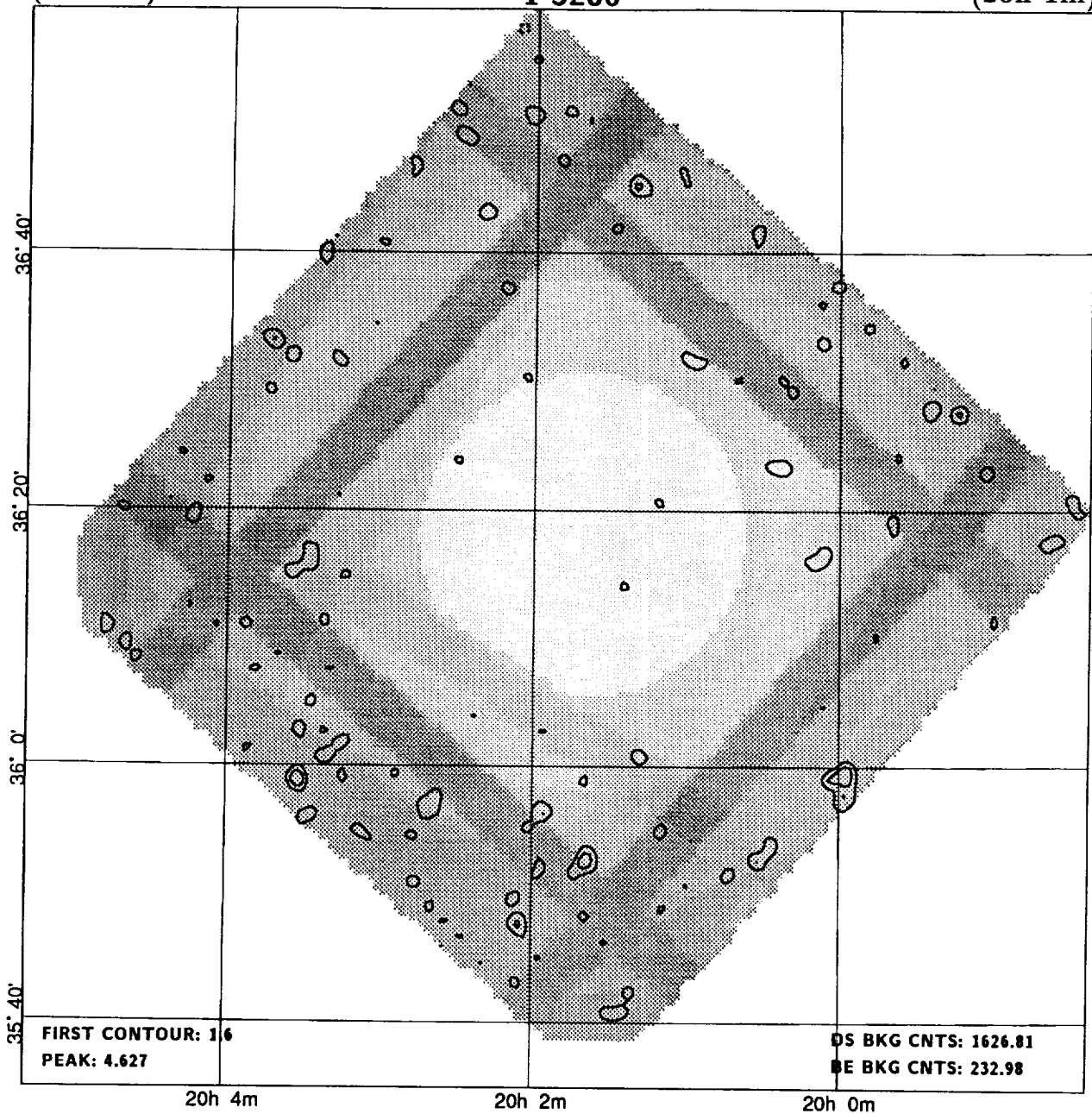
NH: 5.8E+20
 REF/ID: S
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4313	1	20 00 23.0	-55 52 11	36	0.0192	0.0041	27.4	6.6	4.7	0.9	0	0.4	H	S

(20h 1m)

I 3280

(20h 1m)



CANDIDATE X-RAY BINARY SOURCES: HD 190467

FIELD CENTER: $20^{\text{h}}01^{\text{m}}50.2^{\text{s}}$ $36^{\circ}16'59''$ (B1950)
 $20^{\text{h}}03^{\text{m}}41.7^{\text{s}}$ $36^{\circ}25'31''$ (J2000)
 $l: 72.95$ $b: 2.79$

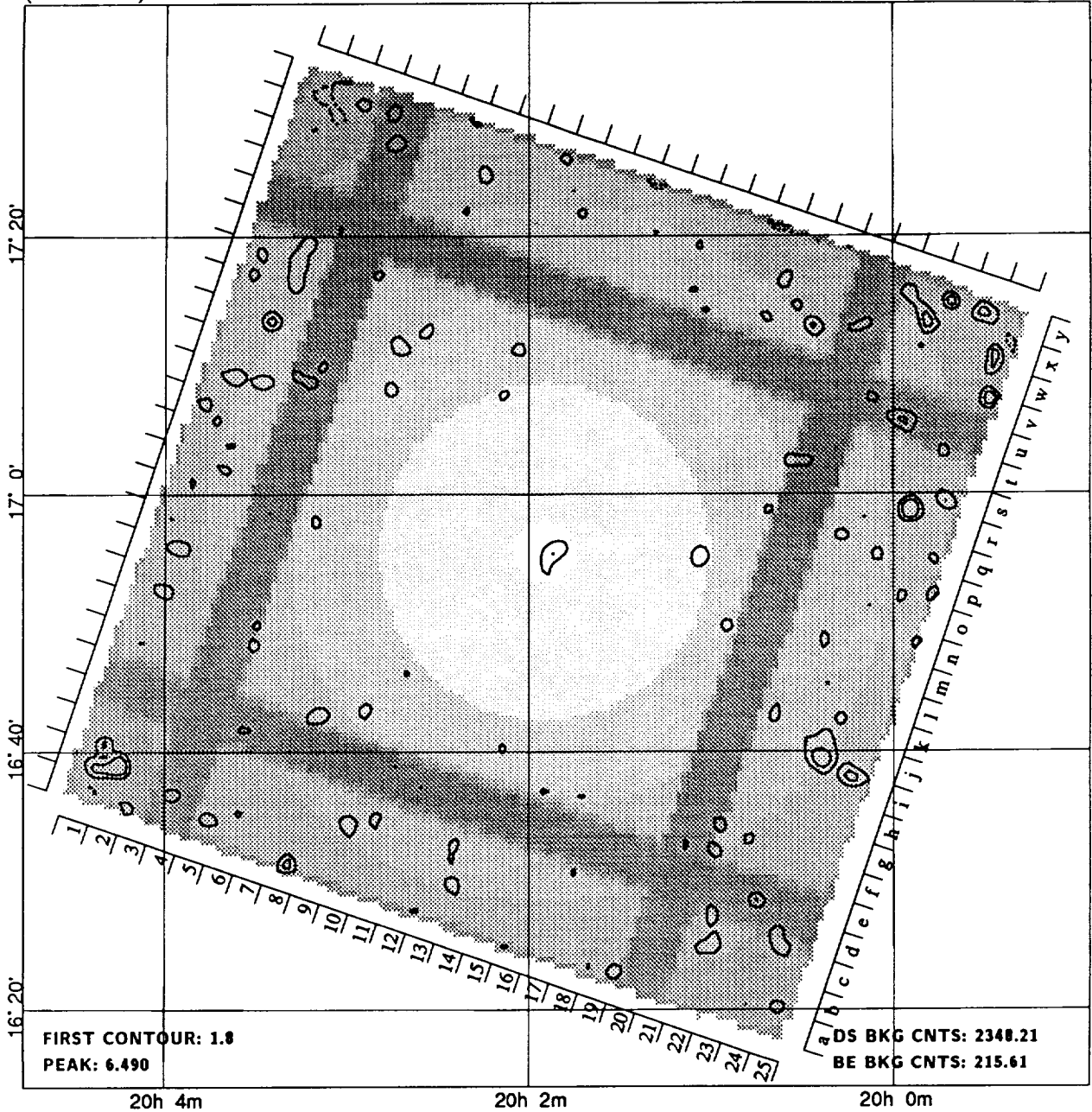
DATE: 1979/328 - 1979/336
 LIVETIME: 1318.3s

NH: $8.0\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(20h 1m)

I 7914

(20h 1m)



20h 4m

20h 2m

20h 0m

HD 190406, CORONAL ACTIVITY IN F, G, & K STARS

FIELD CENTER: $20^{\text{h}}01^{\text{m}}51.1^{\text{s}}$ $16^{\circ}55'59''$ (B1950)
 $20^{\text{h}}04^{\text{m}}07.3^{\text{s}}$ $17^{\circ}04'32''$ (J2000)
 $l: 56.56$ $b: -7.55$

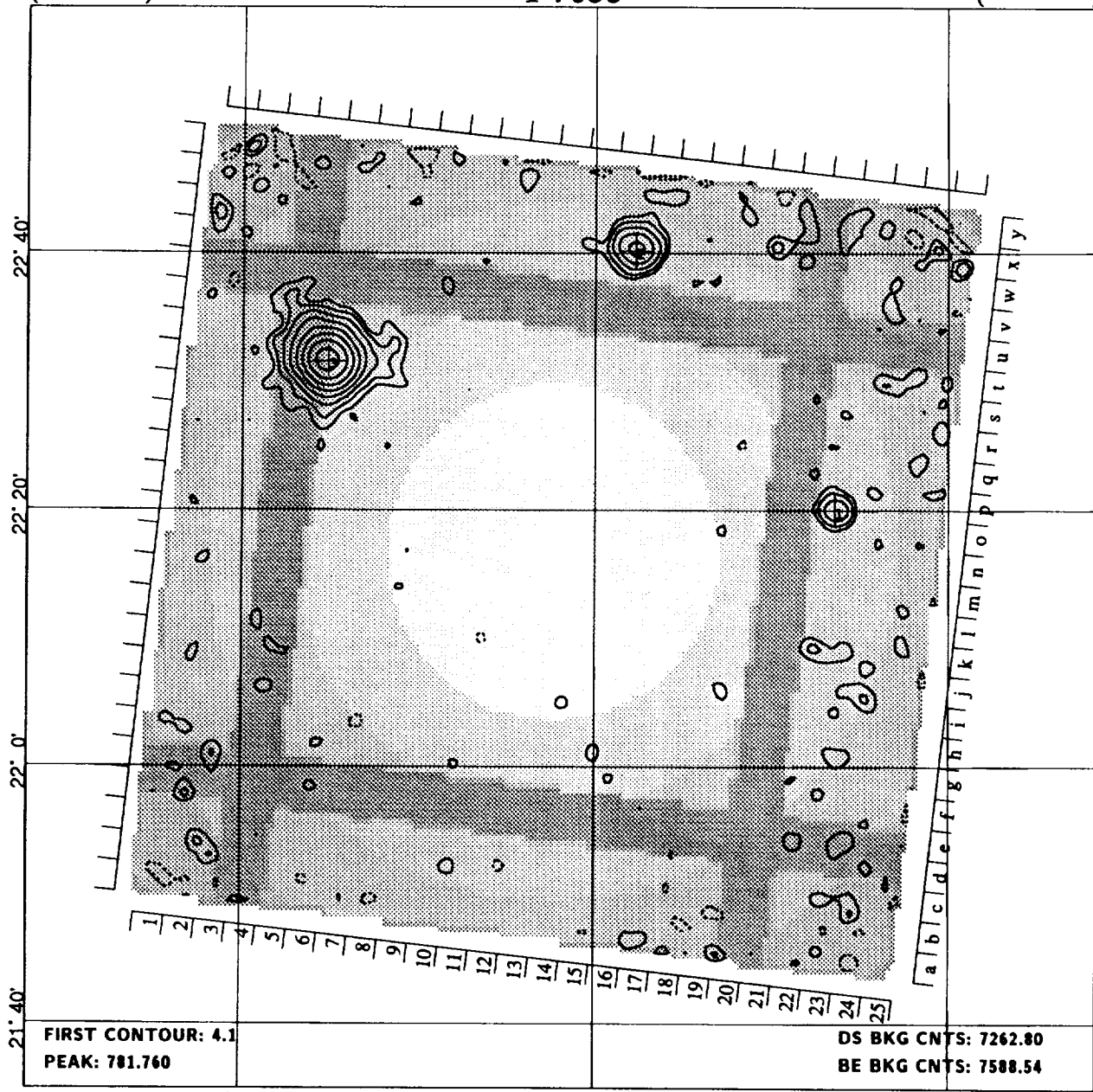
DATE: 1980/125 - 1980/125
 LIVETIME: 1971.1s
 ROLL ANGLE: -71.2°

NH: $2.0\text{E}+21$
 REF/ID: !
 FIELD FLAGS:

(20h 2m)

I 7658

(20h 2m)



FIRST CONTOUR: 4.1
 PEAK: 781.760

DS BKG CNTS: 7262.80
 BE BKG CNTS: 7588.54

20h 4m

20h 2m

20h 0m

H2003+22, POSITION 2

FIELD CENTER: 20^h02^m10.9^s 22°17'05" (B1950)
 20^h04^m21.1^s 22°25'39" (J2000)
l: 61.16 *b*: -4.78

DATE: 1981/101 - 1981/101
 LIVETIME: 5885.3s
 ROLL ANGLE: -83.6°

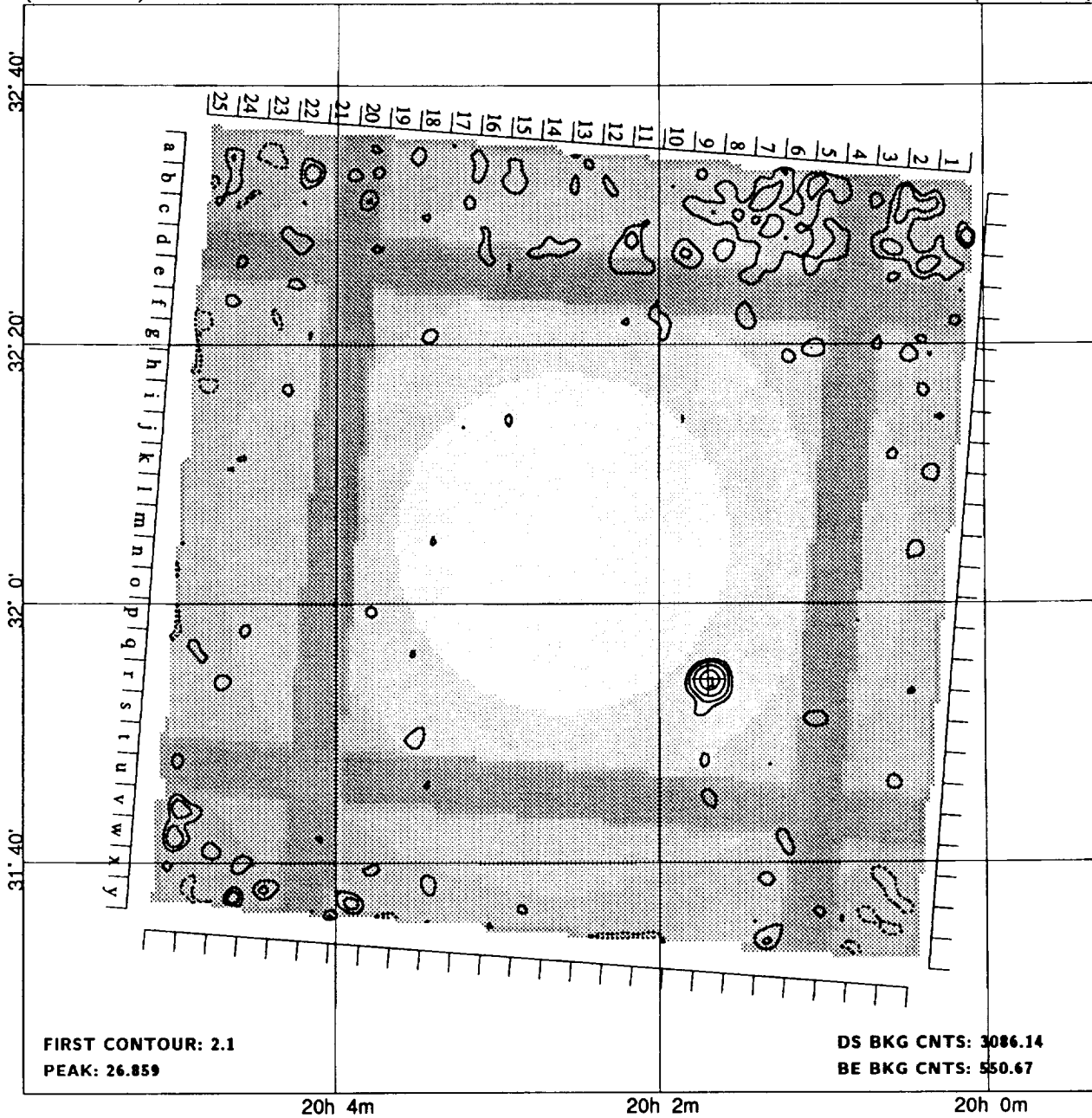
NH: 3.5E+21
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4314	1L	20 00 38.5	22 19 58	50	0.0212	0.0042	59.0	30.0	4.9	0.9	500	21.6		
4316	2L	20 01 46.3	22 40 10	47	0.0679	0.0066	176.2	44.8	10.1	1.2	0	23.8		
4318	3L	20 03 30.9	22 31 35	47	*0.513	0.032	1383.2	467.8	16.1	1.5	906	23.6		CV

(20h 2m)

I 4541

(20h 2m)



VARIABLE RADIO SOURCE GT 2002+321

FIELD CENTER: $20^{\text{h}}02^{\text{m}}37.8^{\text{s}}$ $32^{\circ}04'13''$ (B1950)
 $20^{\text{h}}04^{\text{m}}35.6^{\text{s}}$ $32^{\circ}12'48''$ (J2000)
 $l: 69.48$ $b: 0.39$

DATE: 1979/291 - 1979/292
 LIVETIME: 2500.8s
 ROLL ANGLE: 94.4°

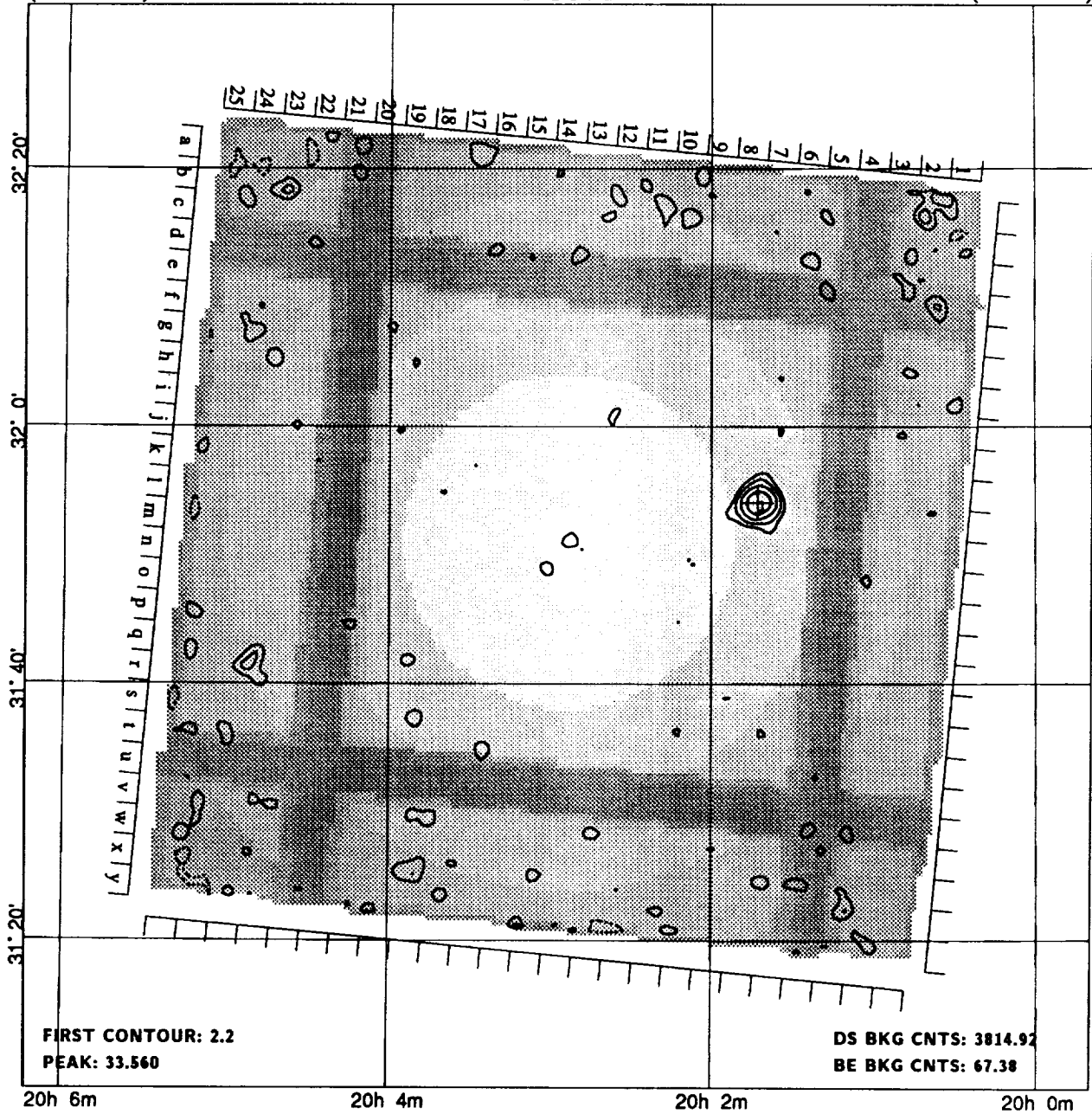
NH: $1.0\text{E}+22$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4315	1	20 01 42.1	31 54 11	48	0.0502	0.0062	73.3	7.7	8.1	1.0	0	15.5	AH

(20h 2m)

I 5071

(20h 2m)



HD 190603, LUMINOUS EARLY-TYPE STAR

FIELD CENTER: $20^{\text{h}}02^{\text{m}}56.7^{\text{s}}$ $31^{\circ}50'44''$ (B1950)
 $20^{\text{h}}04^{\text{m}}54.8^{\text{s}}$ $31^{\circ}59'20''$ (J2000)
 $l: 69.33$ $b: 0.21$

DATE: 1979/293 - 1979/293
 LIVETIME: 3091.3s
 ROLL ANGLE: 95.2°

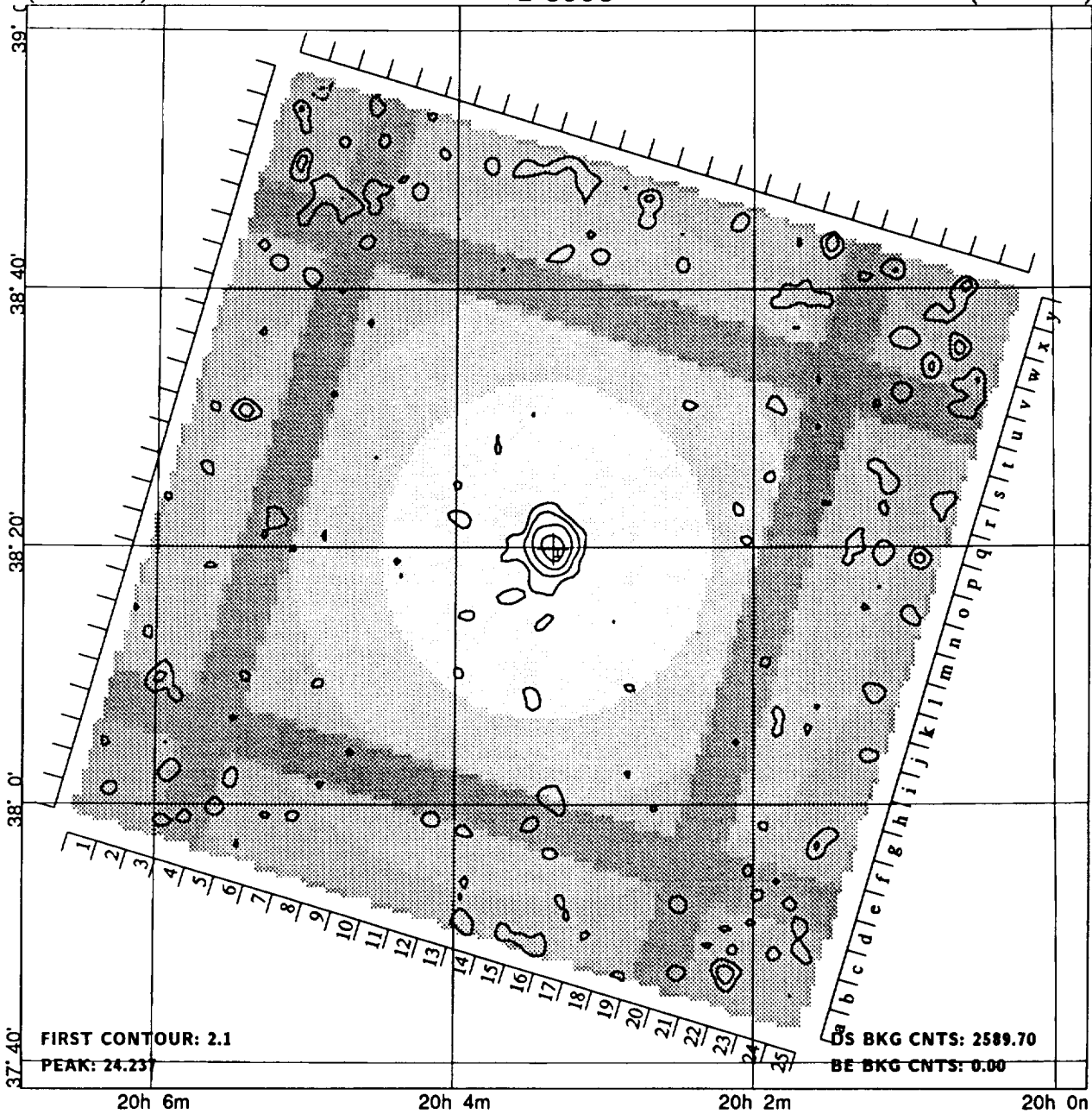
NH: $9.6\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4315	1	20 01 42.9	31 54 07	48	0.0518	0.0055	94.3	7.7	9.3	1.0	0	16.0	AH

(20h 3m)

I 5993

(20h 3m)



FIELD CENTER: 20^h03^m19.8^s 38°19'59" (B1950)
 20^h05^m08.2^s 38°28'36" (J2000)
 l : 74.84 b : 3.64

DATE: 1980/122 - 1980/122
 LIVETIME: 2098.5s
 ROLL ANGLE: -73.5°

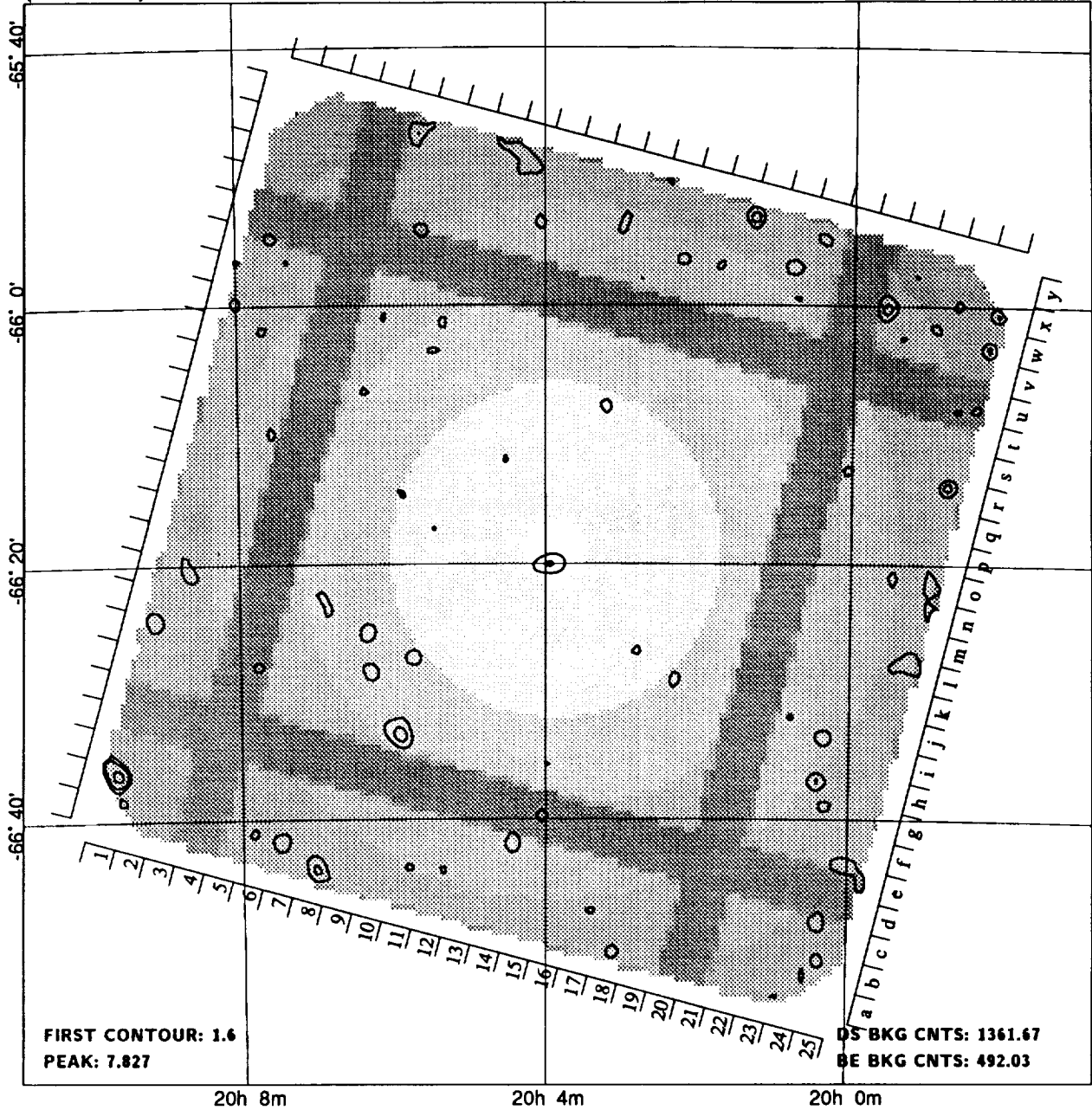
NH: 6.5E+21
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4317	1L	20 03 20.6	38 19 51	31	0.0539	0.0082	84.2	34.8	6.4	1.6	0	0.3	S

(20h 3m)

I 3114

(20h 3m)



COHERENT SAMPLING OF NEARBY STARS: DELTA PAV

FIELD CENTER: $20^{\text{h}}03^{\text{m}}49.7^{\text{s}}$ $-66^{\circ}18'38''$ (B1950)
 $20^{\text{h}}08^{\text{m}}32.9^{\text{s}}$ $-66^{\circ}09'54''$ (J2000)
 $l: 329.79$ $b: -32.40$

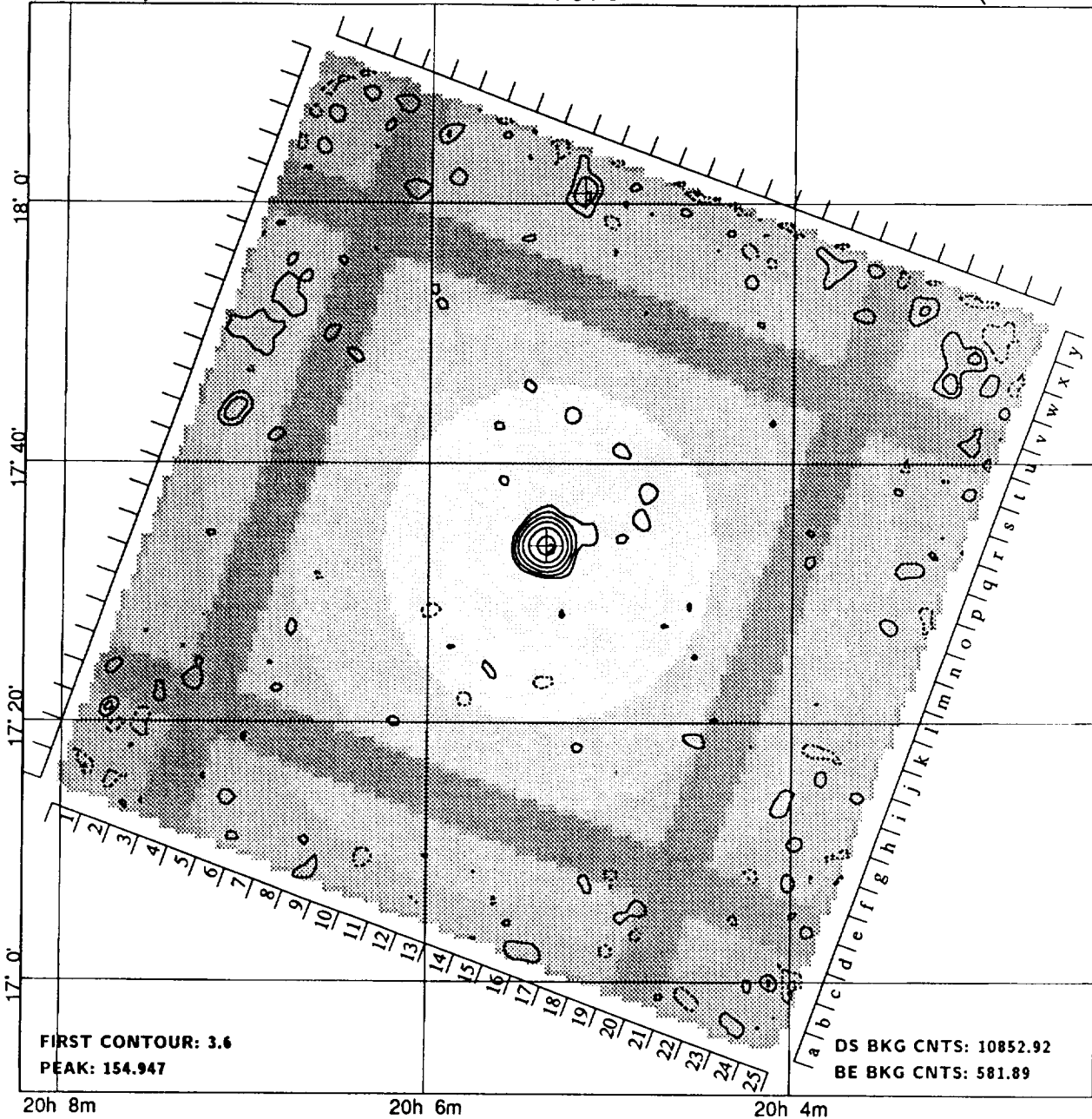
DATE: 1979/100 - 1979/100
 LIVETIME: 1103.4s
 ROLL ANGLE: -75.2°

NH: $5.5E+20$
 REF/ID: !
 FIELD FLAGS:

(20h 5m)

I 7876

(20h 5m)



WZ SGE, ORBITAL MODULATIONS IN CATAclySMIC VARIABLES

FIELD CENTER: 20^h05^m16.8^s 17°33'17" (B1950)
 20^h07^m32.5^s 17°42'03" (J2000)
 l : 57.53 b : -7.92

DATE: 1980/128 - 1980/128
 LIVETIME: 8794.4s
 ROLL ANGLE: -69.9°

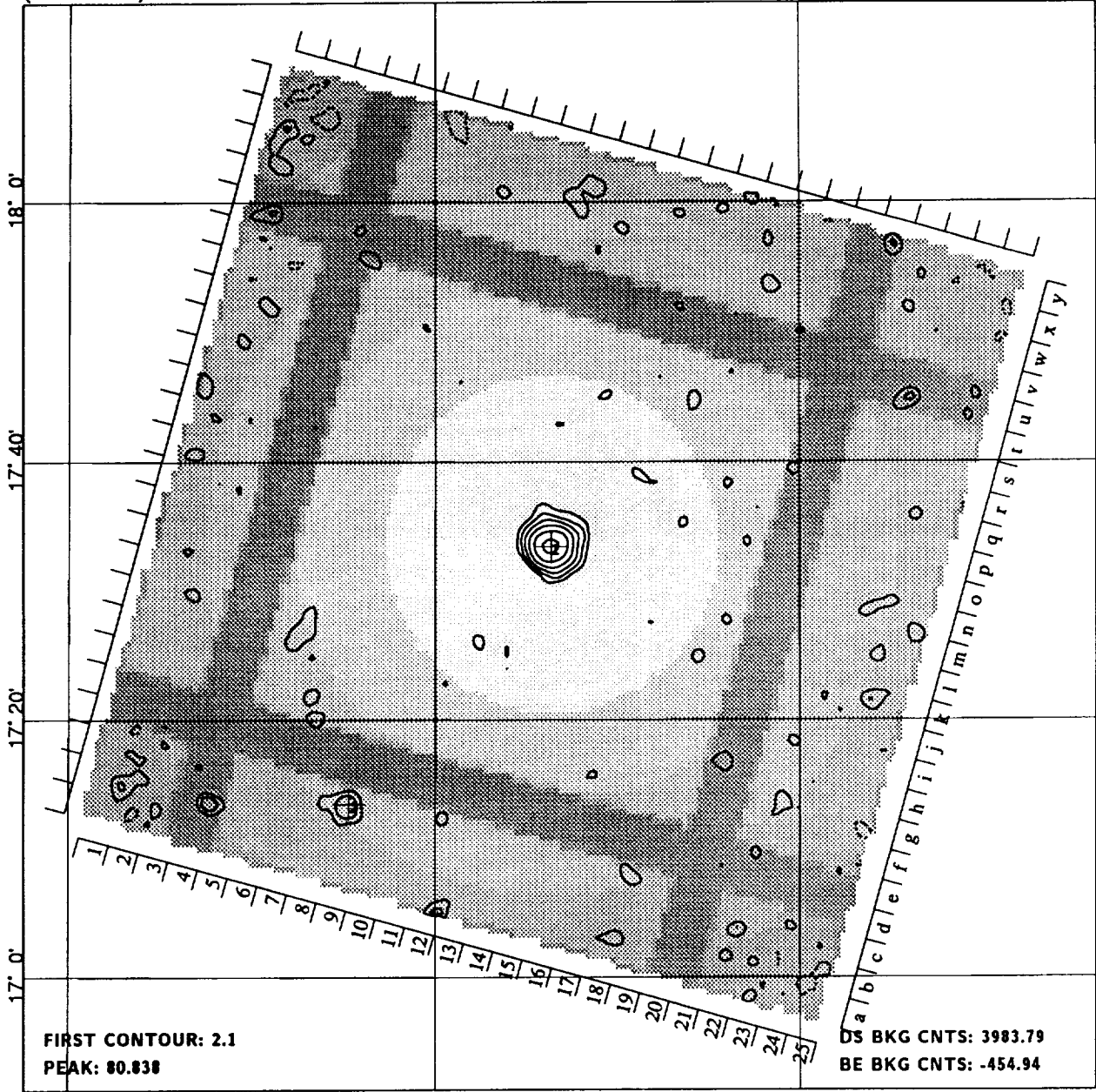
NH: 2.1E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4321	1	20 05 09.0	18 00 48	55	0.0072	0.0020	24.2	20.8	3.6	1.0	0	28.2	H	
4322	2	20 05 21.0	17 33 35	31	0.0997	0.0040	653.2	25.8	25.1	1.2	0	1.3	AH	CV

(20h 5m)

I 2277

(20h 5m)



FIRST CONTOUR: 2.1
 PEAK: 80.838

DS BKG CNTS: 3983.79
 BE BKG CNTS: -454.94

STELLAR SURVEY-CATAclysmic VARIABLES: WZ SGE

FIELD CENTER: 20^h05^m18.8^s 17°33'25" (B1950)
 20^h07^m34.5^s 17°42'10" (J2000)
 l : 57.53 b : -7.92

DATE: 1979/120 - 1979/120
 LIVETIME: 3228.2s
 ROLL ANGLE: -74.4°

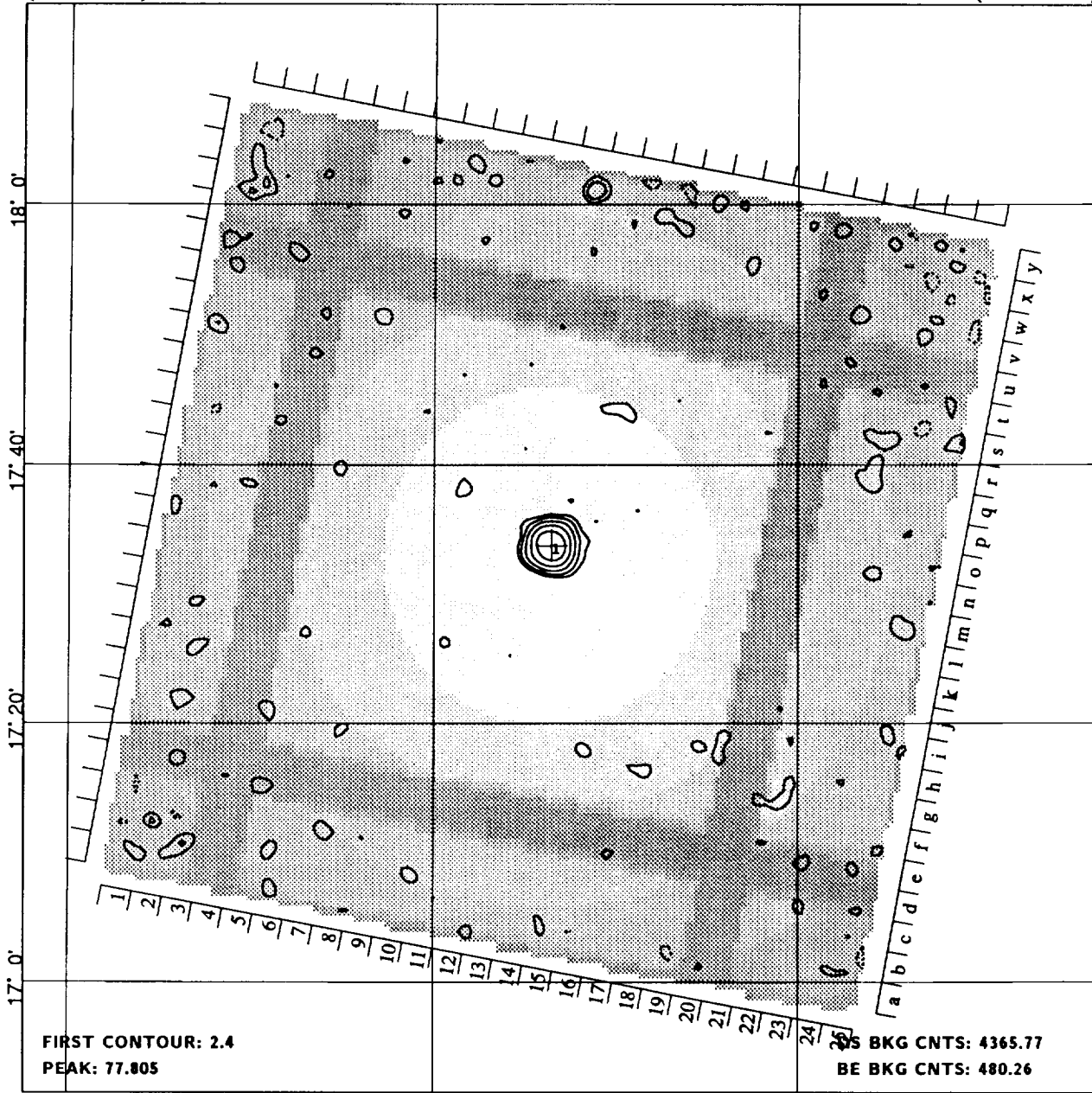
NH: 2.1E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4322	1	20 05 21.9	17 33 23	31	0.1458	0.0079	351.2	7.8	18.5	1.2	0	0.9	AH	CV
4323	2	20 06 28.3	17 13 26	55	0.0127	0.0035	17.2	4.8	3.7	0.9	400	26.3	H	

(20h 5m)

I 3508

(20h 5m)



20h 8m

20h 6m

20h 4m

WZ SGE, RAPID PERIODICITIES IN CATAclySMIC VARIABLES

FIELD CENTER: 20^h05^m18.8^s 17°33'26" (B1950)
 20^h07^m34.5^s 17°42'12" (J2000)
 l : 57.53 b : -7.92

DATE: 1980/112 - 1980/112
 LIVETIME: 3537.7s
 ROLL ANGLE: -79.4°

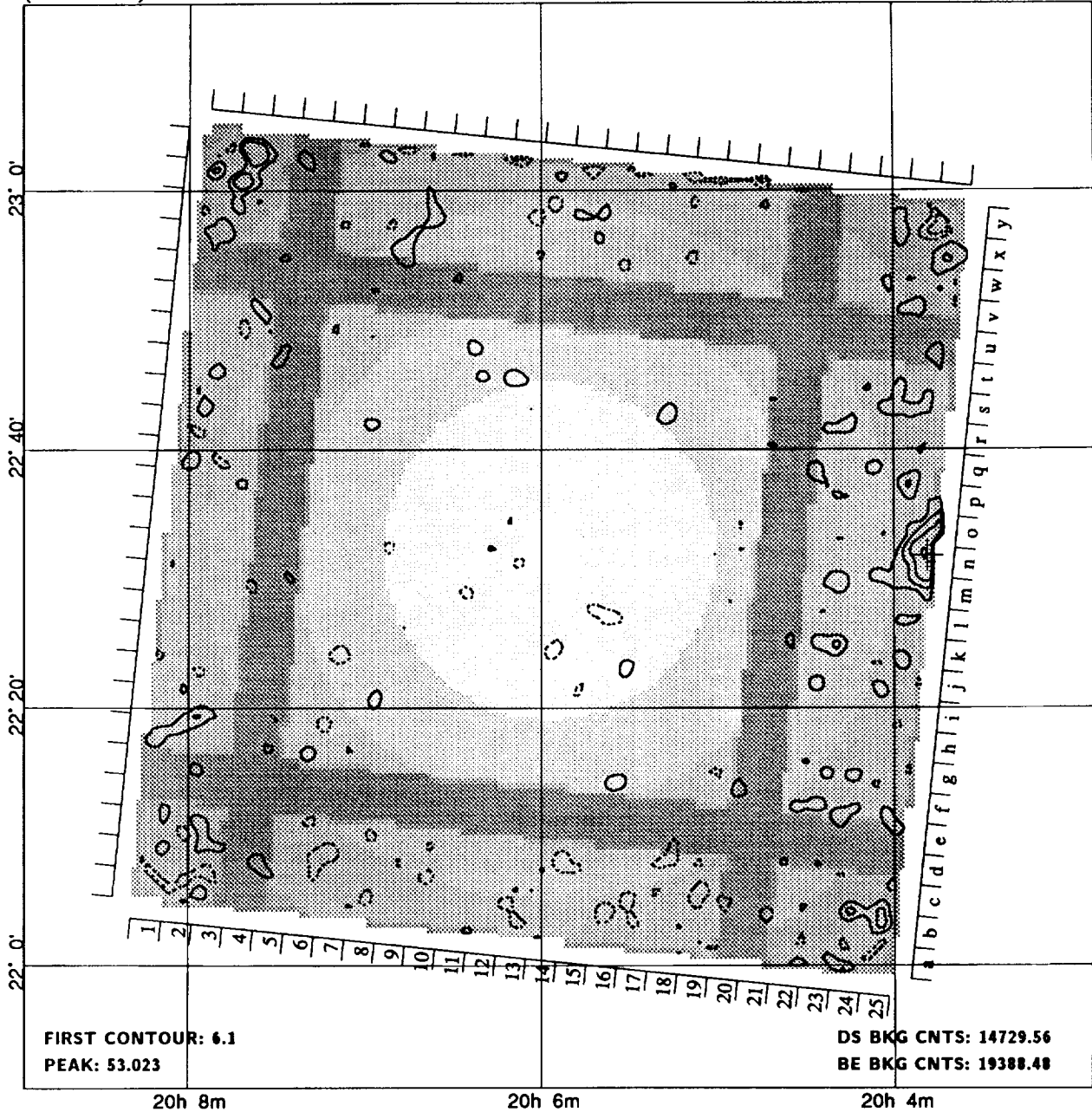
NH: 2.1E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4322	1	20 05 21.1	17 33 42	31	0.1298	0.0071	341.7	11.3	18.2	1.2	0	0.8	AH CV

(20h 5m)

I 7657

(20h 5m)



20h 8m

20h 6m

20h 4m

H2003+22.POSITION 1

FIELD CENTER: $20^h 05^m 53.9^s$ $22^\circ 32' 29''$ (B1950)
 $20^h 08^m 04.0^s$ $22^\circ 41' 17''$ (J2000)
 $l: 61.84$ $b: -5.37$

DATE: 1981/101 - 1981/102
 LIVETIME: 11935.8s
 ROLL ANGLE: -84.2°

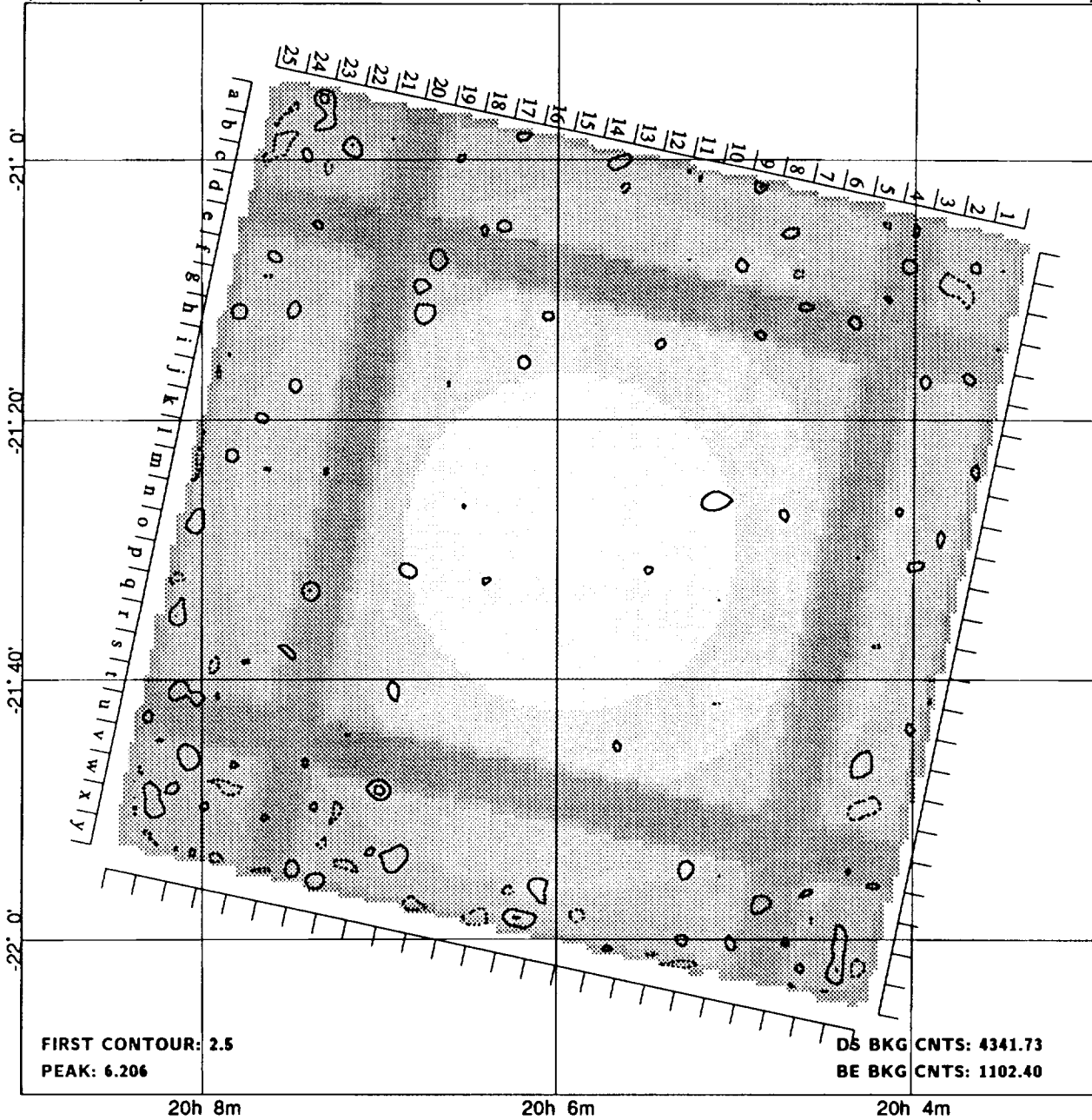
NH: $3.0E+21$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4319	1L	20 03 48.7	22 31 47	48	*0.0229	0.0049	109.7	110.8	4.7	1.8	703	28.9	EI	CV

(20h 5m)

I 5158

(20h 5m)



GAMMA RAY BURST SOURCE FIELDS #2

FIELD CENTER: $20^{\text{h}}05^{\text{m}}59.8^{\text{s}}$ $-21^{\circ}29'59''$ (B1950)
 $20^{\text{h}}08^{\text{m}}55.8^{\text{s}}$ $-21^{\circ}21'10''$ (J2000)
 $l: 21.16$ $b: -26.17$

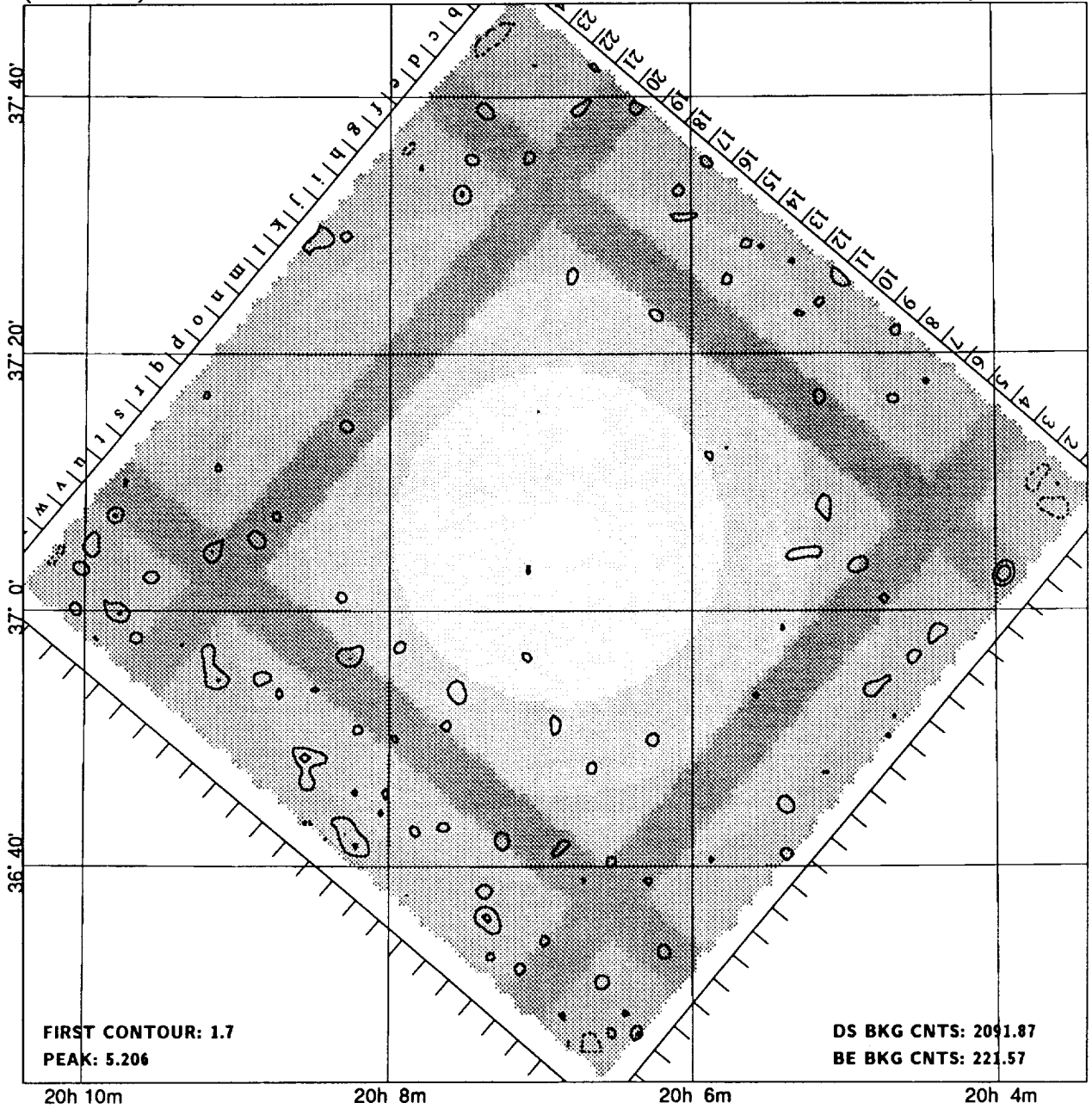
DATE: 1979/296 - 1979/297
LIVETIME: 3518.2s
ROLL ANGLE: 101.9°

NH: $7.5\text{E}+20$
REF/ID:
FIELD FLAGS:

(20h 6m)

I 3281

(20h 6m)



CANDIDATE X-RAY BINARY SOURCES: HD 191473

FIELD CENTER: 20^h06^m53.9^s 37°05'17" (B1950)
 20^h08^m44.7^s 37°14'08" (J2000)
 l : 74.17 b : 2.37

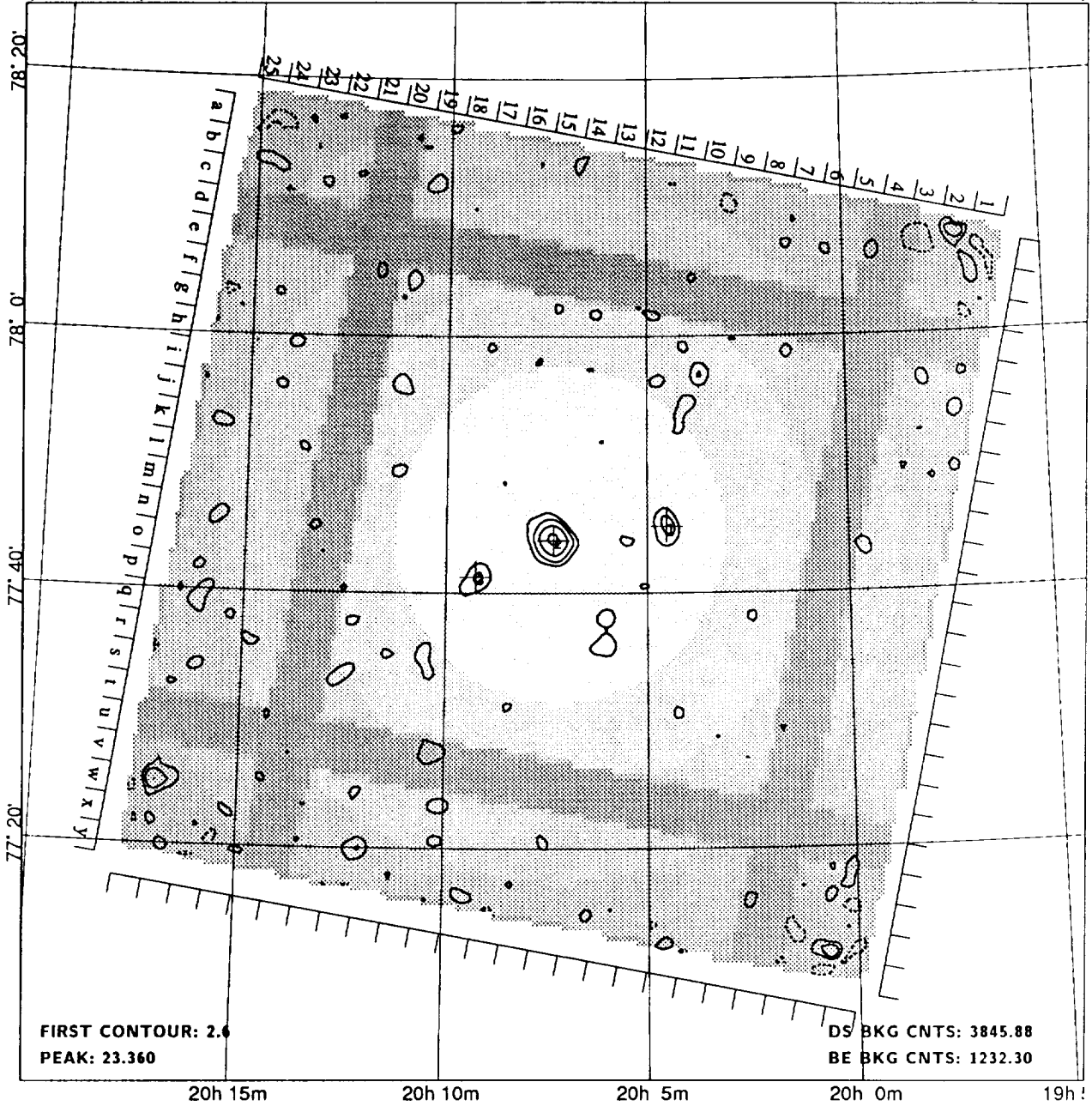
DATE: 1979/336 - 1979/336
 LIVETIME: 1695.1s
 ROLL ANGLE: 130.1°

NH: 9.4E+21
 REF/ID:
 FIELD FLAGS:

(20h 7m)

I 5122

(20h 7m)



FIELD CENTER: $20^h 07^m 20.1^s$ $77^\circ 43' 58''$ (B1950)
 $20^h 05^m 30.6^s$ $77^\circ 52' 43''$ (J2000)
 $l: 110.46$ $b: 22.73$

DATE: 1979/302 - 1979/302
 LIVETIME: 3116.4s
 ROLL ANGLE: 100.3°

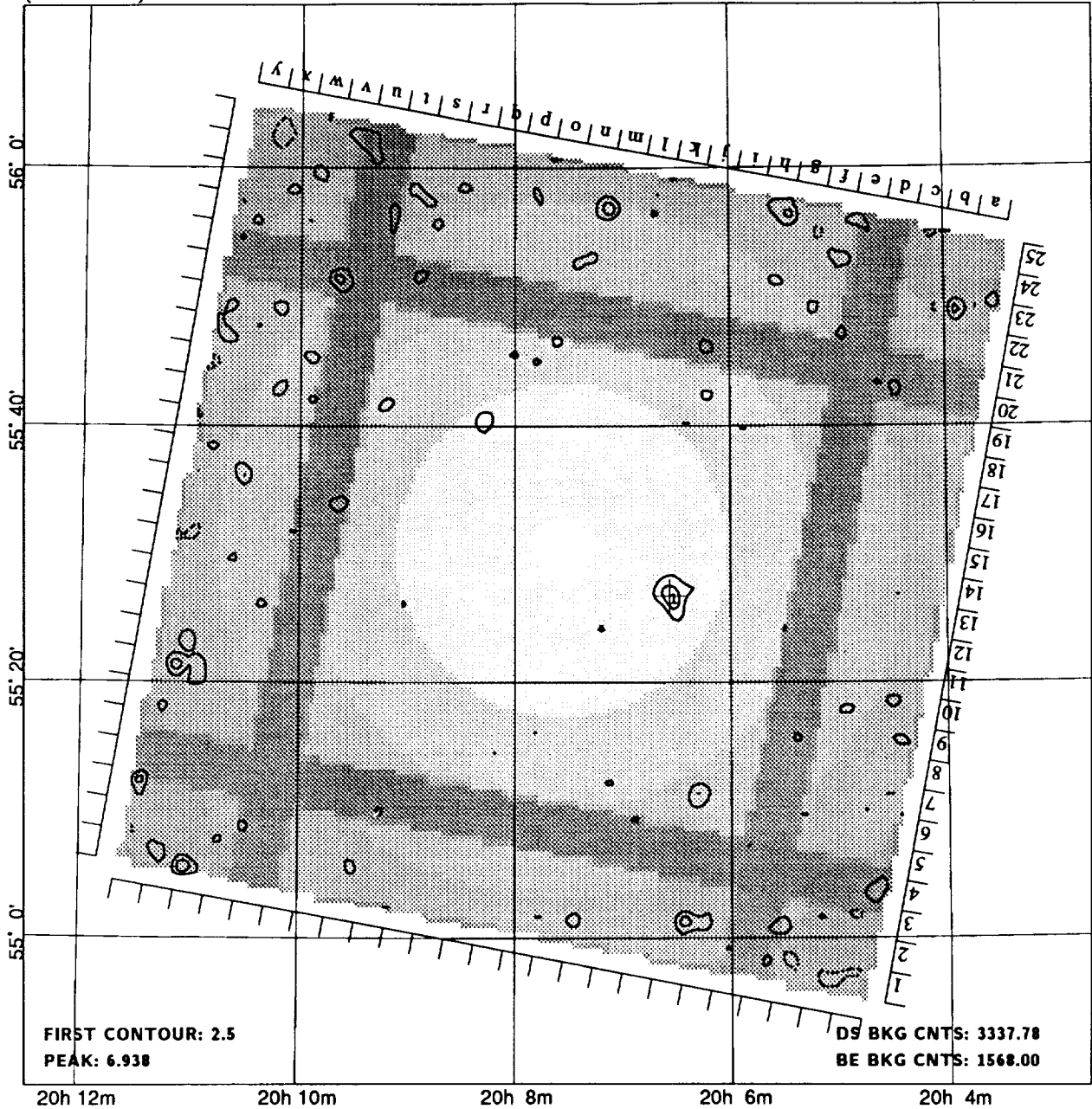
NH: $9.2E+20$
 REF/ID: BL
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4320	1	20 04 30.9	77 45 11	43	0.0095	0.0027	20.3	12.7	3.5	0.7	0	9.1		
4325	2	20 07 20.0	77 44 06	31	0.0380	0.0043	88.2	13.8	8.7	1.0	0	0.2	H	BL
4333	3	20 09 15.8	77 41 13	46	0.0095	0.0027	20.5	12.5	3.6	0.7	0	7.1	H	

(20h 7m)

I 8972

(20h 7m)



KR AURIGAE-LIKE OBJECTS:EE CEP

FIELD CENTER: 20^h07^m35.8^s 55°30'47" (B1950)
 20^h08^m46.9^s 55°39'39" (J2000)
l: 89.95 *b*: 12.14

DATE: 1981/ 30 - 1981/ 30
 LIVETIME: 2704.7s
 ROLL ANGLE: -169.5°

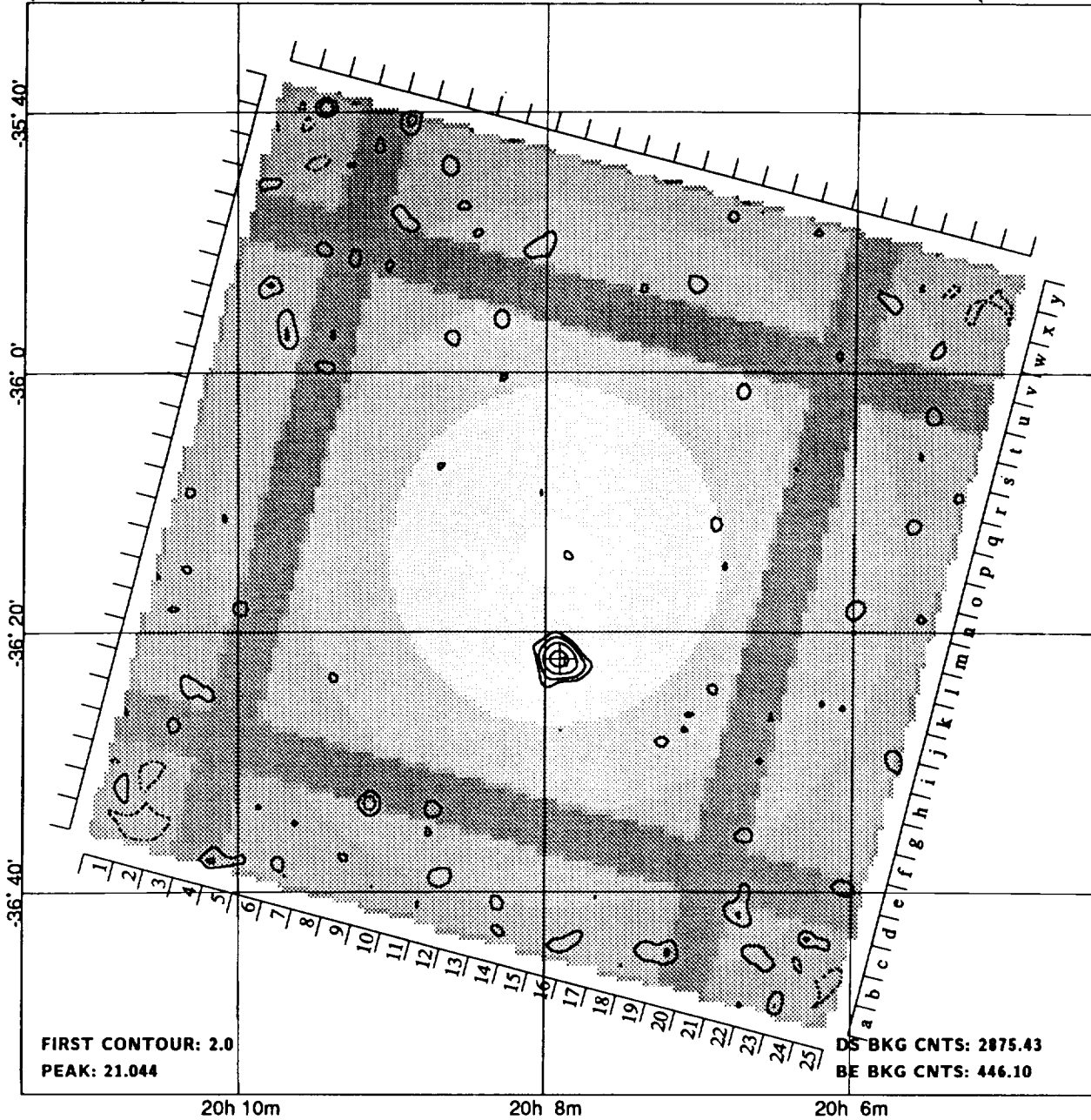
NH: 2.2E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4324	1	20 06 34.1	55 26 44	43	0.0133	0.0033	24.3	11.7	4.1	0.9	0	9.5	H

(20h 7m)

I 3115

(20h 7m)



COHERENT SAMPLING OF NEARBY STARS: -36 13940 A/B

FIELD CENTER: 20^h07^m54.8^s -36°13'41" (B1950)
 20^h11^m09.8^s -36°04'44" (J2000)
 l : 5.26 b : -30.91

DATE: 1979/ 99 - 1979/ 99
 LIVETIME: 2330.0s
 ROLL ANGLE: -75.5°

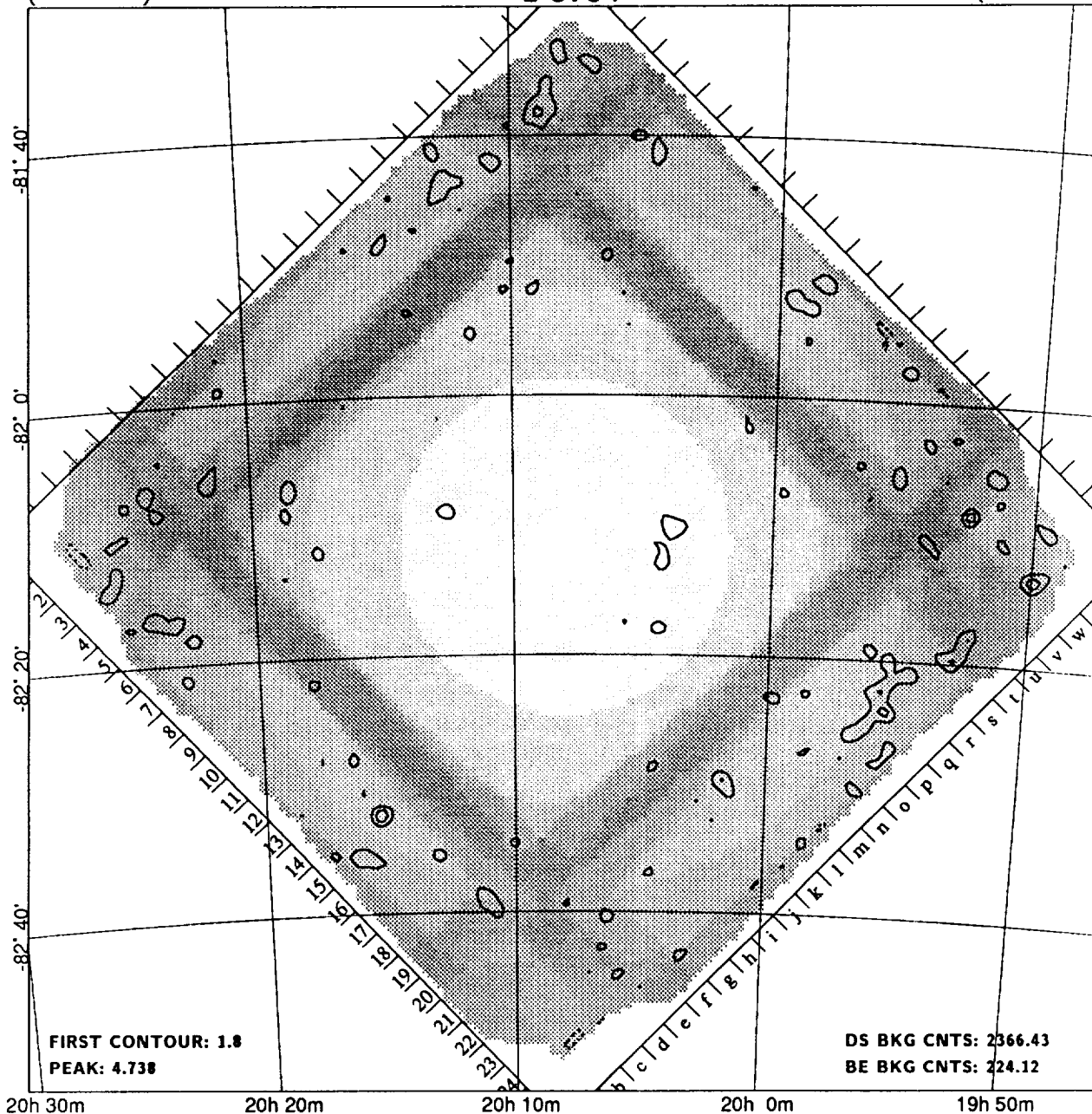
NH: 6.1E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4328	1	20 07 54.3	-36 22 06	38	0.0532	0.0061	85.1	8.9	8.8	1.0	0	8.1	H

(20h 7m)

I 5734

(20h 7m)



FIRST CONTOUR: 1.8
 PEAK: 4.738

DS BKG CNTS: 2366.43
 BE BKG CNTS: 224.12

CLUSTERS WITH IPC: SC2008-822

FIELD CENTER: $20^{\text{h}}07^{\text{m}}59.8^{\text{s}}$ $-82^{\circ}11'59''$ (B1950)
 $20^{\text{h}}17^{\text{m}}18.0^{\text{s}}$ $-82^{\circ}02'51''$ (J2000)
 $l: 311.46$ $b: -29.78$

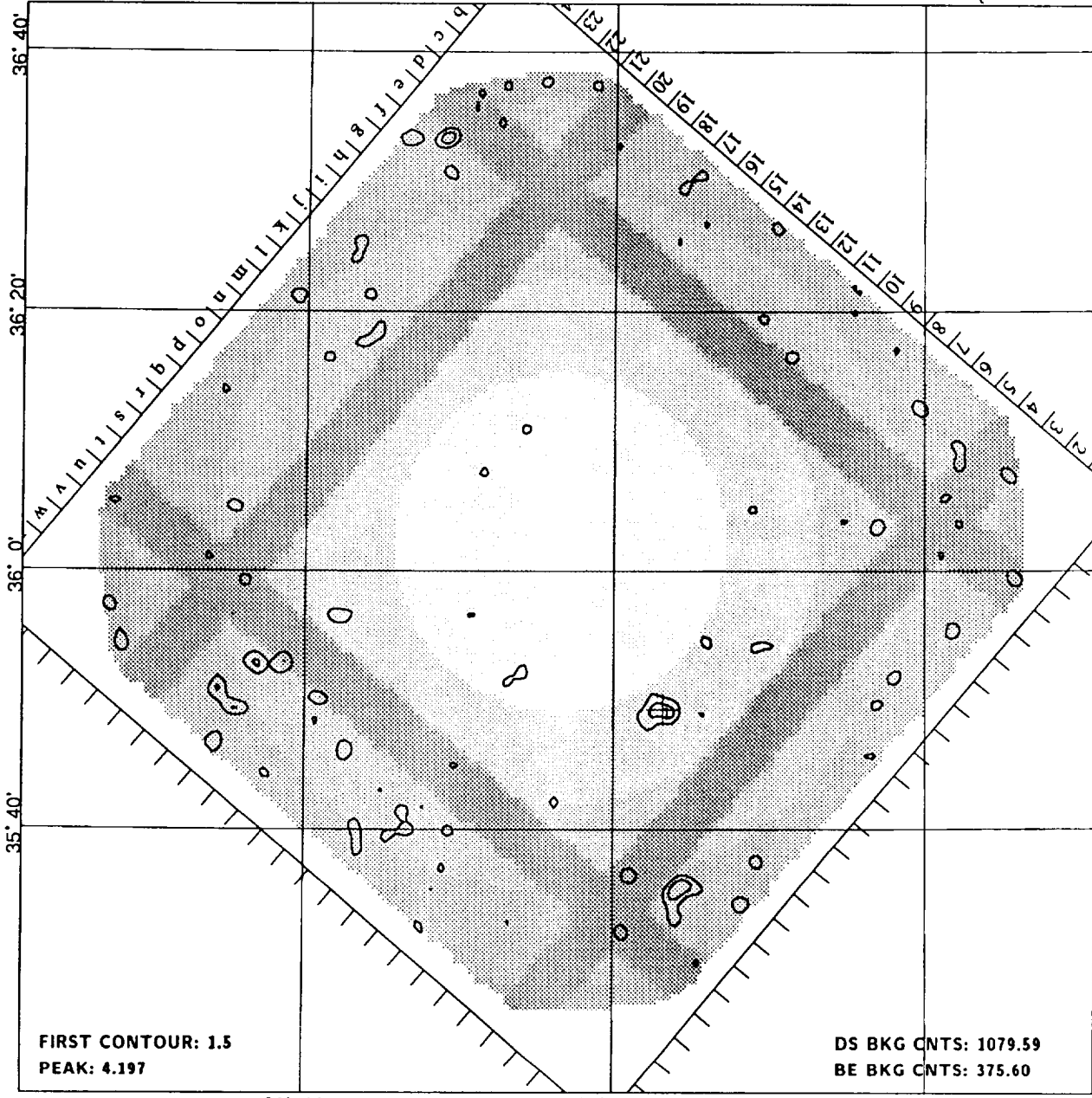
DATE: 1980/ 68 - 1980/ 68
 LIVETIME: 1917.6s
 ROLL ANGLE: -44.3°

NH: $1.1\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(20h 8m)

I 3137

(20h 8m)



CORONAL EMISSION FROM OB SUPERGIANTS: HD 191765

FIELD CENTER: $20^h 08^m 21.8^s$ $36^\circ 01' 41''$ (B1950)
 $20^h 10^m 14.4^s$ $36^\circ 10' 37''$ (J2000)
 $l: 73.45$ $b: 1.55$

DATE: 1979/337 - 1979/337
 LIVETIME: 874.8s
 ROLL ANGLE: 130.1°

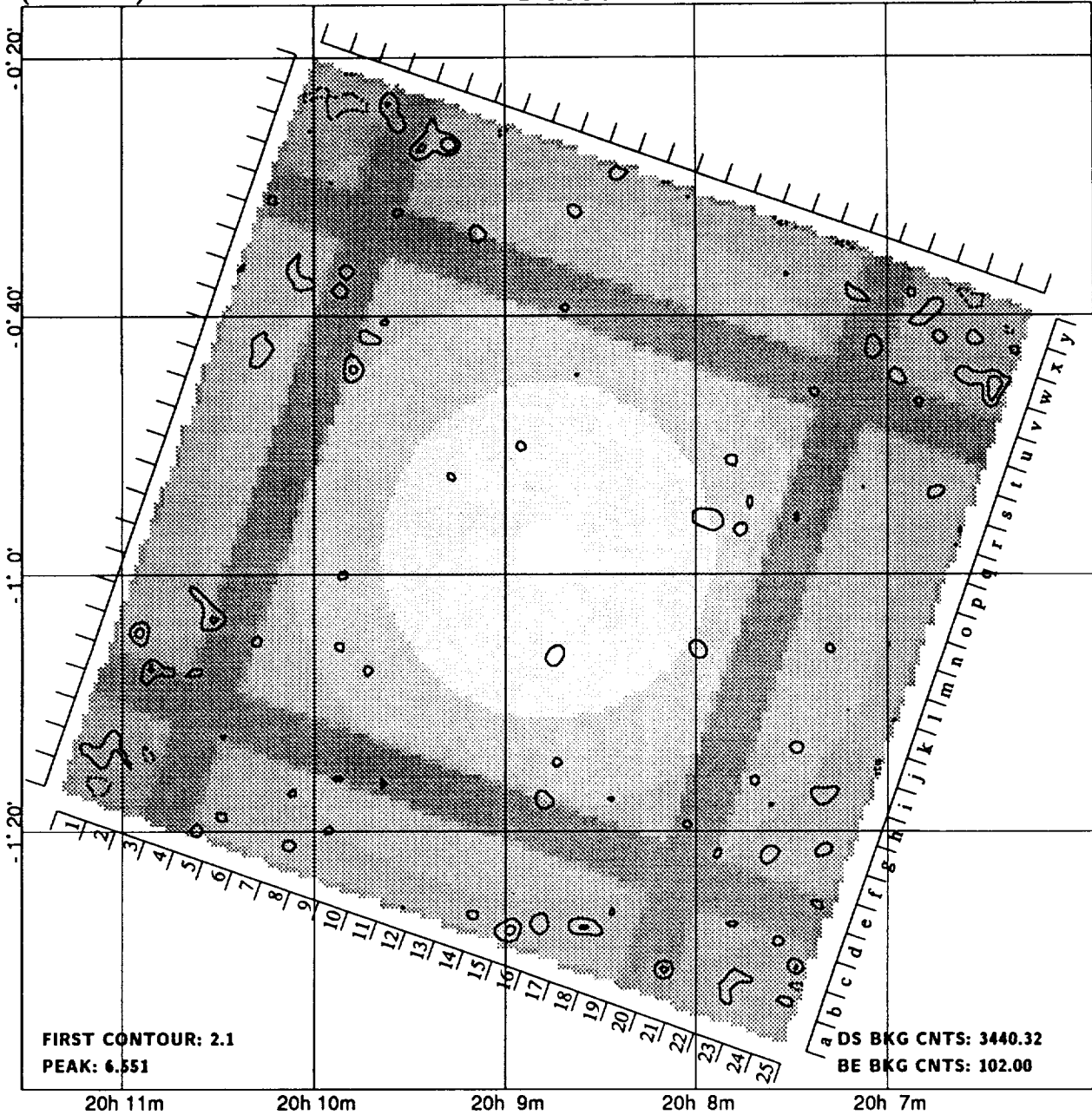
NH: $9.5E+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4327	1	20 07 40.9	35 49 18	47	0.0294	0.0082	15.1	2.9	3.6	0.8	0	14.8	H

(20h 8m)

I 5636

(20h 8m)



FIELD CENTER: 20^h08^m43.3^s -00°57'59" (B1950)
 20^h11^m18.0^s -00°49'01" (J2000)
l: 41.58 *b*: -18.08

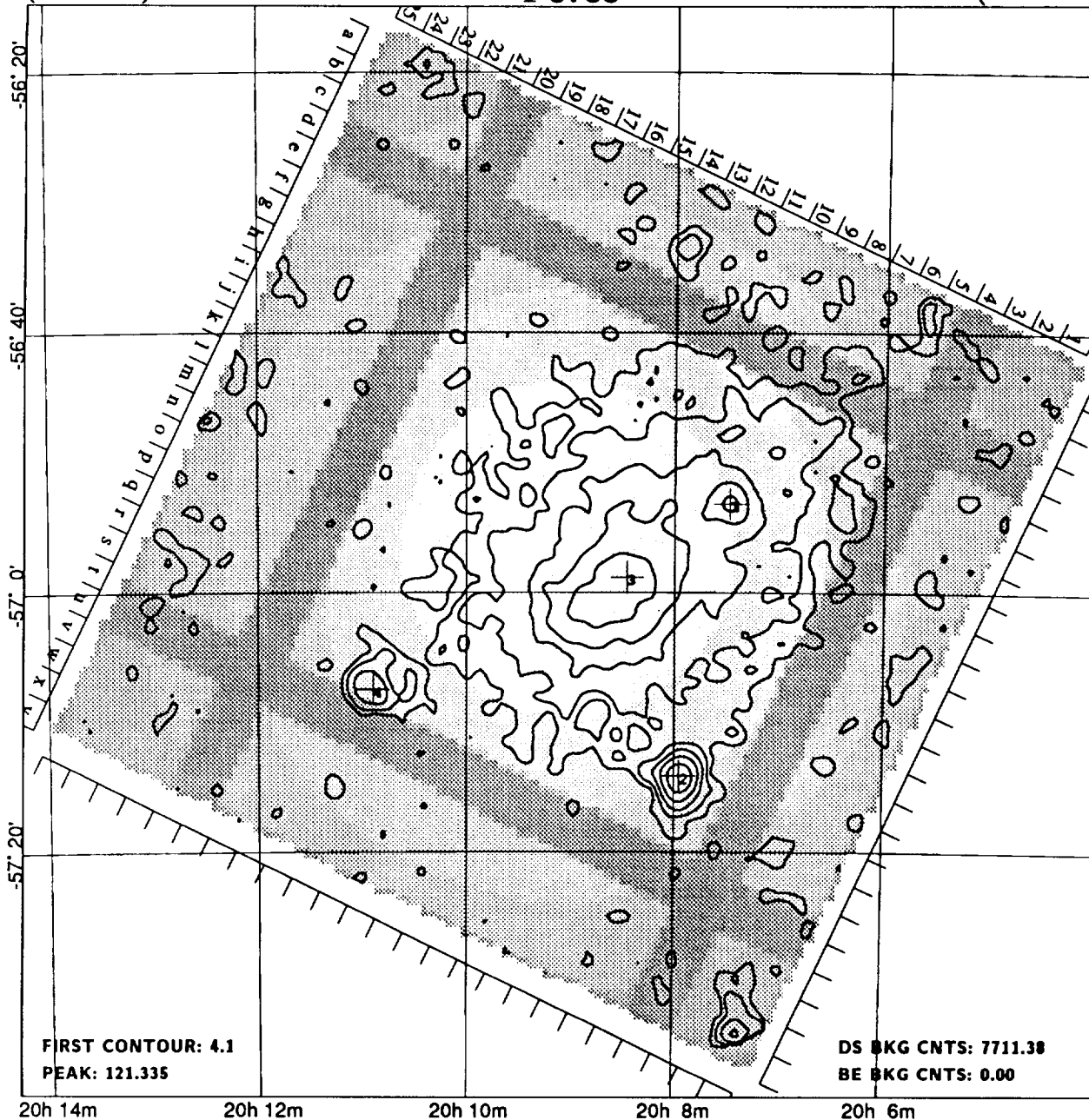
DATE: 1980/124 - 1980/125
LIVETIME: 2887.9s
ROLL ANGLE: -70.9°

NH: 6.6E+20
REF/ID:
FIELD FLAGS:

(20h 9m)

I 5735

(20h 9m)



CLUSTERS WITH IPC: 2A2009-569

FIELD CENTER: 20^h09^m05.8^s -56°56'59" (B1950)
 20^h13^m05.7^s -56°47'57" (J2000)
 l : 340.90 b : -33.47

DATE: 1980/271 - 1980/271
 LIVETIME: 6248.7s
 ROLL ANGLE: 115.5°

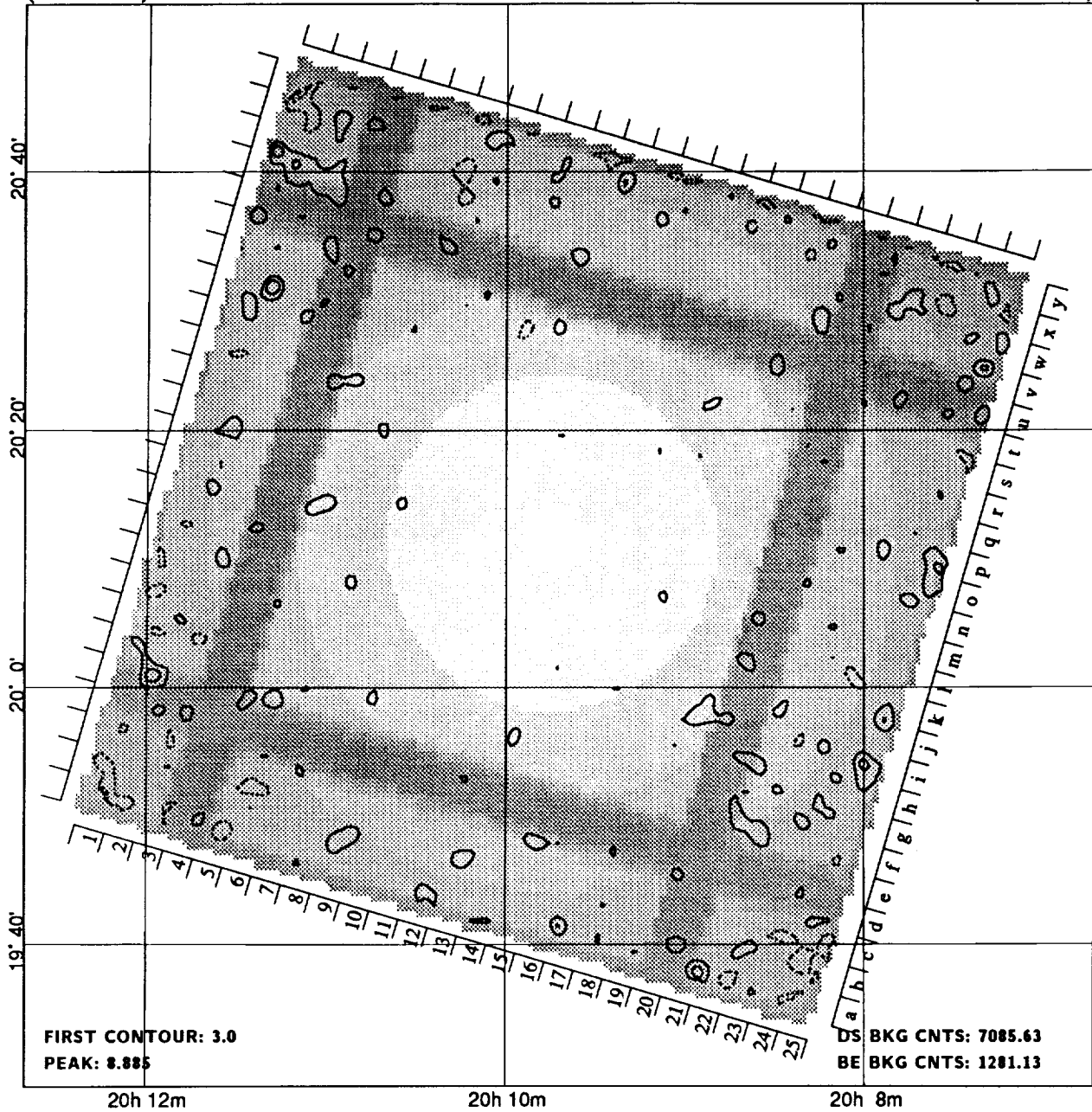
NH: 5.8E+20
 REF/ID:
 FIELD FLAGS: DL

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE ±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4326	1L	20 07 28.5	-56 53 09	38	0.0429 0.0055	166.8	137.2	7.7	31.8	0	13.7	
4329	2L	20 07 57.0	-57 14 12	47	0.0926 0.0067	299.9	58.1	13.7	23.5	0	19.7	
4331	3L	20 08 27.4	-56 58 50	37	0.0382 0.0070	170.3	422.7	5.4	18.0	0	5.6	
4339	4L	20 10 53.9	-57 07 28	50	*0.0255 0.0045	84.4	42.7	5.4	1.9	501	18.0	

(20h 9m)

I 7346

(20h 9m)



FG SGE, CLOSE BINARY PL. NEBULA NUCLEUS

FIELD CENTER: $20^{\text{h}}09^{\text{m}}41.8^{\text{s}}$ $20^{\circ}10'59''$ (B1950)
 $20^{\text{h}}11^{\text{m}}54.8^{\text{s}}$ $20^{\circ}20'01''$ (J2000)
 $l: 60.33$ $b: -7.39$

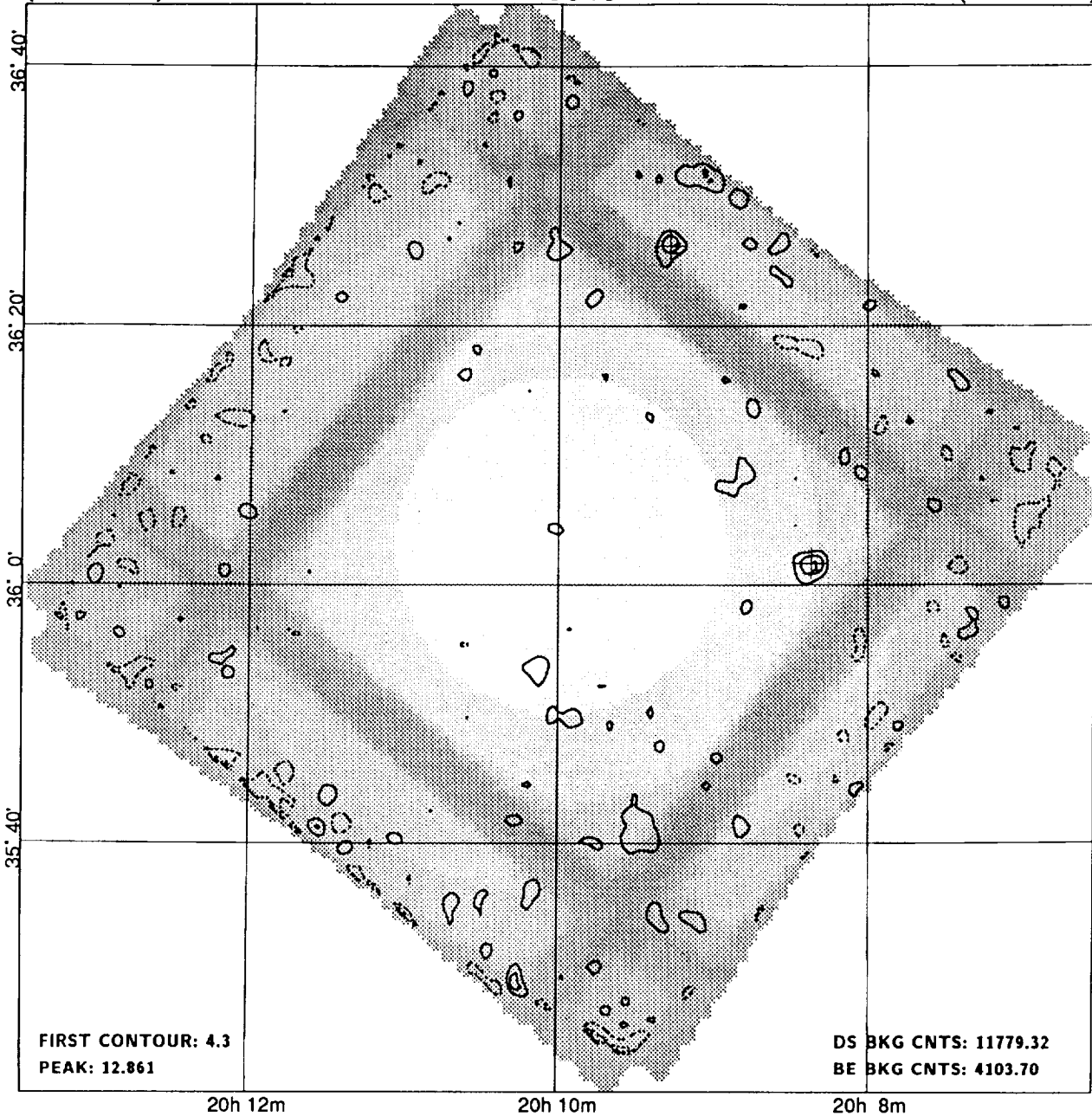
DATE: 1980/122 - 1980/122
 LIVETIME: 5947.9s
 ROLL ANGLE: -73.7°

NH: $2.3\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(20h 10m)

I 5046

(20h 10m)



HD 192103, WR STARS W/ OVI EMISSION

FIELD CENTER: 20^h10^m00.6^s 36°02'48" (B1950)
 20^h11^m53.4^s 36°11'50" (J2000)
 l : 73.65 b : 1.28

DATE: 1979/329 - 1979/337
 LIVETIME: 9545.1s

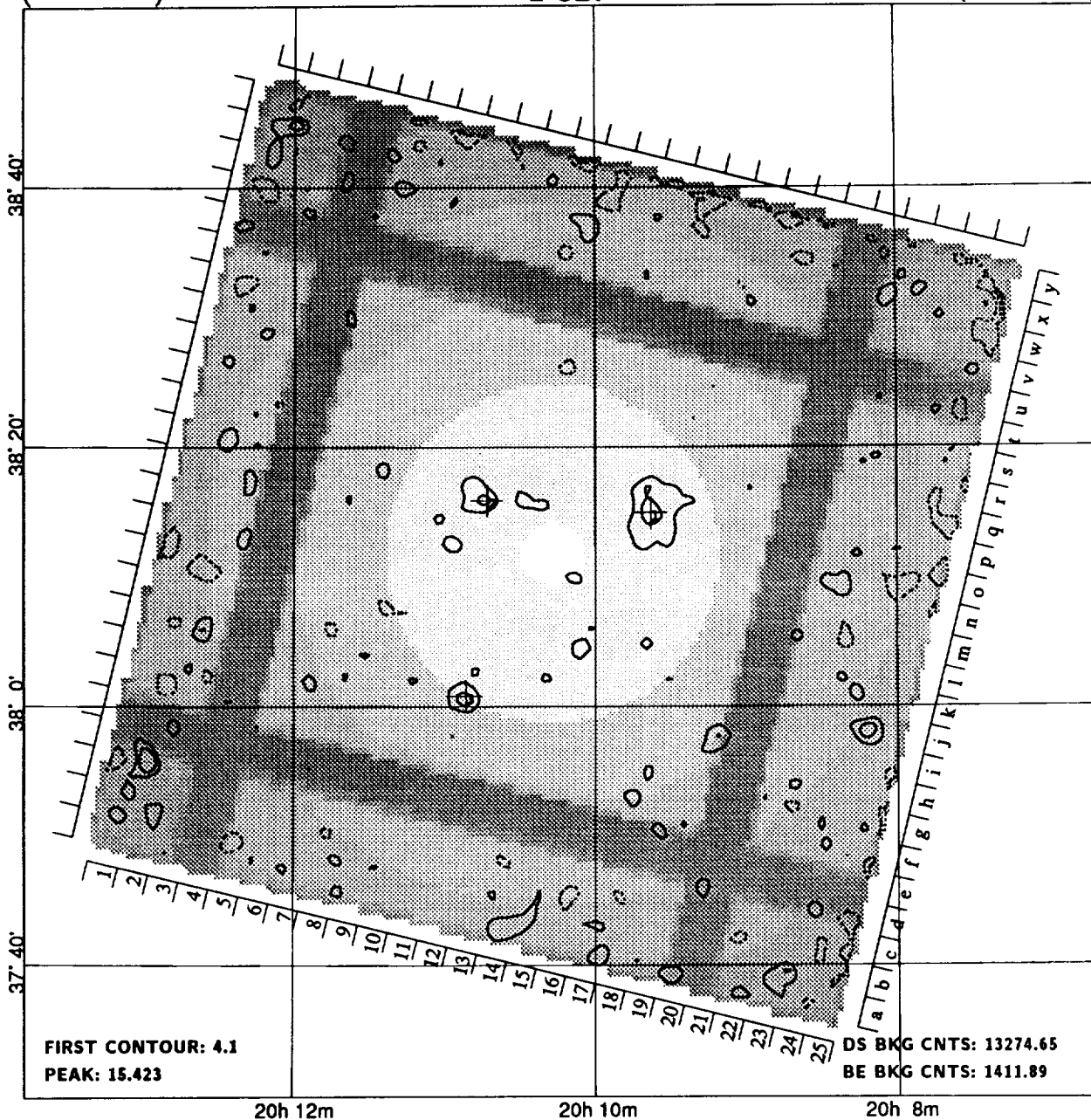
NH: 9.7E+21
 REF/ID: S
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4330	1	20 08 21.8	36 01 39	53	0.0074	0.0016	36.7	27.3	4.6	0.8	0	20.2	
4334	2	20 09 16.7	36 26 10	55	*0.0062	0.0017	26.0	27.0	3.6	0.8	703	24.9	H

(20h 10m)

I 827

(20h 10m)



NGC 6888, X-RAY MAP CENTERED ON HD 192163

FIELD CENTER: $20^{\text{h}}10^{\text{m}}13.1^{\text{s}}$ $38^{\circ}11'55''$ (B1950)
 $20^{\text{h}}12^{\text{m}}02.6^{\text{s}}$ $38^{\circ}20'58''$ (J2000)
 $l: 75.46$ $b: 2.43$

DATE: 1979/119 - 1979/120
 LIVETIME: 10756.8s
 ROLL ANGLE: -76.3°

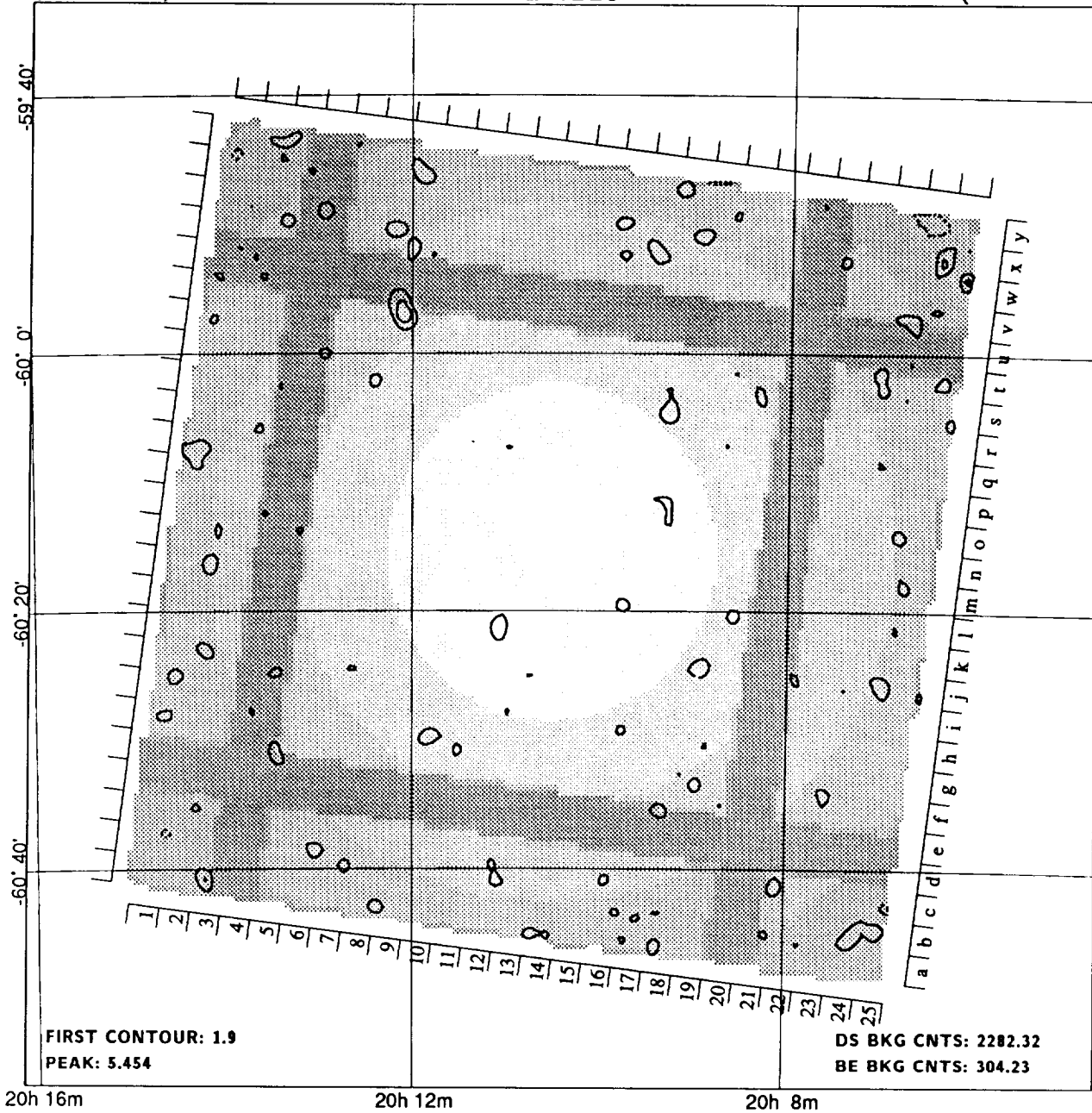
NH: $9.1\text{E}+21$
 REF/ID: S
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4335	1	20 09 37.8	38 14 55	42	0.0058	0.0012	42.5	32.5	4.9	1.9	0	7.5	H	S
4337	2	20 10 43.2	38 15 52	43	0.0046	0.0011	34.9	34.1	4.2	0.8	0	7.1	H	
4338	3	20 10 51.6	38 00 49	42	0.0045	0.0012	30.3	32.7	3.8	0.7	0	13.6	H	

(20h 10m)

I 4119

(20h 10m)



20h 16m

20h 12m

20h 8m

H2003-60 POSITION

FIELD CENTER: $20^h 10^m 24.8^s$ $-60^\circ 15' 05''$ (B1950)
 $20^h 14^m 36.2^s$ $-60^\circ 05' 57''$ (J2000)
 $l: 336.94$ $b: -33.56$

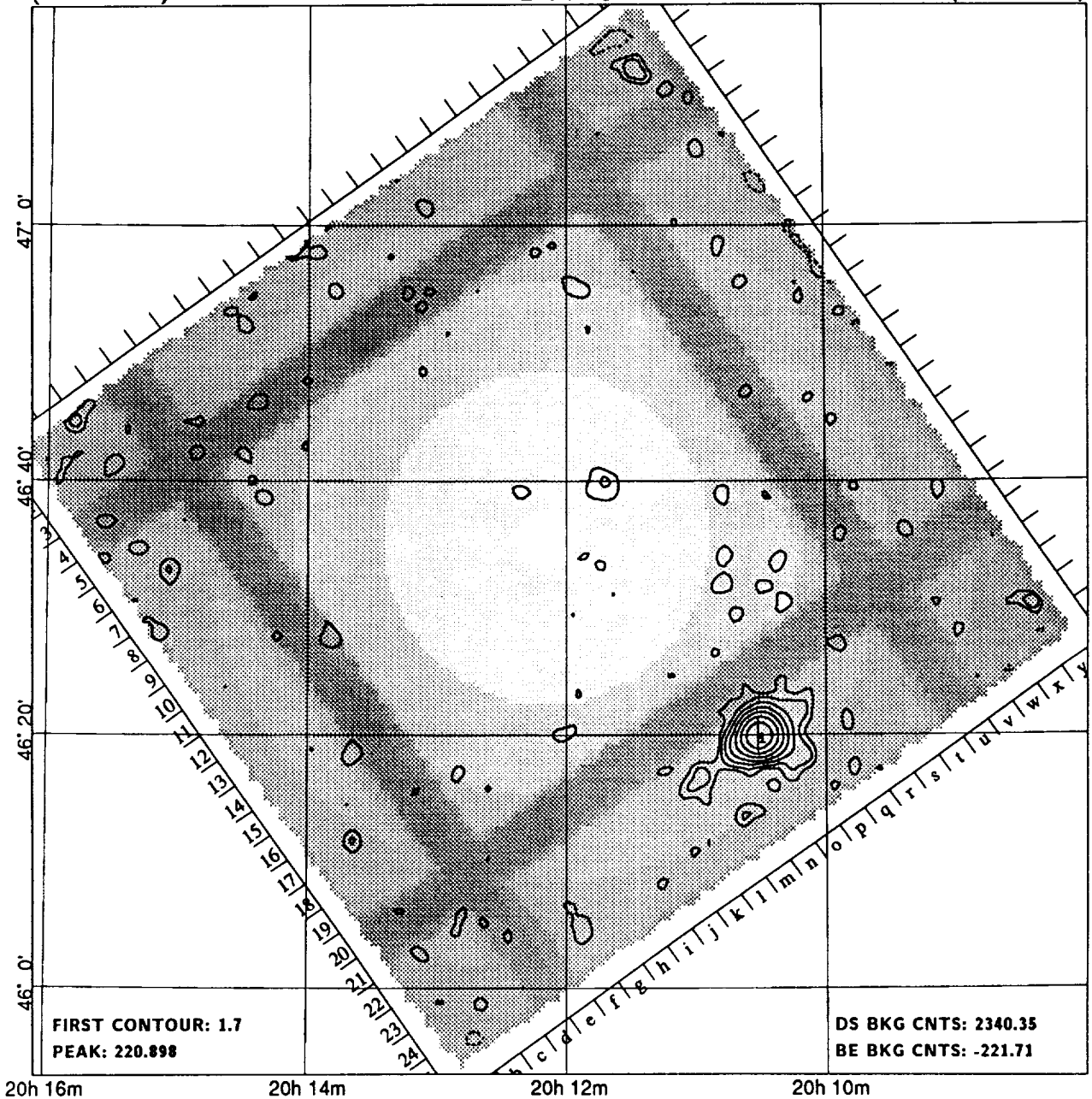
DATE: 1980/120 - 1980/120
LIVETIME: 1915.8s
ROLL ANGLE: -82.8°

NH: $5.2E+20$
REF/ID:
FIELD FLAGS:

(20h 12m)

I 7745

(20h 12m)



FIRST CONTOUR: 1.7
PEAK: 220.898

DS BKG CNTS: 2340.35
BE BKG CNTS: -221.71

HD 192577/8, INTERACTING CLOSE BINARY SYSTEMS

FIELD CENTER: 20^h12^m02.8^s 46°35'17" (B1950)
20^h13^m37.4^s 46°44'26" (J2000)
l: 82.67 *b*: 6.78

DATE: 1980/168 - 1980/168
LIVETIME: 1896.4s
ROLL ANGLE: -35.2°

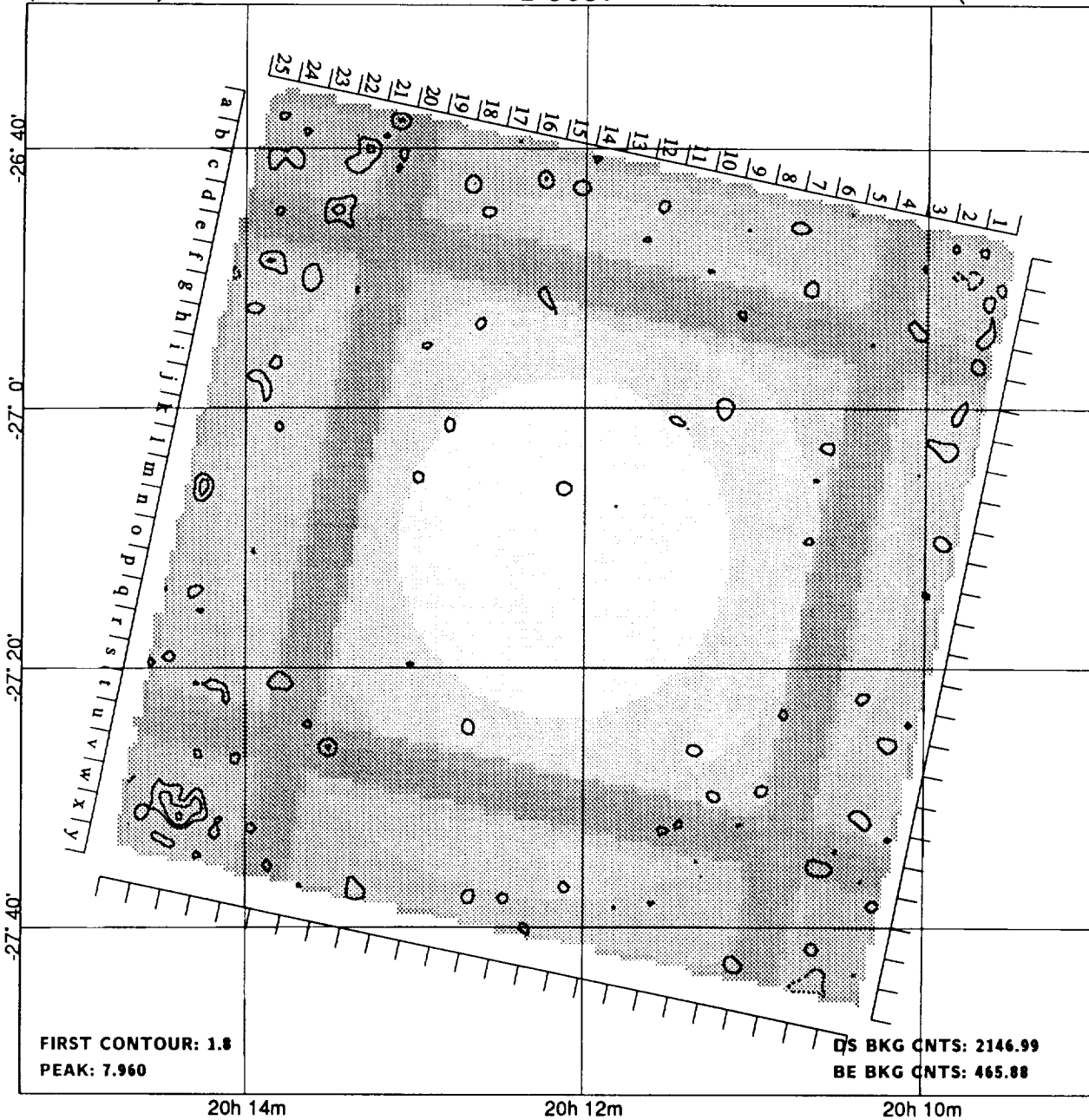
NH: 5.5E+21
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	ID
4336	1	20 10 31.4	46 19 58	47	0.584	0.026	515.6	3.4	22.6	1.2	200	21.7	H	S

(20h 12m)

I 5637

(20h 12m)



FIRST CONTOUR: 1.8
 PEAK: 7.960

DS BKG CNTS: 2146.99
 BE BKG CNTS: 465.88

20h 14m 20h 12m 20h 10m

HD 192310

FIELD CENTER: 20^h12^m09.8^s -27°10'59" (B1950)
 20^h15^m12.1^s -27°01'47" (J2000)
l: 15.62 *b*: -29.38

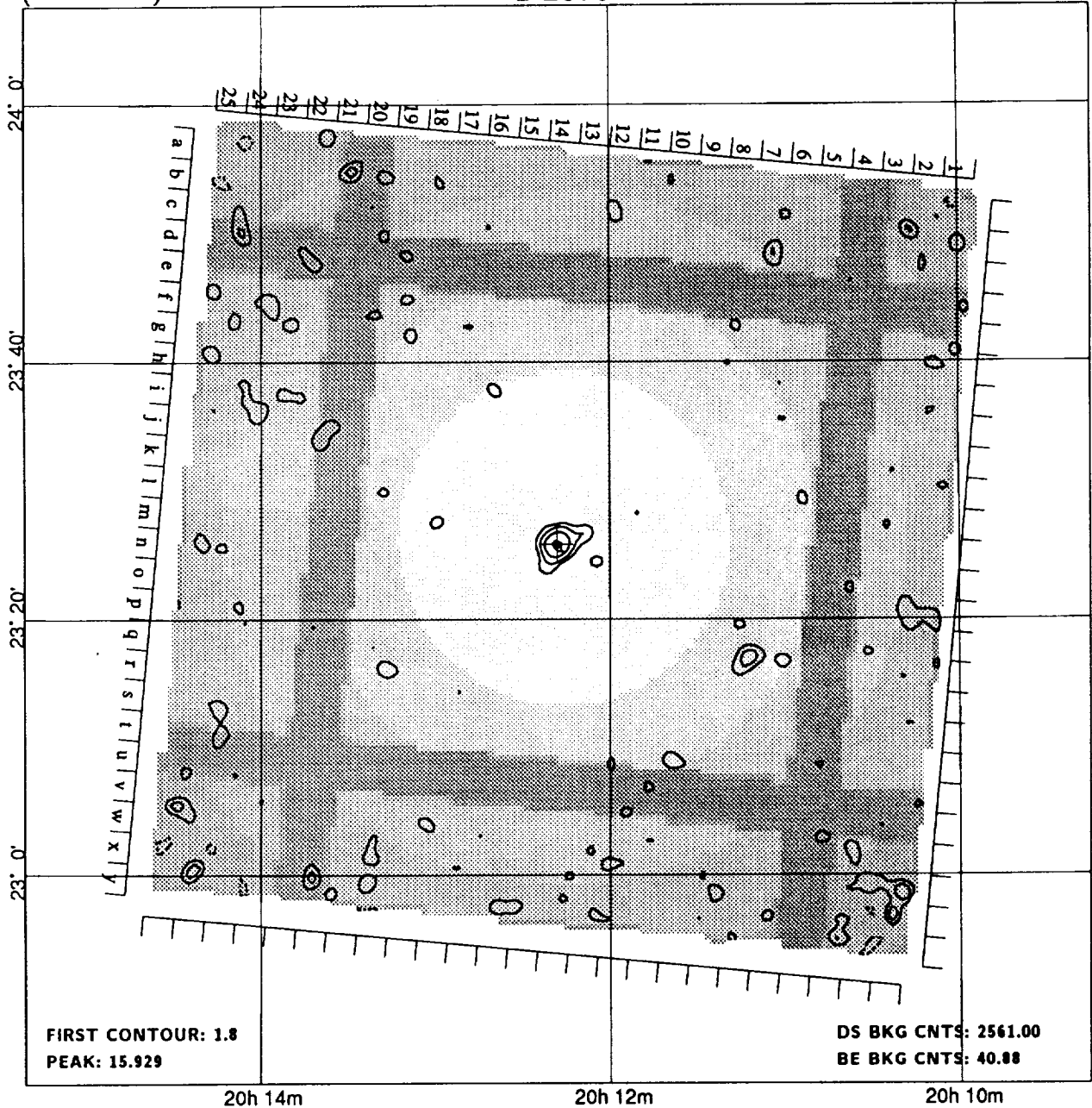
DATE: 1979/303 - 1979/303
 LIVETIME: 1739.8s
 ROLL ANGLE: 101.7°

NH: 6.9E+20
 REF/ID:
 FIELD FLAGS:

(20h 12m)

I 2679

(20h 12m)



3C 409.0: BRIGHT X-GALACTIC RADIO SOURCES

FIELD CENTER: 20^h12^m17.8^s 23°25'41" (B1950)
 20^h14^m27.3^s 23°34'52" (J2000)
 l : 63.40 b : -6.12

DATE: 1979/292 - 1979/292
 LIVETIME: 2149.8s
 ROLL ANGLE: 95.4°

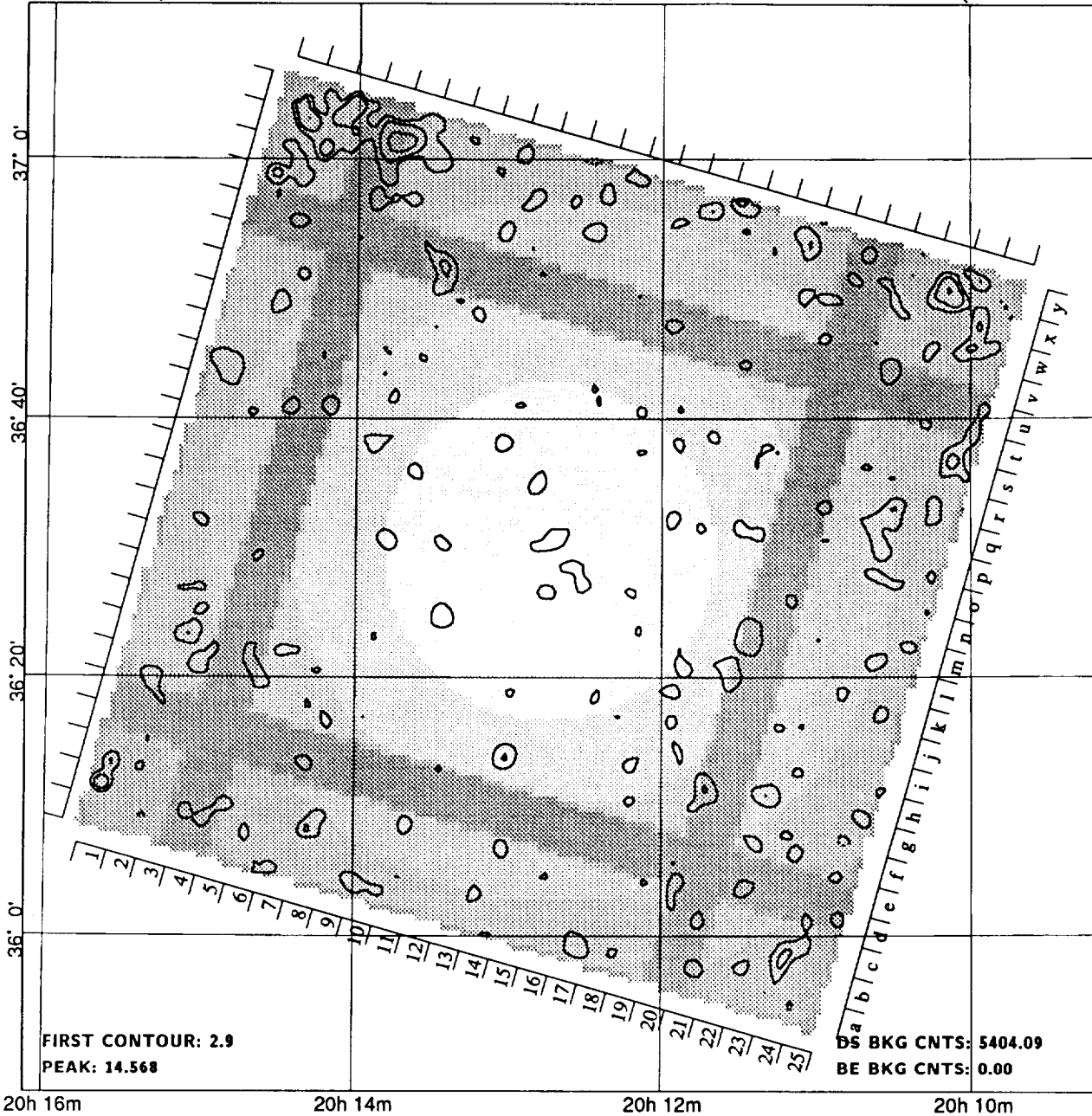
NH: 3.0E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4341	1	20 12 18.3	23 25 51	34	0.0339	0.0049	54.3	6.7	7.0	1.0	0	0.2	H G

(20h 12m)

I 5963

(20h 12m)



20h 16m

20h 14m

20h 12m

20h 10m

Wolf-Rayet Star Survey: 192641

FIELD CENTER: $20^{\text{h}}12^{\text{m}}39.9^{\text{s}}$ $36^{\circ}30'01''$ (B1950)
 $20^{\text{h}}14^{\text{m}}32.3^{\text{s}}$ $36^{\circ}39'13''$ (J2000)
 $l: 74.32$ $b: 1.09$

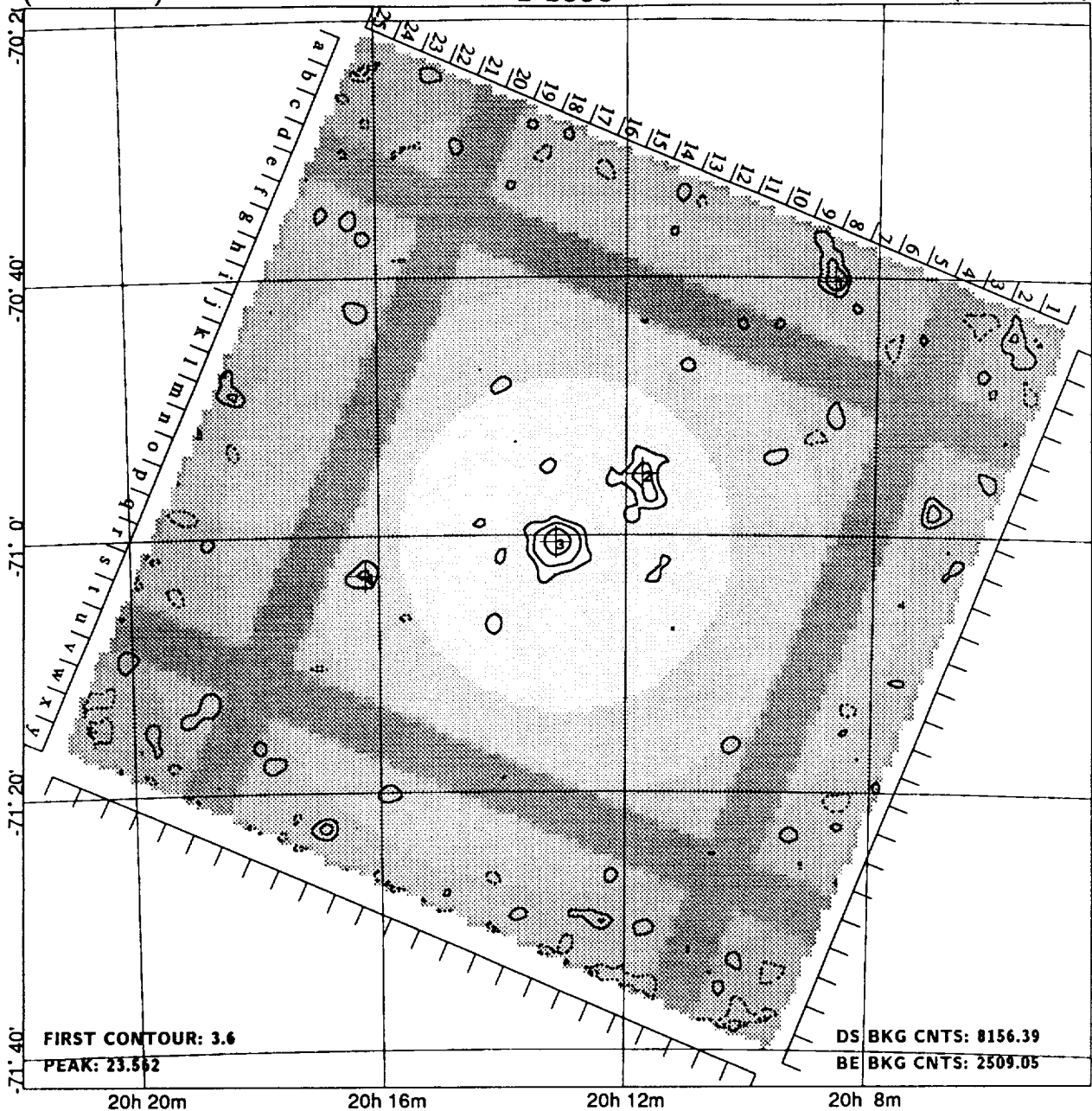
DATE: 1980/122 - 1980/122
 LIVETIME: 4379.1s
 ROLL ANGLE: -74.5°

NH: $1.0\text{E}+22$
 REF/ID: S
 FIELD FLAGS: L

(20h 13m)

I 1858

(20h 13m)



CA2013-710: X-RAY STUDY OF CLUSTERS OF GALAXIES

FIELD CENTER: $20^{\text{h}}13^{\text{m}}05.8^{\text{s}}$ $-71^{\circ}00'59''$ (B1950)
 $20^{\text{h}}18^{\text{m}}20.1^{\text{s}}$ $-70^{\circ}51'39''$ (J2000)
 $l: 324.13$ $b: -32.60$

DATE: 1979/278 - 1979/278
 LIVETIME: 6609.4s
 ROLL ANGLE: 112.8°

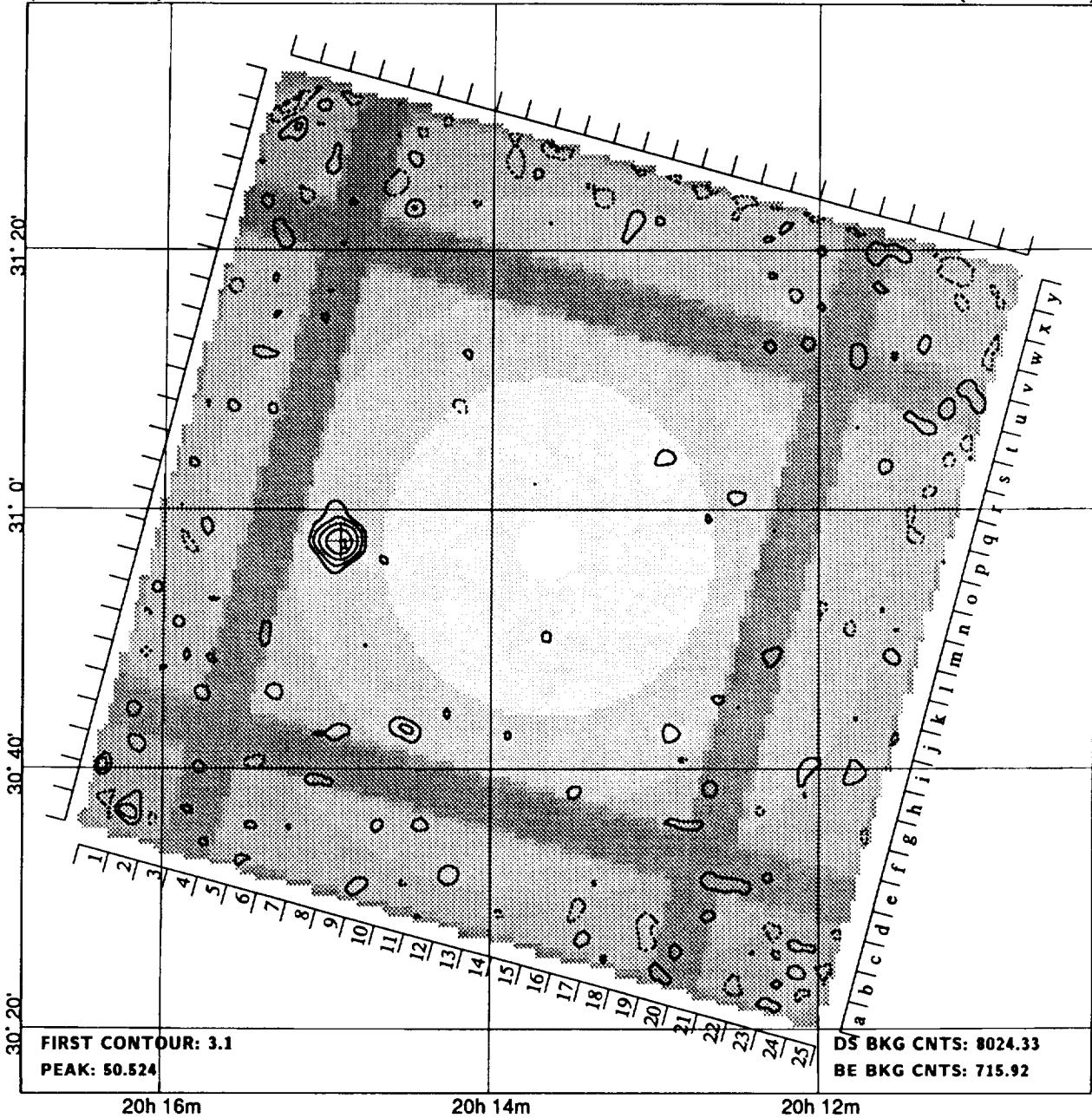
NH: $5.2\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4332	1	20 08 40.6	-70 40 18	56	0.0089	0.0025	21.3	14.7	3.5	1.2	0	30.0	H
4340	2	20 11 44.3	-70 55 12	42	0.0087	0.0018	39.3	27.7	4.8	1.4	0	8.7	H
4342	3	20 13 08.0	-71 00 33	31	0.0218	0.0024	107.4	29.6	9.2	1.4	0	0.6	H G
4351	4	20 16 13.5	-71 03 06	55	0.0068	0.0018	25.7	22.3	3.7	0.7	0	15.5	H

(20h 13m)

I 1764

(20h 13m)



OSO-8 TRANSIENT

FIELD CENTER: $20^{\text{h}}13^{\text{m}}35.8^{\text{s}}$ $30^{\circ}56'59''$ (B1950)
 $20^{\text{h}}15^{\text{m}}36.1^{\text{s}}$ $31^{\circ}06'15''$ (J2000)
 $l: 69.83$ $b: -2.18$

DATE: 1980/121 - 1980/121
 LIVETIME: 6502.3s
 ROLL ANGLE: -75.1°

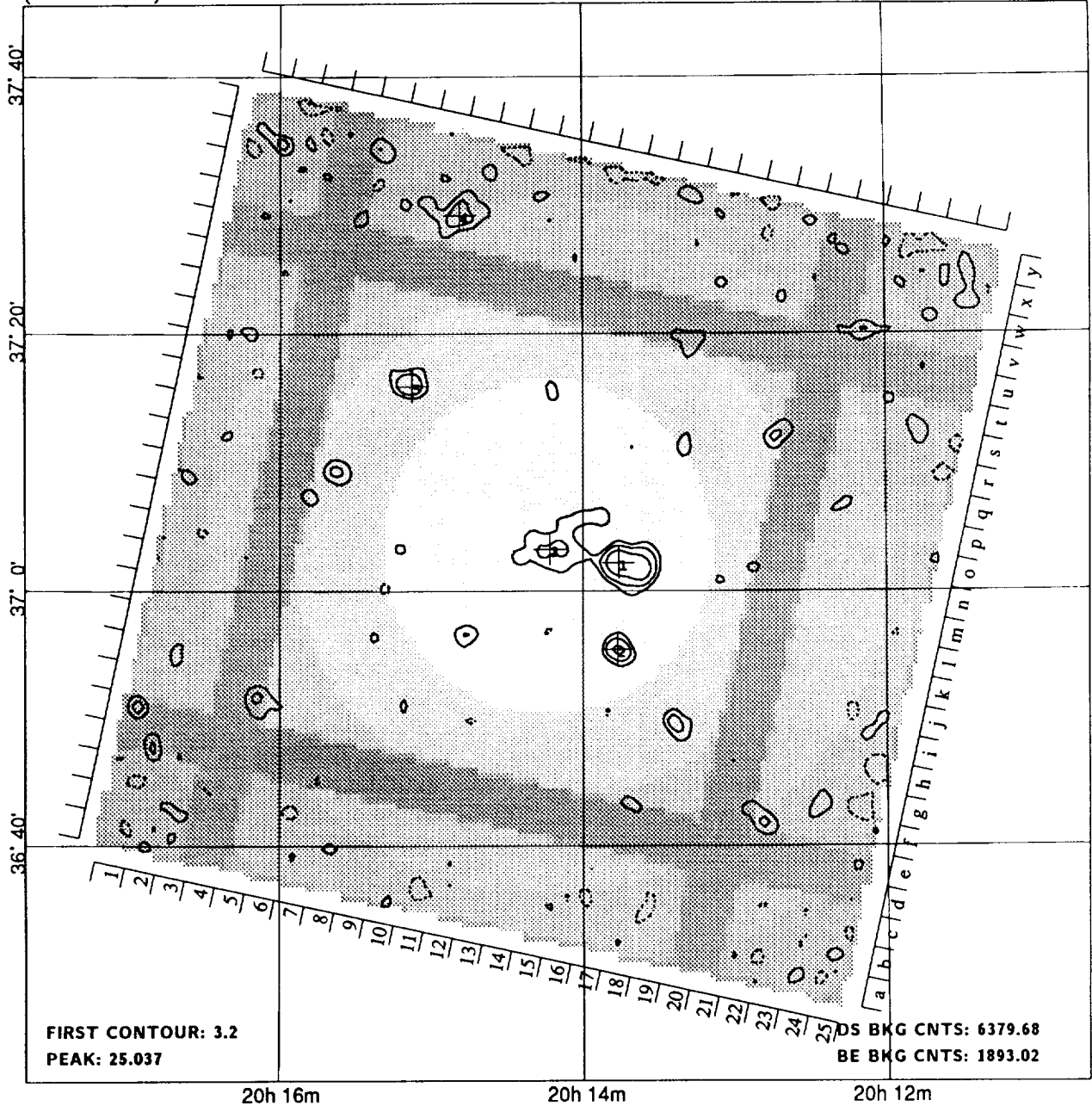
NH: $6.8\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4348	1	20 14 55.6	30 57 34	48	0.0379	0.0034	139.9	16.1	11.2	1.1	0	17.2	H

(20h 14m)

I 3495

(20h 14m)



G74.9+1.2, CRAB-LIKE SNR

FIELD CENTER: 20^h14^m09.8^s 37°03'44" (B1950)
 20^h16^m01.5^s 37°13'01" (J2000)
l: 74.96 *b*: 1.15

DATE: 1979/118 - 1979/118
 LIVETIME: 5169.6s
 ROLL ANGLE: -77.0°

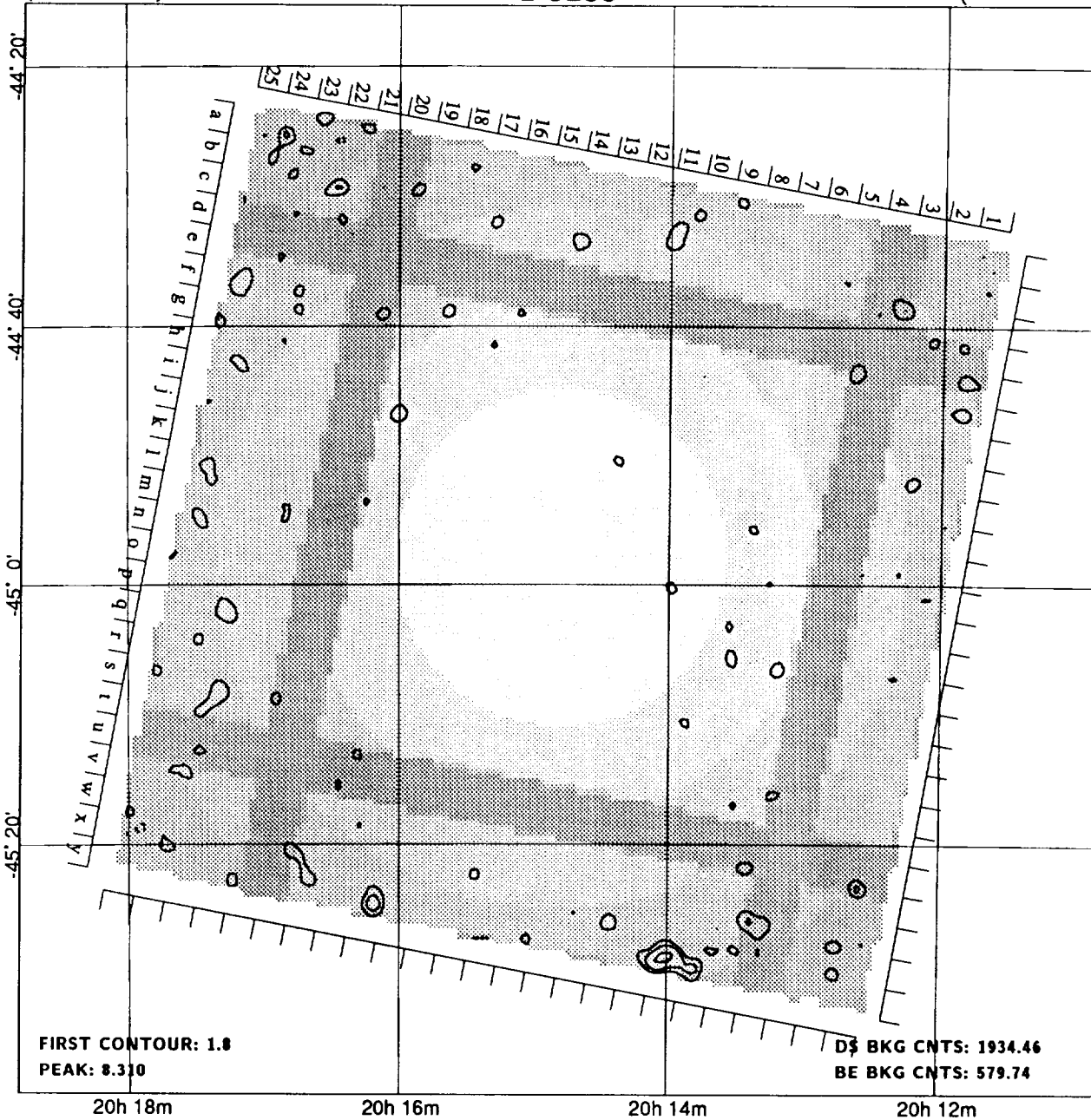
NH: 1.0E+22
 REF/ID: S
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4343	1	20 13 45.9	37 02 11	38	0.0241	0.0029	88.1	22.9	8.4	2.0	0	5.7	H	*
4344	2	20 13 46.4	36 55 28	41	0.0117	0.0023	40.5	21.5	5.1	0.7	0	9.4		*
4345	3	20 14 13.2	37 03 14	36	0.0108	0.0021	41.4	21.6	5.2	6.5	0	1.3	H	SNR
4347	4	20 14 48.8	37 29 13	58	0.0100	0.0028	20.7	12.3	3.6	1.1	0	26.7	H	
4350	5	20 15 07.8	37 15 57	51	0.0117	0.0025	34.1	17.9	4.7	0.8	0	16.8	H	*

(20h 14m)

I 5253

(20h 14m)



NGC 6890, X-RAY AND OPTICAL STUDY OF NEARBY SEYFERT 2 GALAXIES

FIELD CENTER: $20^h 14^m 49.8^s$ $-44^\circ 57' 23''$ (B1950)
 $20^h 18^m 18.6^s$ $-44^\circ 48' 01''$ (J2000)
 $l: 355.35$ $b: -33.71$

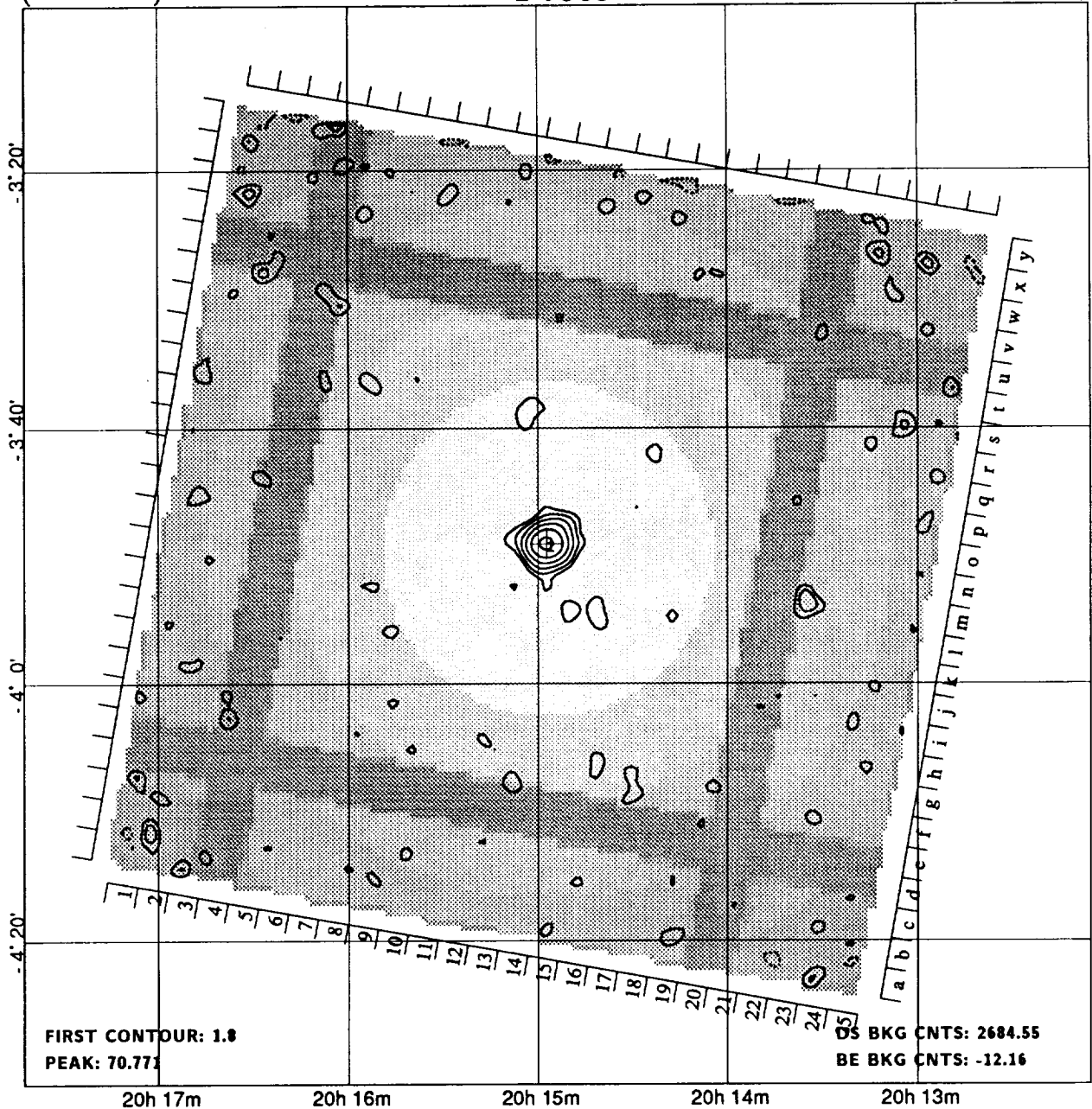
DATE: 1979/300 - 1979/300
 LIVETIME: 1567.5s
 ROLL ANGLE: 100.6°

NH: $4.5E+20$
 REF/ID:
 FIELD FLAGS: L

(20h 14m)

I 7909

(20h 14m)



V794 Aq1,4 BLUE GALACTIC EMISSION LINE OBJECTS

FIELD CENTER: 20^h14^m53.7^s -03°49'11" (B1950)
 20^h17^m31.1^s -03°39'50" (J2000)
 $l: 39.69$ $b: -20.79$

DATE: 1980/104 - 1980/104
 LIVETIME: 2253.5s
 ROLL ANGLE: -79.9°

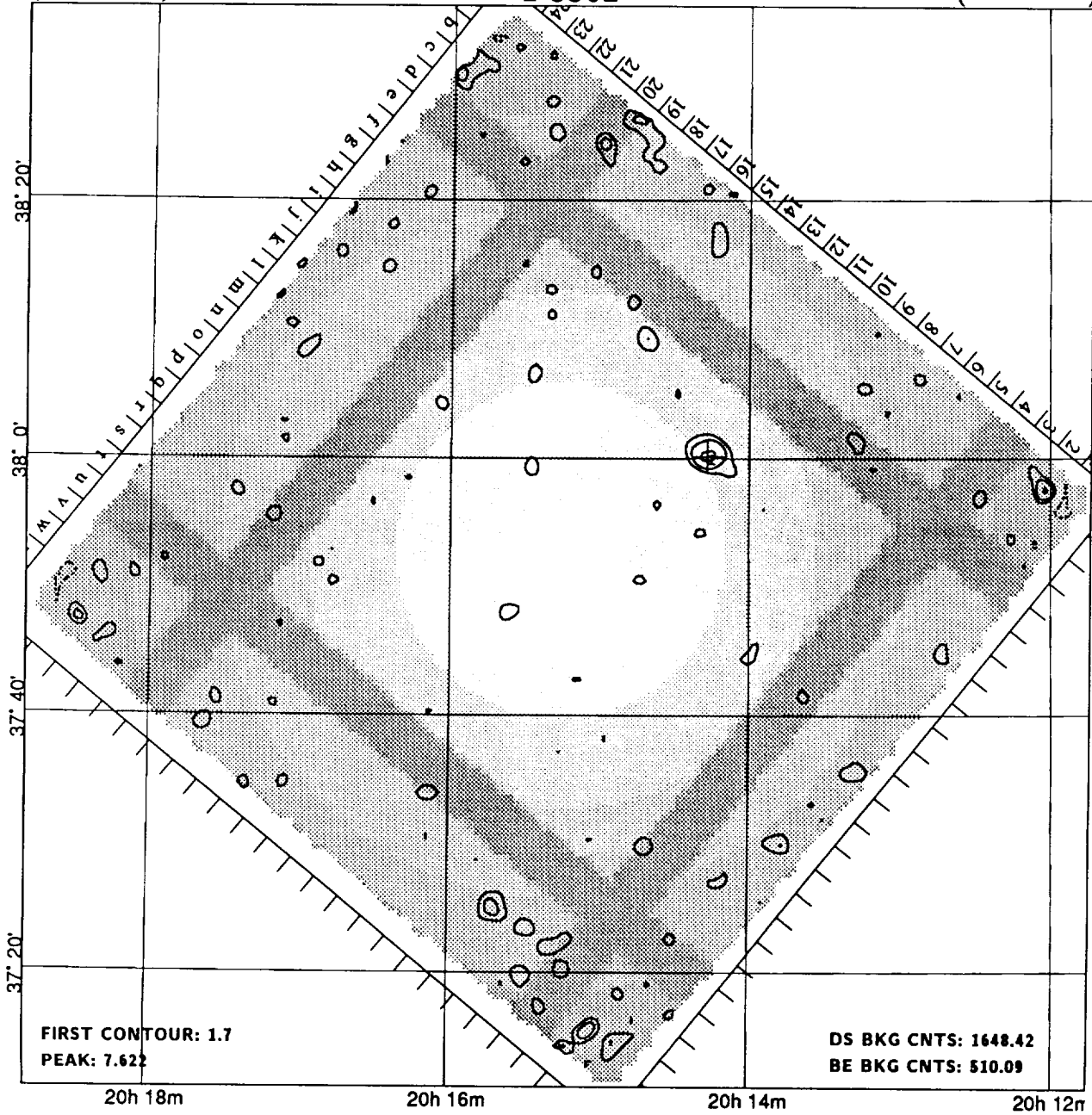
NH: 7.0E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4349	1	20 14 57.3	-03 49 01	31	0.170	0.010	285.8	6.2	16.7	1.2	0	0.9	H CV

(20h 15m)

I 3362

(20h 15m)



FIRST CONTOUR: 1.7
PEAK: 7.622

DS BKG CNTS: 1648.42
BE BKG CNTS: 510.09

20h 18m 20h 16m 20h 14m 20h 12m

EXPANDING STELLAR ATMOSPHERES: P CYGNI

FIELD CENTER: 20^h 15^m 16.8^s 37° 52' 59" (B1950)
20^h 17^m 07.4^s 38° 02' 21" (J2000)
ℓ: 75.76 b: 1.43

DATE: 1979/336 - 1979/336
LIVETIME: 1335.8s
ROLL ANGLE: 129.0°

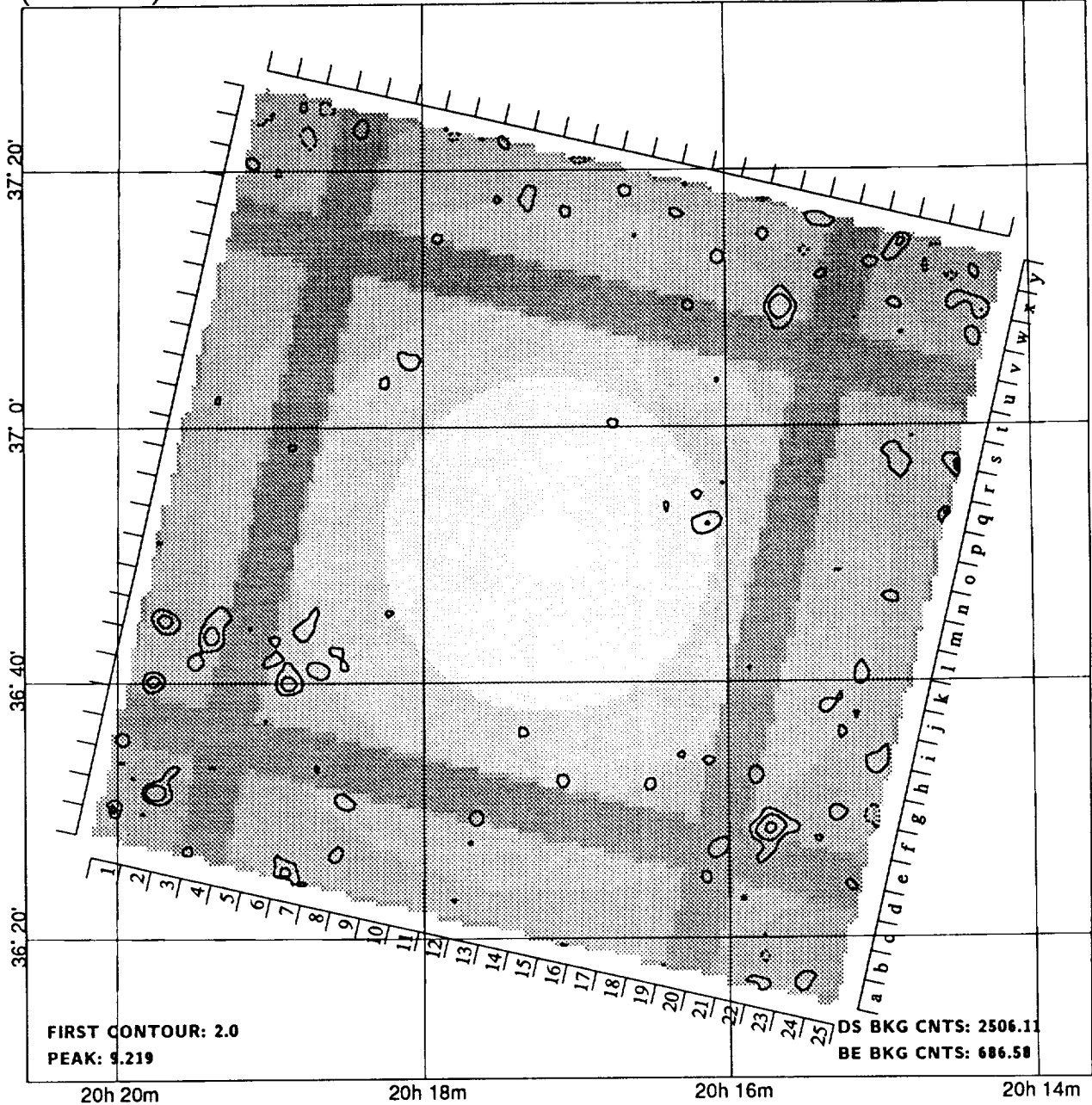
NH: 1.0E+22
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4346	1	20 14 16.9	38 00 09	42	0.0325	0.0068	26.6	4.4	4.8	1.0	0	14.2	H

(20h 17m)

I 3478

(20h 17m)



CG075+0 GAMMA RAY SOURCE

FIELD CENTER: $20^{\text{h}}17^{\text{m}}07.0^{\text{s}}$ $36^{\circ}50'59''$ (B1950)
 $20^{\text{h}}18^{\text{m}}59.4^{\text{s}}$ $37^{\circ}00'27''$ (J2000)
 $l: 75.11$ $b: 0.55$

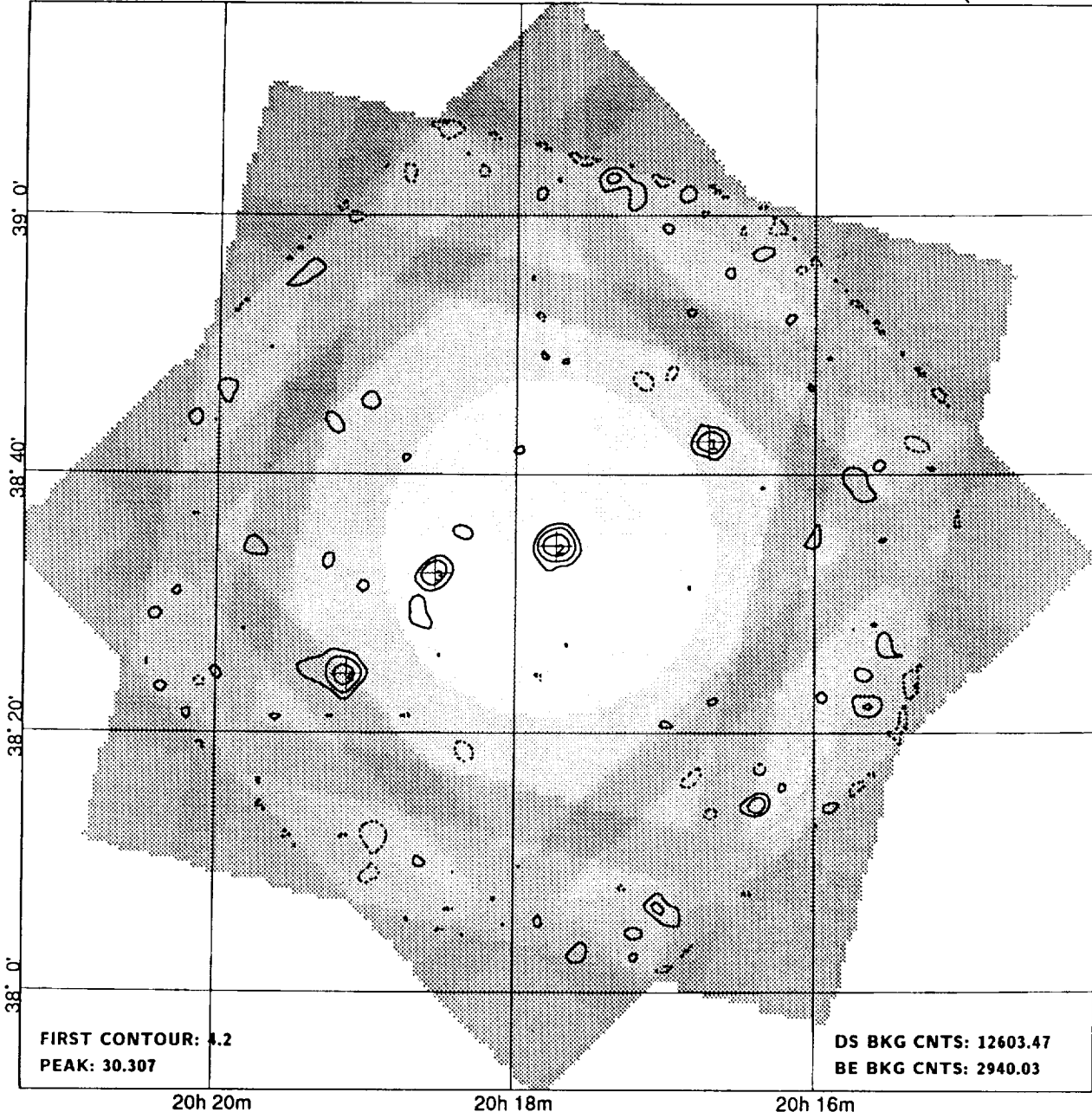
DATE: 1980/120 - 1980/120
 LIVETIME: 2103.7s
 ROLL ANGLE: -77.1°

NH: $1.0\text{E}+22$
 REF/ID:
 FIELD FLAGS:

(20h 17m)

I 7875

(20h 17m)



HD 193576, COMPACT COMPANIONS OF SINGLE-LINE WR STARS

FIELD CENTER: $20^h 17^m 42.4^s$ $38^\circ 34' 23''$ (B1950)
 $20^h 19^m 32.2^s$ $38^\circ 43' 53''$ (J2000)
 $l: 76.60$ $b: 1.43$

DATE: 1980/120 - 1980/161
 LIVETIME: 10579.7s

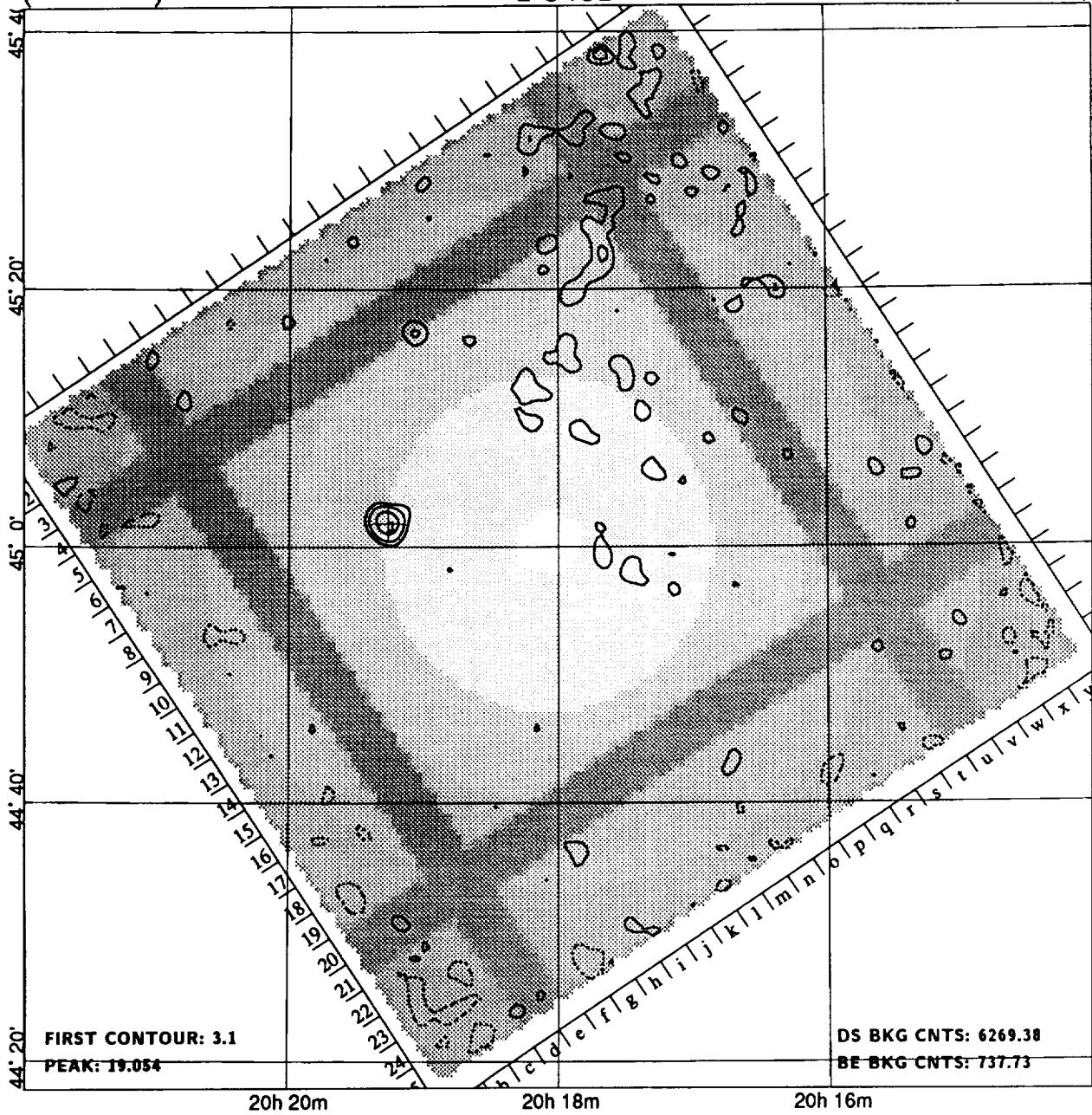
NH: $1.1E+22$
 REF/ID: S
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4352	1	20 16 42.5	38 42 36	42	0.0070	0.0014	43.9	31.1	5.1	0.8	0	14.3	H
4358	2	20 17 43.7	38 34 30	31	0.0147	0.0016	116.2	38.8	9.3	1.0	0	0.4	H
4364	3	20 18 32.4	38 32 23	41	0.0074	0.0013	53.1	39.9	5.5	0.8	0	9.9	H
4365	4	20 19 07.7	38 24 35	50	*0.0115	0.0017	64.6	24.4	6.9	1.2	906	19.7	H

(20h 17m)

I 3481

(20h 17m)



W63 SUPERNOVA REMNANT

FIELD CENTER: $20^h 17^m 59.8^s$ $44^\circ 59' 59''$ (B1950)
 $20^h 19^m 38.5^s$ $45^\circ 09' 30''$ (J2000)
 $l: 81.93$ $b: 5.03$

DATE: 1979/171 - 1979/172
 LIVETIME: 5080.3s
 ROLL ANGLE: -33.5°

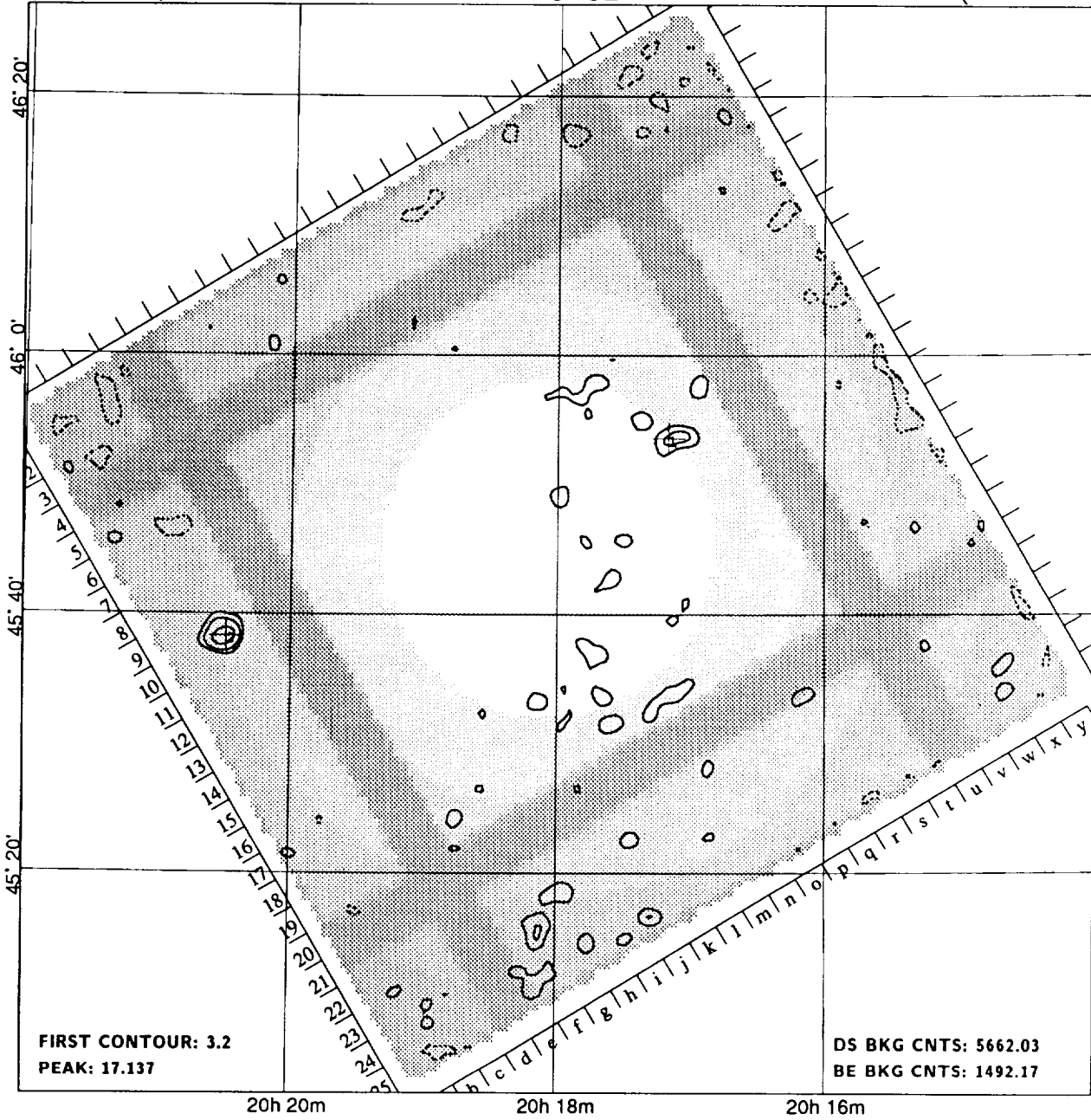
NH: $8.0E+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4366	1	20 19 16.0	45 01 50	41	0.0219	0.0029	69.8	15.2	7.6	0.9	0	13.6	H

(20h 17m)

I 3482

(20h 17m)



W63 SUPERNOVA REMNANT

FIELD CENTER: 20^h17^m59.8^s 45°44'59" (B1950)
 20^h19^m37.0^s 45°54'30" (J2000)
 l : 82.55 b : 5.46

DATE: 1979/171 - 1979/171
 LIVETIME: 4588.1s
 ROLL ANGLE: -30.8°

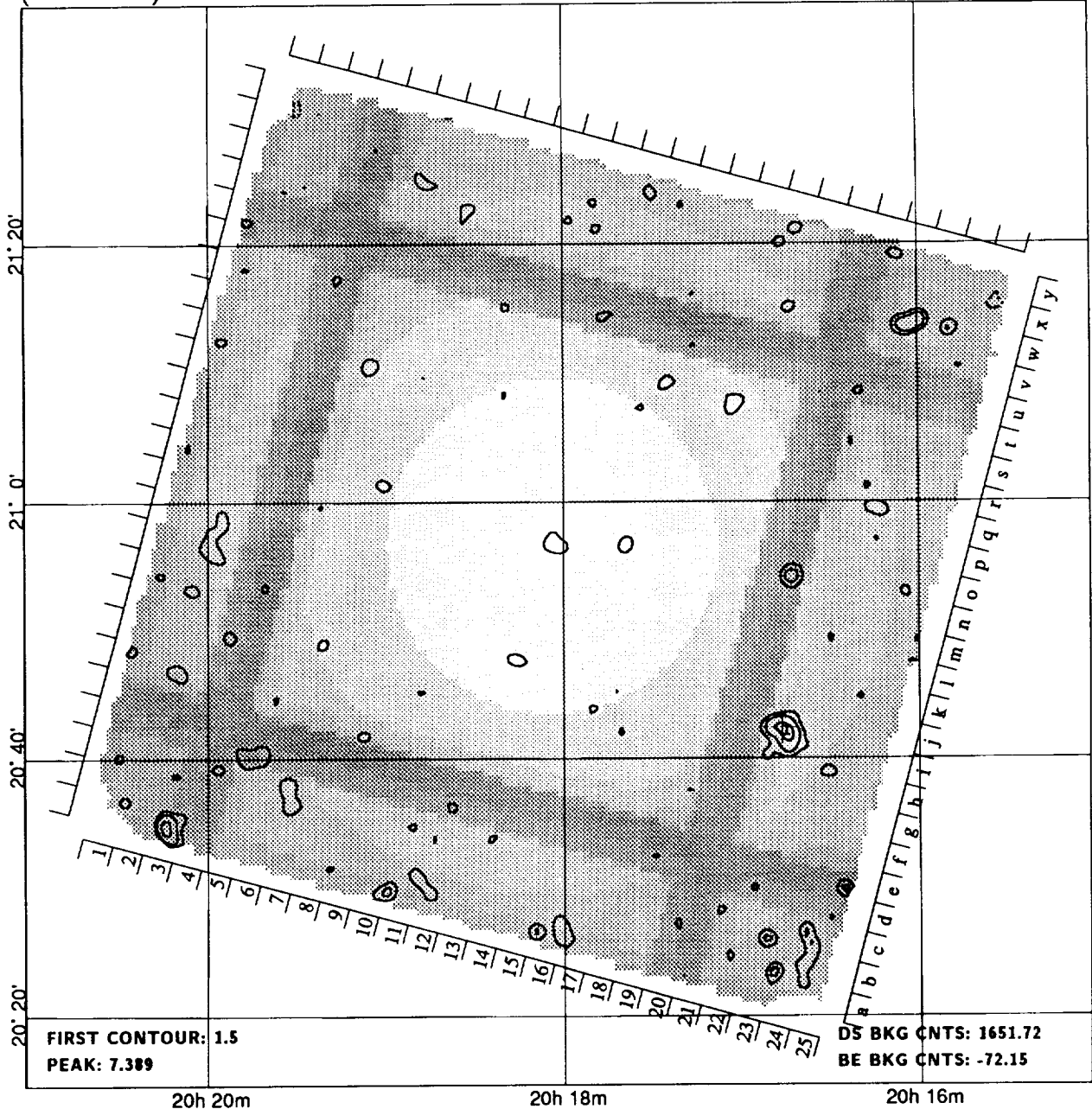
NH: 7.0E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4355	1	20 17 10.1	45 53 36	47	0.0092	0.0022	26.5	14.5	4.1	0.8	0	12.8	H
4368	2	20 20 28.9	45 38 16	51	0.0231	0.0040	43.4	12.6	5.8	1.0	0	26.9	H

(20h 18m)

I 3506

(20h 18m)



V SGE, RAPID PERIODICITIES IN CATAclySMIC VARIABLES

FIELD CENTER: 20^h18^m01.8^s 20°56'38" (B1950)
 20^h20^m14.5^s 21°06'10" (J2000)
 l : 62.05 b : -8.60

DATE: 1979/121 - 1979/121
 LIVETIME: 1338.4s
 ROLL ANGLE: -74.9°

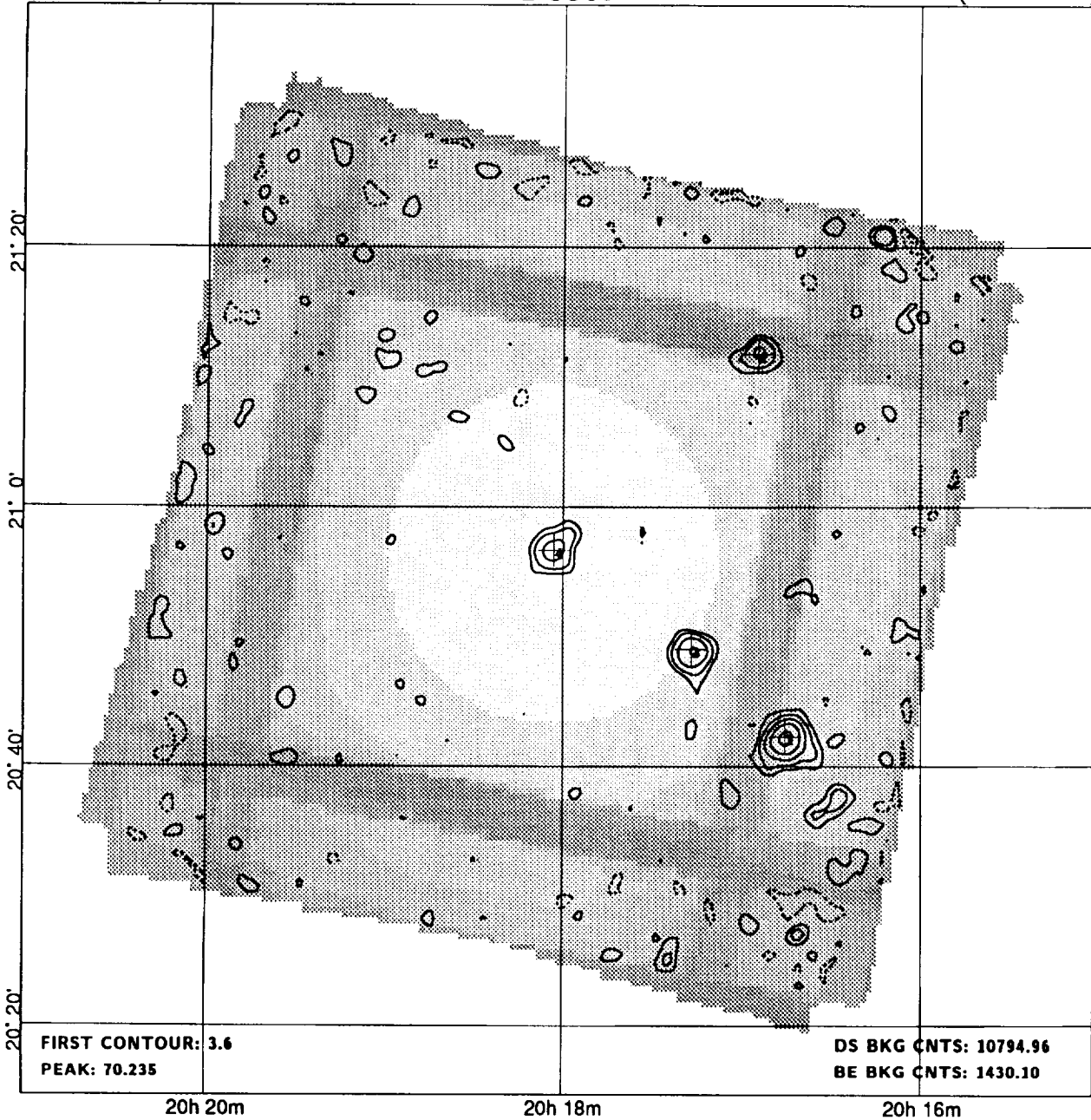
NH: 1.7E+21
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4353	1	20 16 46.3	20 42 20	54	*0.0268	0.0070	16.7	2.3	3.8	1.2	603	22.4	AH	S

(20h 18m)

I 3507

(20h 18m)



V SGE,RAPID PERIODICITIES IN CATAclySMIC VARIABLES

FIELD CENTER: $20^{\text{h}}18^{\text{m}}01.8^{\text{s}}$ $20^{\circ}56'38''$ (B1950)
 $20^{\text{h}}20^{\text{m}}14.5^{\text{s}}$ $21^{\circ}06'10''$ (J2000)
 $l: 62.05$ $b: -8.60$

DATE: 1979/122 - 1980/113
 LIVETIME: 8747.4s

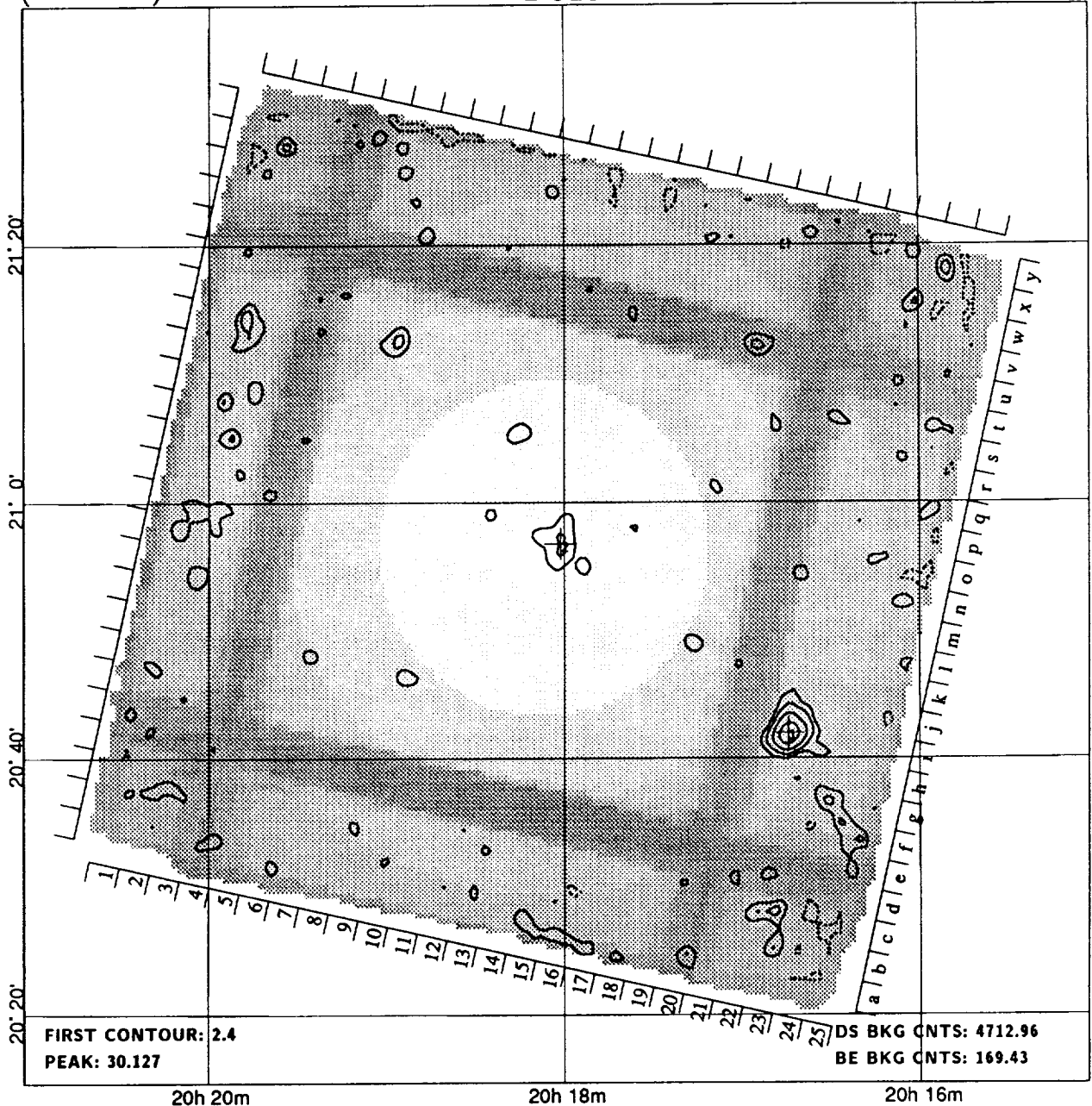
NH: $1.7\text{E}+21$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4353	1	20 16 45.3	20 42 15	47	*0.0413	0.0033	167.4	15.6	12.4	1.2	805	22.8	AH	S
4354	2	20 16 54.3	21 11 42	51	*0.0104	0.0019	43.3	18.7	5.5	1.1	1209	21.9	H	
4356	3	20 17 16.6	20 48 59	38	0.0197	0.0021	107.5	22.5	9.4	1.1	0	13.0	H	
4361	4	20 18 03.0	20 56 38	32	0.0135	0.0017	88.2	28.8	8.2	1.1	0	0.4	AH	

(20h 18m)

I 929

(20h 18m)



V SGE STELLAR OBSERVATIONS, VARIABLE STARS

FIELD CENTER: $20^{\text{h}}18^{\text{m}}02.4^{\text{s}}$ $20^{\circ}56'41''$ (B1950)
 $20^{\text{h}}20^{\text{m}}15.1^{\text{s}}$ $21^{\circ}06'13''$ (J2000)
 $l: 62.05$ $b: -8.60$

DATE: 1979/119 - 1980/113
 LIVETIME: 3819.0s
 ROLL ANGLE: -77.4°

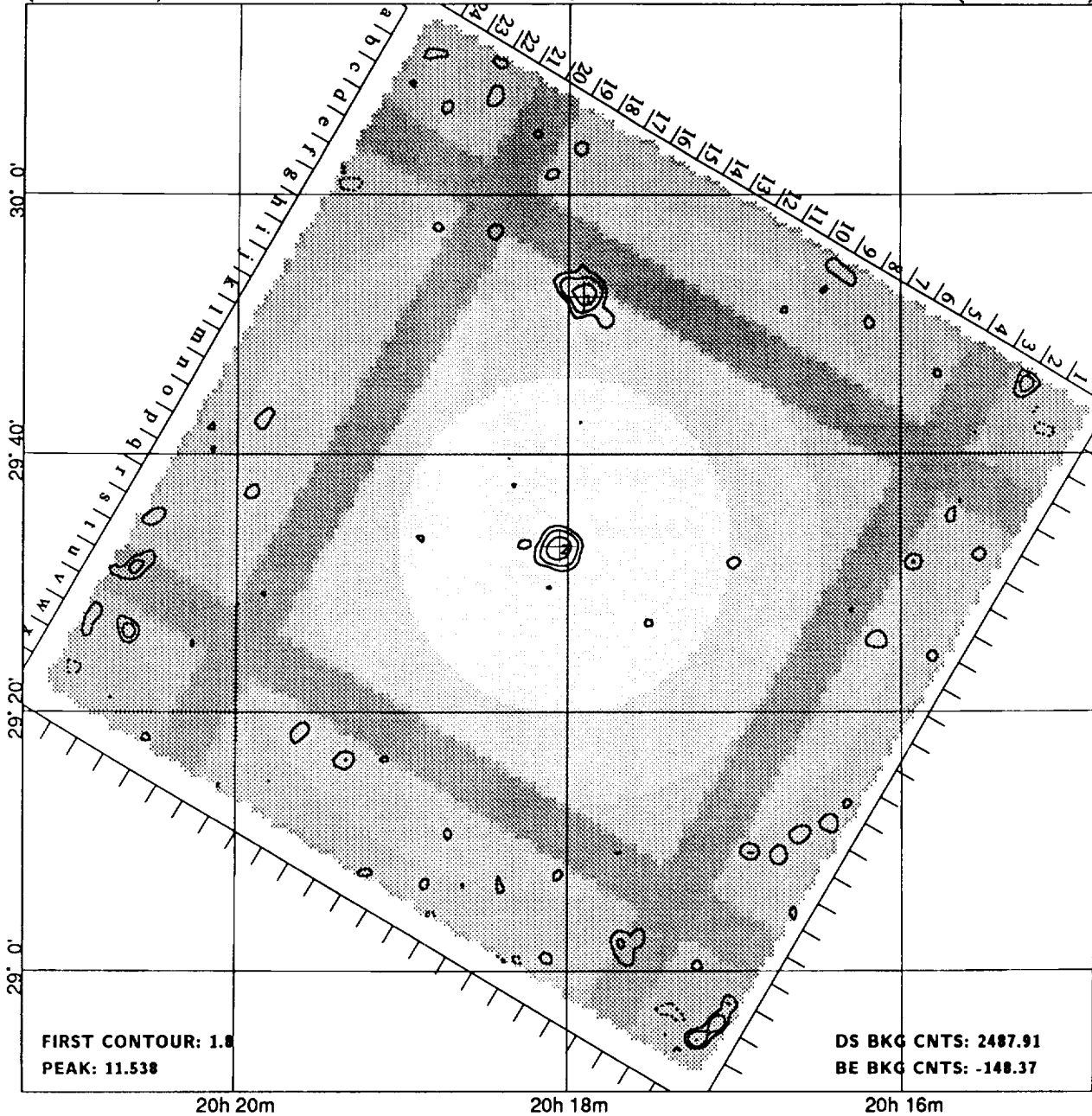
NH: $1.7\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4353	1	20 16 44.3	20 41 59	50	0.0407	0.0051	69.5	7.5	7.9	1.2	500	23.3	AH	S
4361	2	20 18 01.3	20 56 46	37	0.0087	0.0021	24.5	12.5	4.0	1.1	0	0.2	AH	

(20h 18m)

I 2680

(20h 18m)



3C 410.0: BRIGHT X-GALACTIC RADIO SOURCE

FIELD CENTER: $20^{\text{h}}18^{\text{m}}03.9^{\text{s}}$ $29^{\circ}32'40''$ (B1950)
 $20^{\text{h}}20^{\text{m}}06.5^{\text{s}}$ $29^{\circ}42'12''$ (J2000)
 $l: 69.21$ $b: -3.77$

DATE: 1979/328 - 1979/328
 LIVETIME: 2016.0s
 ROLL ANGLE: 120.4°

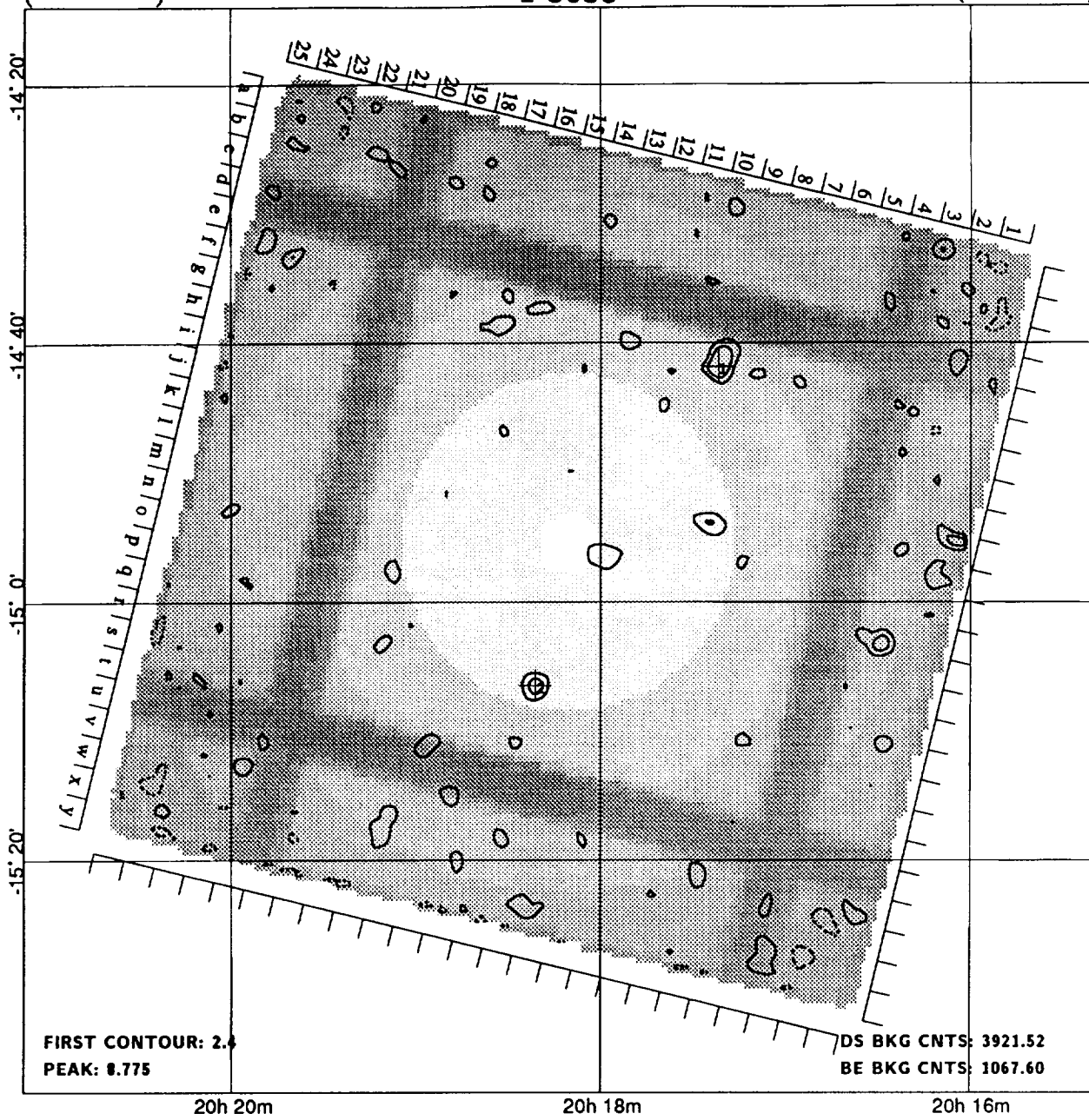
NH: $4.4\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4360	1	20 17 54.5	29 52 05	51	*0.0307	0.0057	32.3	3.7	5.4	1.2	602	19.7	H
4362	2	20 18 03.0	29 32 51	35	0.0349	0.0051	52.5	5.5	6.9	1.0	0	0.2	H G

(20h 18m)

I 5638

(20h 18m)



FIRST CONTOUR: 2.4
PEAK: 8.775

DS BKG CNTS: 3921.52
BE BKG CNTS: 1067.60

20h 20m

20h 18m

20h 16m

Beta CAP

FIELD CENTER: $20^h 18^m 12.9^s$ $-14^\circ 55' 59''$ (B1950)
 $20^h 21^m 01.2^s$ $-14^\circ 46' 26''$ (J2000)
 $l: 29.16$ $b: -26.37$

DATE: 1979/303 - 1979/312
 LIVETIME: 3177.7s
 ROLL ANGLE: 103.7°

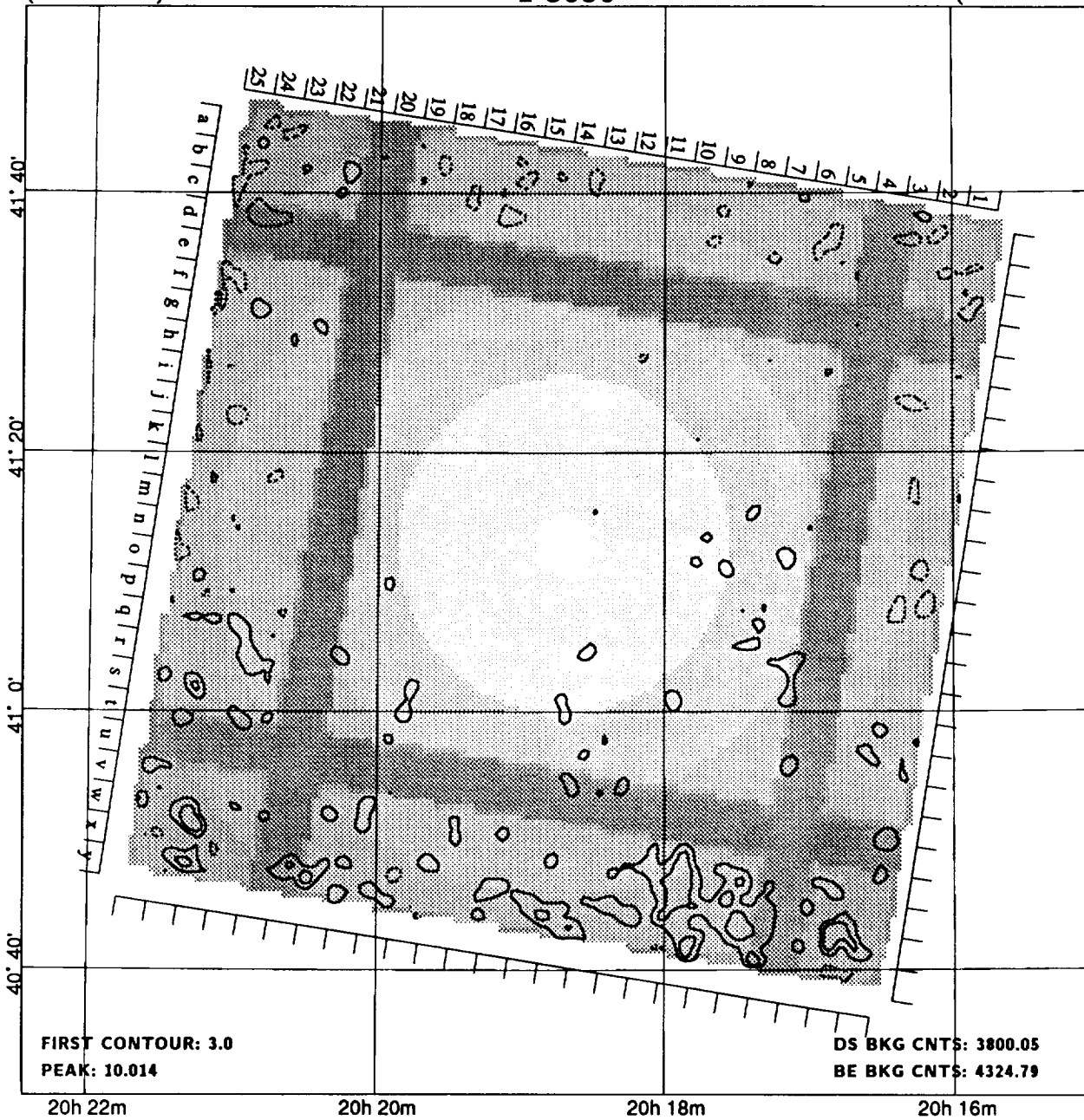
NH: $5.2E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4357	1	20 17 21.6	-14 41 50	52	0.0160	0.0035	27.7	9.3	4.5	0.9	400	19.5	H
4363	2	20 18 21.2	-15 06 29	44	0.0102	0.0027	21.1	10.9	3.7	0.6	0	10.8	H

(20h 18m)

I 5036

(20h 18m)



FIELD CENTER: 20^h18^m45.1^s 41°12'25" (B1950)
 20^h20^m30.7^s 41°21'59" (J2000)
 l : 78.88 b : 2.76

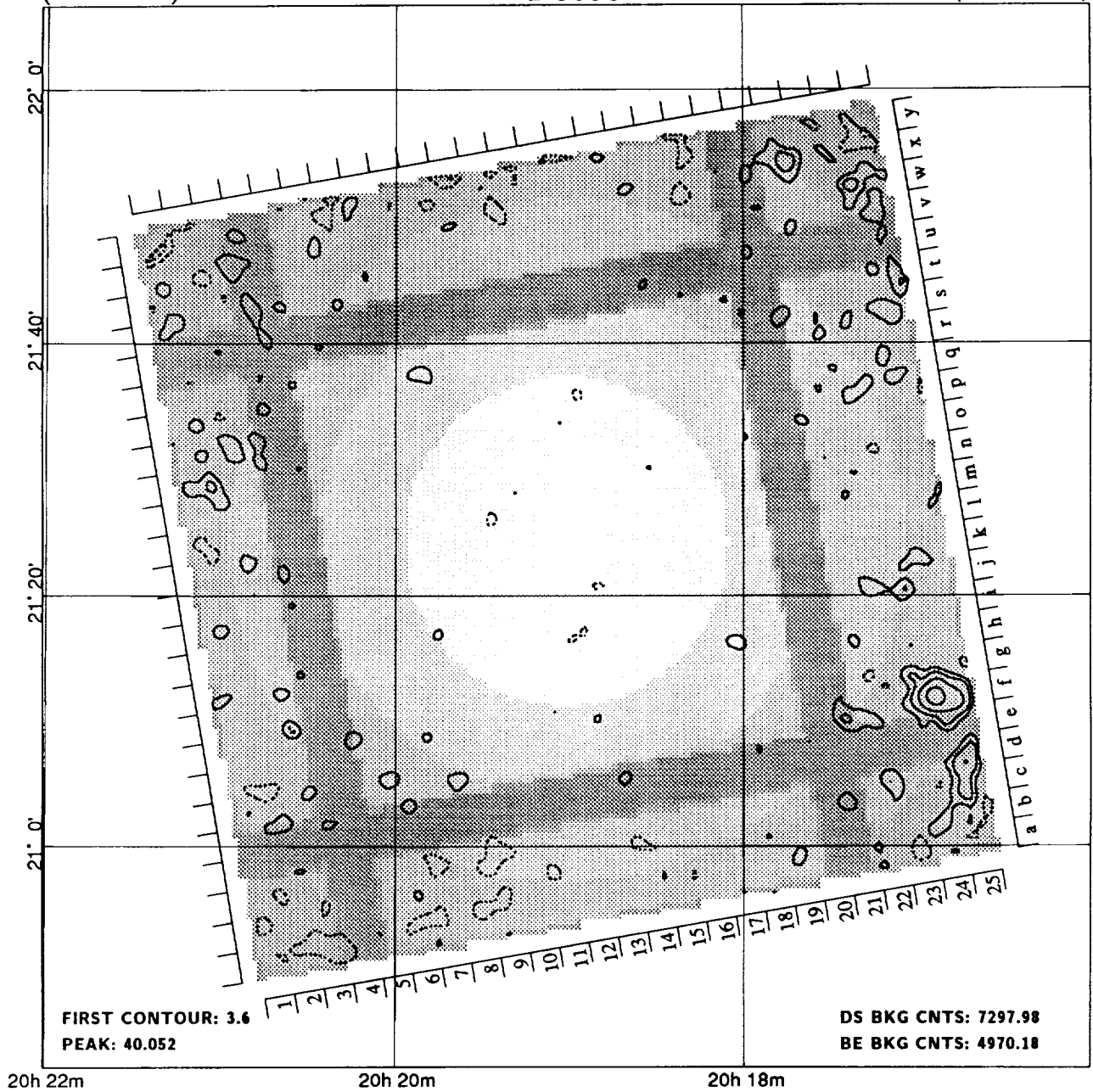
DATE: 1979/302 - 1979/302
 LIVETIME: 3079.3s
 ROLL ANGLE: 98.9°

NH: 1.3E+22
 REF/ID:
 FIELD FLAGS: L

(20h 19m)

I 8698

(20h 19m)



N VUL 1979, CATAclySMIC VARIABLES

FIELD CENTER: $20^h 19^m 00.8^s$ $21^\circ 24' 41''$ (B1950)
 $20^h 21^m 13.1^s$ $21^\circ 34' 17''$ (J2000)
 $l: 62.57$ $b: -8.53$

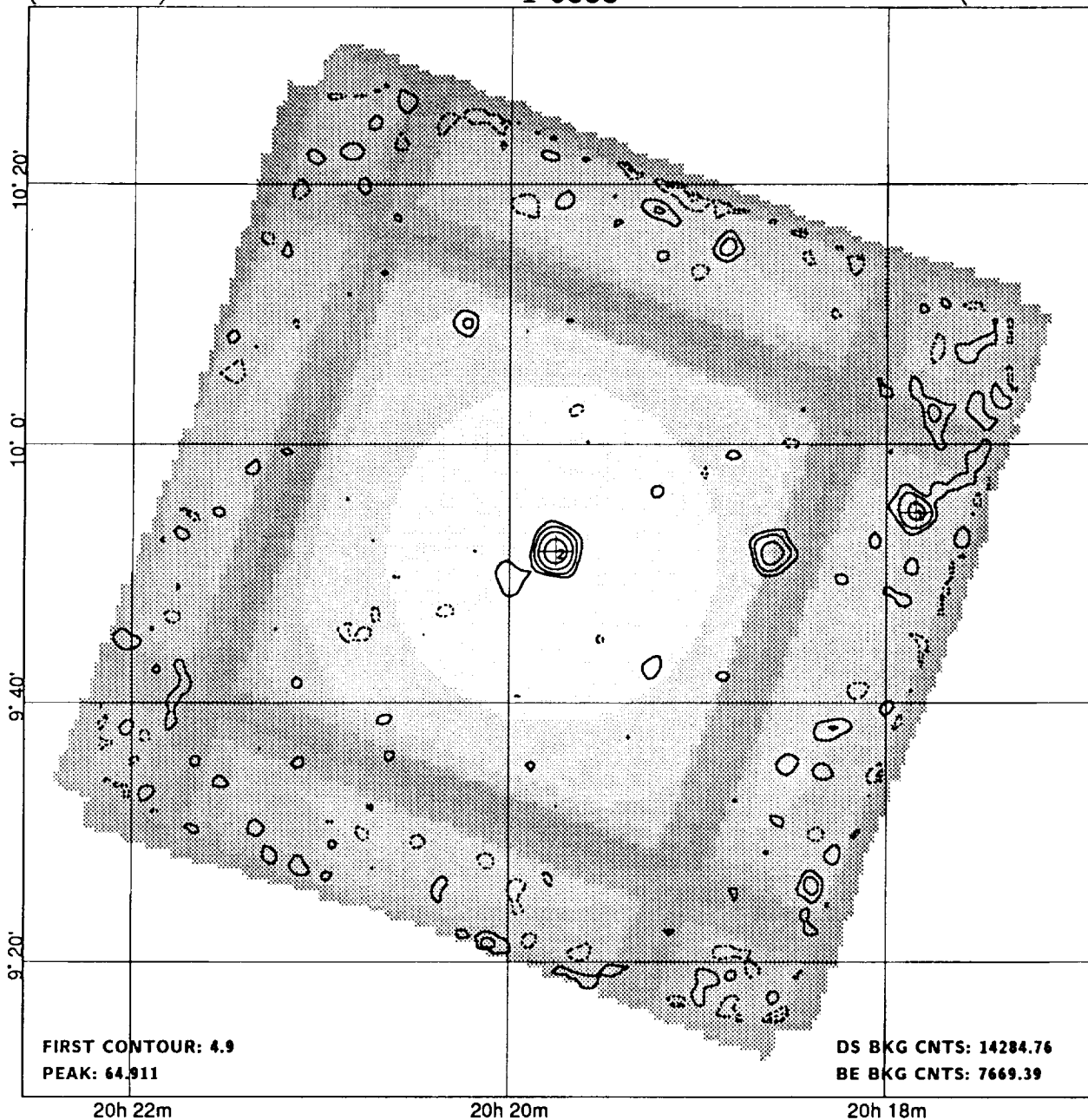
DATE: 1981/106 - 1981/106
 LIVETIME: 5913.8s
 ROLL ANGLE: -99.7°

NH: $1.8E+21$
 REF/ID:
 FIELD FLAGS: LS

(20h 19m)

I 6833

(20h 19m)



3C 411.OBSERVATIONS OF VERY DISTANT CLUSTERS

FIELD CENTER: 20^h19^m44.0^s 09°51'33'' (B1950)
20^h22^m08.2^s 10°01'12'' (J2000)
l: 52.78 b: -14.98

DATE: 1980/122 - 1981/ 94
LIVETIME: 11991.0s

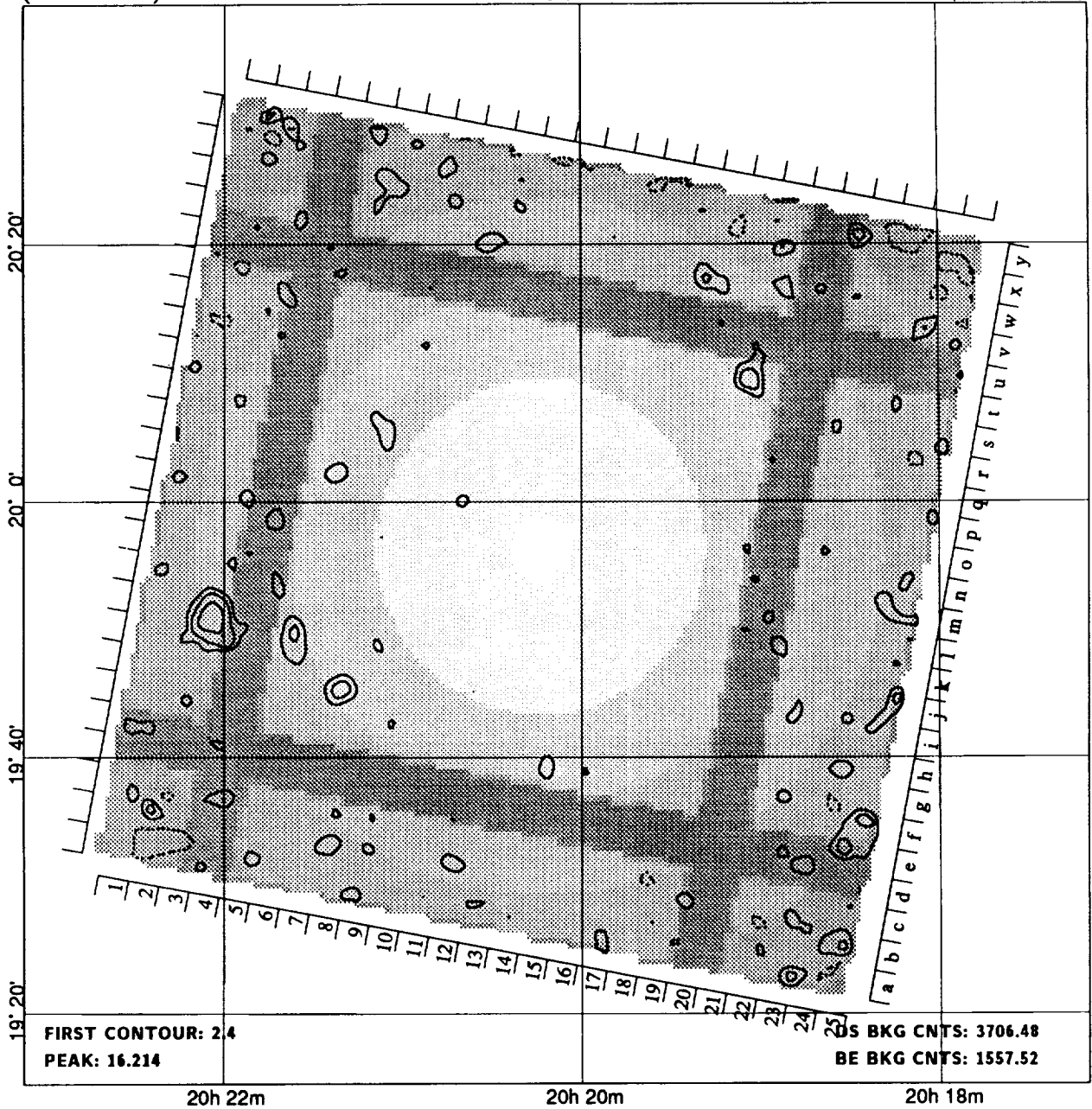
NH: 1.2E+21
REF/ID:
FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE ±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4359	1L	20 17 50.7	09 54 45	51	0.0102 0.0025	45.7	39.3	3.9	1.4	0	28.3	
4367	2L	20 19 45.1	09 51 44	31	0.0298 0.0023	266.5	64.5	12.5	1.1	0	0.4	

(20h 20m)

I 6819

(20h 20m)



NGC 6905: HOT PLANETARY NEBULAE

FIELD CENTER: 20^h 20^m 08.3^s 19° 56' 38" (B1950)
 20^h 22^m 22.2^s 20° 06' 18" (J2000)
 l : 61.49 b : -9.57

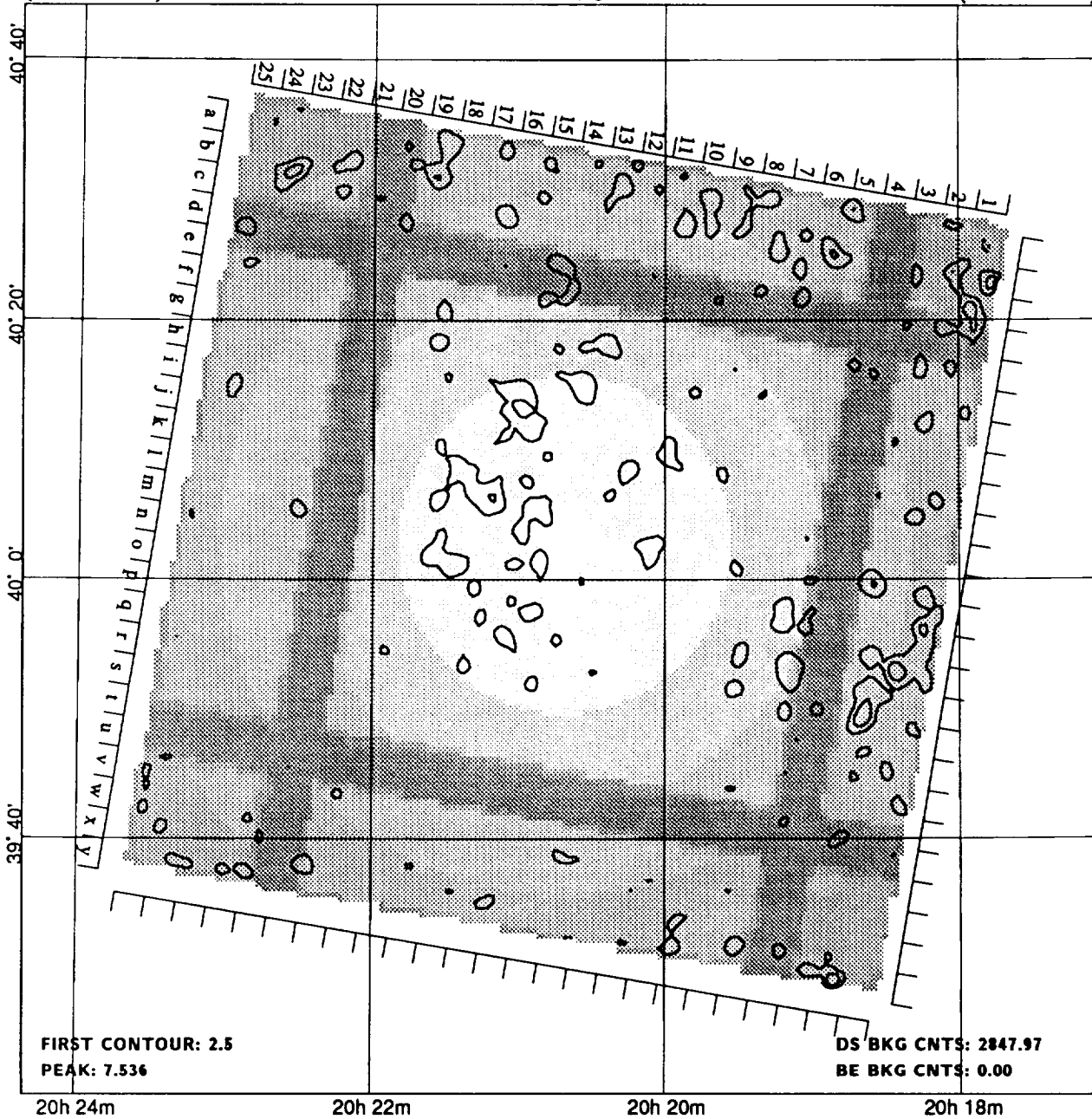
DATE: 1980/114 - 1980/114
 LIVETIME: 3111.3s
 ROLL ANGLE: -79.3°

NH: 1.5E+21
 REF/ID:
 FIELD FLAGS: L

(20h 20m)

I 779

(20h 20m)



FIRST CONTOUR: 2.5
PEAK: 7.536

DS BKG CNTS: 2847.97
BE BKG CNTS: 0.00

20h 24m

20h 22m

20h 20m

20h 18m

W66 SNR'S, SEARCH FOR X-RAY EMISSION

FIELD CENTER: 20^h20^m43.8^s 40°02'17" (B1950)
20^h22^m31.7^s 40°11'58" (J2000)
ℓ: 78.13 b: 1.79

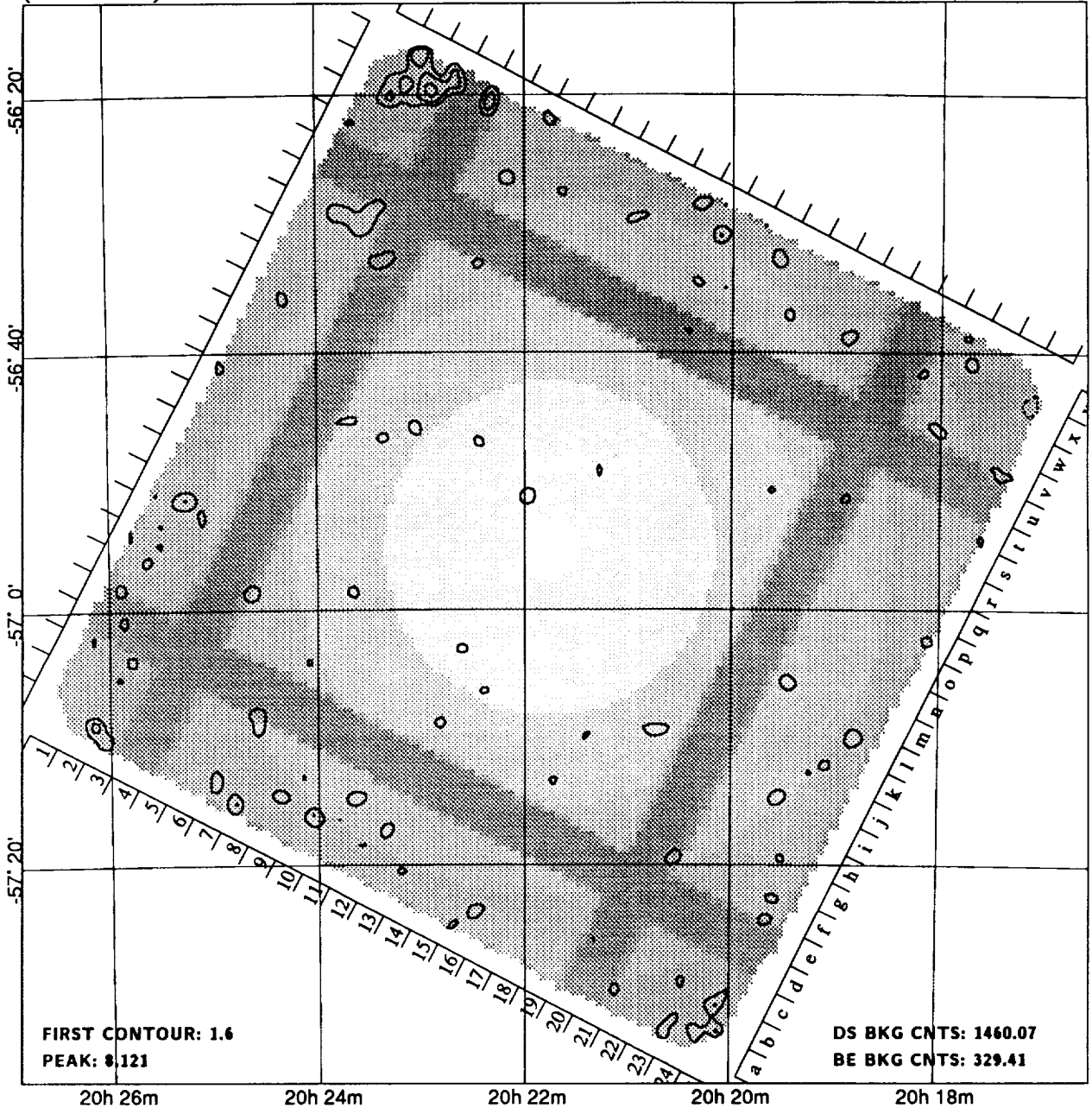
DATE: 1979/303 - 1979/303
LIVETIME: 2307.8s
ROLL ANGLE: 99.6°

NH: 1.2E+22
REF/ID:
FIELD FLAGS: L

(20h 21m)

I 3290

(20h 21m)



FIRST CONTOUR: 1.6
PEAK: 8.121

DS BKG CNTS: 1460.07
BE BKG CNTS: 329.41

CANDIDATE X-RAY BINARY SOURCES: HD 193924

FIELD CENTER: $20^{\text{h}}21^{\text{m}}41.8^{\text{s}}$ $-56^{\circ}54'59''$ (B1950)
 $20^{\text{h}}25^{\text{m}}38.4^{\text{s}}$ $-56^{\circ}45'11''$ (J2000)
 $l: 340.88$ $b: -35.19$

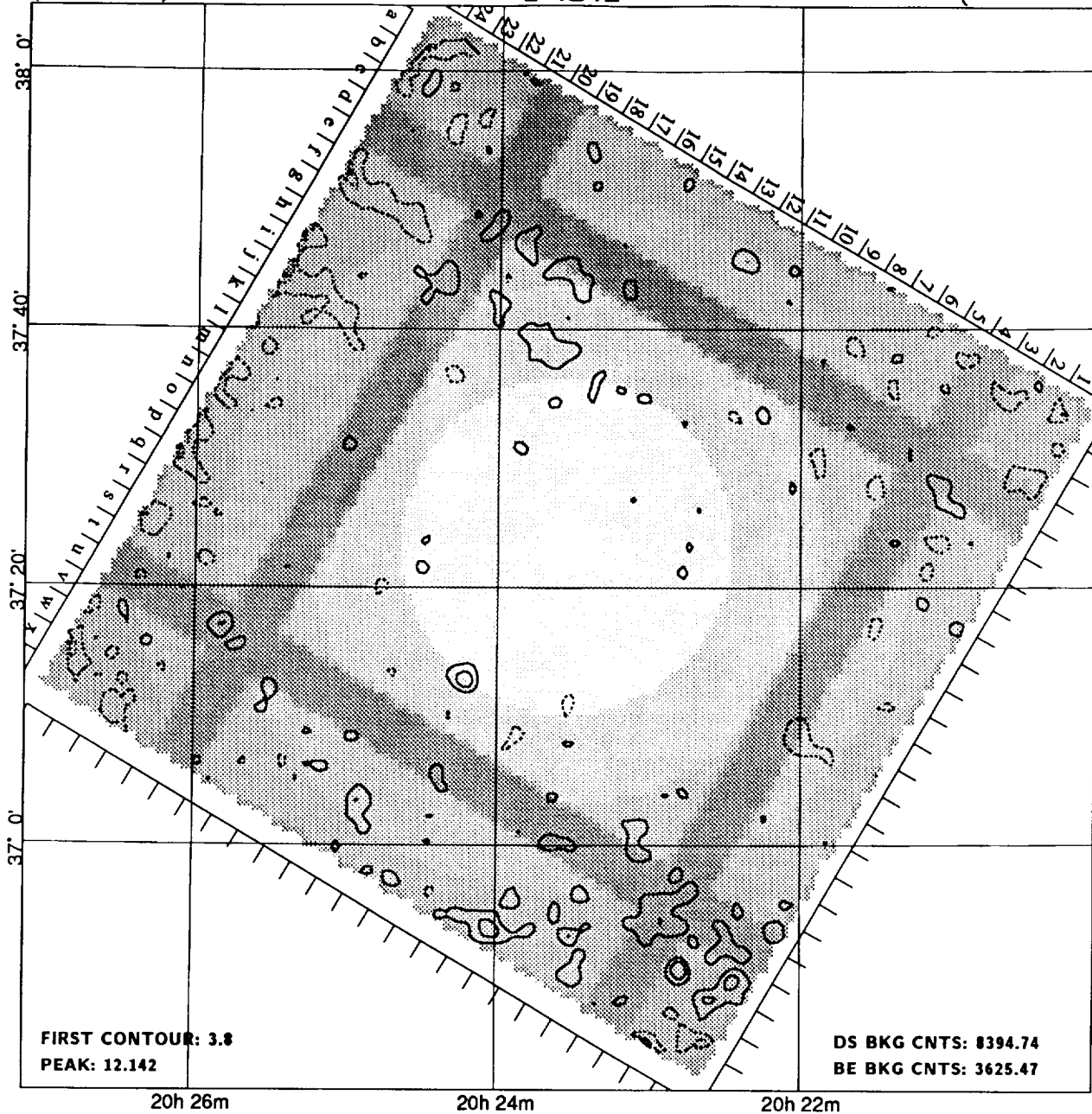
DATE: 1979/100 - 1979/100
LIVETIME: 1183.1s
ROLL ANGLE: -62.9°

NH: $5.5\text{E}+20$
REF/ID:
FIELD FLAGS:

(20h 23m)

I 4242

(20h 23m)



FIELD CENTER: 20^h23^m35.8^s 37°22'59" (B1950)
20^h25^m28.2^s 37°32'50" (J2000)
***l*: 76.29 *b*: -0.20**

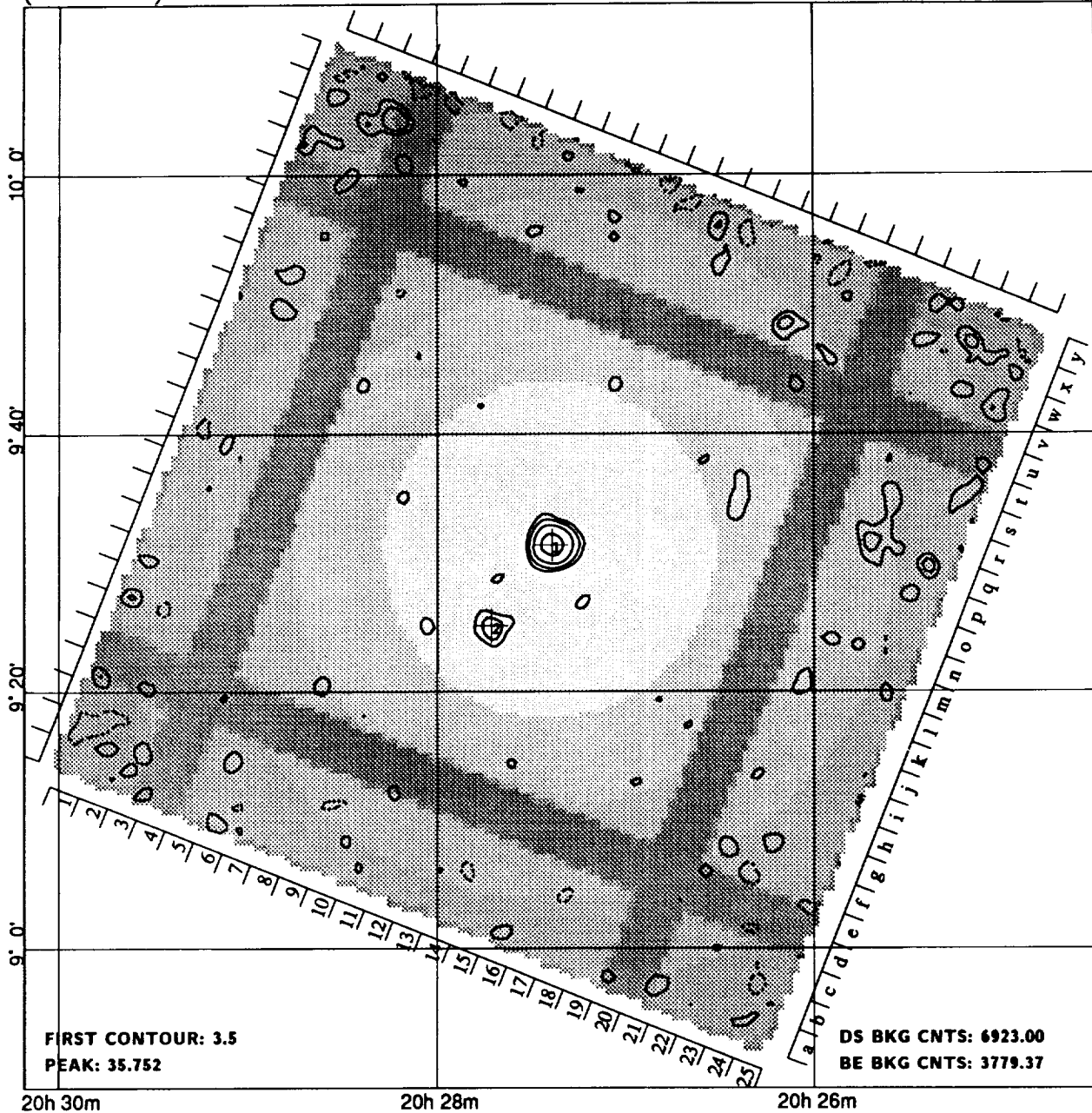
DATE: 1979/328 - 1979/328
LIVETIME: 6802.6s
ROLL ANGLE: 120.3°

NH: 9.8E+21
REF/ID:
FIELD FLAGS: L

(20h 27m)

I 10313

(20h 27m)



G 791.2, SOLAR NEIGHBORHOOD FLARE STARS

FIELD CENTER: 20^h27^m20.8^s 09°31'11" (B1950)
 20^h29^m45.6^s 09°41'17" (J2000)
l: 53.52 *b*: -16.75

DATE: 1981/ 93 - 1981/ 93
 LIVETIME: 5609.9s
 ROLL ANGLE: -68.4°

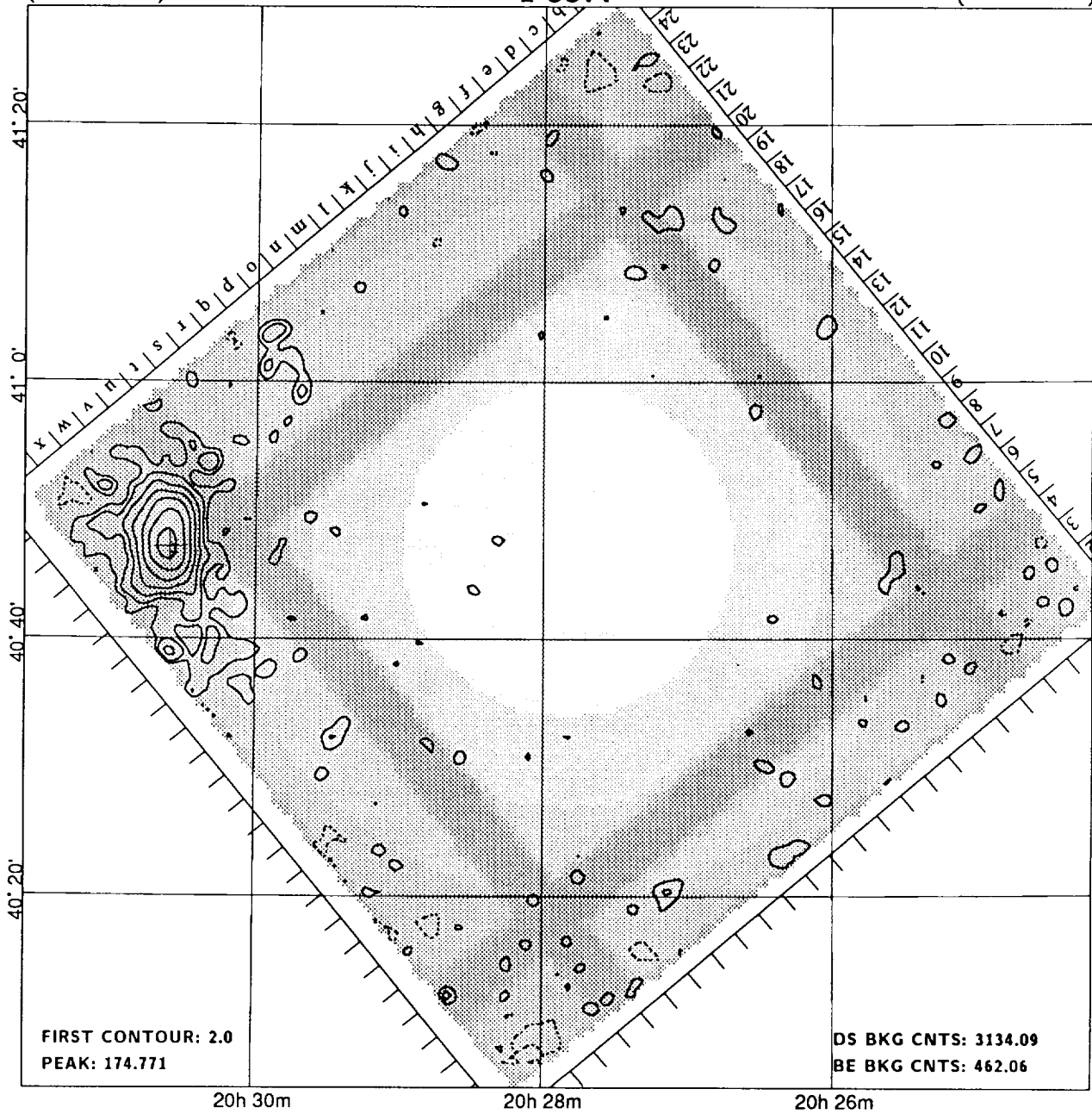
NH: 8.6E+20
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4369	1L	20 27 23.5	09 31 21	31	0.0379	0.0041	158.4	54.6	9.1	1.2	0	0.5	S
4370	2L	20 27 42.8	09 25 07	41	0.0101	0.0026	39.0	28.0	3.8	0.8	0	8.1	

(20h 27m)

I 3377

(20h 27m)



FIRST CONTOUR: 2.0
PEAK: 174.771

DS BKG CNTS: 3134.09
BE BKG CNTS: 462.06

CYG X-3 BORESIGHT A-2

FIELD CENTER: 20^h27^m54.3^s 40°47'05" (B1950)
20^h29^m42.0^s 40°57'11" (J2000)
l: 79.54 b: 1.11

DATE: 1978/351 - 1978/351
LIVETIME: 2539.6s
ROLL ANGLE: 140.2°

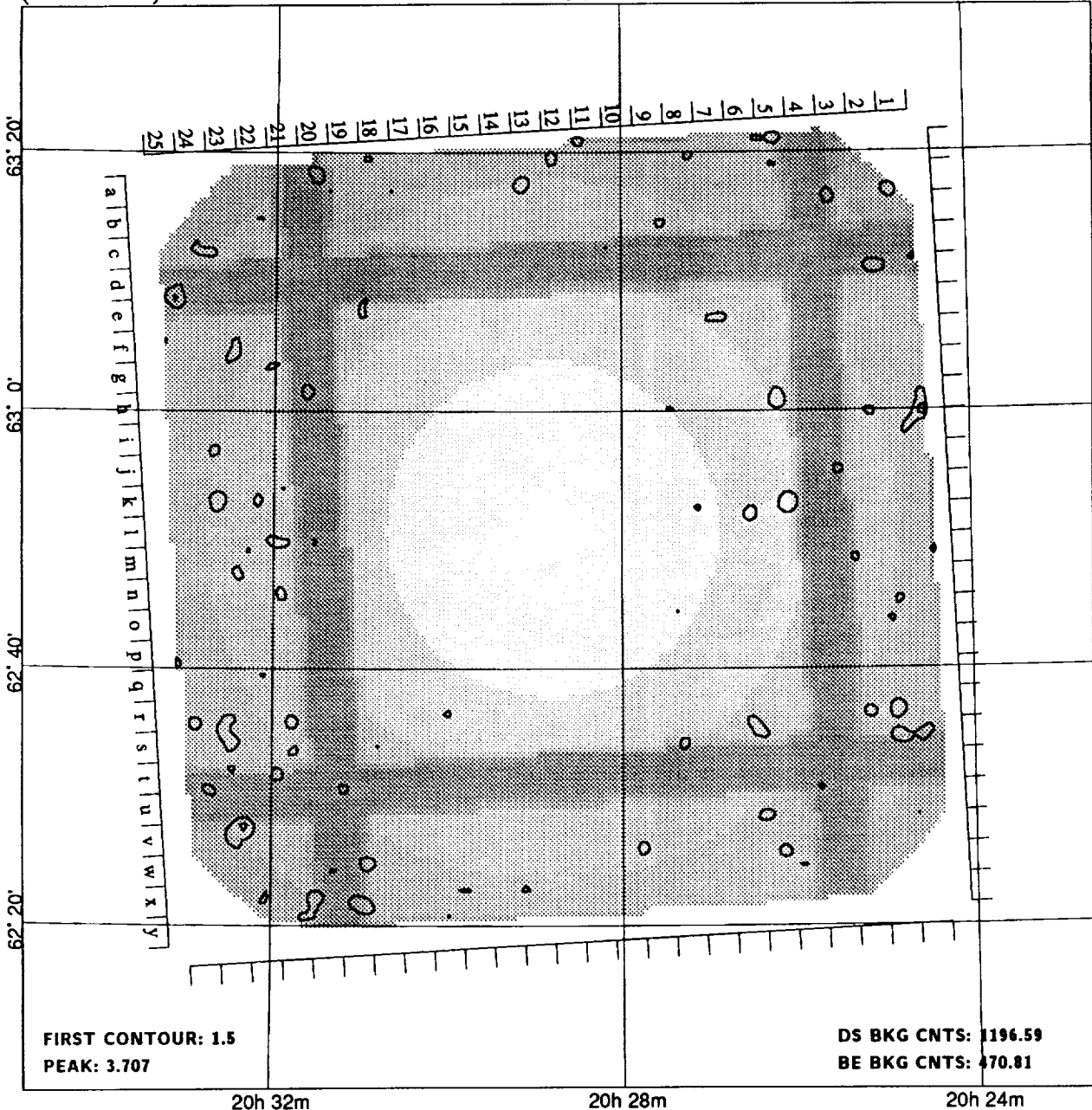
NH: 1.3E+22
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	ID
4376	1	20 30 35.6	40 47 06	47	*0.441	0.023	366.0	4.0	19.0	2.4	904	30.5	AH	

(20h 28m)

I 4898

(20h 28m)



STAR THETA CEP (HD 195725), AP STARSS

FIELD CENTER: $20^h 28^m 44.4^s$ $62^\circ 49' 33''$ (B1950)
 $20^h 29^m 34.3^s$ $62^\circ 59' 40''$ (J2000)
 $l: 97.76$ $b: 13.80$

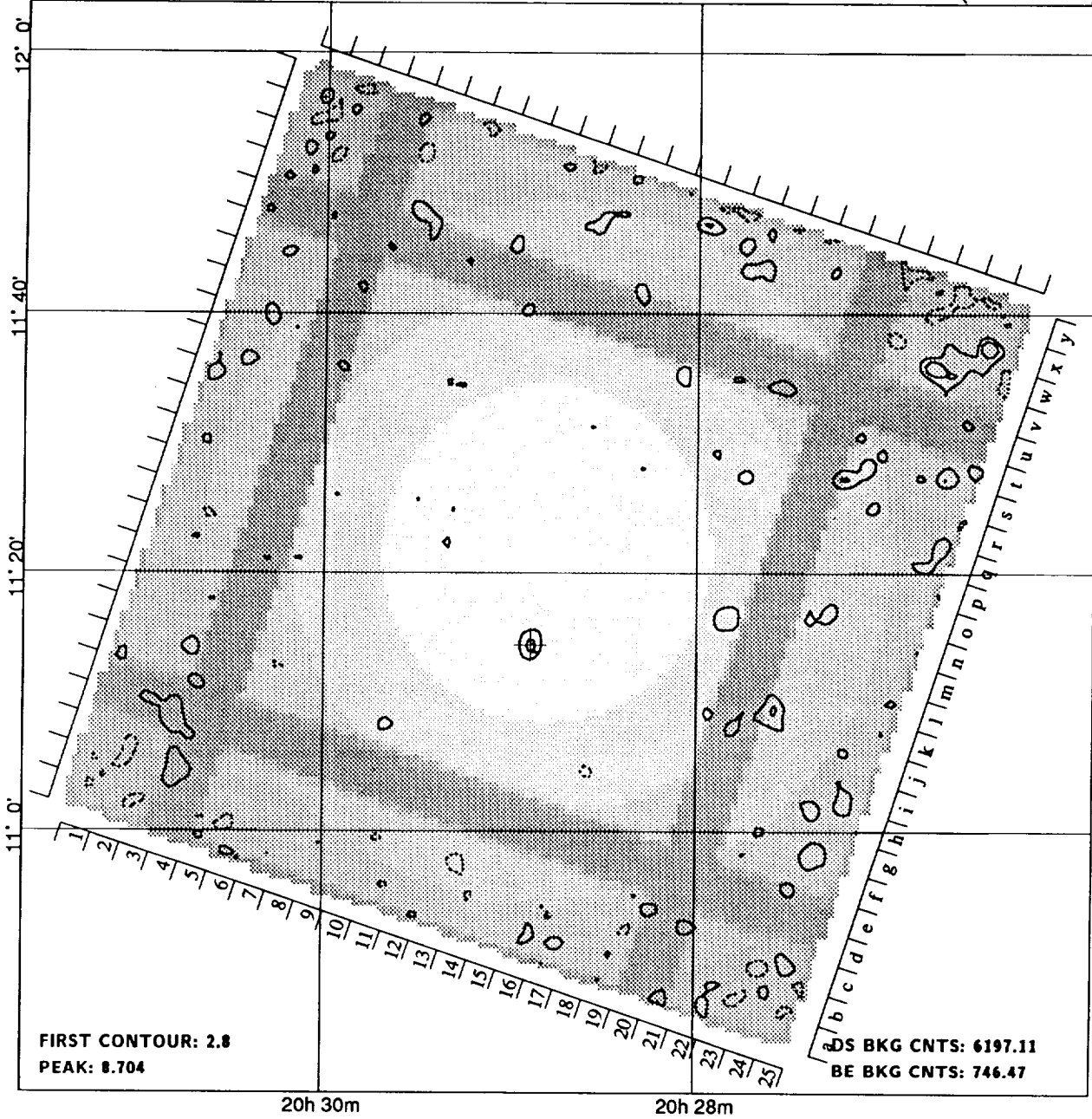
DATE: 1979/296 - 1979/296
 LIVETIME: 969.6s
 ROLL ANGLE: 86.8°

NH: $1.9E+21$
 REF/ID:
 FIELD FLAGS:

(20h 28m)

I 5976

(20h 28m)



Beta Lyrae Type Stars: RZ DRA

FIELD CENTER: $20^{\text{h}}28^{\text{m}}44.8^{\text{s}}$ $11^{\circ}21'45''$ (B1950)
 $20^{\text{h}}31^{\text{m}}07.8^{\text{s}}$ $11^{\circ}31'55''$ (J2000)
 $l: 55.33$ $b: -16.04$

DATE: 1980/129 - 1980/129
 LIVETIME: 5202.0s
 ROLL ANGLE: -71.8°

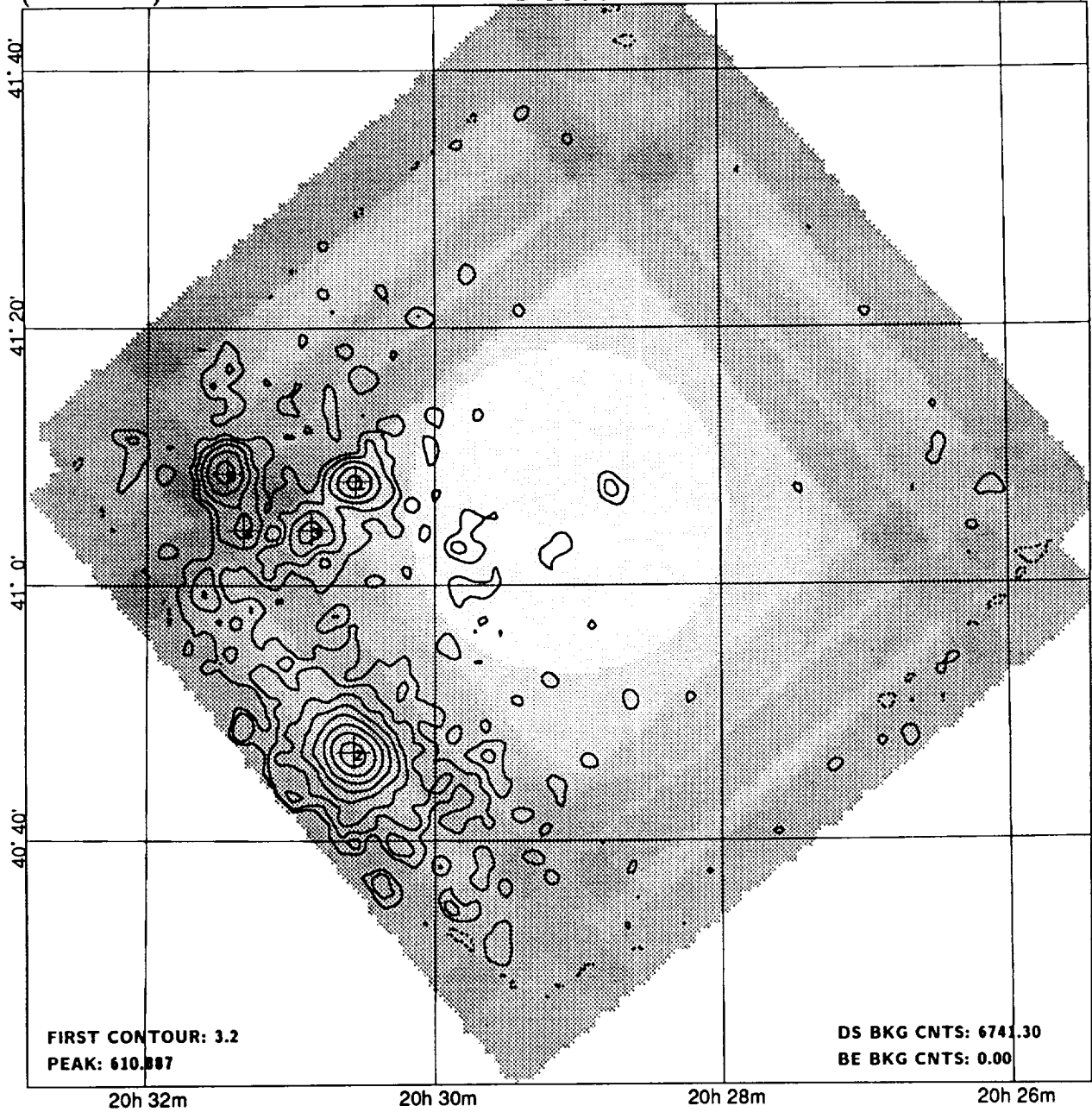
NH: $7.2\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4371	1	20 28 53.3	11 14 22	42	0.0065	0.0018	23.4	20.6	3.5	0.6	0	7.7	

(20h 29m)

I 3386

(20h 29m)



CYG X-3 BORESIGHT C-2

FIELD CENTER: 20^h29^m08.0^s 41°03'03" (B1950)
 20^h30^m55.5^s 41°13'13" (J2000)
l: 79.89 *b*: 1.08

DATE: 1978/350 - 1978/352
 LIVETIME: 5462.6s

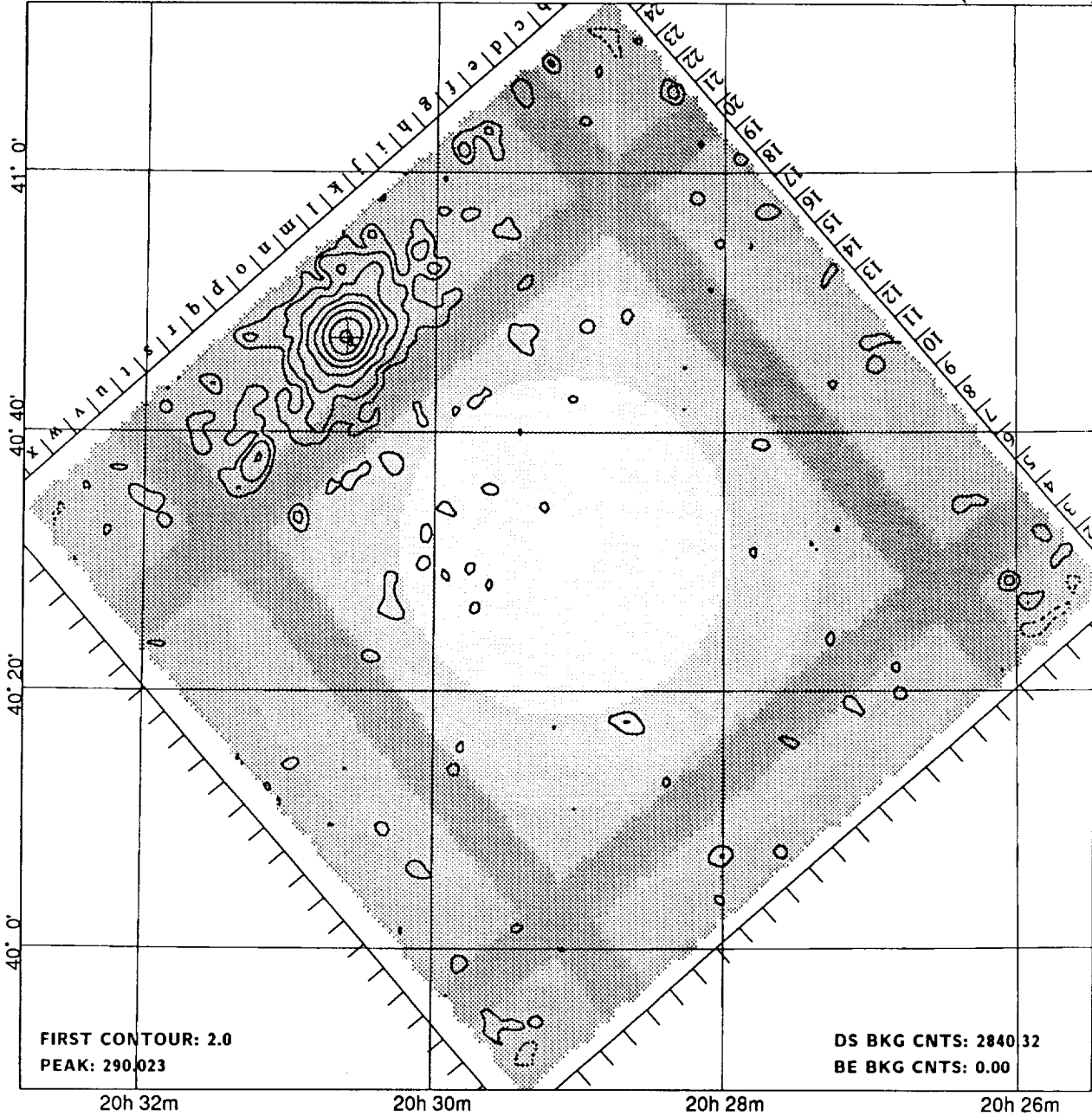
NH: 1.2E+22
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4375	1	20 30 33.1	41 08 04	47	0.0594	0.0046	184.9	18.1	13.0	29.4	300	17.0	AH	S
4376	2	20 30 33.9	40 47 00	47	0.673	0.017	1598.6	15.4	39.8	2.6	200	22.8	AH	S
4378	3	20 30 51.7	41 04 18	48	*0.0357	0.0039	100.4	17.6	9.2	46.1	1309	19.7	AH	S
4381	4	20 31 19.8	41 04 19	51	*0.0159	0.0029	37.1	9.9	5.4	94.6	1609	25.0	A	S
4382	5	20 31 26.7	41 08 43	48	*0.0723	0.0059	159.8	9.2	12.3	24.3	1609	26.9	A	S

(20h 29m)

I 3388

(20h 29m)



CYG X-3 BORESIGHT C-3

FIELD CENTER: 20^h29^m08.7^s 40°31'08" (B1950)
 20^h30^m57.0^s 40°41'18" (J2000)
 l : 79.46 b : 0.77

DATE: 1978/350 - 1978/350
 LIVETIME: 2301.6s
 ROLL ANGLE: 139.0°

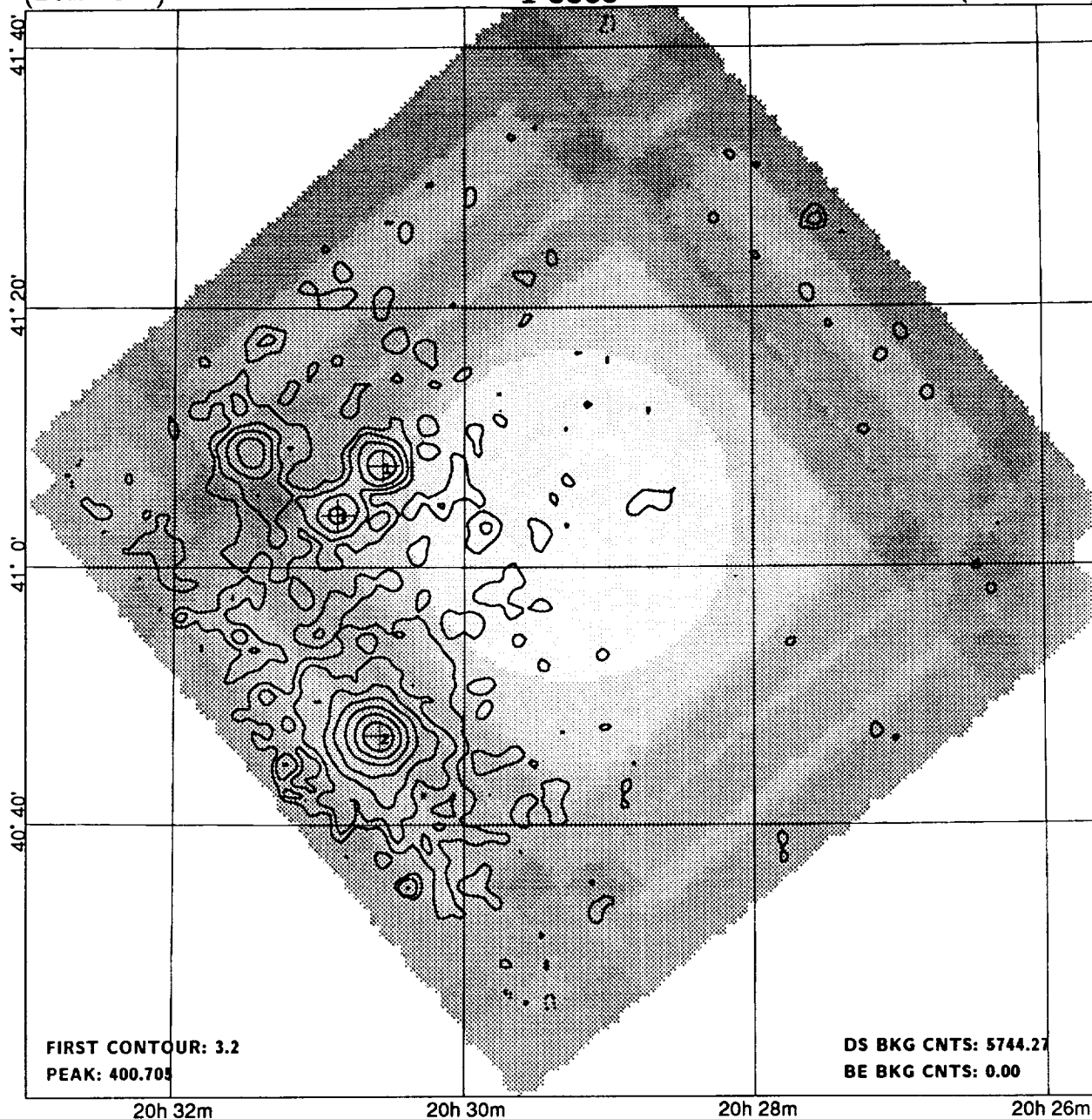
NH: 1.3E+22
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT ± RATE	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4376	1L	20 30 36.9	40 47 13	47	0.599 0.031	623.9	161.1	19.1	1.9	0	23.2	A

(20h 29m)

I 3385

(20h 29m)



CYG X-3 BORESIGHT C-2

FIELD CENTER: $20^h 29^m 18.6^s$ $41^\circ 01' 04''$ (B1950)
 $20^h 31^m 06.2^s$ $41^\circ 11' 15''$ (J2000)
 $l: 79.88$ $b: 1.04$

DATE: 1978/350 - 1978/351
 LIVETIME: 4654.7s

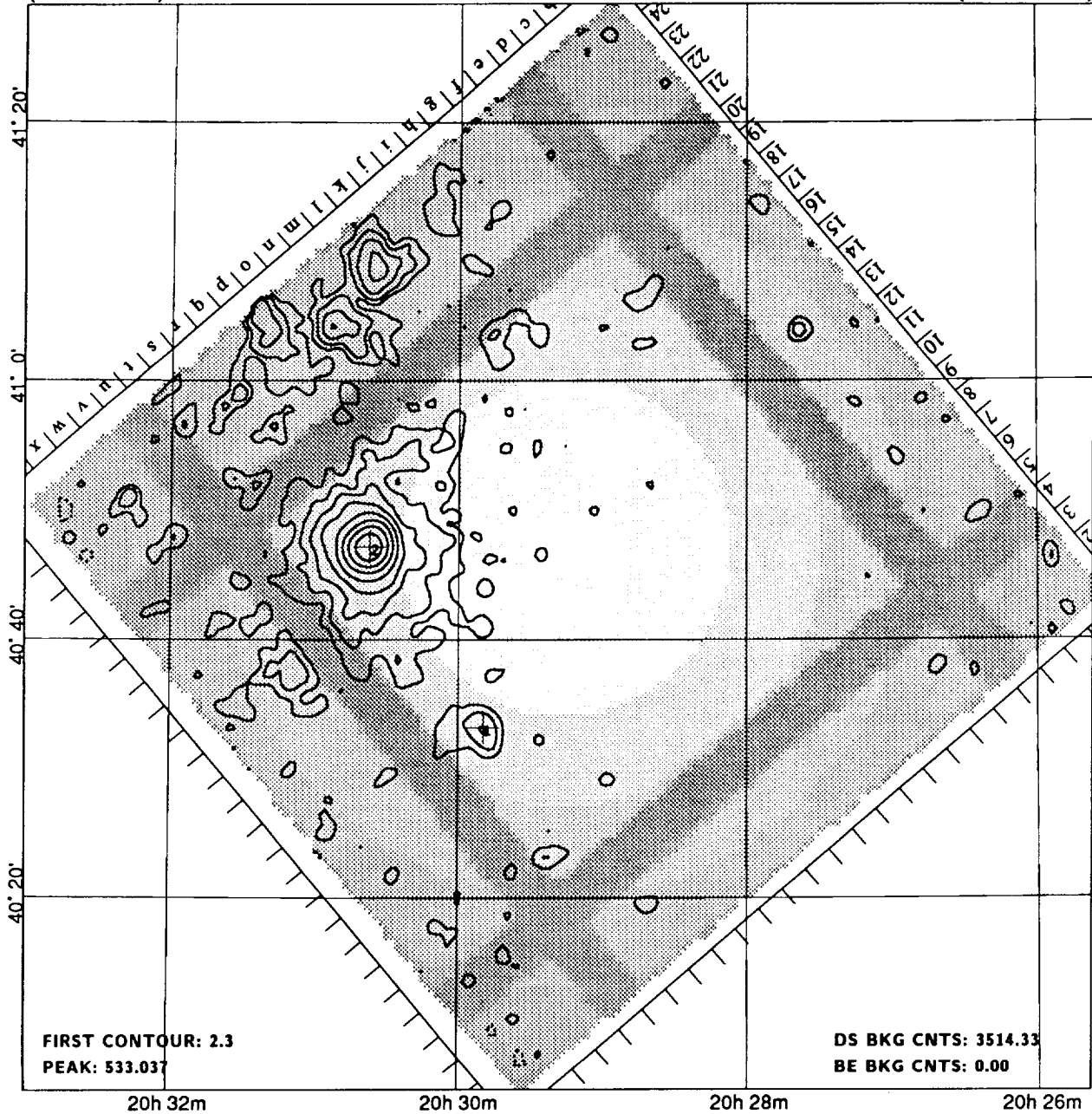
NH: $1.2E+22$
 REF/ID:
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4375	1L	20 30 33.8	41 07 53	48	0.0504	0.0056	140.1	35.9	8.8	5.6	300	15.7	A	S
4376	2L	20 30 34.9	40 46 57	47	*0.175	0.039	389.0	286.0	4.4	2.2	1008	20.2	A	
4378	3L	20 30 52.5	41 04 01	48	0.0269	0.0050	68.5	42.5	5.2	7.7	200	18.0	A	S

(20h 29m)

I 3382

(20h 29m)



CYG X-3 BORESIGHT B-2

FIELD CENTER: $20^{\text{h}}29^{\text{m}}18.8^{\text{s}}$ $40^{\circ}47'05''$ (B1950)
 $20^{\text{h}}31^{\text{m}}06.7^{\text{s}}$ $40^{\circ}57'16''$ (J2000)
 $l: 79.70$ $b: 0.90$

DATE: 1978/351 - 1978/351
 LIVETIME: 2847.8s
 ROLL ANGLE: 139.7°

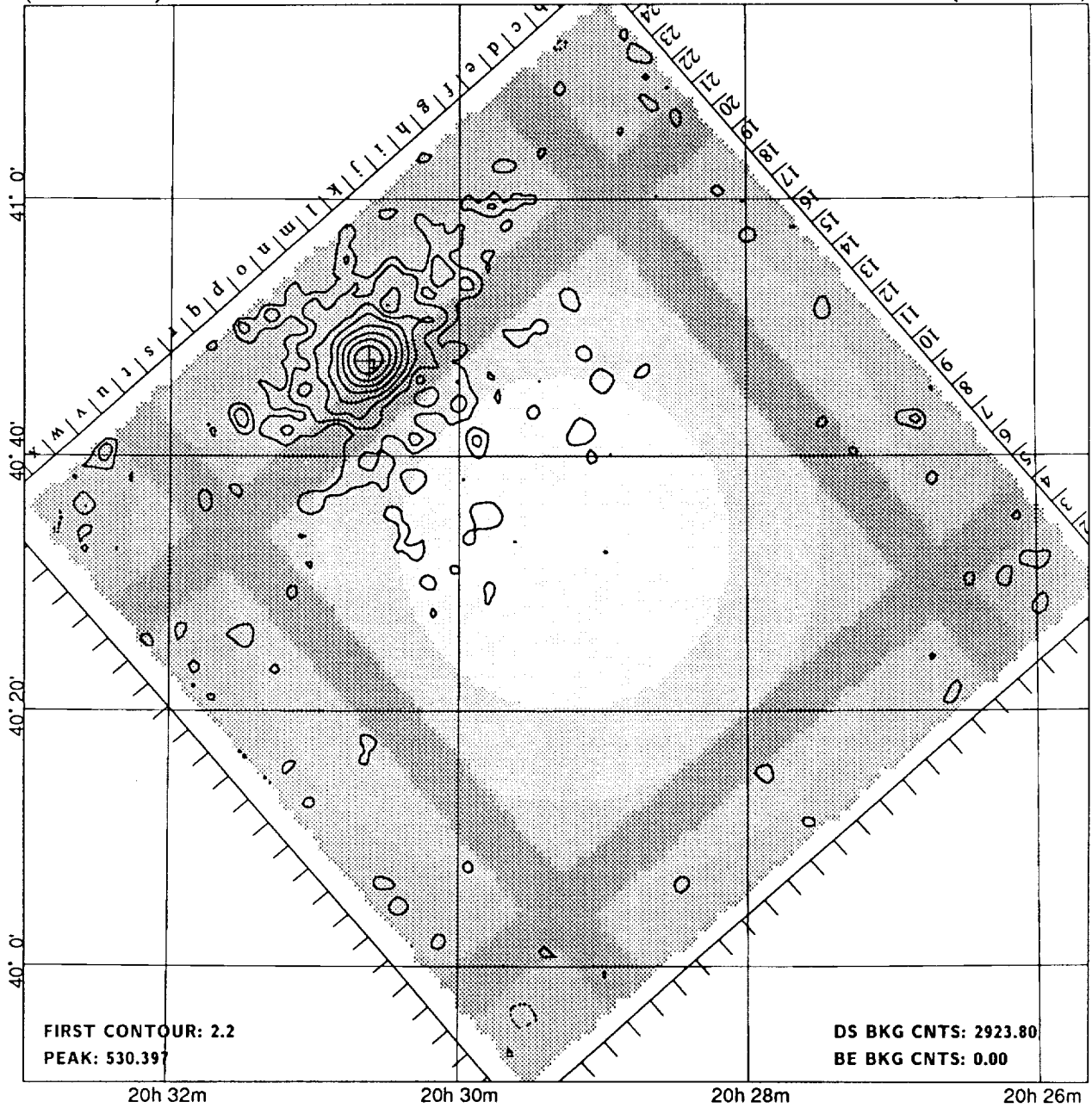
NH: $1.3\text{E}+22$
 REF/ID:
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4372	1L	20 29 49.4	40 33 11	51	0.0170	0.0046	28.4	13.6	3.5	1.6	0	15.0	
4376	2L	20 30 37.1	40 47 09	37	0.942	0.029	1565.7	225.3	32.4	1.7	0	14.8	A

(20h 29m)

I 3387

(20h 29m)



CYG X-3 BORESIGHT C-3

FIELD CENTER: $20^{\text{h}}29^{\text{m}}19.1^{\text{s}}$ $40^{\circ}33'07''$ (B1950)
 $20^{\text{h}}31^{\text{m}}07.4^{\text{s}}$ $40^{\circ}43'17''$ (J2000)
 $l: 79.51$ $b: 0.76$

DATE: 1978/350 - 1978/350
 LIVETIME: 2369.2s
 ROLL ANGLE: 138.9°

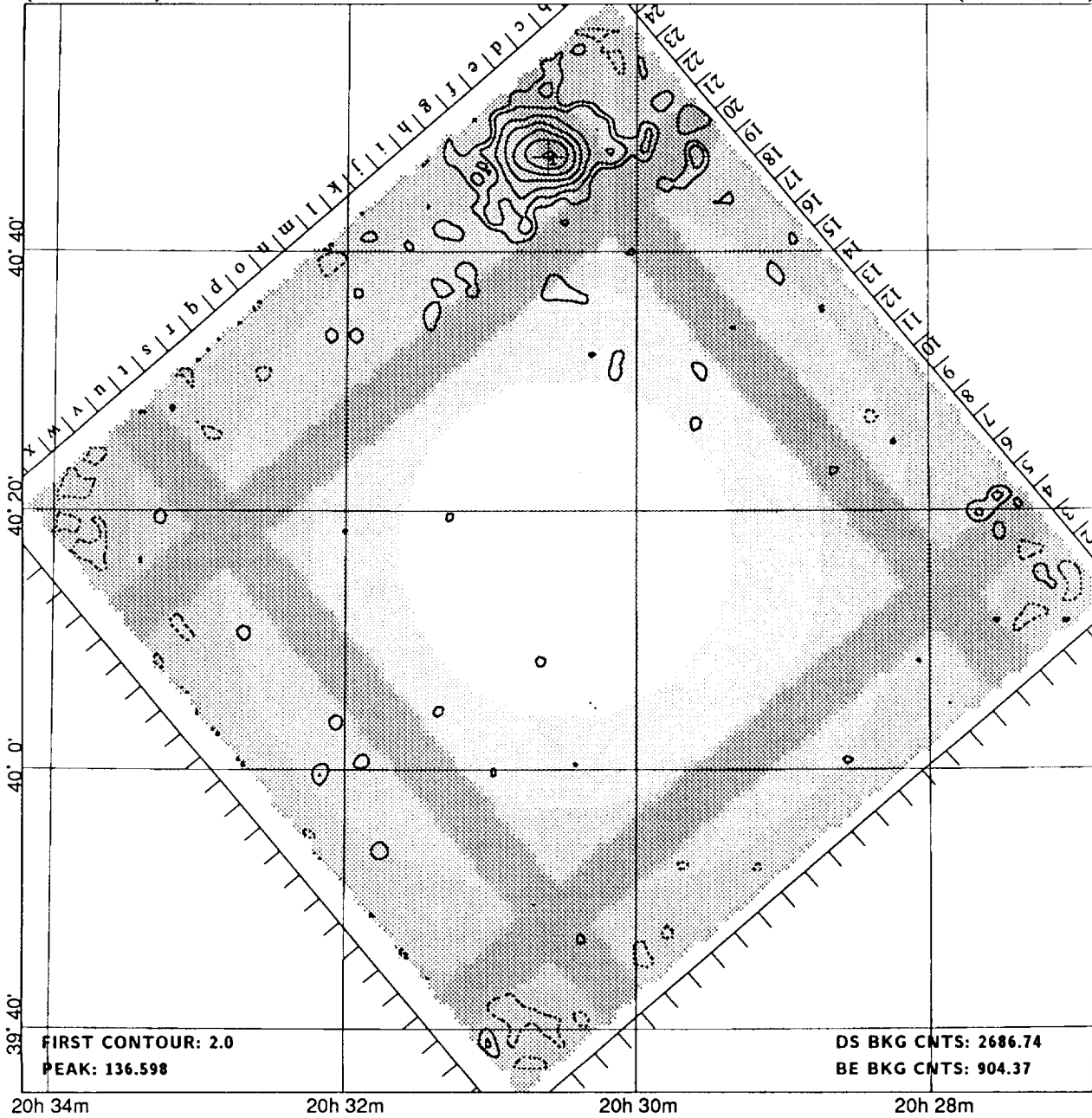
NH: $1.3\text{E}+22$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4376	1L	20 30 37.7	40 47 23	47	*1.133	0.042	1322.8	241.0	26.9	1.7	501	20.6	A

(20h 30m)

I 3376

(20h 30m)



CYG X-3 BORESIGHT A-2

FIELD CENTER: $20^h 30^m 32.6^s$ $40^\circ 17' 05''$ (B1950)
 $20^h 32^m 21.6^s$ $40^\circ 27' 20''$ (J2000)
 $l: 79.43$ $b: 0.41$

DATE: 1978/351 - 1978/351
 LIVETIME: 2177.1s
 ROLL ANGLE: 139.6°

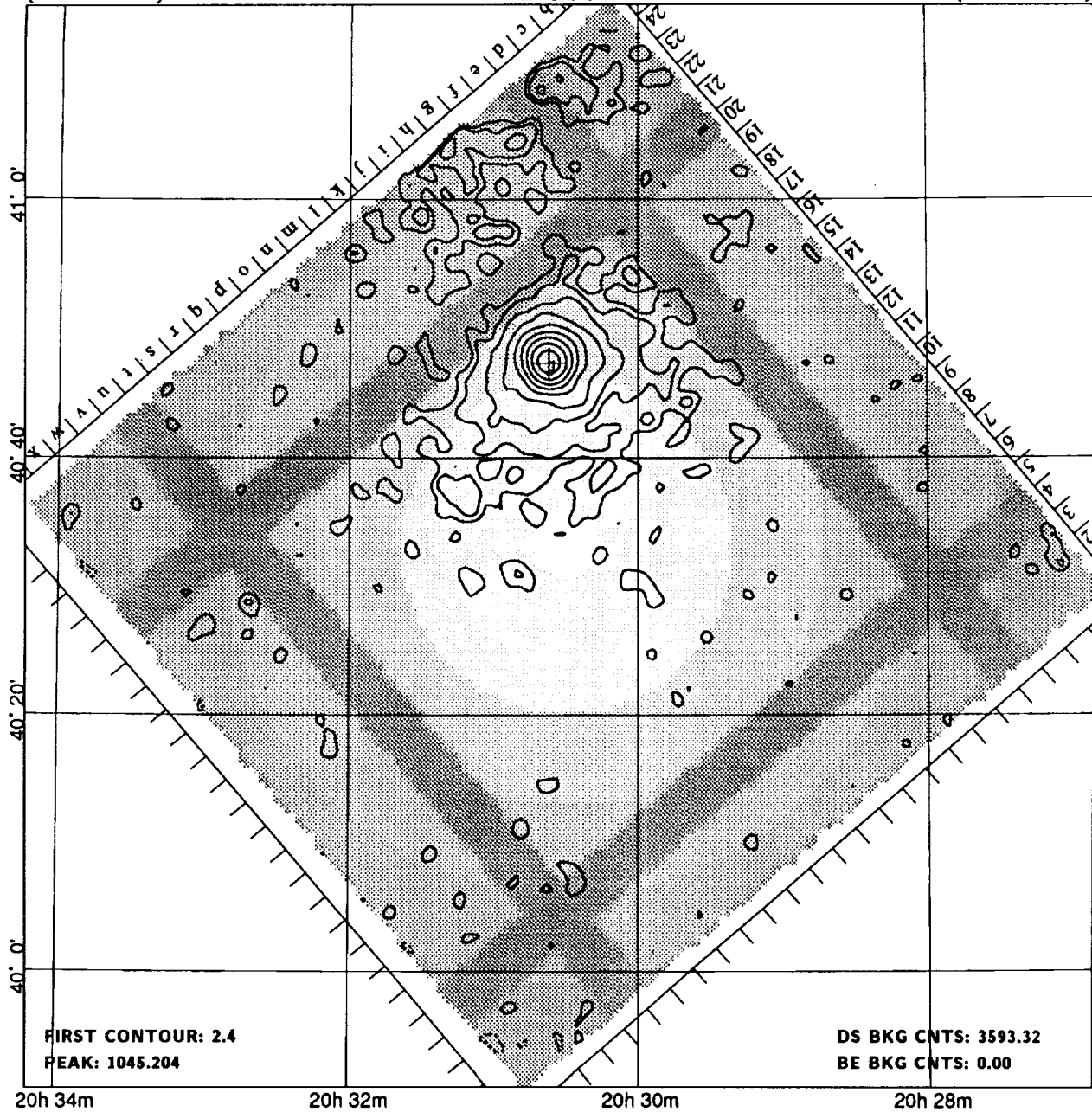
NH: $1.4E+22$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4376	1	20 30 36.8	40 47 18	47	*0.376	0.023	283.0	4.0	16.7	2.1	906	30.3	AH

(20h 30m)

I 3381

(20h 30m)



CYG X-3 BORESIGHT B-2

FIELD CENTER: $20^h 30^m 32.6^s$ $40^\circ 33' 07''$ (B1950)
 $20^h 32^m 21.2^s$ $40^\circ 43' 22''$ (J2000)
 $l: 79.65$ $b: 0.57$

DATE: 1978/351 - 1978/351
 LIVETIME: 2911.8s
 ROLL ANGLE: 139.4°

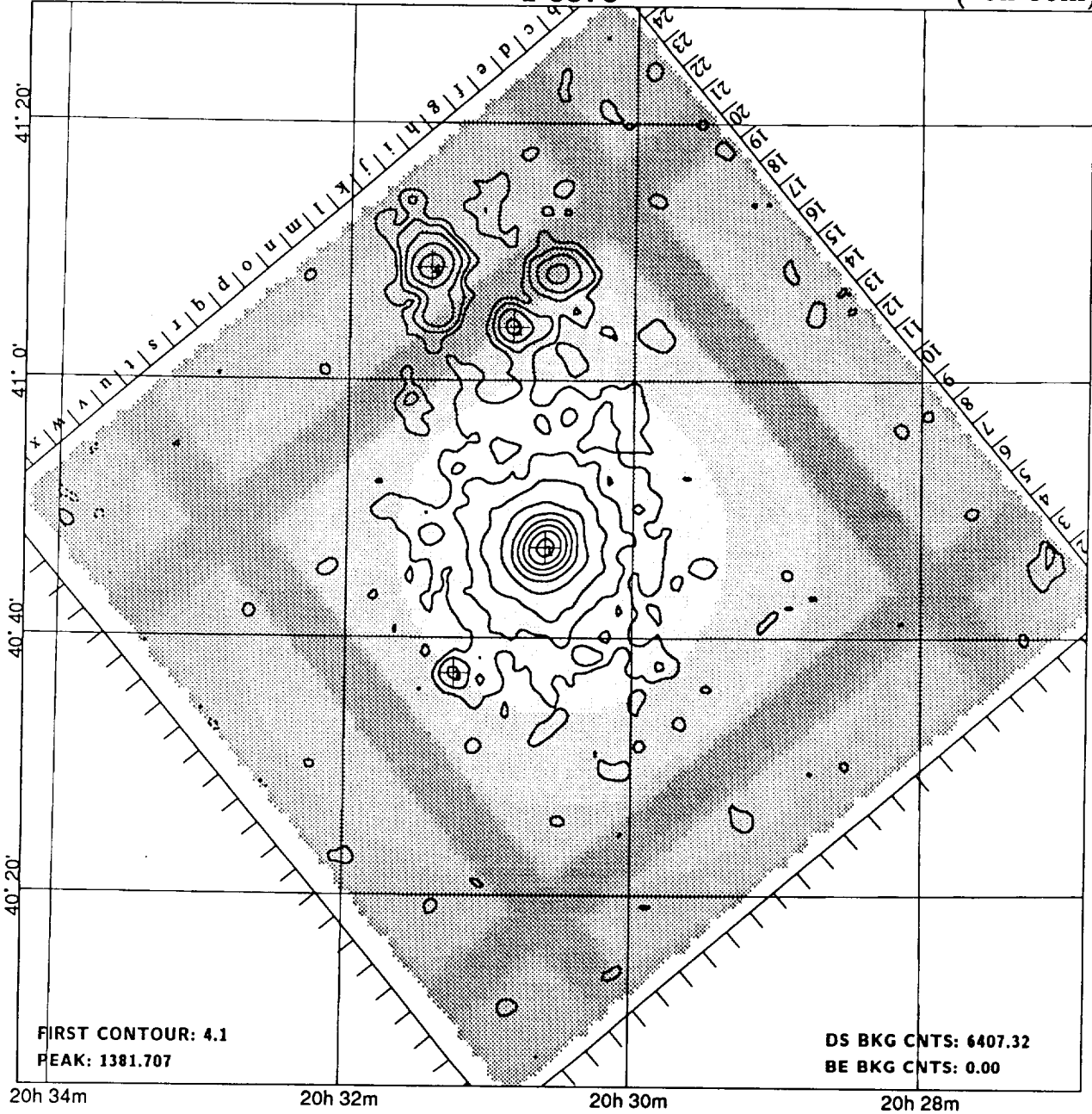
NH: $1.3E+22$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4376	1L	20 30 37.2	40 47 19	37	1.714	0.037	3009.9	315.1	46.1	1.6	0	14.2	A	

(20h 30m)

I 3378

(20h 30m)



CYG X-3 BORESIGHT B-3

FIELD CENTER: $20^h 30^m 32.6^s$ $40^\circ 47' 05''$ (B1950)
 $20^h 32^m 20.8^s$ $40^\circ 57' 20''$ (J2000)
 $l: 79.83$ $b: 0.71$

DATE: 1978/350 - 1978/352
 LIVETIME: 5192.0s
 ROLL ANGLE: 140.0°

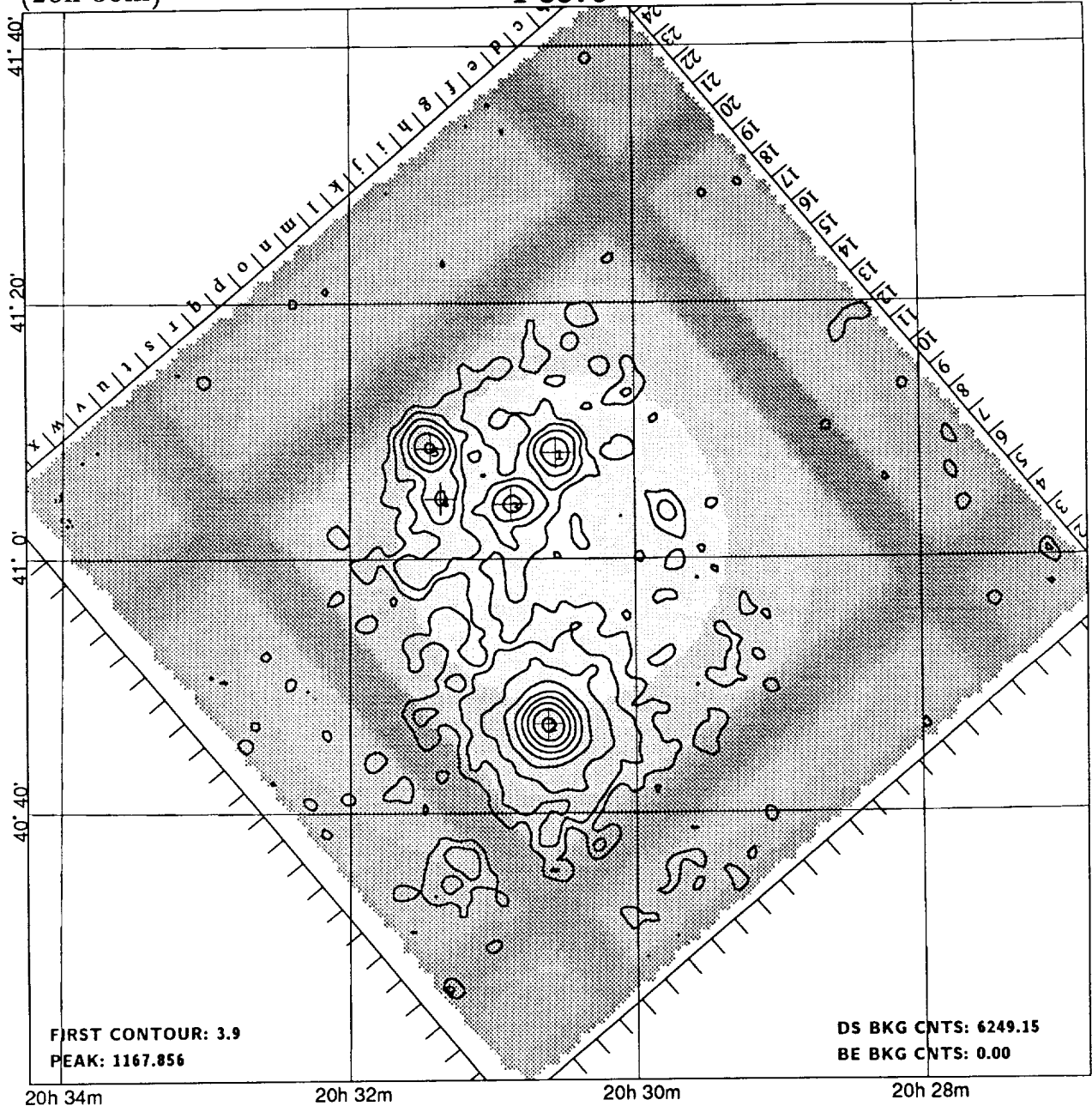
NH: $1.3E+22$
 REF/ID: S
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE ±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4376	1L	20 30 36.8	40 47 05	31	1.333 0.022	5134.7	508.3	60.5	1.9	0	0.8	A	
4378	2L	20 30 51.1	41 04 11	48	*0.0364 0.0060	104.1	33.9	5.8	62.6	803	17.4	A	S
4379	3L	20 31 14.5	40 37 16	41	0.0150 0.0032	48.7	27.3	4.5	138.8	0	12.6	A	
4382	4L	20 31 25.9	41 08 47	47	0.0788 0.0085	181.7	88.3	9.2	2.1	0	23.9	A	S

(20h 30m)

I 3379

(20h 30m)



CYG X-3 BORESIGHT B-1

FIELD CENTER: $20^h 30^m 32.6^s$ $41^\circ 01' 04''$ (B1950)
 $20^h 32^m 20.4^s$ $41^\circ 11' 19''$ (J2000)
 $l: 80.02$ $b: 0.85$

DATE: 1978/350 - 1978/352
 LIVETIME: 5063.8s
 ROLL ANGLE: 139.9°

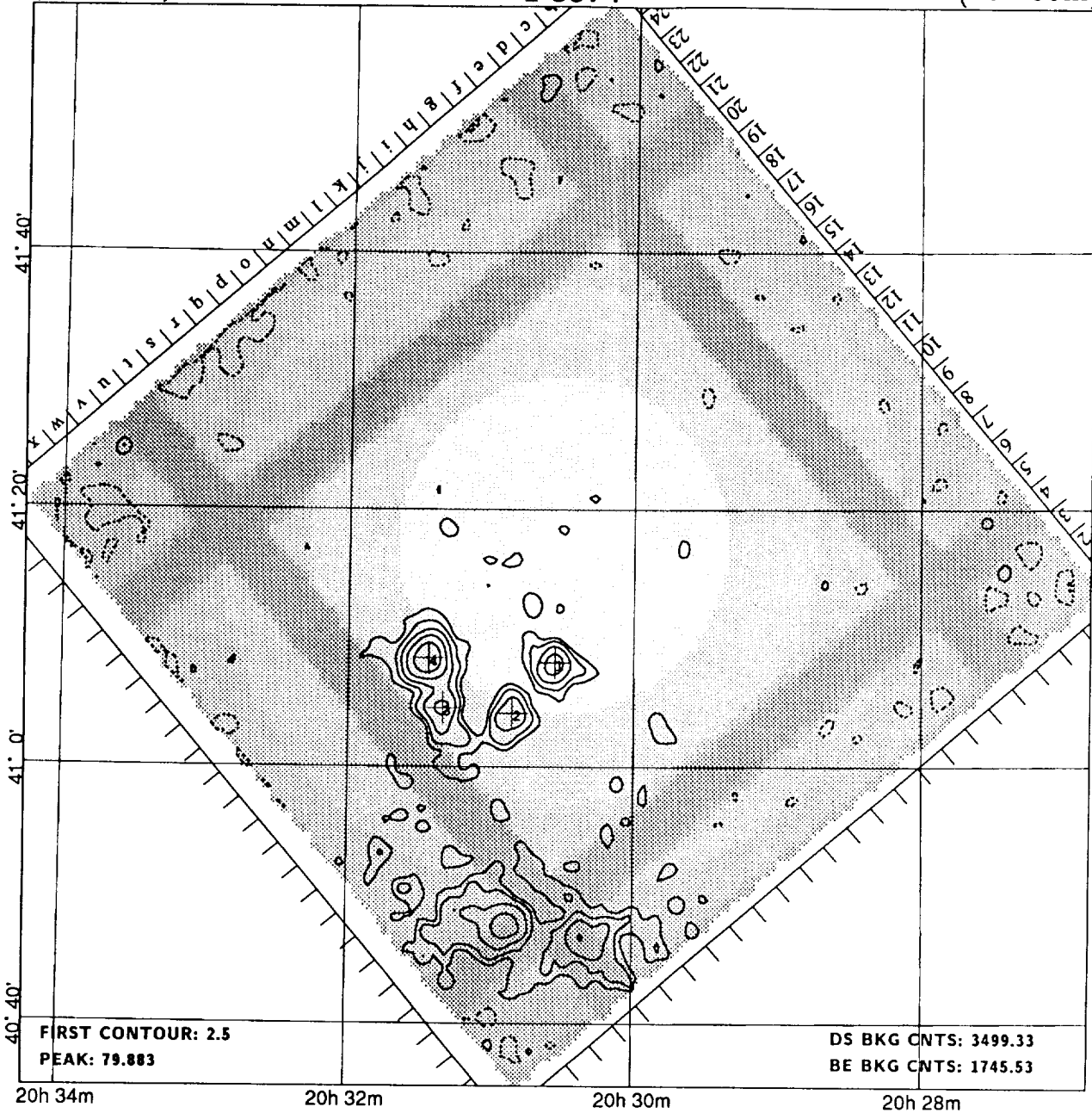
NH: $1.2E+22$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4375	1L	20 30 33.3	41 08 13	38	0.0525	0.0052	186.1	60.9	10.0	42.0	0	7.1	A S	
4376	2L	20 30 36.8	40 47 01	37	1.173	0.023	3572.3	408.7	49.9	2.2	0	14.1	A	
4378	3L	20 30 52.2	41 04 14	31	0.0350	0.0044	126.8	55.2	7.8	59.3	0	4.8	A S	
4381	4L	20 31 21.9	41 04 39	38	0.0242	0.0045	81.3	72.7	5.2	62.2	0	10.0	A S	
4382	5L	20 31 26.1	41 08 33	37	0.1218	0.0079	388.6	91.4	15.2	18.6	0	12.6	A S	

(20h 30m)

I 3374

(20h 30m)



CYG X-3 BORESIGHT A-1

FIELD CENTER: $20^h 30^m 32.6^s$ $41^\circ 17' 05''$ (B1950)
 $20^h 32^m 20.0^s$ $41^\circ 27' 20''$ (J2000)
 $l: 80.24$ $b: 1.01$

DATE: 1978/351 - 1978/351
 LIVETIME: 2835.6s
 ROLL ANGLE: 139.6°

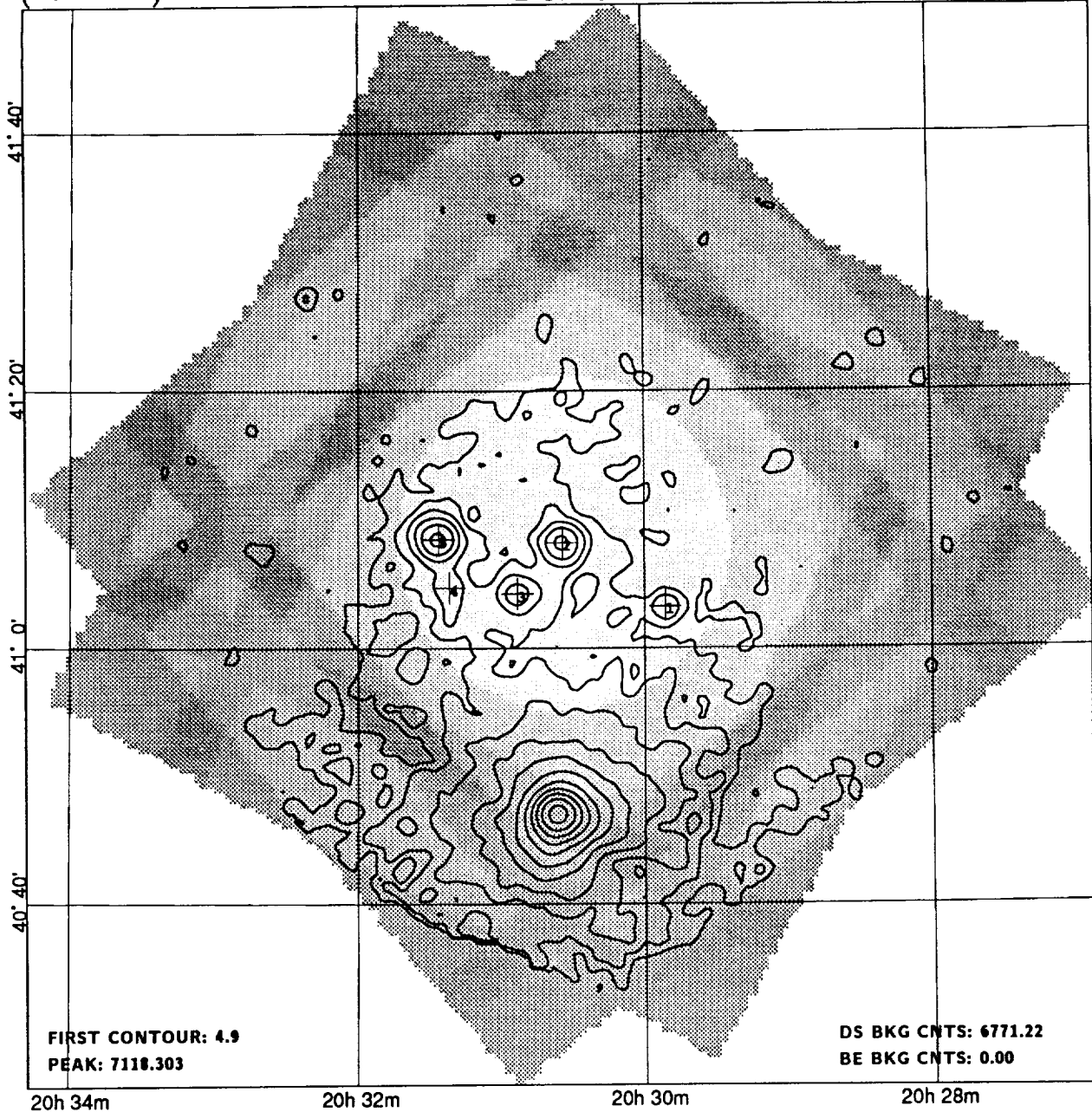
NH: $1.2E+22$
 REF/ID:
 FIELD FLAGS: DS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4375	1	20 30 33.2	41 08 05	38	0.0509	0.0055	97.4	11.6	9.3	1.3	0	8.9	AH	S
4378	2	20 30 51.0	41 04 08	41	0.0401	0.0052	69.6	11.4	7.7	8.6	0	13.4	A	S
4381	3	20 31 20.2	41 04 31	48	0.0442	0.0056	72.5	11.5	7.9	7.3	200	15.3	AH	S
4382	4	20 31 26.2	41 08 26	38	0.1536	0.0096	265.7	11.3	16.0	2.2	0	13.4	AH	S

(20h 30m)

I 5219

(20h 30m)



STAR +40D 4220,X-RAYS FROM BINARY O STARS

FIELD CENTER: 20^h30^m35.8^s 41°07'58" (B1950)
 20^h32^m23.4^s 41°18'13" (J2000)
 $l: 80.12$ $b: 0.91$

DATE: 1979/326 - 1979/352
 LIVETIME: 5486.8s

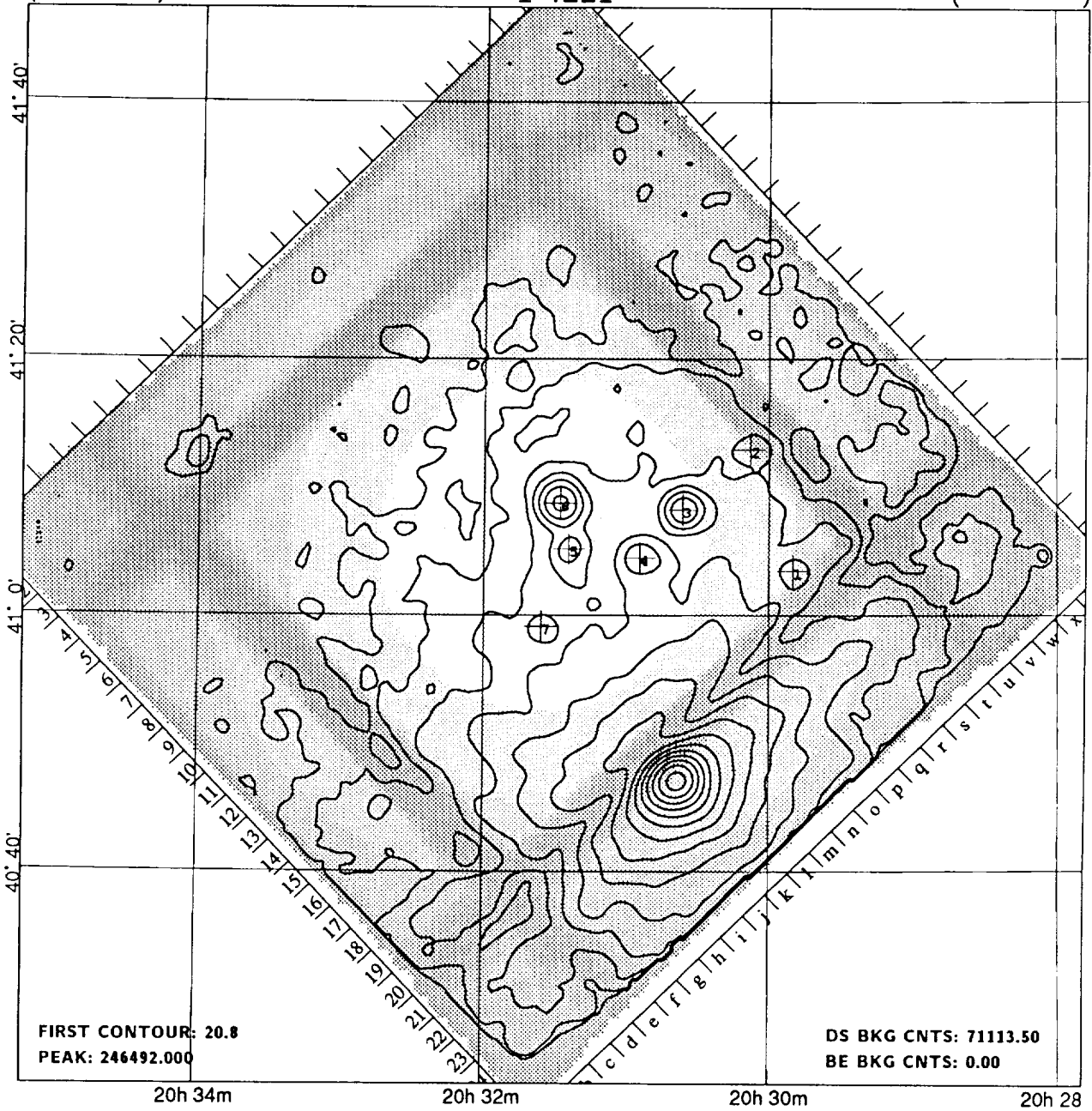
NH: 1.2E+22
 REF/ID:
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4373	1L	20 29 51.3	41 03 12	42	0.0144	0.0028	52.9	23.1	5.0	781.5	0	9.4	A
4375	2L	20 30 34.4	41 08 08	31	0.0764	0.0056	312.9	79.0	13.5	140.2	0	0.2	A S
4378	3L	20 30 53.3	41 04 09	38	0.0409	0.0047	159.2	79.8	8.5	213.2	0	5.0	A S
4381	4L	20 31 21.8	41 04 38	38	0.0237	0.0042	86.8	71.2	5.6	318.0	0	9.3	A S
4382	5L	20 31 26.4	41 08 23	37	0.1570	0.0082	574.4	109.6	19.0	69.6	0	9.5	A S

(20h 31m)

I 4221

(20h 31m)



CYG OB ASSOCIATION FOLLOW-UP

FIELD CENTER: $20^h 31^m 30.8^s$ $41^\circ 05' 23''$ (B1950)
 $20^h 33^m 18.6^s$ $41^\circ 15' 42''$ (J2000)
 $l: 80.19$ $b: 0.75$

DATE: 1980/161 - 1980/166
 LIVETIME: 57707.9s
 ROLL ANGLE: -43.9°

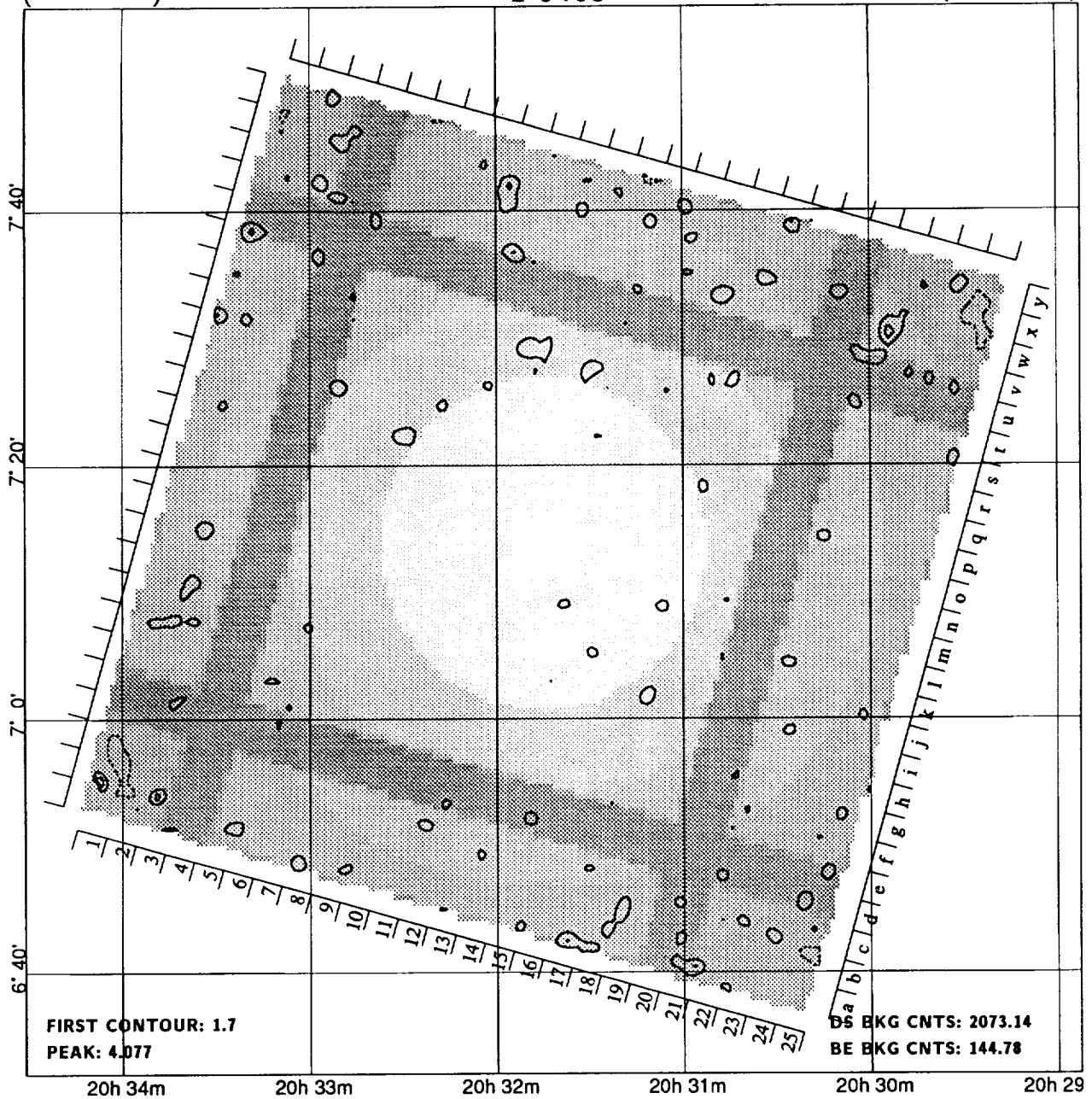
NH: $1.2E+22$
 REF/ID:
 FIELD FLAGS: DLST

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4373	1L	20 29 49.9	41 03 26	47	*0.0128	0.0014	378.3	530.7	8.8	1347.0	501	19.1	A
4374	2L	20 30 07.8	41 12 55	48	*0.0072	0.0015	224.2	410.3	4.8	2536.6	705	17.4	
4375	3L	20 30 36.2	41 08 17	37	0.1018	0.0021	3803.8	722.2	49.2	324.8	0	10.7	A S
4378	4L	20 30 54.3	41 04 29	37	0.0429	0.0016	1705.2	1086.8	26.7	563.2	0	6.9	A S
4381	5L	20 31 24.2	41 05 11	31	0.0322	0.0014	1367.6	940.4	23.4	740.8	0	1.2	A S
4382	6L	20 31 27.8	41 08 49	31	0.1411	0.0023	5909.4	1026.6	61.9	245.3	0	3.5	A S
4384	7L	20 31 35.8	40 59 07	37	0.0103	0.0011	416.1	800.9	9.3	1396.1	0	6.4	S

(20h 31m)

I 6463

(20h 31m)



NGC 6934, GLOBULAR CLUSTER SURVEY

FIELD CENTER: $20^{\text{h}}31^{\text{m}}41.8^{\text{s}}$ $07^{\circ}13'59''$ (B1950)
 $20^{\text{h}}34^{\text{m}}08.8^{\text{s}}$ $07^{\circ}24'20''$ (J2000)
 $l: 52.10$ $b: -18.88$

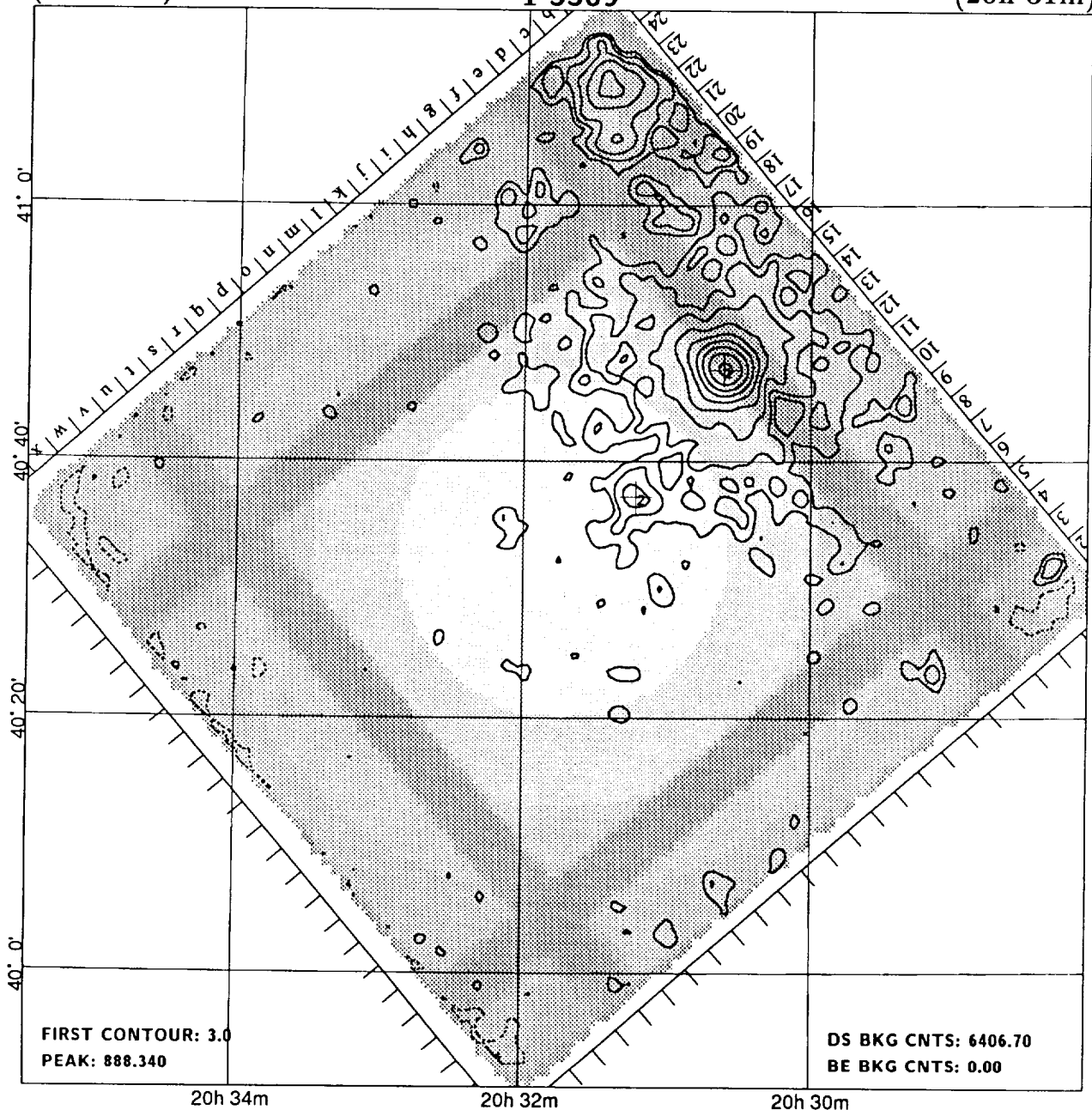
DATE: 1980/123 - 1980/123
 LIVETIME: 1740.2s
 ROLL ANGLE: -74.4°

NH: $7.7\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(20h 31m)

I 3389

(20h 31m)



CYG X-3 BORESIGHT C-4

FIELD CENTER: $20^{\text{h}}31^{\text{m}}46.2^{\text{s}}$ $40^{\circ}33'07''$ (B1950)
 $20^{\text{h}}33^{\text{m}}34.9^{\text{s}}$ $40^{\circ}43'26''$ (J2000)
 $l: 79.79$ $b: 0.39$

DATE: 1978/350 - 1978/352
 LIVETIME: 5191.5s
 ROLL ANGLE: 139.4°

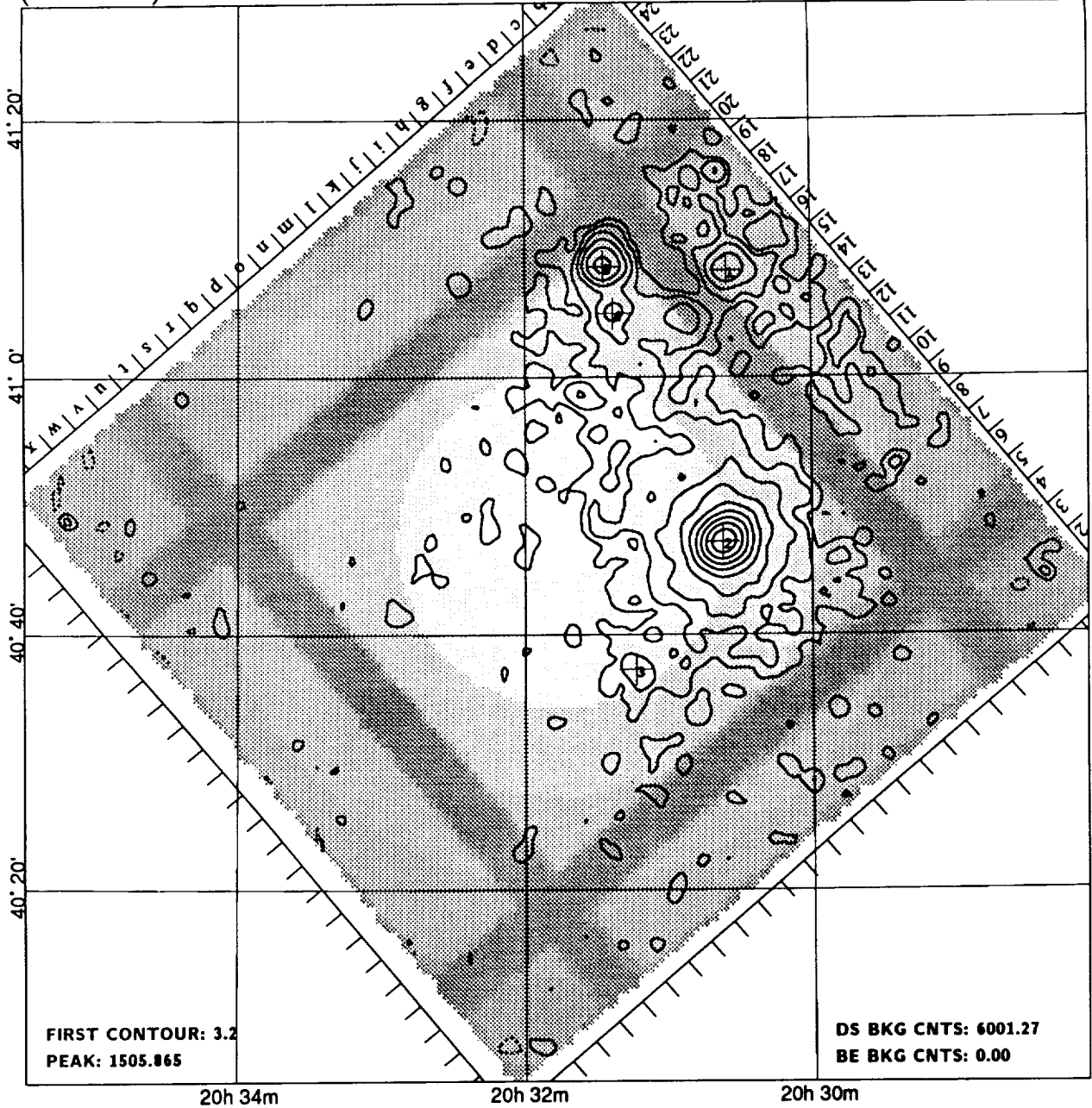
NH: $1.2\text{E}+22$
 REF/ID:
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	FLG
4376	1L	20 30 36.4	40 47 05	47	*0.743	0.036	2042.2	402.8	20.8	2.0	1006	19.2	A	A
4379	2L	20 31 12.9	40 37 11	41	0.0128	0.0032	46.5	41.5	3.9	94.3	0	7.5	A	A

(20h 31m)

I 3380

(20h 31m)



CYG X-3 BORESIGHT B-1

FIELD CENTER: $20^{\text{h}}31^{\text{m}}46.7^{\text{s}}$ $40^{\circ}47'05''$ (B1950)
 $20^{\text{h}}33^{\text{m}}35.0^{\text{s}}$ $40^{\circ}57'25''$ (J2000)
 $l: 79.97$ $b: 0.52$

DATE: 1978/351 - 1978/352
 LIVETIME: 4863.0s
 ROLL ANGLE: 139.6°

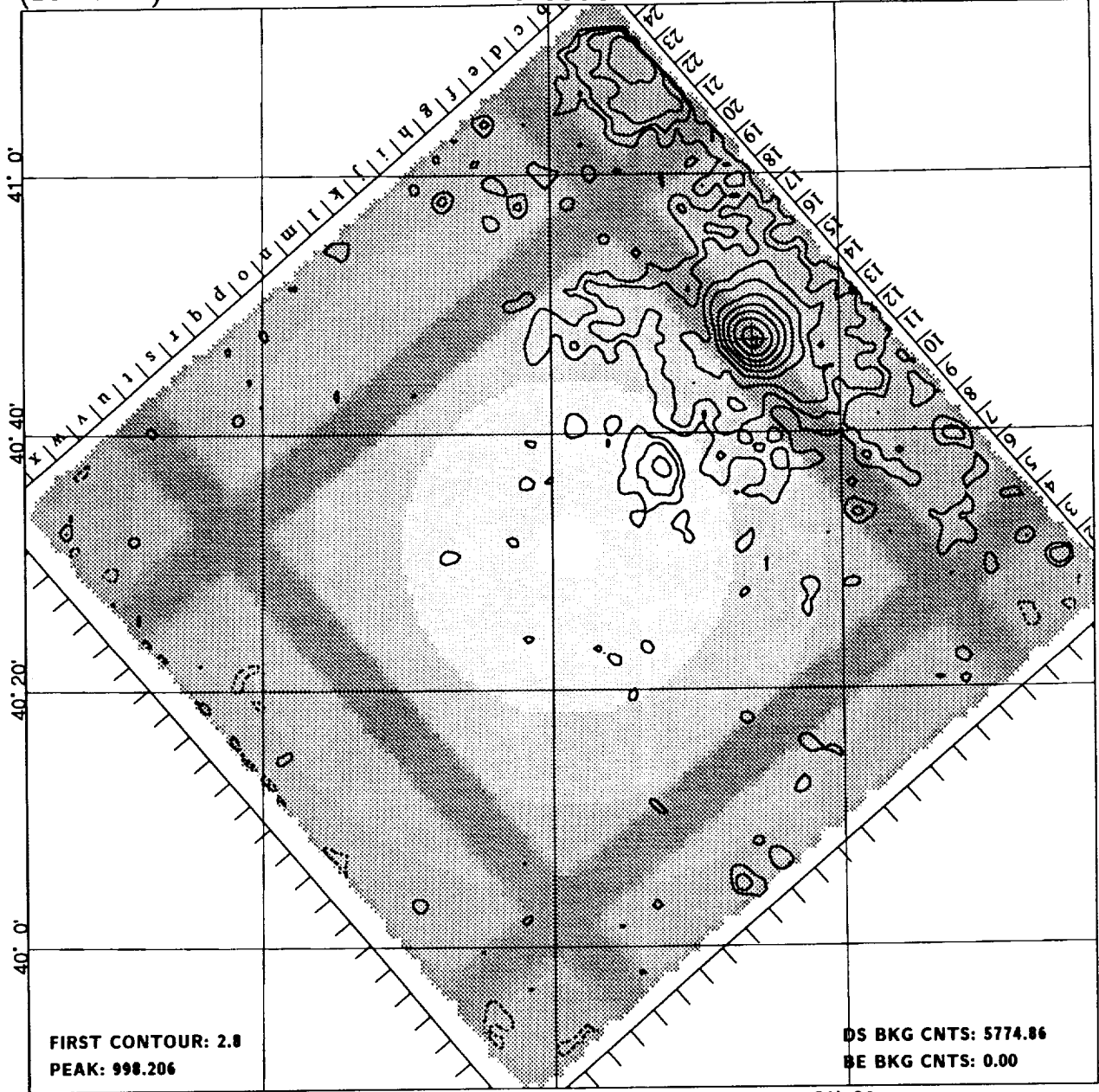
NH: $1.2\text{E}+22$
 REF/ID:
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4375	1L	20 30 35.3	41 08 19	48	*0.0404	0.0070	85.6	46.0	5.6	58.0	501	25.1	A S	
4376	2L	20 30 37.2	40 47 12	37	1.474	0.026	4508.3	421.7	56.9	2.1	0	13.2	A	
4379	3L	20 31 13.7	40 37 14	42	0.0116	0.0030	36.6	25.4	3.7	213.0	0	11.7	A	
4381	4L	20 31 23.0	41 04 56	48	0.0264	0.0049	69.6	45.4	5.3	80.0	0	18.3	A S	
4382	5L	20 31 27.1	41 08 37	47	0.1319	0.0094	312.0	54.0	13.8	21.9	400	21.8	A S	

(20h 31m)

I 3390

(20h 31m)



20h 34m

20h 32m

20h 30m

CYG X-3 BORESIGHT C-4

FIELD CENTER: $20^{\text{h}}31^{\text{m}}56.7^{\text{s}}$ $40^{\circ}31'08''$ (B1950)
 $20^{\text{h}}33^{\text{m}}45.5^{\text{s}}$ $40^{\circ}41'28''$ (J2000)
 $l: 79.78$ $b: 0.34$

DATE: 1978/350 - 1978/352
 LIVETIME: 4679.5s
 ROLL ANGLE: 139.4°

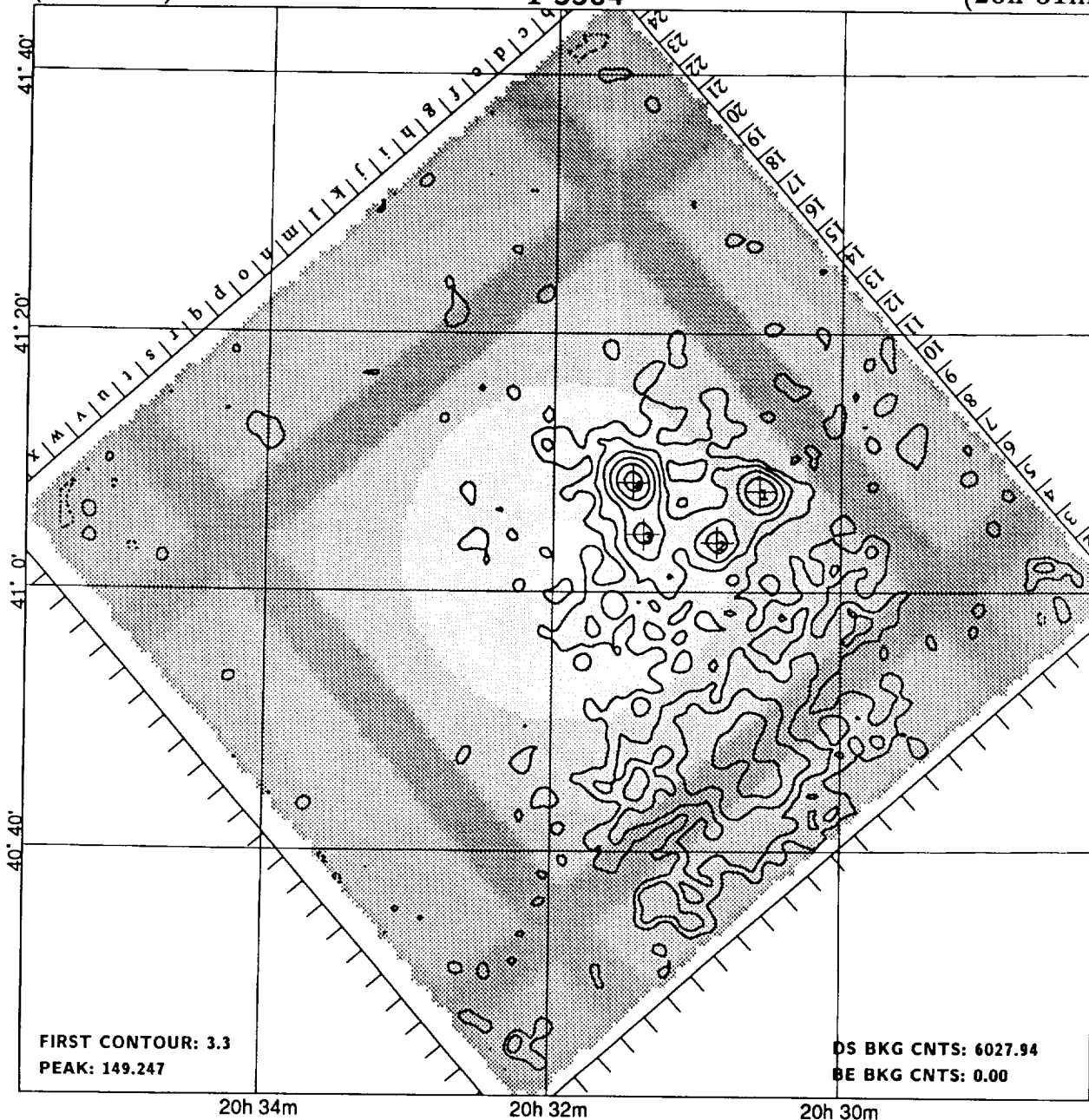
NH: $1.2\text{E}+22$
 REF/ID:
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	ID FLG
4376	1L	20 30 36.3	40 47 07	47	*0.417	0.060	945.7	638.3	6.9	2.0	1208	22.1	A	

(20h 31m)

I 3384

(20h 31m)



CYG X-3 BORESIGHT C-1

FIELD CENTER: $20^{\text{h}}31^{\text{m}}57.2^{\text{s}}$ $41^{\circ}03'03''$ (B1950)
 $20^{\text{h}}33^{\text{m}}45.1^{\text{s}}$ $41^{\circ}13'23''$ (J2000)
 $l: 80.21$ $b: 0.66$

DATE: 1978/350 - 1978/351
 LIVETIME: 4884.6s
 ROLL ANGLE: 139.0°

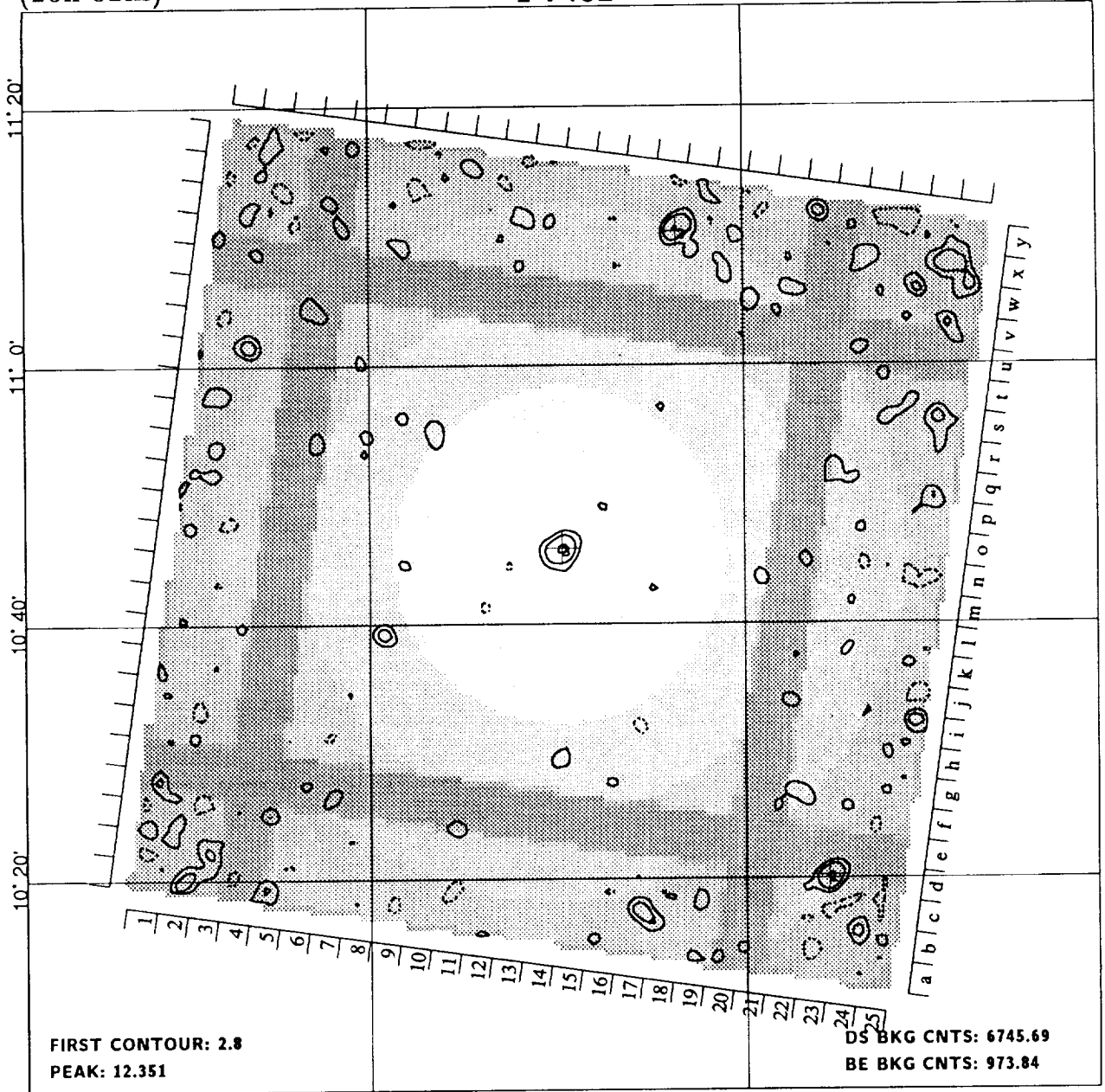
NH: $1.2\text{E}+22$
 REF/ID: S
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4375	1L	20 30 33.9	41 07 51	47	0.0520	0.0056	147.0	38.0	9.2	23.5	0	16.3	A S	S
4378	2L	20 30 51.6	41 03 51	38	0.0252	0.0046	79.3	62.7	5.4	32.8	0	12.4	A S	S
4381	3L	20 31 22.2	41 04 30	38	0.0259	0.0045	89.1	69.9	5.7	32.9	0	6.6	A S	S
4382	4L	20 31 26.8	41 08 32	37	0.1414	0.0081	478.3	88.7	17.4	9.0	0	7.9	A S	S

(20h 32m)

I 7482

(20h 32m)



FIRST CONTOUR: 2.8
PEAK: 12.351

DS BKG CNTS: 6745.69
BE BKG CNTS: 973.84

20h 34m

20h 32m

2032+107, EMISSION FROM HIGHLY POLARIZED BL LAC OBJECTS

FIELD CENTER: 20^h32^m58.4^s 10°45'41" (B1950)
20^h35^m22.1^s 10°56'06" (J2000)
l: 55.40 b: -17.24

DATE: 1980/107 - 1980/107
LIVETIME: 5662.5s
ROLL ANGLE: -82.0°

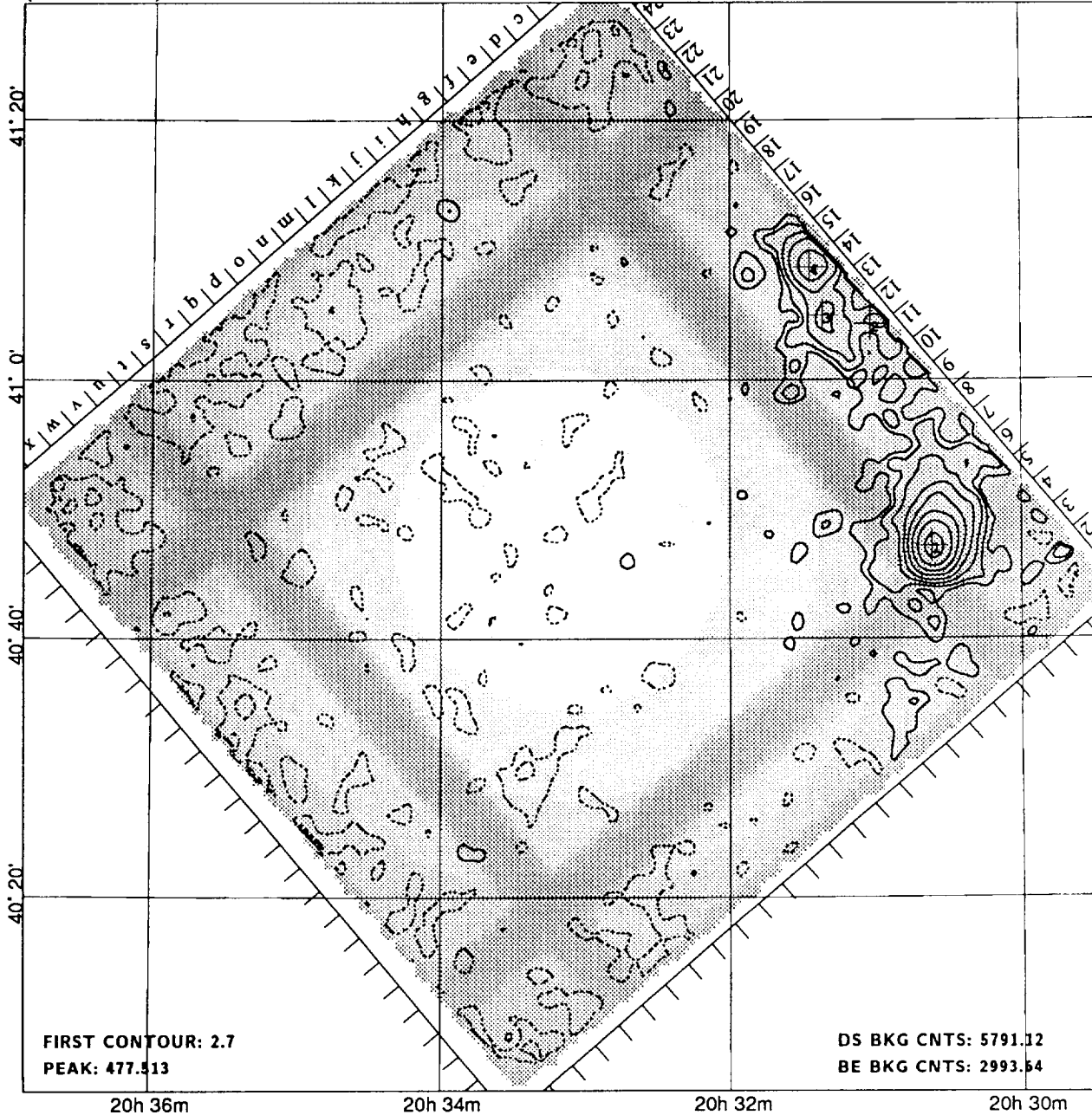
NH: 7.2E+20
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4383	1	20 31 33.6	10 20 14	56	*0.0106	0.0030	18.5	8.5	3.6	0.8	1109	32.6	
4385	2	20 32 21.4	11 10 17	53	0.0103	0.0027	23.6	14.4	3.8	0.9	0	26.2	H
4386	3	20 32 58.5	10 45 46	35	0.0117	0.0020	49.5	18.5	6.0	0.9	0	0.2	H

(20h 33m)

I 3375

(20h 33m)



CYG X-3 BORESIGHT A-1

FIELD CENTER: $20^h 33^m 11.1^s$ $40^\circ 47' 05''$ (B1950)
 $20^h 34^m 59.7^s$ $40^\circ 57' 30''$ (J2000)
 $l: 80.13$ $b: 0.31$

DATE: 1978/351 - 1978/352
 LIVETIME: 4692.7s
 ROLL ANGLE: 139.5°

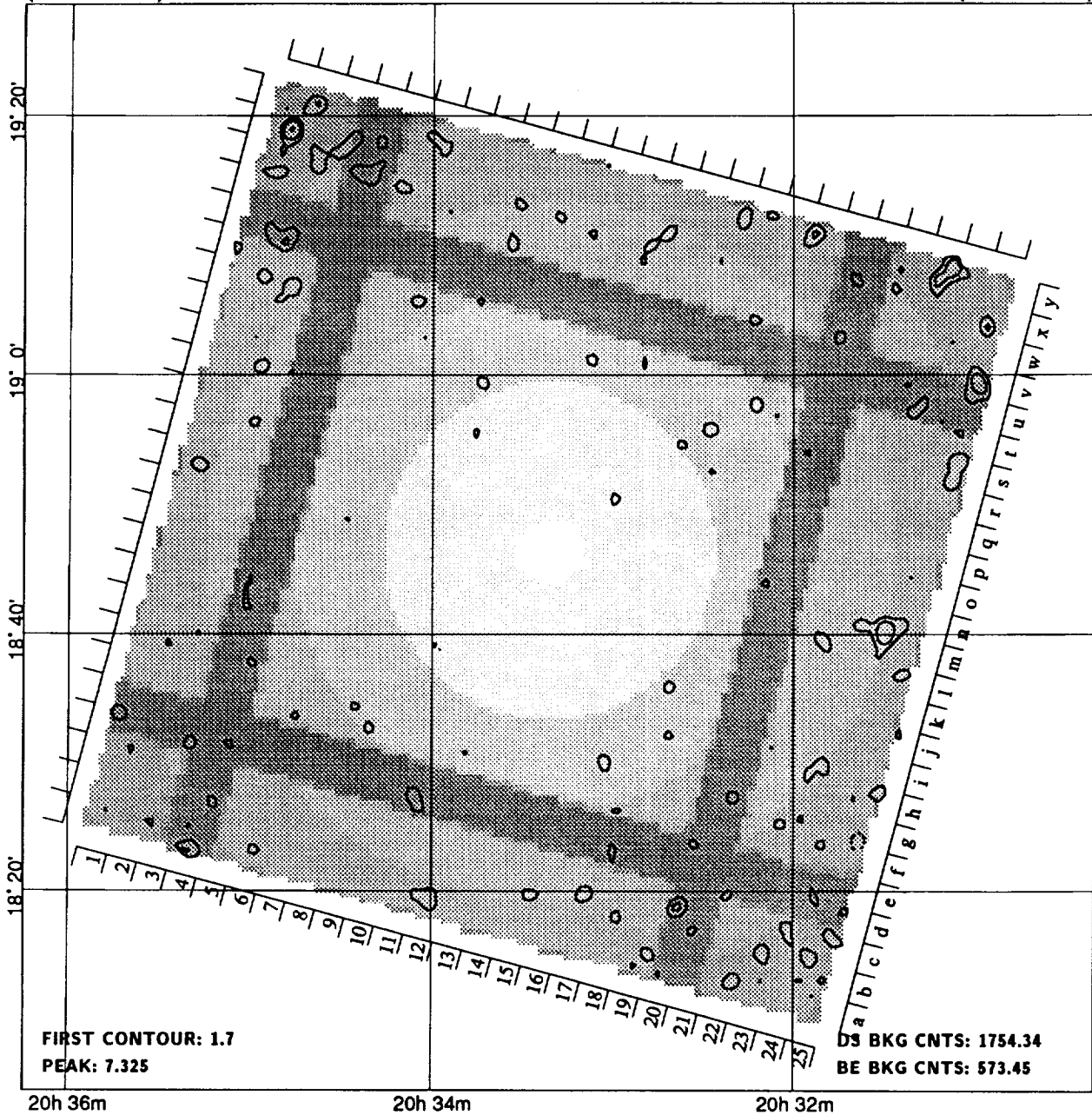
NH: $1.2E+22$
 REF/ID:
 FIELD FLAGS: B

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4376	1	20 30 36.7	40 47 05	47	*0.619	0.019	1067.5	10.5	32.5	2.3	1409	29.2	AH	
4378	2	20 31 02.0	41 04 18	53	*0.0155	0.0037	23.3	7.7	4.2	88.1	603	30.0	A	S
4381	3	20 31 21.7	41 04 58	50	0.0362	0.0048	68.8	13.2	7.6	36.1	0	27.4	AH	S
4382	4	20 31 27.0	41 08 38	48	0.0945	0.0077	164.2	12.8	12.3	14.5	300	29.1	AH	S

(20h 33m)

I 7311

(20h 33m)



2033+18, LOW FREQ. VAR. EXTRAGAL. RADIO SOURCE

FIELD CENTER: $20^{\text{h}}33^{\text{m}}17.6^{\text{s}}$ $18^{\circ}46'39''$ (B1950)
 $20^{\text{h}}35^{\text{m}}33.6^{\text{s}}$ $18^{\circ}57'05''$ (J2000)
 $l: 62.30$ $b: -12.79$

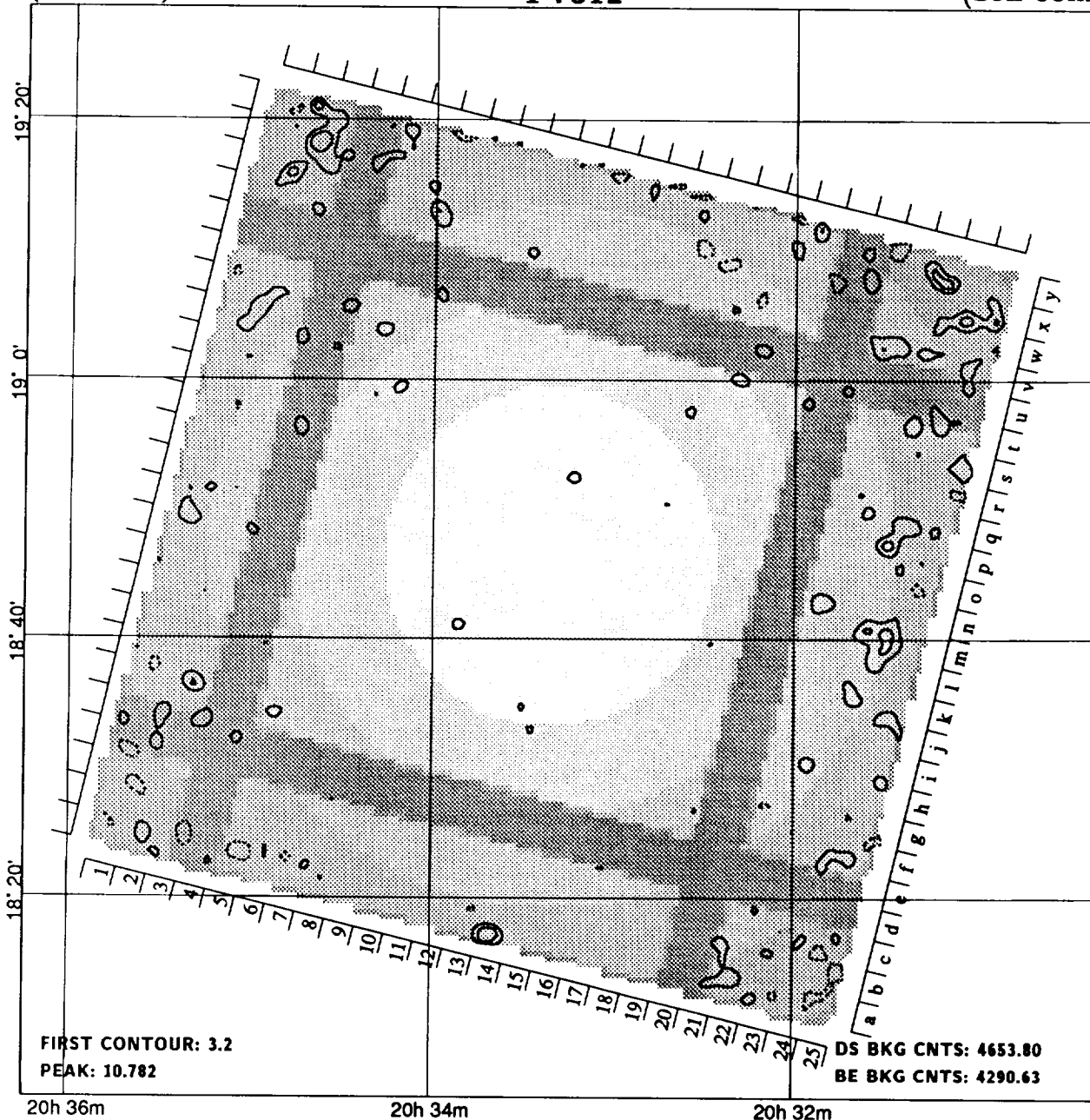
DATE: 1980/123 - 1980/123
 LIVETIME: 1472.6s
 ROLL ANGLE: -75.1°

NH: $7.0\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

(20h 33m)

I 7312

(20h 33m)



2033+18, LOW FREQ. VAR. EXTRAGAL. RADIO SOURCE

FIELD CENTER: $20^{\text{h}}33^{\text{m}}17.6^{\text{s}}$ $18^{\circ}46'39''$ (B1950)
 $20^{\text{h}}35^{\text{m}}33.6^{\text{s}}$ $18^{\circ}57'05''$ (J2000)
 $l: 62.30$ $b: -12.79$

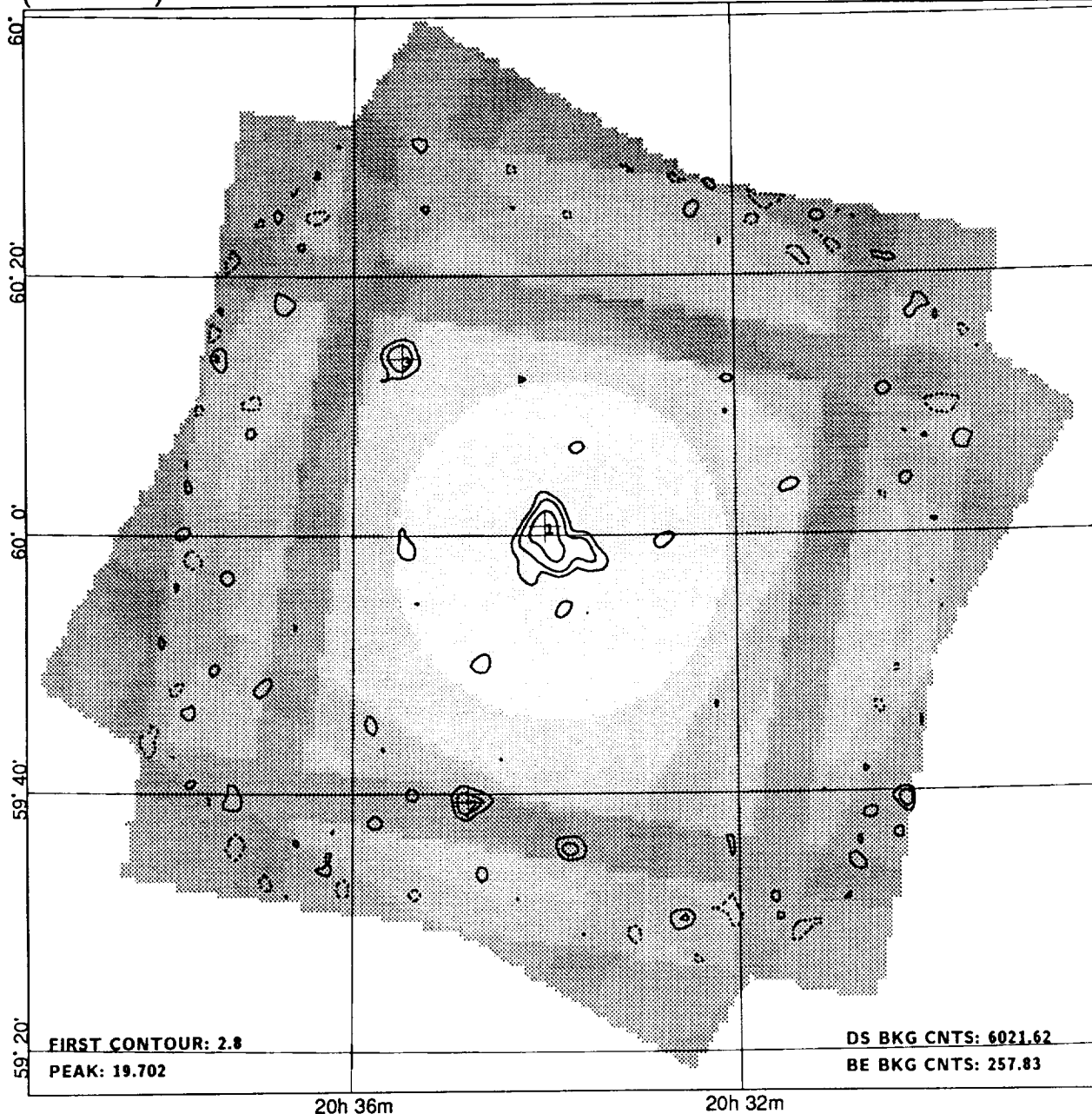
DATE: 1981/ 97 - 1981/ 97
 LIVETIME: 3771.1s
 ROLL ANGLE: -76.4°

NH: $7.0\text{E}+20$
 REF/ID:
 FIELD FLAGS: CL

(20h 33m)

I 422

(20h 33m)



NGC 6946 ABNORMAL GALAXIES SURVEY

FIELD CENTER: $20^{\text{h}}33^{\text{m}}47.8^{\text{s}}$ $59^{\circ}58'59''$ (B1950)
 $20^{\text{h}}34^{\text{m}}50.9^{\text{s}}$ $60^{\circ}09'24''$ (J2000)
 $l: 95.72$ $b: 11.68$

DATE: 1979/145 - 1980/ 36
 LIVETIME: 4879.5s

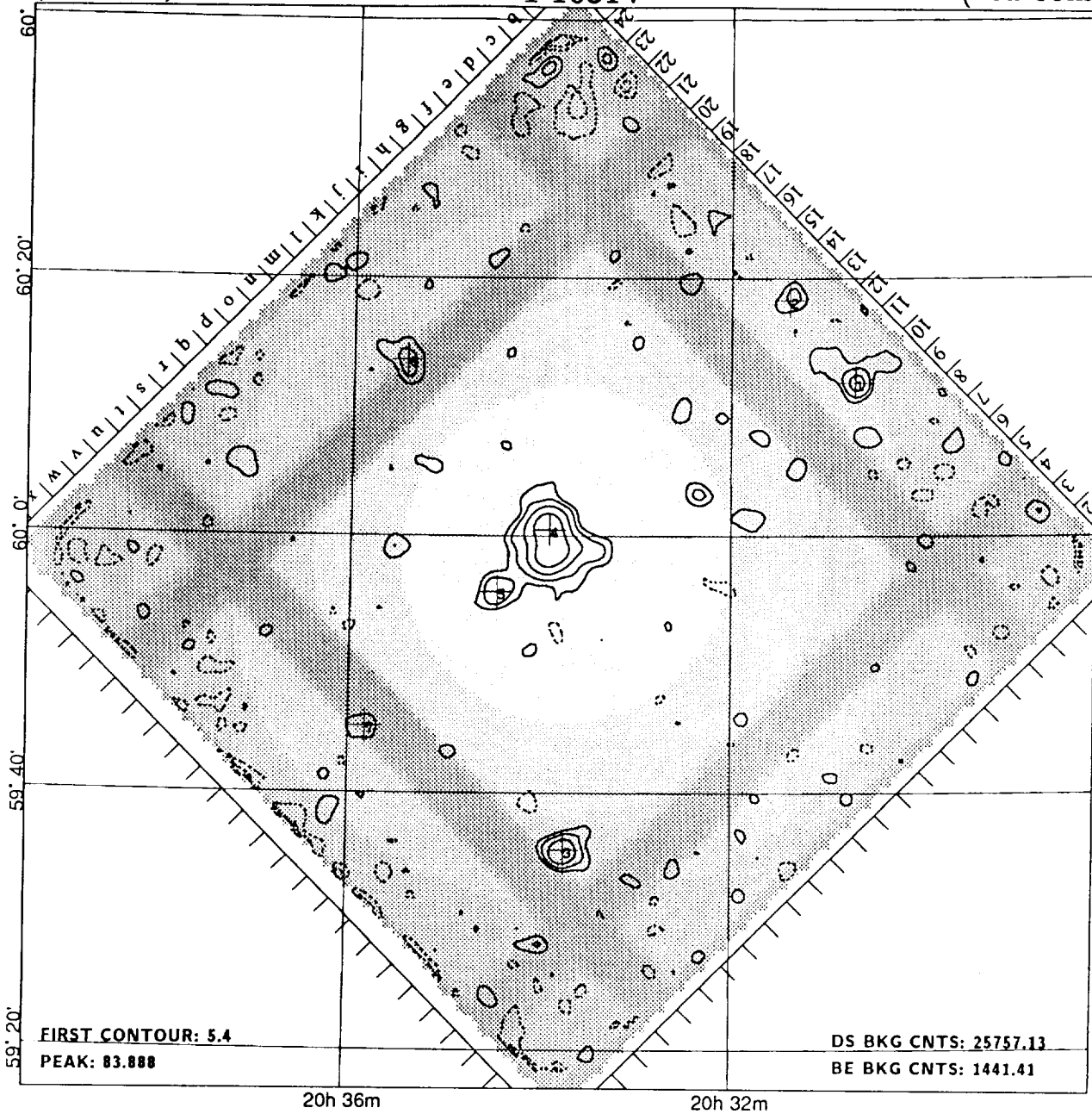
NH: $2.0\text{E}+21$
 REF/ID: !
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm ''	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4389	1	20 34 00.0	60 00 43	32	0.0252	0.0029	90.6	14.4	8.8	2.4	0	2.6	AH	G
4392	2	20 34 48.4	59 39 20	55	*0.0097	0.0023	23.7	7.3	4.3	0.8	1509	21.0	A	
4396	3	20 35 29.6	60 13 37	52	0.0102	0.0024	26.1	11.9	4.2	0.8	100	19.5	AH	S

(20h 33m)

I 10314

(20h 33m)



10/28/80 SN IN NGC 6946

FIELD CENTER: $20^h 33^m 47.8^s$ $59^\circ 58' 59''$ (B1950)
 $20^h 34^m 50.9^s$ $60^\circ 09' 24''$ (J2000)
 $l: 95.72$ $b: 11.68$

DATE: 1980/345 - 1980/346
 LIVETIME: 20871.7s
 ROLL ANGLE: 135.0°

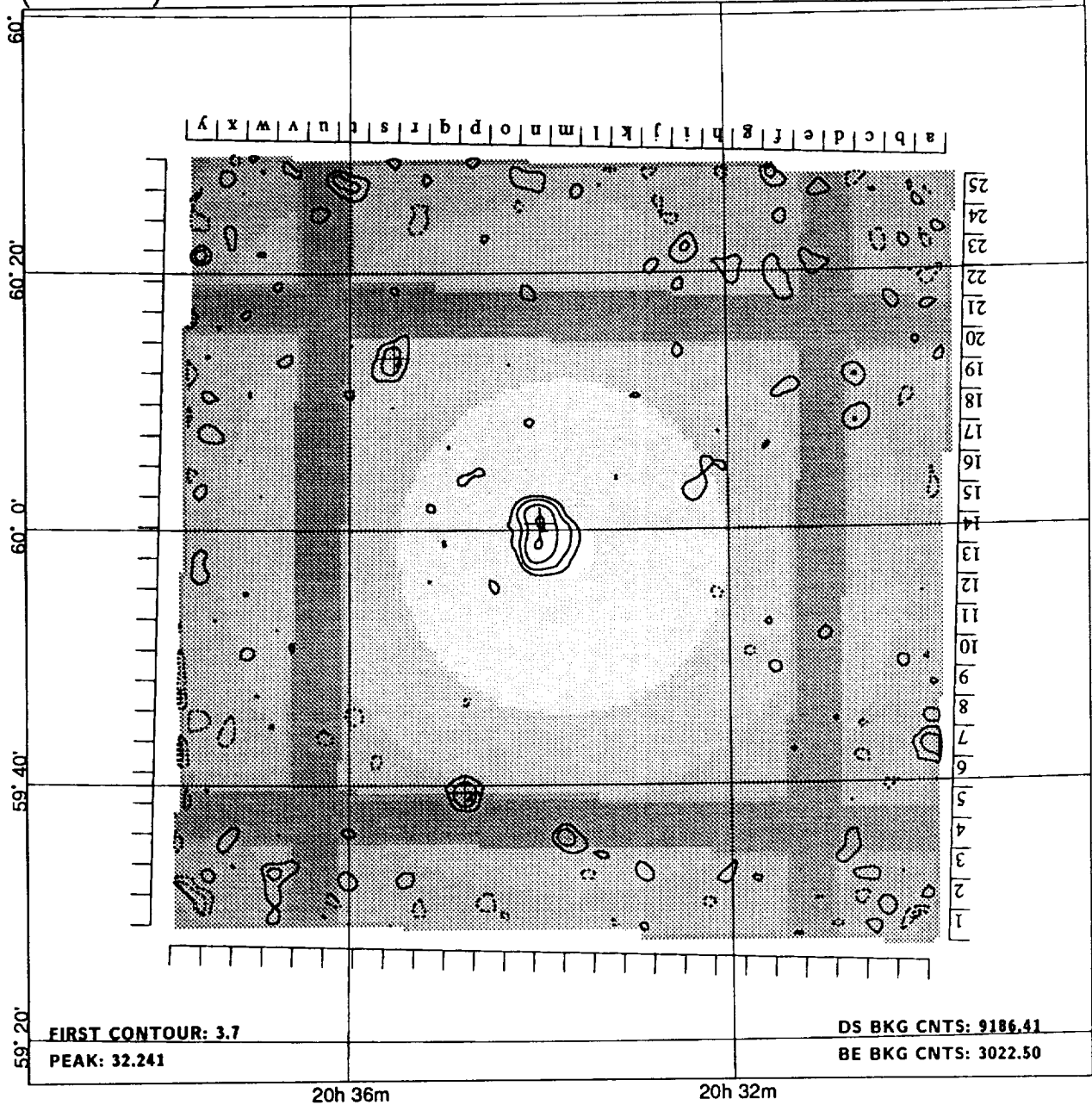
NH: $2.0E+21$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4377	1	20 30 41.8	60 11 56	51	0.0068	0.0012	58.6	43.4	5.8	1.4	0	26.6	H
4380	2	20 31 23.3	60 18 17	66	0.0037	0.0010	31.6	46.4	3.6	0.7	0	26.2	
4388	3	20 33 43.7	59 35 38	48	*0.0111	0.0013	107.6	43.4	8.8	1.0	501	23.3	H S
4389	4	20 33 54.4	60 00 28	31	0.0246	0.0014	377.3	69.7	17.8	2.8	0	2.0	AH G
4390	5	20 34 27.2	59 55 38	41	0.00556	0.00082	81.9	65.1	6.8	12.7	0	6.0	H *
4396	6	20 35 26.0	60 13 40	57	*0.00360	0.00081	38.6	37.4	4.4	1.2	906	19.7	AH S
4397	7	20 35 49.3	59 45 11	56	*0.00303	0.00073	31.5	26.5	4.1	0.6	1108	20.6	H

(20h 33m)

I 10597

(20h 33m)



10/28/80 SN IN NGC 6946

FIELD CENTER: $20^{\text{h}}33^{\text{m}}47.8^{\text{s}}$ $59^{\circ}58'59''$ (B1950)
 $20^{\text{h}}34^{\text{m}}50.9^{\text{s}}$ $60^{\circ}09'24''$ (J2000)
 $l: 95.72$ $b: 11.68$

DATE: 1981/ 27 - 1981/ 27
 LIVETIME: 7444.1s
 ROLL ANGLE: -178.5°

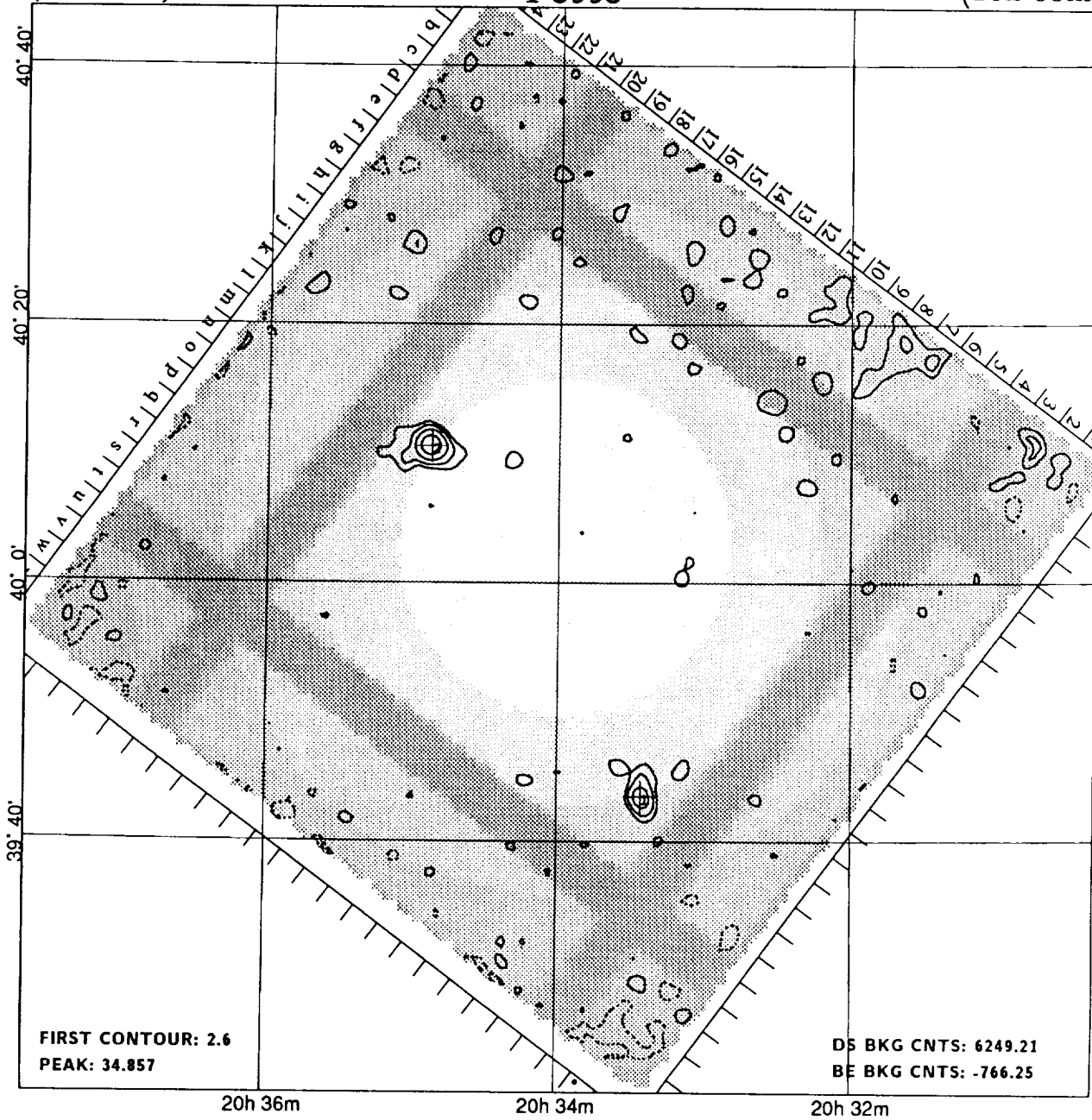
NH: $2.0E+21$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4389	1	20 33 59.5	60 00 28	31	0.0256	0.0024	139.6	29.4	10.7	2.0	0	2.1	AH G
4392	2	20 34 47.3	59 39 25	51	*0.0093	0.0019	34.6	15.4	4.9	0.8	906	21.0	AH
4396	3	20 35 31.9	60 13 22	55	0.0079	0.0019	30.2	22.8	4.1	0.9	500	19.5	AH S

(20h 33m)

I 5995

(20h 33m)



G78.1 +1.8: INTERSTELLAR SCINTILLATION SOURCES

FIELD CENTER: $20^{\text{h}}33^{\text{m}}59.8^{\text{s}}$ $40^{\circ}02'29''$ (B1950)
 $20^{\text{h}}35^{\text{m}}49.6^{\text{s}}$ $40^{\circ}12'56''$ (J2000)
 $l: 79.64$ $b: -0.26$

DATE: 1979/337 - 1979/337
 LIVETIME: 5063.9s
 ROLL ANGLE: 126.6°

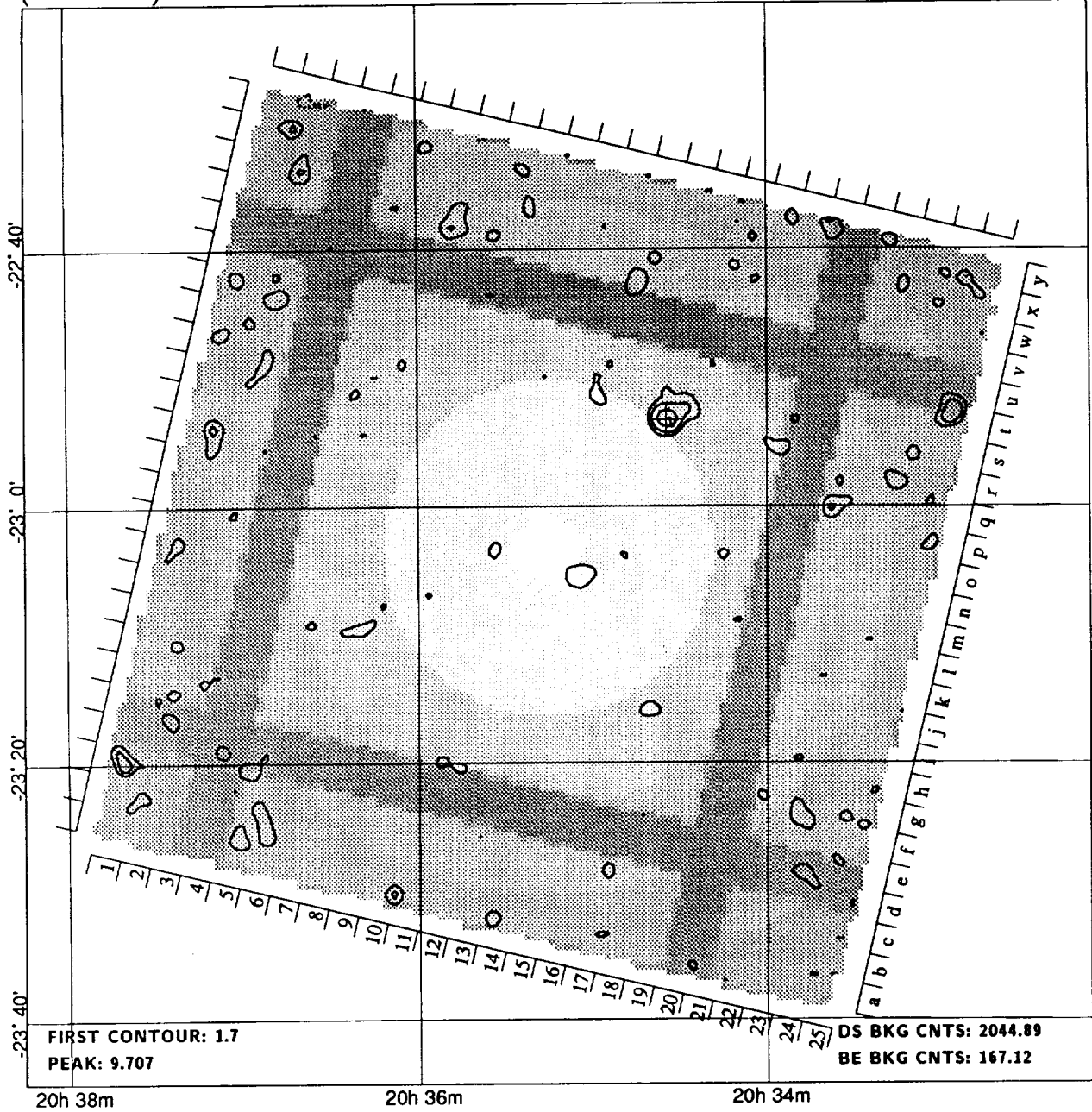
NH: $1.3\text{E}+22$
 REF/ID: S
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4387	1	20 33 25.7	39 43 29	50	0.0135	0.0026	34.6	9.4	5.2	1.0	0	19.9	H S	
4394	2	20 34 52.7	40 10 35	38	0.0322	0.0034	101.1	9.9	9.6	1.1	0	13.1	H	

(20h 35m)

I 8390

(20h 35m)



CLUSTER 528, ADDITIONAL SOUTHERN HIGH REDSHIFT CLUSTERS

FIELD CENTER: $20^{\text{h}} 35^{\text{m}} 11.9^{\text{s}}$ $-23^{\circ} 02' 59''$ (B1950)
 $20^{\text{h}} 38^{\text{m}} 07.6^{\text{s}}$ $-22^{\circ} 52' 26''$ (J2000)
 $l: 22.11$ $b: -33.05$

DATE: 1980/129 - 1980/129
 LIVETIME: 1716.5s
 ROLL ANGLE: -76.6°

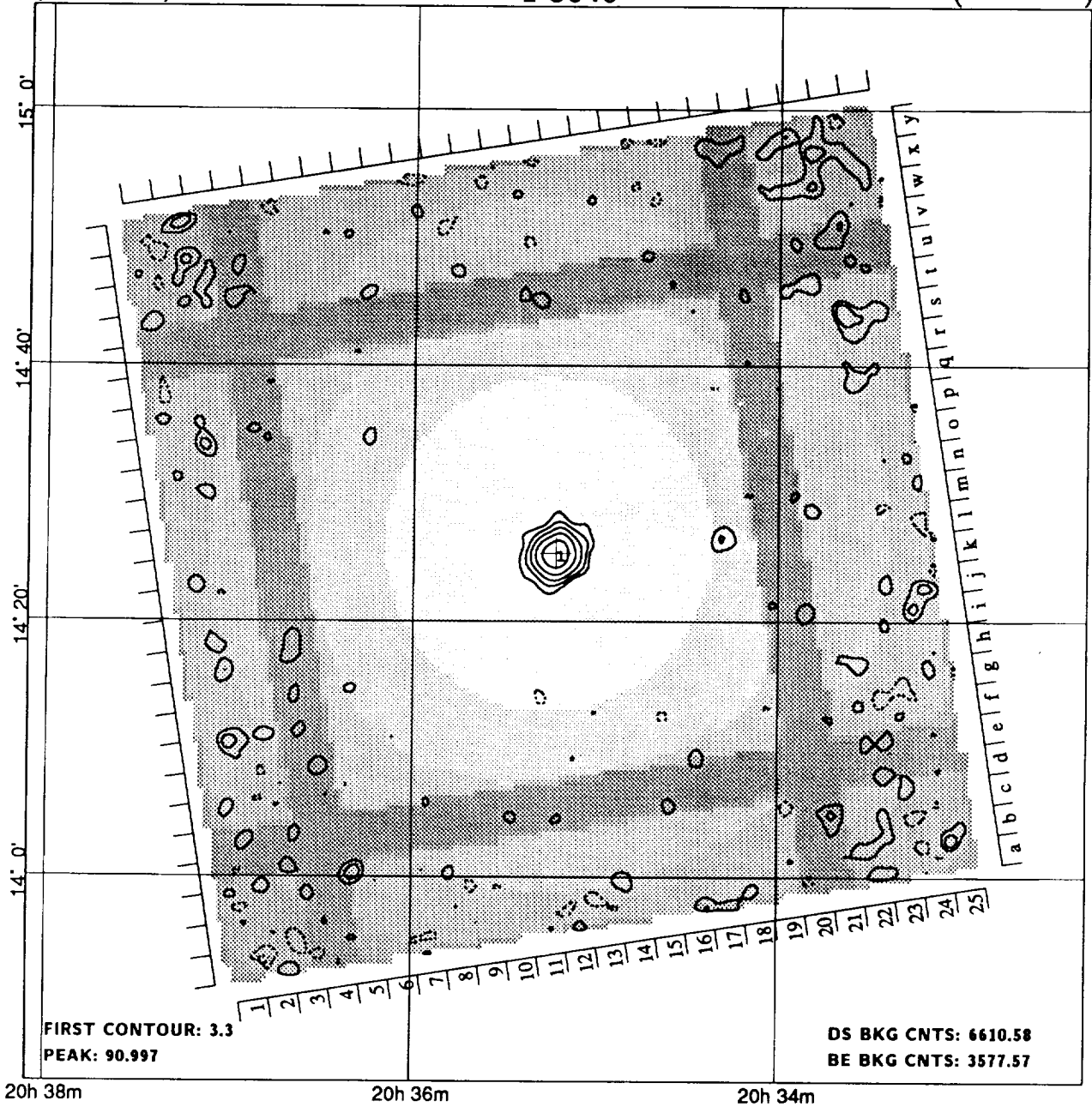
NH: $3.8E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4391	1	20 34 34.5	-22 53 19	42	0.0280	0.0056	29.4	4.6	5.0	1.1	0	12.9	H

(20h 35m)

I 5640

(20h 35m)



Beta DEL

FIELD CENTER: $20^{\text{h}}35^{\text{m}}12.8^{\text{s}}$ $14^{\circ}25'59''$ (B1950)
 $20^{\text{h}}37^{\text{m}}33.2^{\text{s}}$ $14^{\circ}36'32''$ (J2000)
 $l: 58.89$ $b: -15.64$

DATE: 1981/110 - 1981/110
 LIVETIME: 5356.8s
 ROLL ANGLE: -98.9°

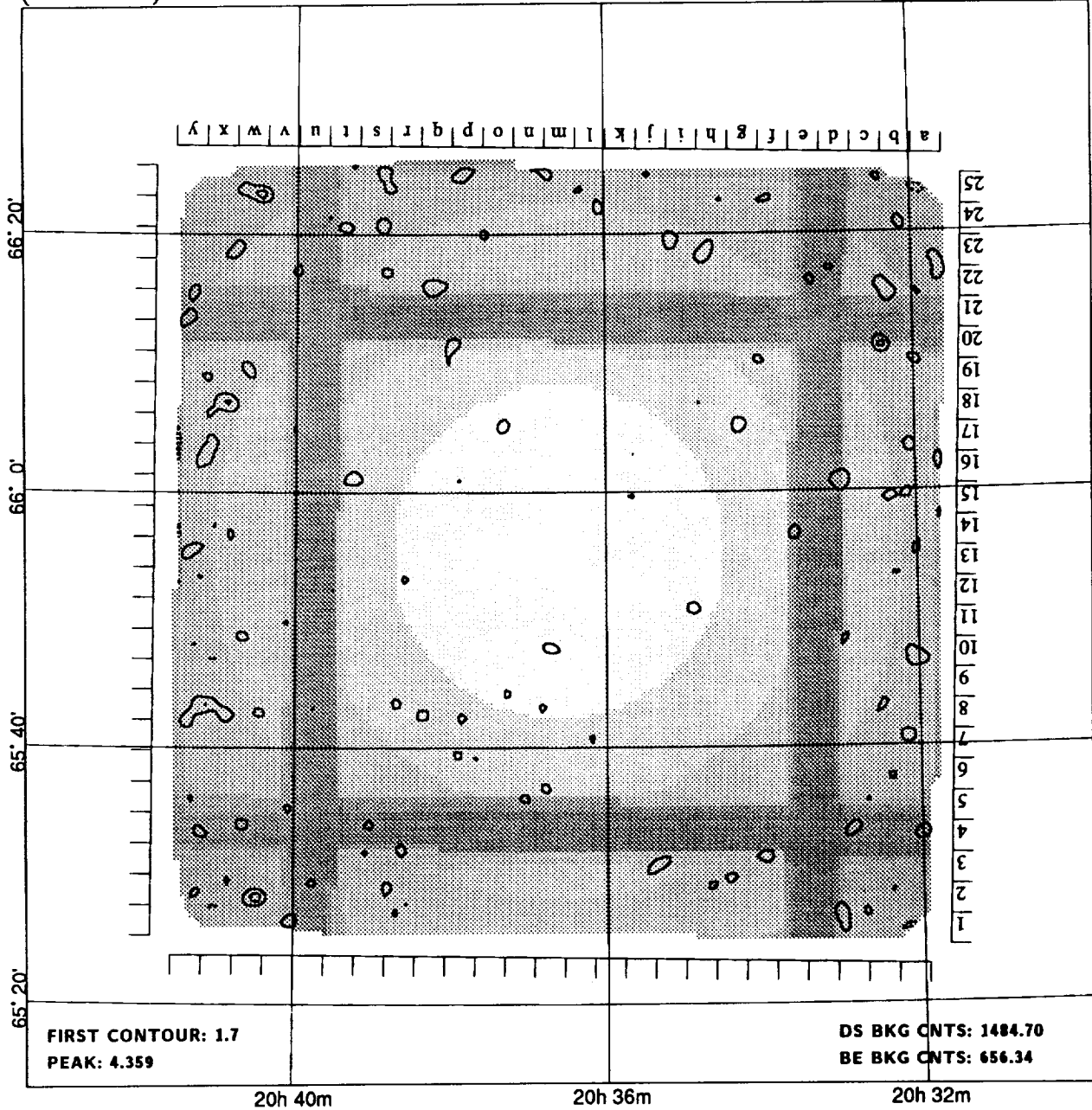
NH: $6.9E+20$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4395	1L	20 35 13.0	14 25 19	31	0.0900	0.0060	358.9	75.1	14.9	1.4	0	0.6	

(20h 36m)

I 9137

(20h 36m)



CAREFULLY SELECTED Sbc GALAXIES: NGC 6951

FIELD CENTER: $20^{\text{h}}36^{\text{m}}36.4^{\text{s}}$ $65^{\circ}55'53''$ (B1950)
 $20^{\text{h}}37^{\text{m}}13.9^{\text{s}}$ $66^{\circ}06'27''$ (J2000)
 $l: 100.90$ $b: 14.85$

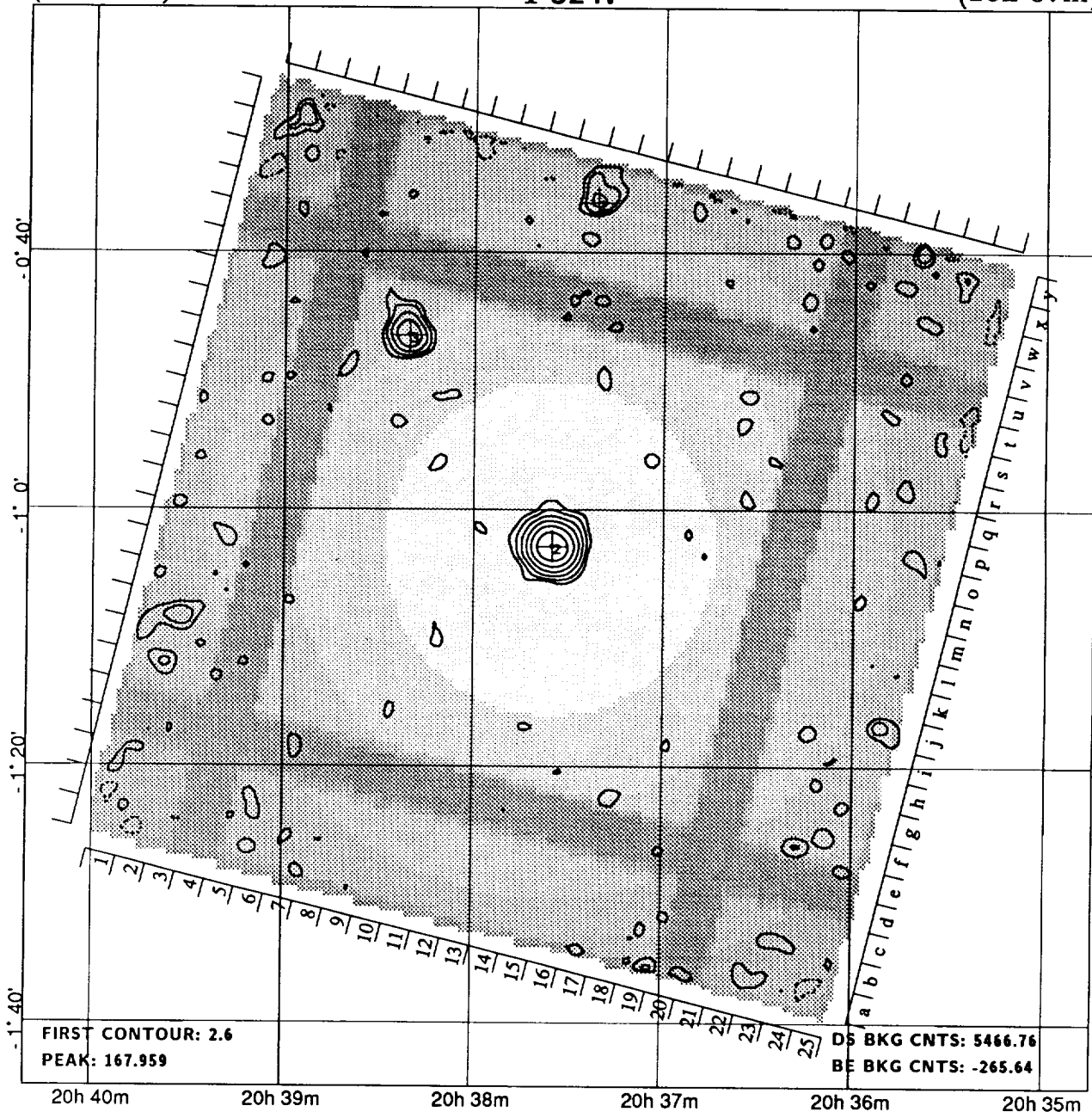
DATE: 1981/ 27 - 1981/ 27
 LIVETIME: 1203.1s
 ROLL ANGLE: -179.1°

NH: $1.5\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(20h 37m)

I 3247

(20h 37m)



AE AQUARIUS

FIELD CENTER: 20^h37^m32.8^s -01°02'59" (B1950)
 20^h40^m07.5^s -00°52'19" (J2000)
 l : 45.28 b : -24.41

DATE: 1979/117 - 1979/118
 LIVETIME: 4429.9s
 ROLL ANGLE: -76.1°

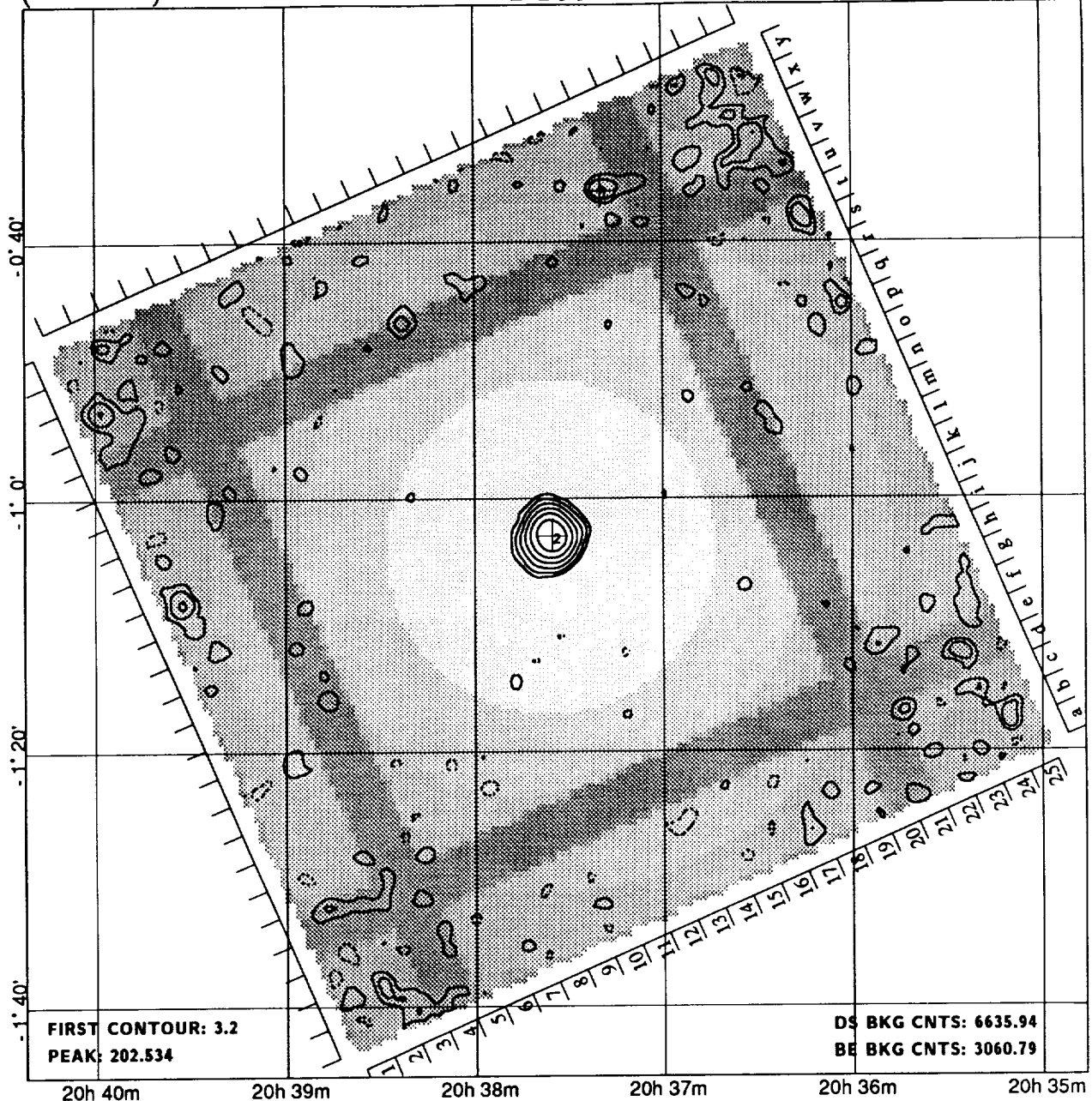
NH: 6.6E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4402	1	20 37 21.2	-00 36 07	51	0.0133	0.0032	23.2	8.8	4.1	1.3	0	27.0	AH
4404	2	20 37 35.1	-01 02 53	31	0.2242	0.0083	740.9	12.1	27.0	1.2	0	0.7	AH S
4408	3	20 38 20.6	-00 46 29	48	0.0480	0.0048	108.6	9.4	10.0	1.1	0	20.6	AH

(20h 37m)

I 10624

(20h 37m)



AE AQR,X-RAY PULSATIONS

FIELD CENTER: $20^h 37^m 34.2^s -01^\circ 03' 22''$ (B1950)
 $20^h 40^m 08.9^s -00^\circ 52' 42''$ (J2000)
 $l: 45.27 \quad b: -24.42$

DATE: 1981/115 - 1981/115
 LIVETIME: 5377.3s
 ROLL ANGLE: -113.6°

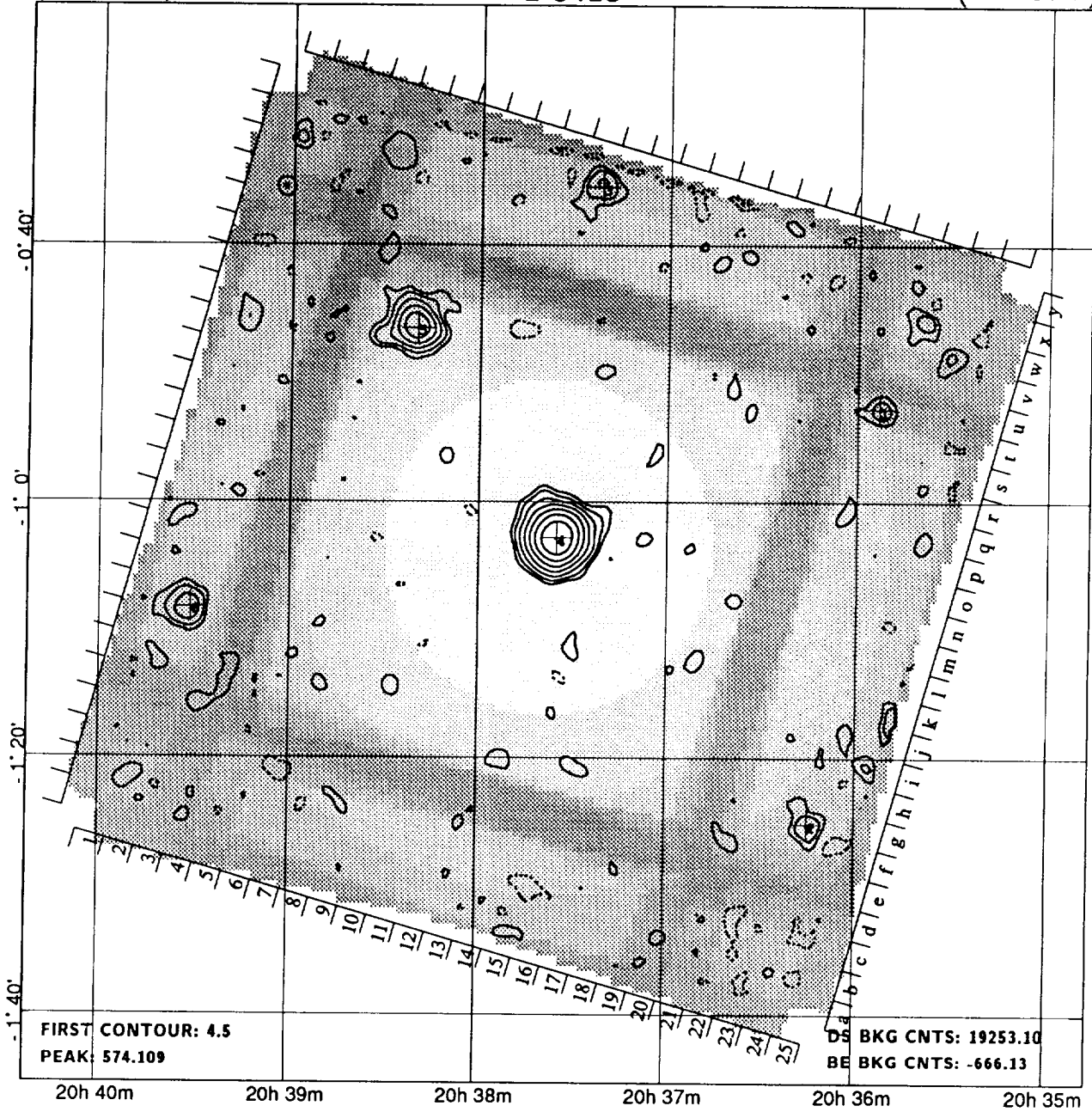
NH: $6.6E+20$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4402	1L	20 37 19.6	-00 35 58	55	0.0136	0.0036	27.6	9.4	3.5	0.9	500	27.7	A	
4404	2L	20 37 35.3	-01 02 59	31	0.2020	0.0089	807.6	152.4	22.6	1.3	0	0.5	A	S

(20h 37m)

I 8415

(20h 37m)



X-RAY PULSATIONS IN AE AQR

FIELD CENTER: $20^{\text{h}}37^{\text{m}}34.8^{\text{s}}$ $-01^{\circ}03'22''$ (B1950)
 $20^{\text{h}}40^{\text{m}}09.4^{\text{s}}$ $-00^{\circ}52'42''$ (J2000)
 $l: 45.27$ $b: -24.42$

DATE: 1980/134 - 1980/136
 LIVETIME: 15601.3s
 ROLL ANGLE: -74.1°

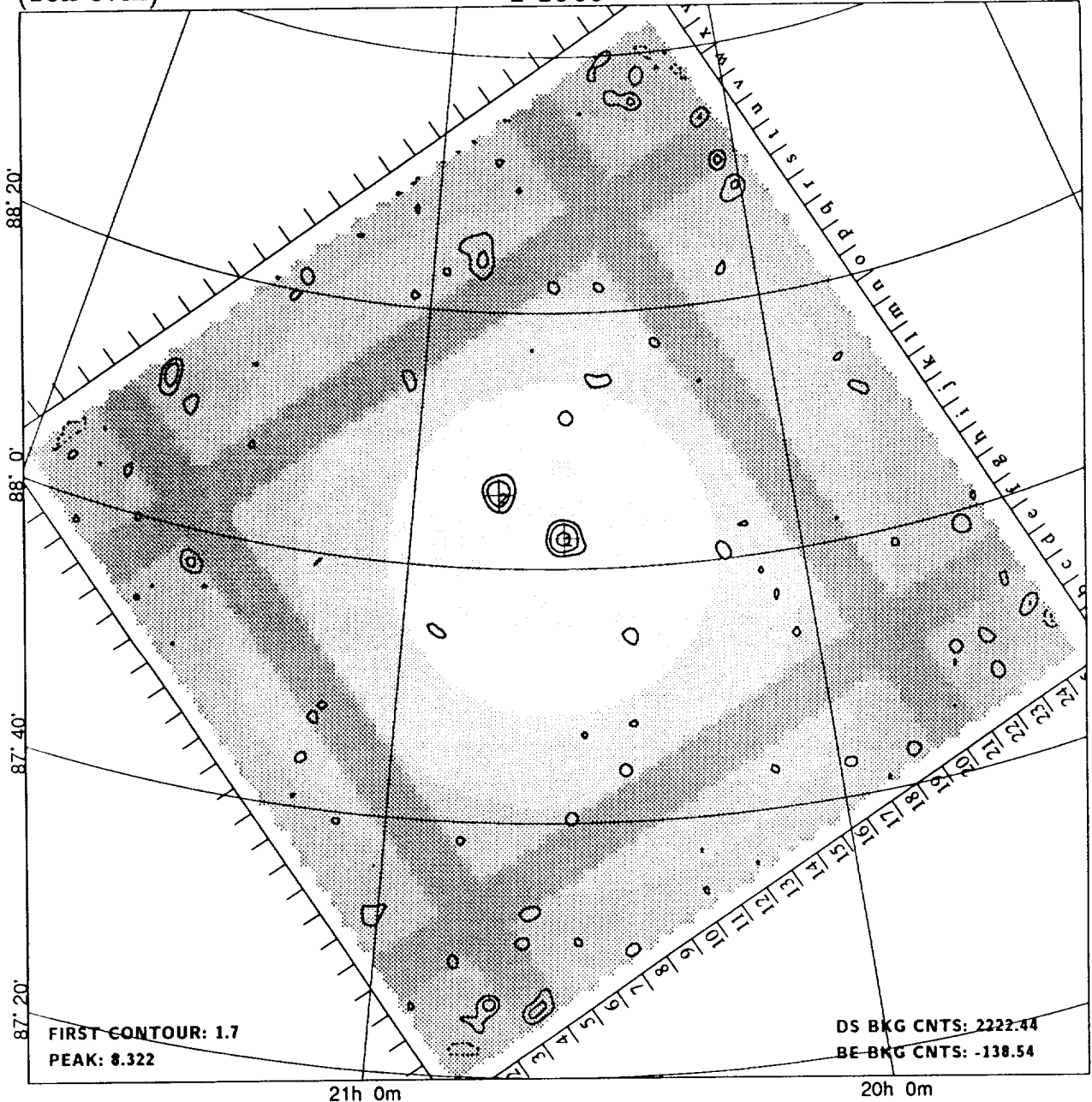
NH: $6.6E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4398	1	20 35 53.2	-00 52 44	70	*0.0047	0.0012	27.7	22.3	3.9	0.7	1409	27.4	
4400	2	20 36 14.8	-01 25 06	55	0.0055	0.0014	30.3	29.7	3.9	0.9	0	29.4	H
4402	3	20 37 21.5	-00 35 28	51	0.0068	0.0015	39.9	33.1	4.7	1.0	300	28.3	AH
4404	4	20 37 35.1	-01 02 45	31	0.2309	0.0045	2678.4	43.6	51.3	1.4	0	0.7	AH S
4408	5	20 38 20.1	-00 46 25	47	0.0441	0.0025	349.7	33.3	17.9	1.3	0	20.4	AH
4412	6	20 39 31.1	-01 08 14	51	0.0105	0.0016	60.5	26.5	6.5	1.2	0	29.5	H

(20h 37m)

I 1969

(20h 37m)



RN 73: SEYFERT AND N-TYPE GALAXIES

FIELD CENTER: $20^{\text{h}}37^{\text{m}}35.8^{\text{s}}$ $88^{\circ}01'59''$ (B1950)
 $20^{\text{h}}12^{\text{m}}52.5^{\text{s}}$ $88^{\circ}11'54''$ (J2000)
 $l: 121.04$ $b: 26.49$

DATE: 1979/ 86 - 1979/ 86
 LIVETIME: 1800.9s
 ROLL ANGLE: -124.0°

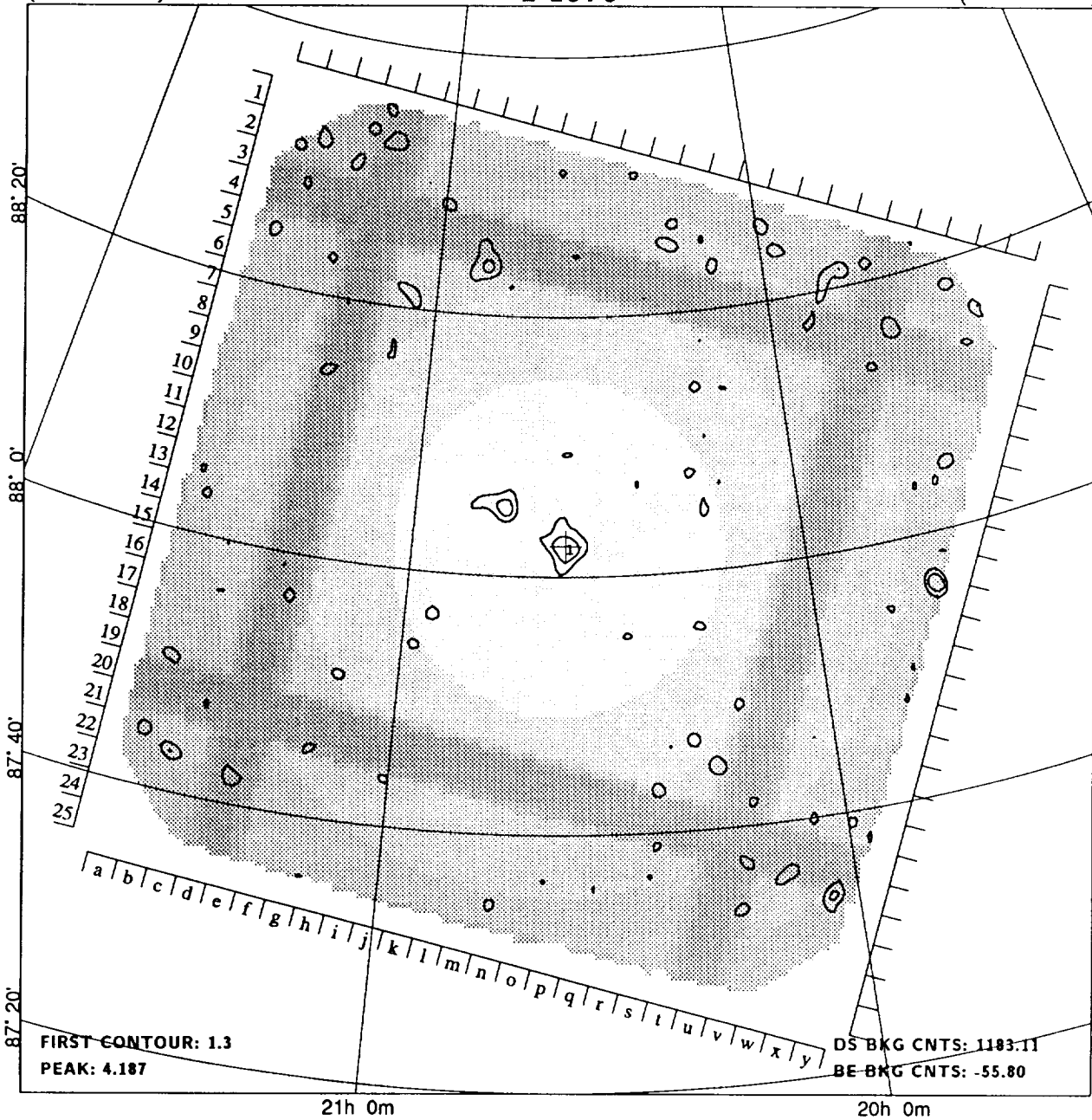
NH: $5.9\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4399	1	20 36 13.8	88 02 22	35	0.0251	0.0047	33.5	5.5	5.4	0.8	0	0.6	AH
4423	2	20 46 34.6	88 05 42	43	0.0150	0.0039	19.0	5.0	3.9	0.8	0	6.2	H

(20h 37m)

I 1970

(20h 37m)



RN 73: SEYFERT AND N-TYPE GALAXIES

FIELD CENTER: $20^h 37^m 35.8^s$ $88^\circ 01' 59''$ (B1950)
 $20^h 12^m 52.5^s$ $88^\circ 11' 54''$ (J2000)
 $l: 121.04$ $b: 26.49$

DATE: 1979/227 - 1979/227
 LIVETIME: 958.7s
 ROLL ANGLE: 14.6°

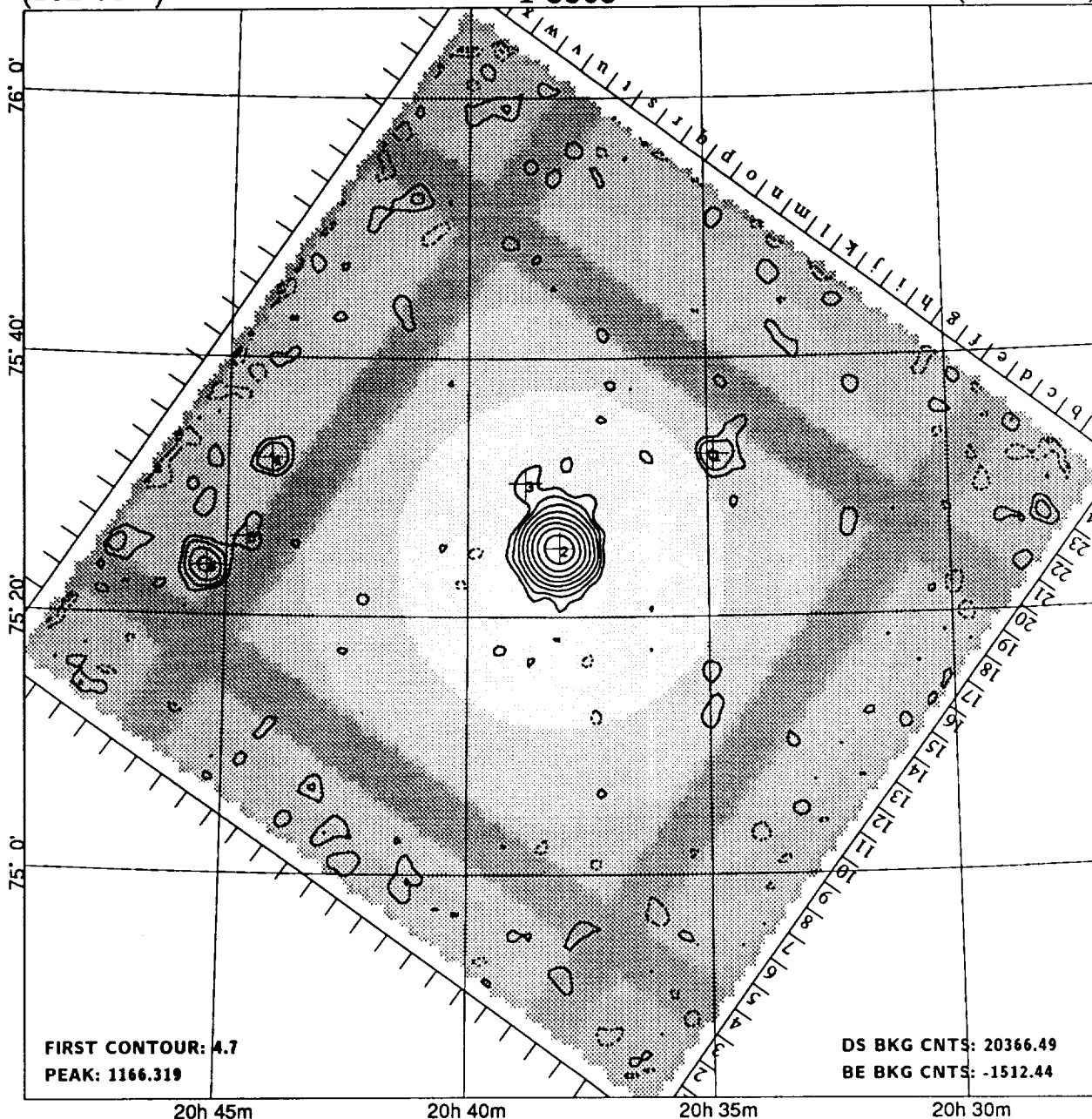
NH: $5.9E+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4399	1	20 36 21.2	88 02 22	37	0.0229	0.0061	16.4	2.6	3.8	1.0	0	0.8	AH	

(20h 38m)

I 3365

(20h 38m)



20h 45m

20h 40m

20h 35m

20h 30m

W UMA STARS: VW CEP

FIELD CENTER: $20^{\text{h}}38^{\text{m}}02.8^{\text{s}}$ $75^{\circ}24'57''$ (B1950)
 $20^{\text{h}}37^{\text{m}}17.0^{\text{s}}$ $75^{\circ}35'33''$ (J2000)
 $l: 109.21$ $b: 20.06$

DATE: 1979/ 58 - 1979/ 59
 LIVETIME: 16503.6s
 ROLL ANGLE: -144.4°

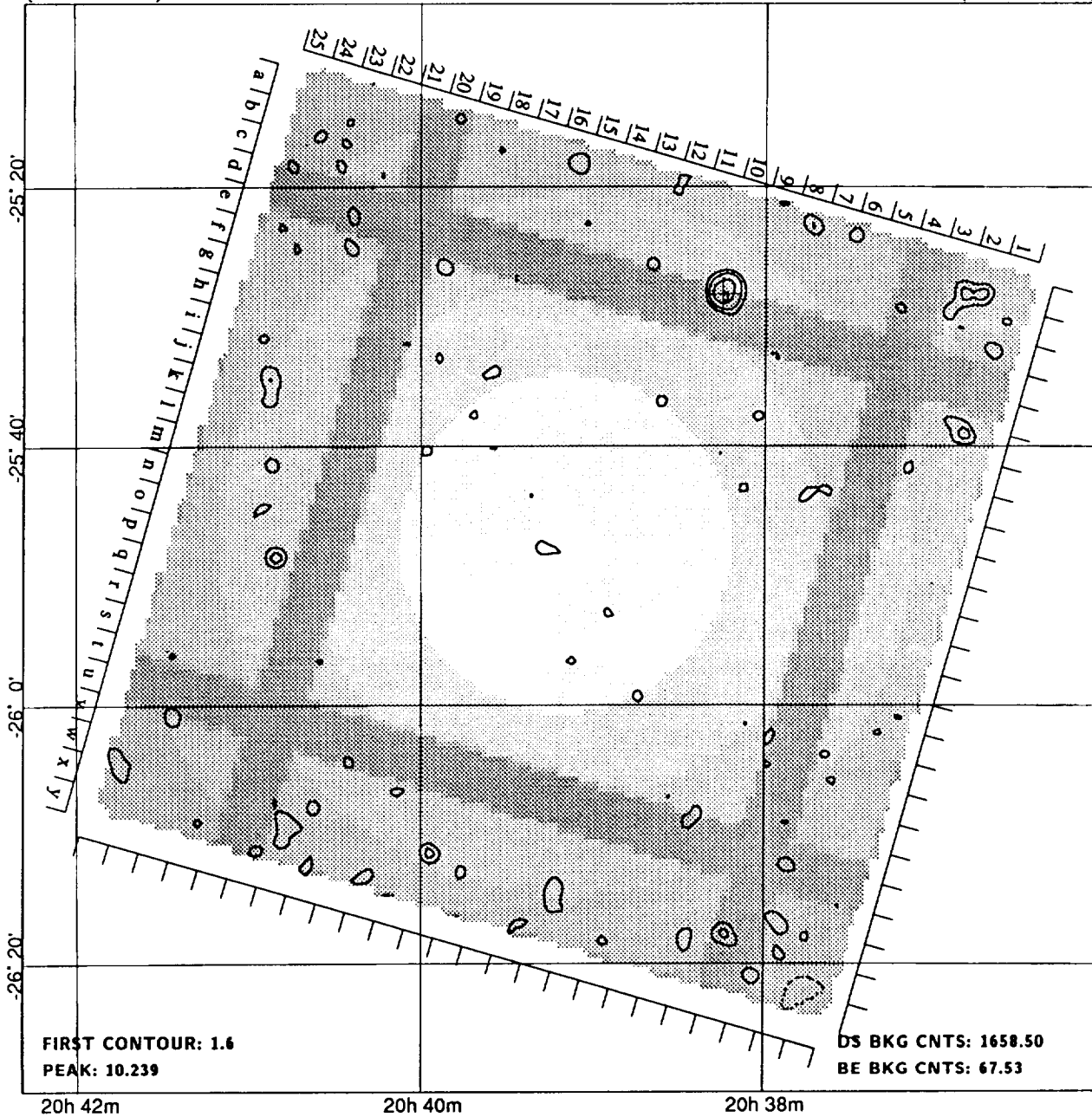
NH: $1.2\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4393	1	20 34 52.7	75 32 36	41	0.0069	0.0010	67.9	36.1	6.7	1.1	0	14.2	H	
4406	2	20 38 05.4	75 25 18	31	0.4146	0.0058	5091.0	47.0	71.0	1.4	0	0.6	H	S
4409	3	20 38 48.4	75 30 22	44	0.00316	0.00076	36.6	40.4	4.2	176.9	0	6.4	H	
4418	4	20 44 05.8	75 32 16	51	0.0068	0.0012	49.9	28.1	5.6	0.9	100	24.1	H	
4419	5	20 44 35.0	75 26 10	60	*0.00326	0.00092	23.5	20.5	3.5	0.7	805	24.7	H	
4421	6	20 45 23.9	75 23 53	50	*0.0158	0.0017	100.7	23.3	9.0	1.1	501	27.9	H	

(20h 39m)

I 9101

(20h 39m)



CLUSTERS OF GALAXIES AT MODERATE REDSHIFTS(0.1<Z<0.3): 43

FIELD CENTER: 20^h39^m11.8^s -25°47'59" (B1950)
 20^h42^m10.2^s -25°37'13" (J2000)
l: 19.29 *b*: -34.75

DATE: 1980/294 - 1980/295
 LIVETIME: 1343.9s
 ROLL ANGLE: 106.0°

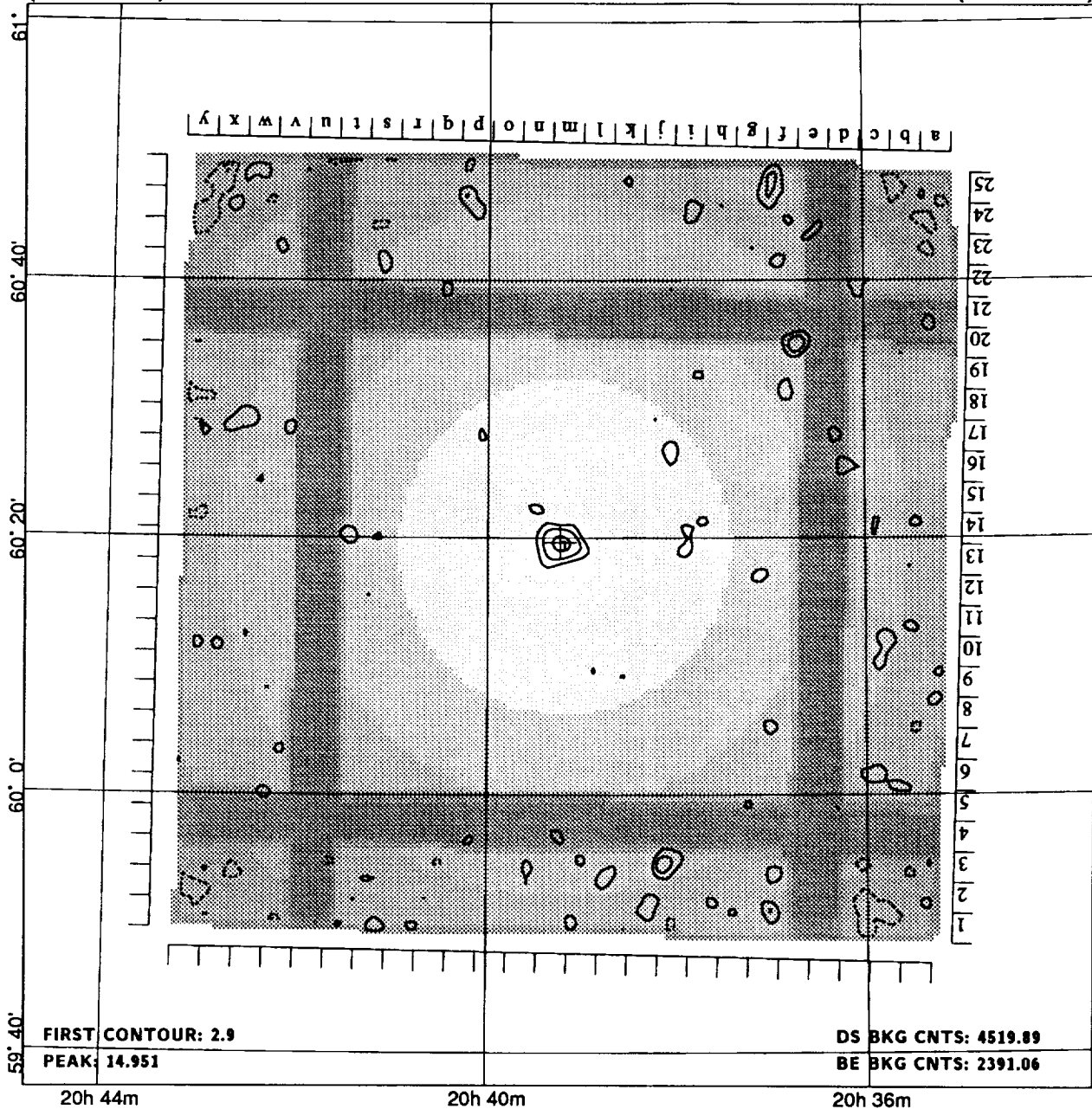
NH: 4.8E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	ID
4407	1	20 38 14.9	-25 28 17	51	*0.0380	0.0082	23.7	2.3	4.6	0.9	1006	23.6	H	

(20h 39m)

I 9710

(20h 39m)



F0-G5 STARS: HR 7925

FIELD CENTER: $20^{\text{h}}39^{\text{m}}14.0^{\text{s}}$ $60^{\circ}19'25''$ (B1950)
 $20^{\text{h}}40^{\text{m}}17.5^{\text{s}}$ $60^{\circ}30'08''$ (J2000)
 $l: 96.41$ $b: 11.33$

DATE: 1981/ 28 - 1981/ 28
 LIVETIME: 3662.6s
 ROLL ANGLE: -178.8°

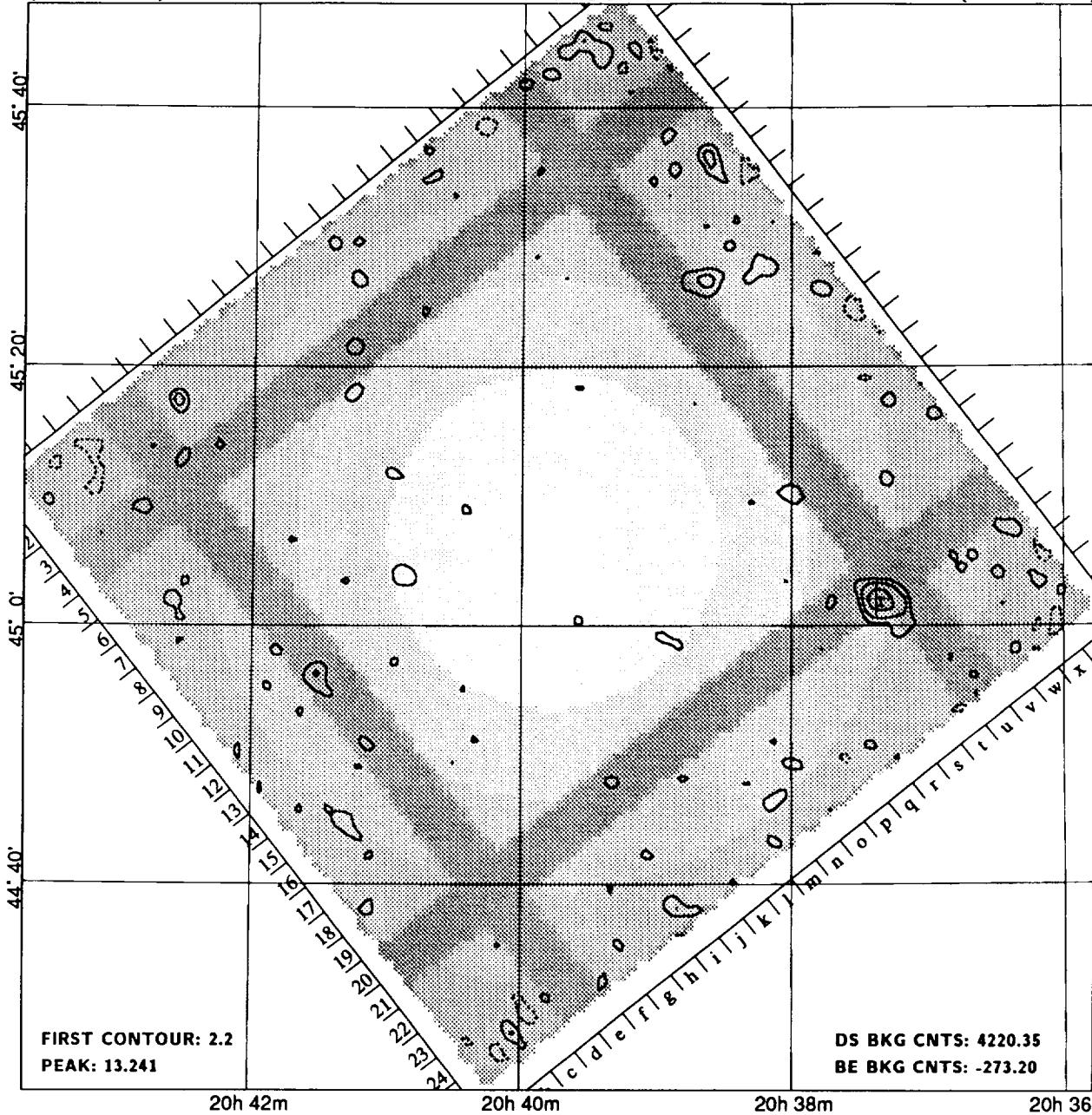
NH: $2.4\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm ''	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4410	1	20 39 14.0	60 19 37	35	0.0221	0.0033	60.3	18.7	6.8	1.1	0	0.7	H	S

(20h 39m)

I 3136

(20h 39m)



CORONAL EMISSION FROM OB SUPERGIANTS: ALPHA CYG

FIELD CENTER: $20^h 39^m 43.8^s$ $45^\circ 06' 05''$ (B1950)
 $20^h 41^m 26.1^s$ $45^\circ 16' 51''$ (J2000)
 $b: 84.29$ $b: 2.00$

DATE: 1979/171 - 1979/328
 LIVETIME: 3419.9s
 ROLL ANGLE: -38.3°

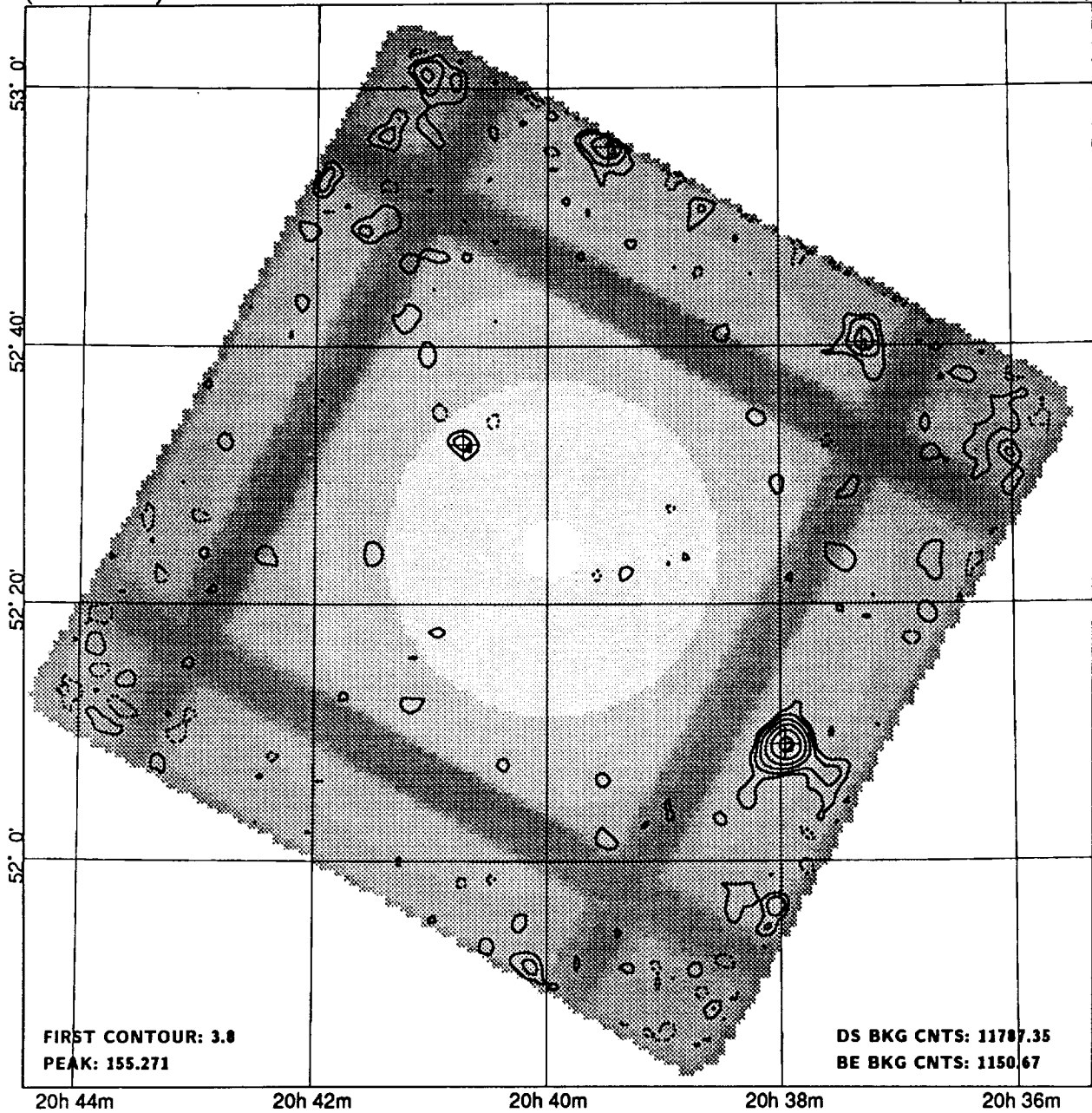
NH: $1.1E+22$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4403	1	20 37 22.6	45 02 03	51	*0.0214	0.0041	30.6	4.4	5.2	1.2	1409	25.5	H

(20h 39m)

I 7874

(20h 39m)



HD 197406, COMPACT COMPANIONS OF SINGLE-LINE WR STARS

FIELD CENTER: $20^{\text{h}}39^{\text{m}}53.9^{\text{s}}$ $52^{\circ}24'32''$ (B1950)
 $20^{\text{h}}41^{\text{m}}21.1^{\text{s}}$ $52^{\circ}35'18''$ (J2000)
 $l: 90.08$ $b: 6.47$

DATE: 1980/143 - 1980/146
 LIVETIME: 9551.6s

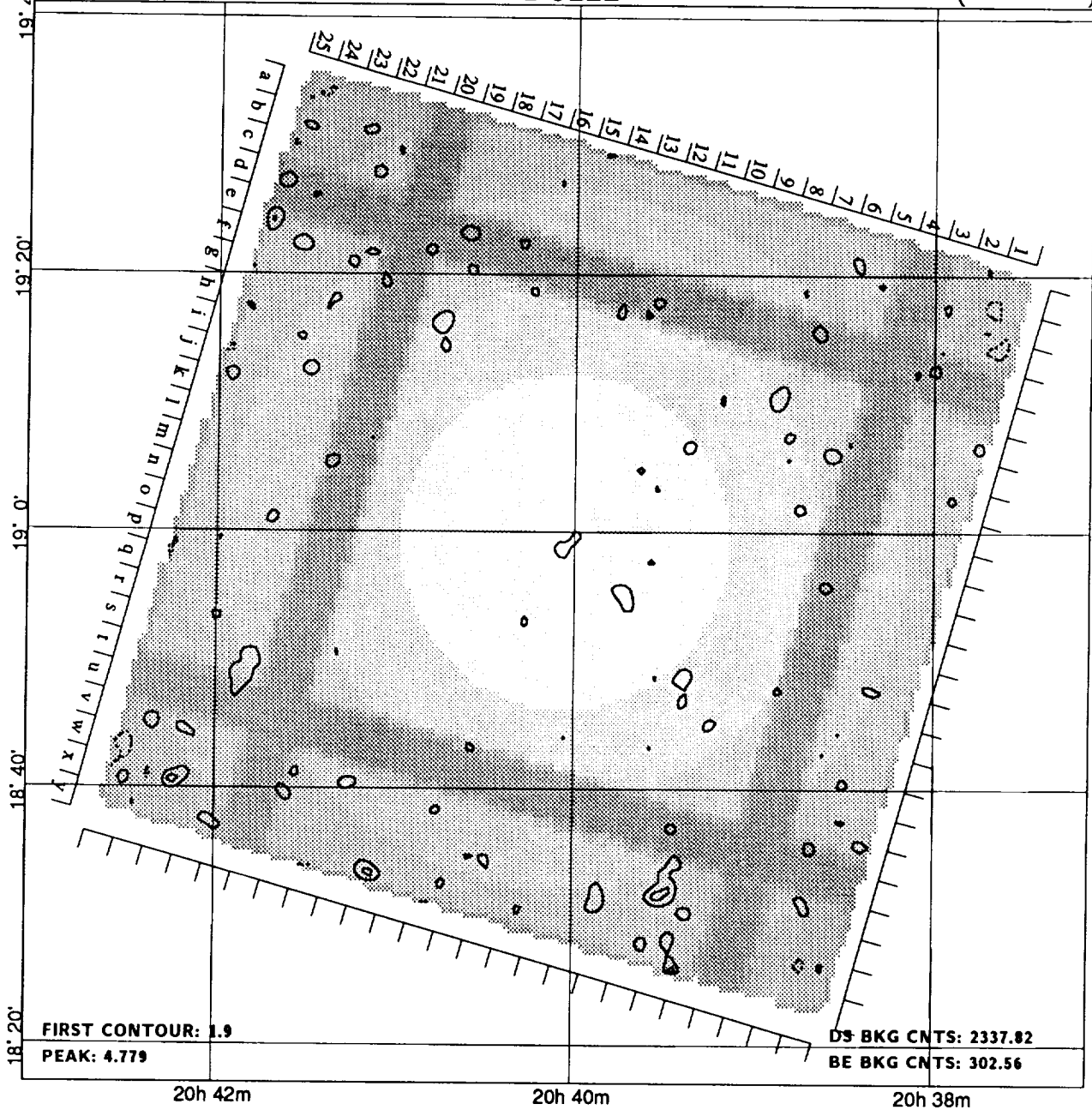
NH: $5.1\text{E}+21$
 REF/ID: S
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4401	1	20 37 17.1	52 40 14	51	0.0120	0.0023	41.6	23.4	5.2	1.2	100	28.5	H
4405	2	20 37 57.6	52 09 06	47	0.0805	0.0045	346.5	21.5	18.1	1.3	0	23.4	H
4411	3	20 39 28.4	52 55 26	50	*0.0189	0.0031	49.3	17.7	6.0	1.2	704	31.3	EH
4414	4	20 40 43.6	52 32 25	42	0.0047	0.0012	29.3	28.7	3.8	0.6	0	11.1	

(20h 40m)

I 5222

(20h 40m)



NOVA HR DEL,X-RAYS FROM RECENT NOVAE

FIELD CENTER: 20^h40^m05.8^s 18°58'58" (B1950)
 20^h42^m22.0^s 19°09'46" (J2000)
l: 63.44 *b*: -13.98

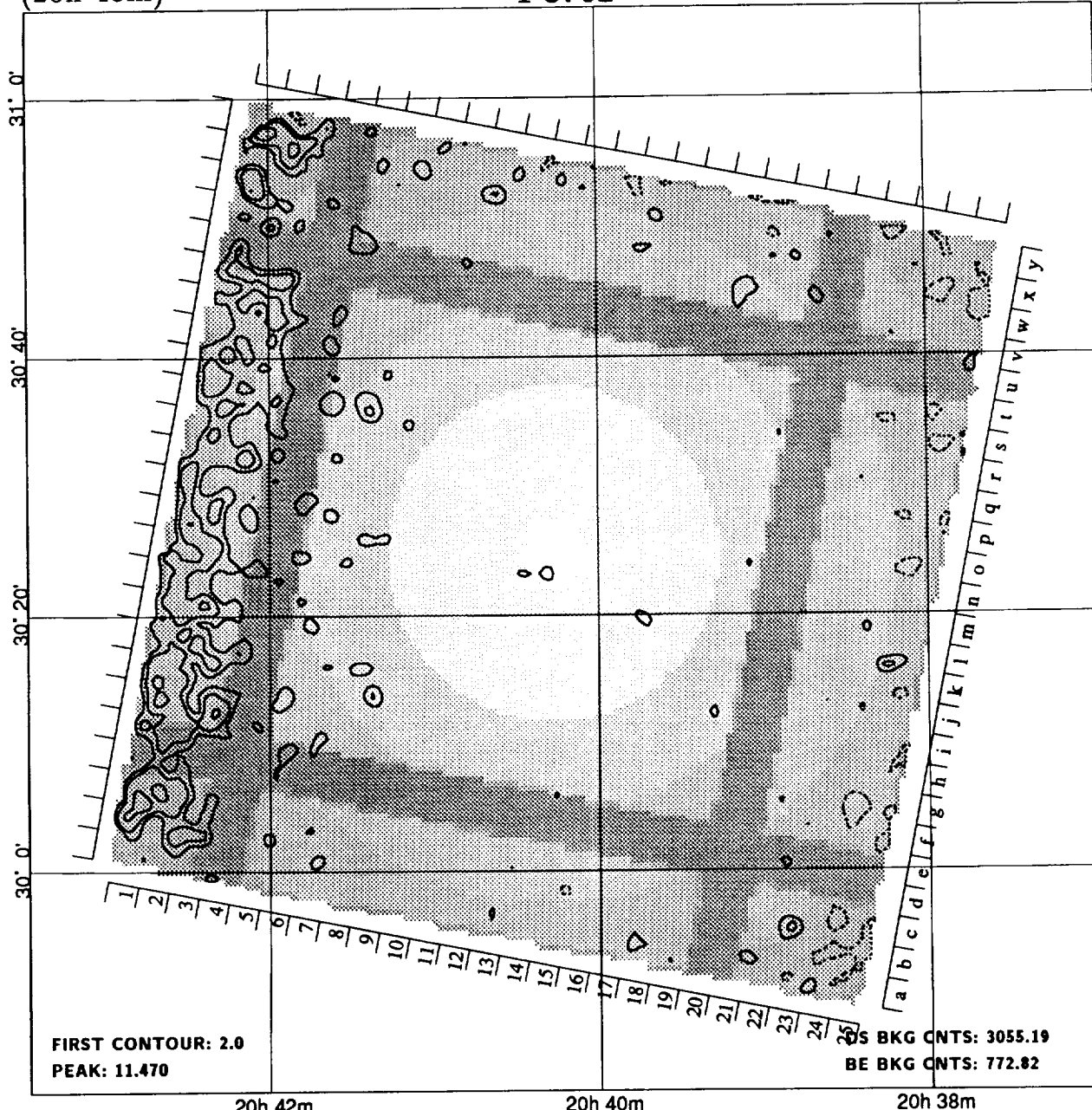
DATE: 1979/311 - 1979/311
 LIVETIME: 1894.4s
 ROLL ANGLE: 105.7°

NH: 7.4E+20
 REF/ID:
 FIELD FLAGS:

(20h 40m)

I 3762

(20h 40m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: 20^h40^m12.8^s 30°24'59" (B1950)
 20^h42^m16.6^s 30°35'48" (J2000)
 l : 72.76 b : -7.13

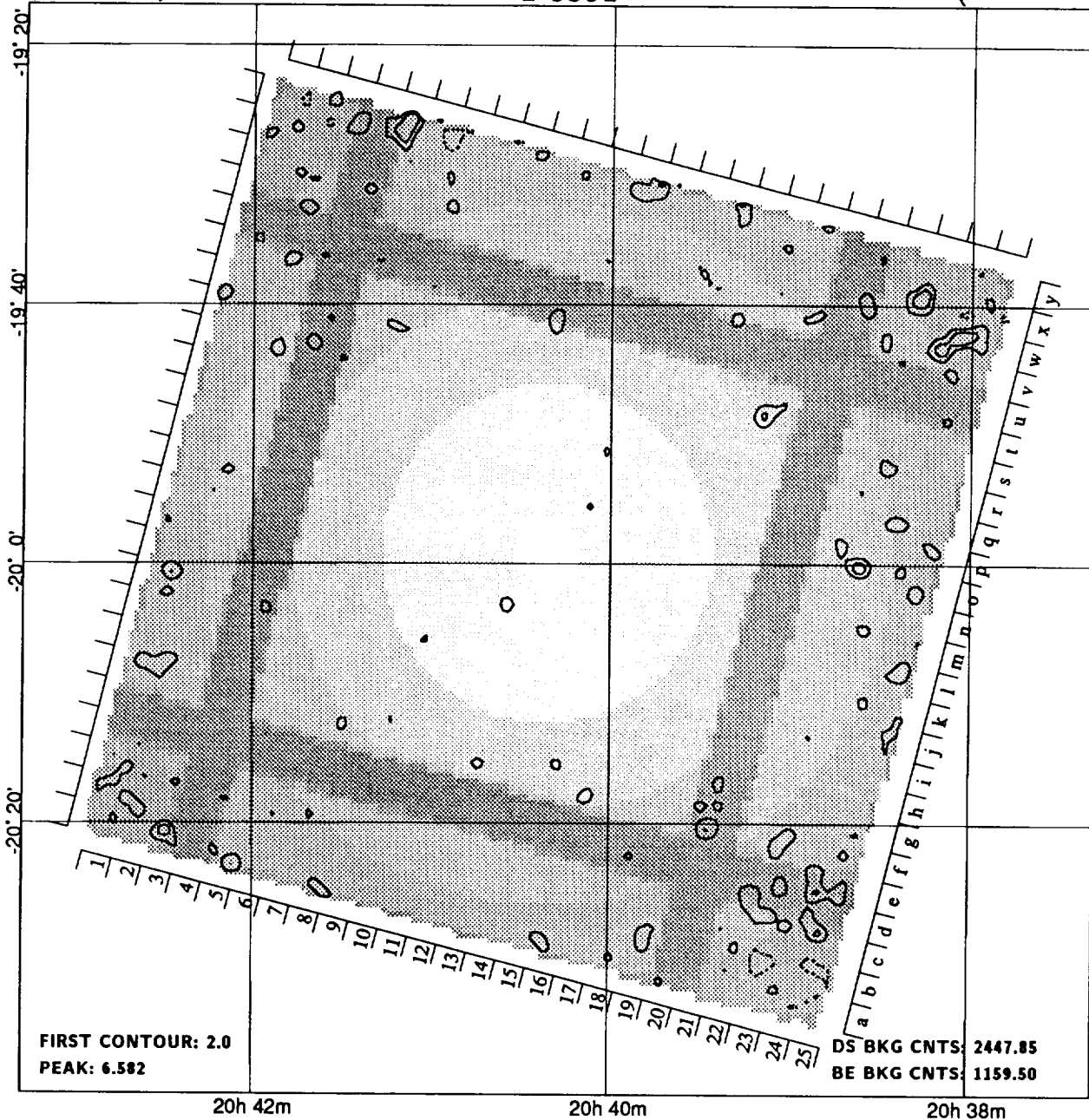
DATE: 1979/120 - 1979/120
 LIVETIME: 2475.7s
 ROLL ANGLE: -79.0°

NH: 2.2E+21
 REF/ID:
 FIELD FLAGS: DS

(20h 40m)

I 8391

(20h 40m)



CLUSTER 597, ADDITIONAL SOUTHERN HIGH REDSHIFT CLUSTERS

FIELD CENTER: $20^{\text{h}}40^{\text{m}}17.8^{\text{s}}$ $-19^{\circ}58'59''$ (B1950)
 $20^{\text{h}}43^{\text{m}}10.0^{\text{s}}$ $-19^{\circ}48'09''$ (J2000)
 $l: 26.03$ $b: -33.14$

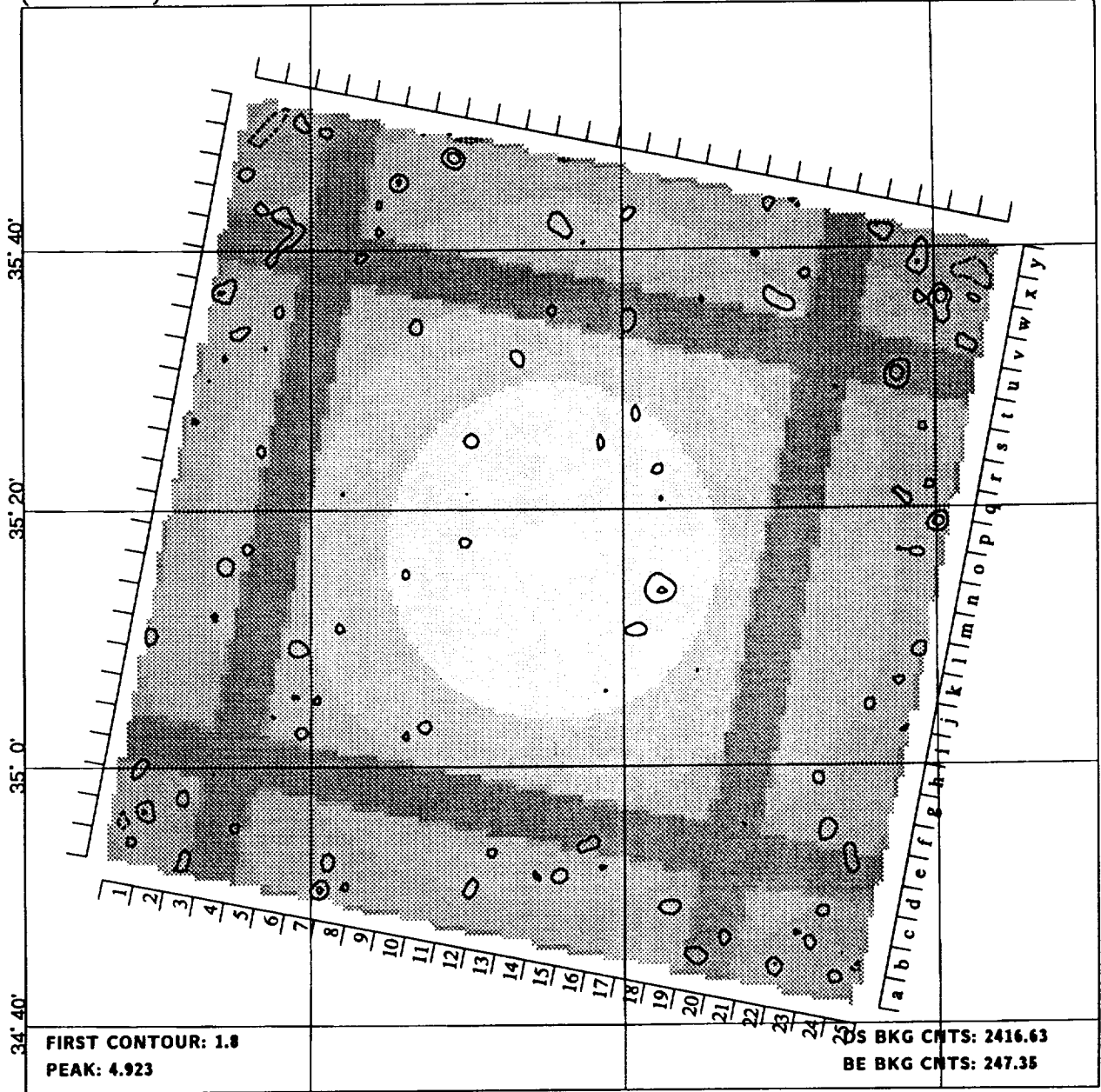
DATE: 1980/132 - 1980/132
 LIVETIME: 2054.8s
 ROLL ANGLE: -75.6°

NH: $3.8\text{E}+20$
 REF/ID:
 FIELD FLAGS: L

(20h 40m)

I 6812

(20h 40m)



FIRST CONTOUR: 1.8
 PEAK: 4.923

DS BKG CNTS: 2416.63
 BE BKG CNTS: 247.35

20h 42m

20h 40m

20h 38m

OB RUNAWAYS: HD 197419

FIELD CENTER: 20^h40^m23.7^s 35°16'59" (B1950)
 20^h42^m21.4^s 35°27'48" (J2000)
 l : 76.64 b : -4.17

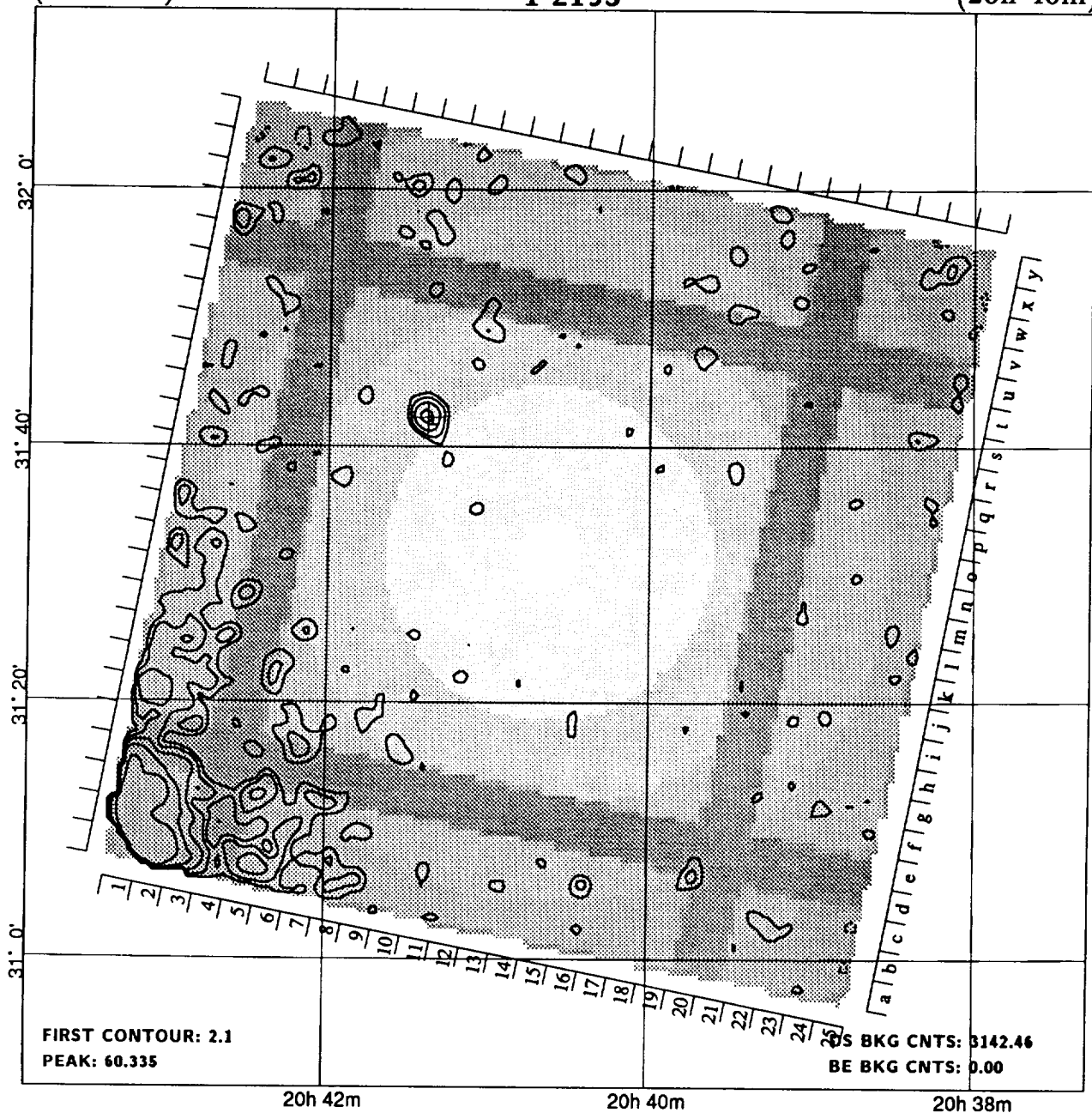
DATE: 1980/121 - 1980/121
 LIVETIME: 2028.6s
 ROLL ANGLE: -78.9°

NH: 4.6E+21
 REF/ID:
 FIELD FLAGS:

(20h 40m)

I 2195

(20h 40m)



FIRST CONTOUR: 2.1
 PEAK: 60.335

DS BKG CNTS: 3142.46
 BE BKG CNTS: 0.00

20h 42m

20h 40m

20h 38m

X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: $20^{\text{h}}40^{\text{m}}33.9^{\text{s}}$ $31^{\circ}31'58''$ (B1950)
 $20^{\text{h}}42^{\text{m}}36.4^{\text{s}}$ $31^{\circ}42'48''$ (J2000)
 $l: 73.69$ $b: -6.51$

DATE: 1980/120 - 1980/120
 LIVETIME: 2546.4s
 ROLL ANGLE: -79.0°

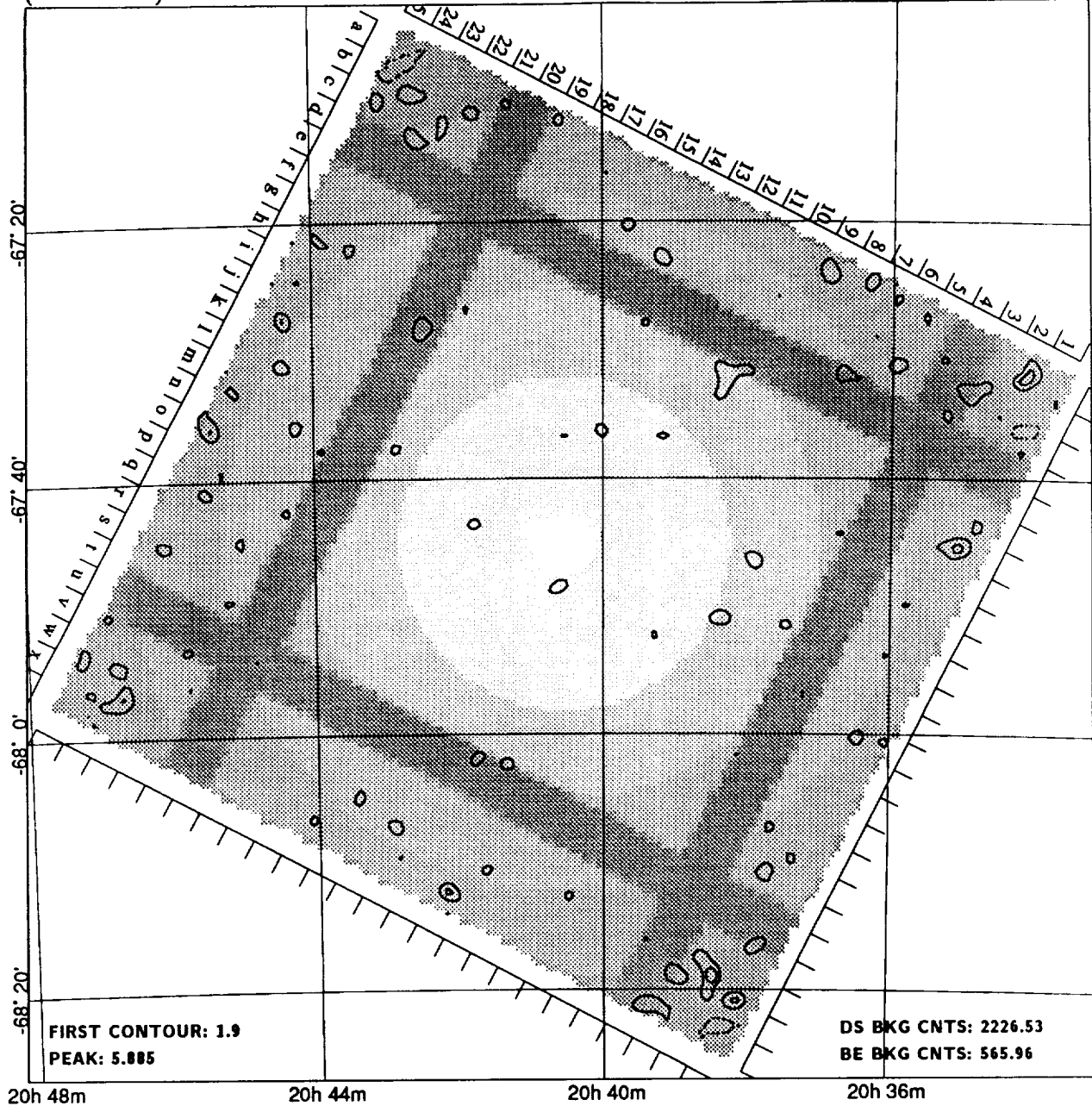
NH: $2.8\text{E}+21$
 REF/ID:
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	FLG
4415	1L	20 41 23.2	31 42 16	41	0.0391	0.0059	59.9	5.1	6.5	0.9	0	14.7	A	

(20h 40m)

I 1859

(20h 40m)



X-RAY STUDY OF CLUSTERS OF GALAXIES

FIELD CENTER: $20^{\text{h}}40^{\text{m}}35.8^{\text{s}}$ $-67^{\circ}44'59''$ (B1950)
 $20^{\text{h}}45^{\text{m}}12.8^{\text{s}}$ $-67^{\circ}34'05''$ (J2000)
 $l: 327.33$ $b: -35.68$

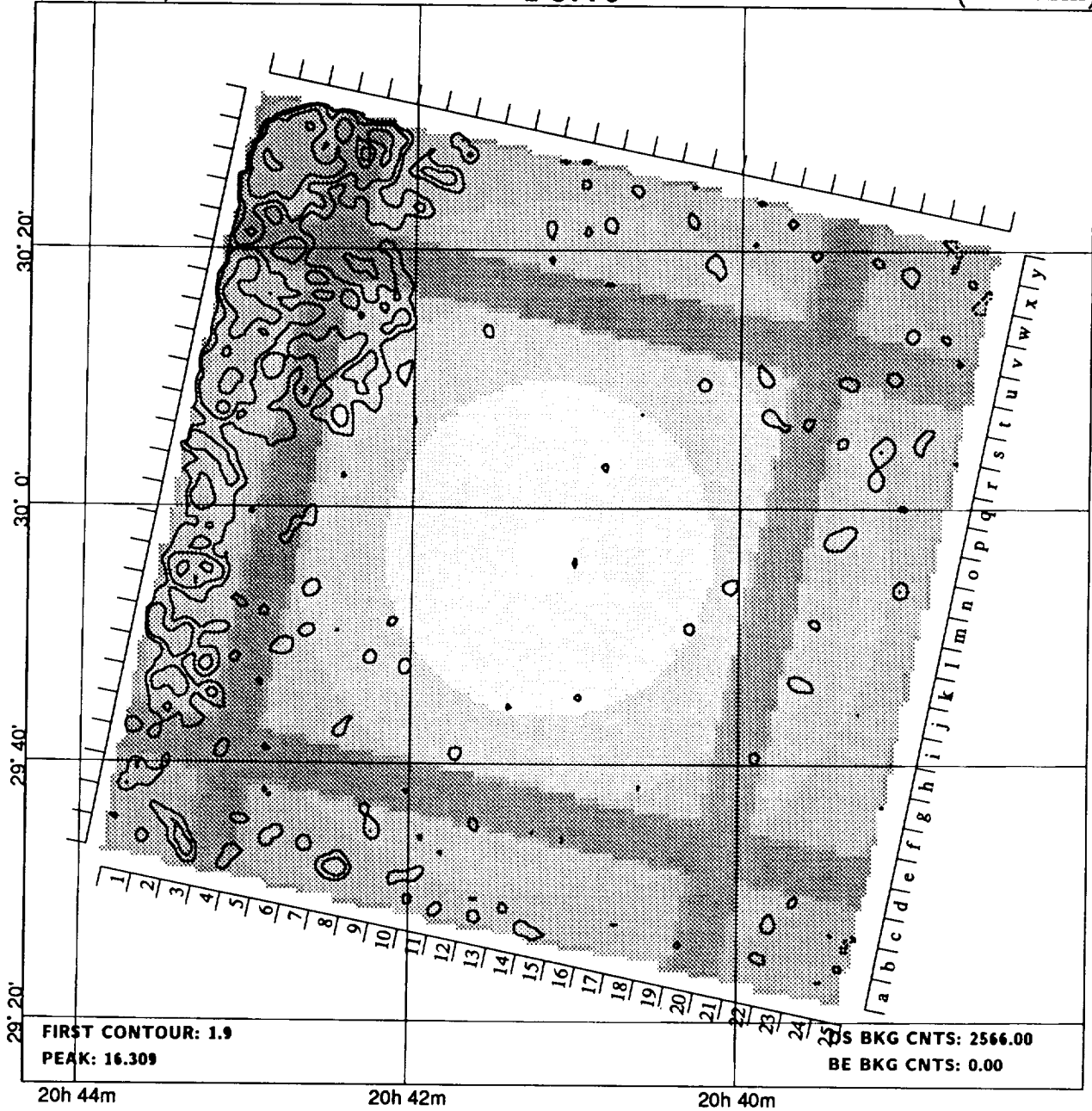
DATE: 1979/280 - 1979/280
 LIVETIME: 1804.2s
 ROLL ANGLE: 117.5°

NH: $3.9\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(20h 41m)

I 3770

(20h 41m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}41^{\text{m}}06.7^{\text{s}}$ $29^{\circ}56'59''$ (B1950)
 $20^{\text{h}}43^{\text{m}}11.2^{\text{s}}$ $30^{\circ}07'51''$ (J2000)
 $l: 72.51$ $b: -7.57$

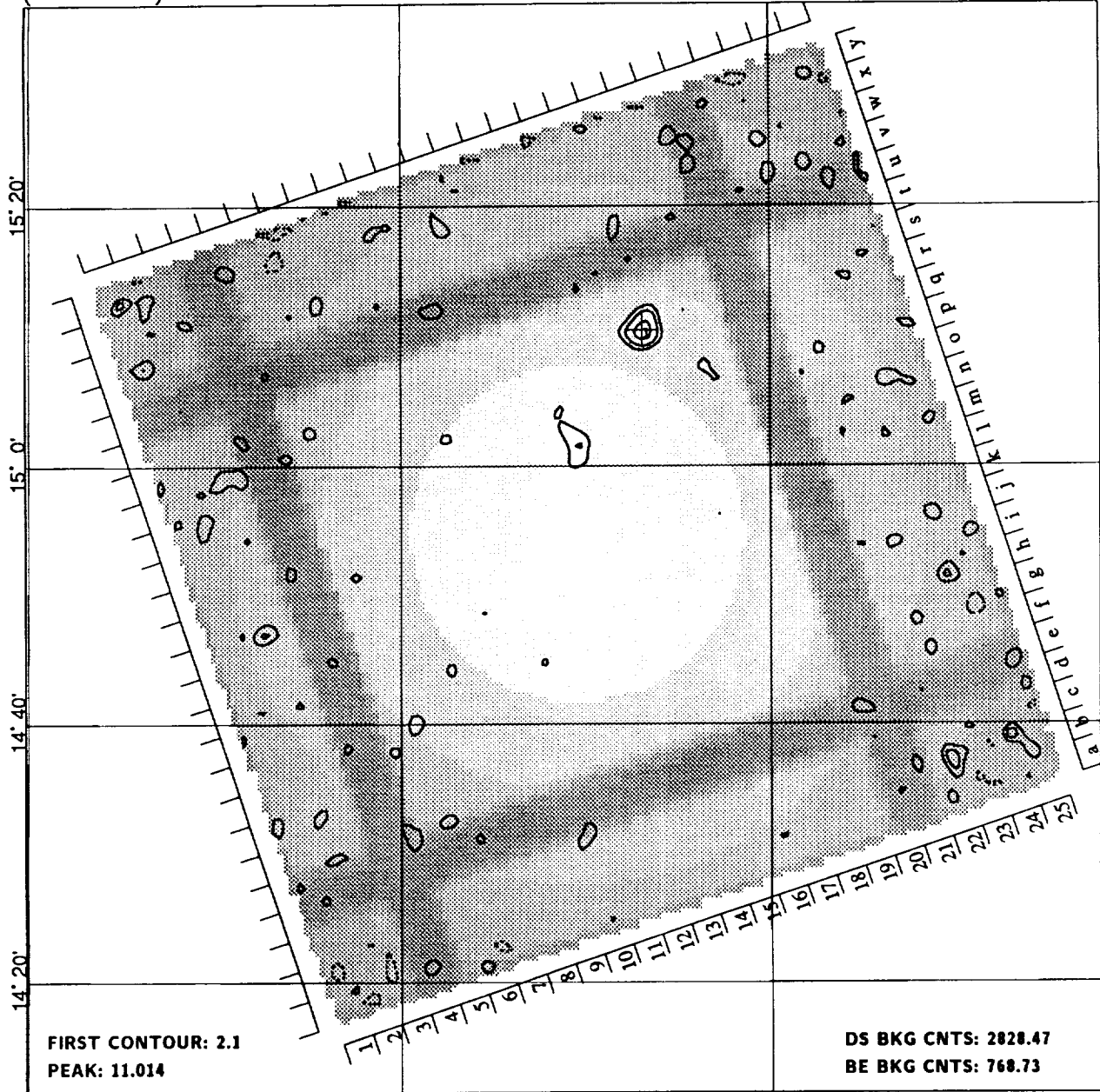
DATE: 1979/120 - 1979/120
 LIVETIME: 2079.3s
 ROLL ANGLE: -78.5°

NH: $2.3\text{E}+21$
 REF/ID:
 FIELD FLAGS: LS

(20h 41m)

I 8923

(20h 41m)



20h 44m

20h 42m

20h 40m

DELTA DEL, EMISSION FROM DELTA SCUTI STARS

FIELD CENTER: $20^{\text{h}}41^{\text{m}}07.2^{\text{s}}$ $14^{\circ}53'37''$ (B1950)
 $20^{\text{h}}43^{\text{m}}27.4^{\text{s}}$ $15^{\circ}04'29''$ (J2000)
 $l: 60.14$ $b: -16.55$

DATE: 1981/109 - 1981/110
 LIVETIME: 2292.0s
 ROLL ANGLE: -108.5°

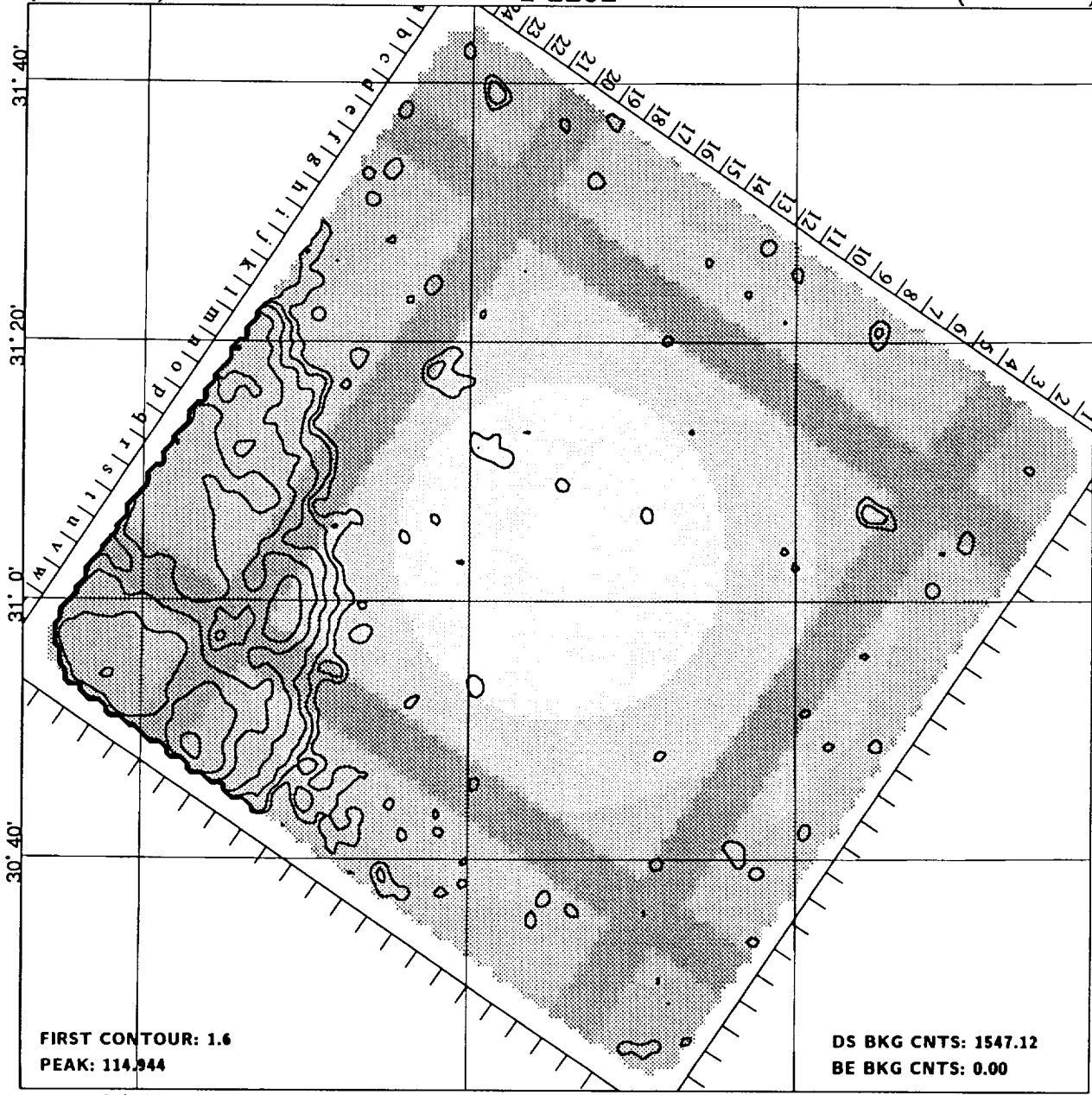
NH: $7.1\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4413	1	20 40 41.5	15 10 23	51	0.0271	0.0050	35.3	6.7	5.5	1.0	0	17.7	H

(20h 41m)

I 2202

(20h 41m)



FIRST CONTOUR: 1.6
PEAK: 114,944

DS BKG CNTS: 1547.12
BE BKG CNTS: 0.00

20h 44m 20h 42m 20h 40m

X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: 20^h41^m27.8^s 31°04'01" (B1950)
20^h43^m31.0^s 31°14'53" (J2000)
l: 73.44 *b*: -6.94

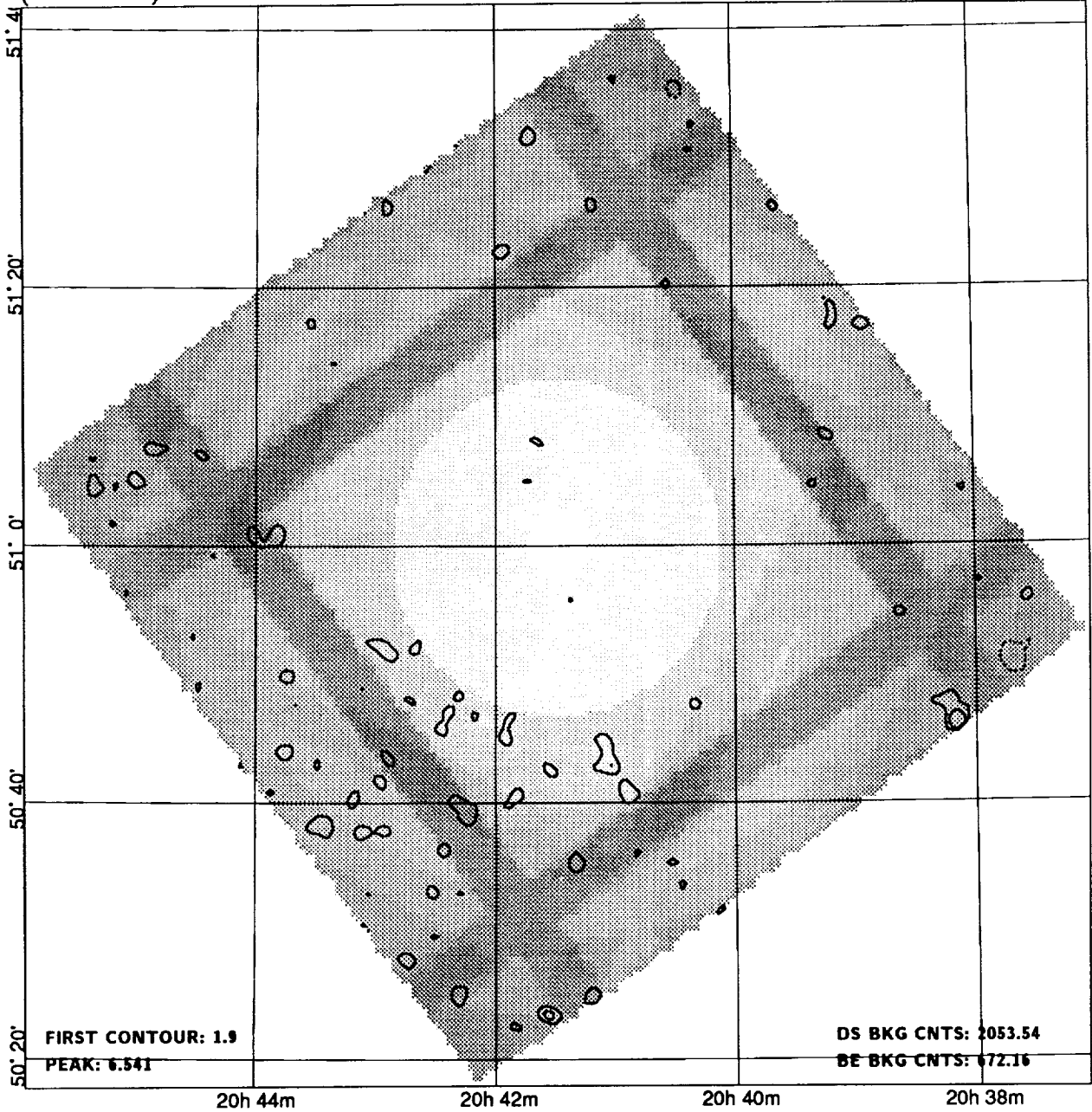
DATE: 1979/337 - 1979/337
LIVETIME: 1253.7s
ROLL ANGLE: 124.0°

NH: 2.4E+21
REF/ID:
FIELD FLAGS: LS

(20h 41m)

I 2180

(20h 41m)



X-RAY STUDY OF SUPERNOVA REMNANTS: G89.0+4.7=HB21

FIELD CENTER: $20^{\text{h}}41^{\text{m}}28.9^{\text{s}}$ $50^{\circ}59'59''$ (B1950)
 $20^{\text{h}}42^{\text{m}}59.8^{\text{s}}$ $51^{\circ}10'51''$ (J2000)
 $l: 89.12$ $b: 5.41$

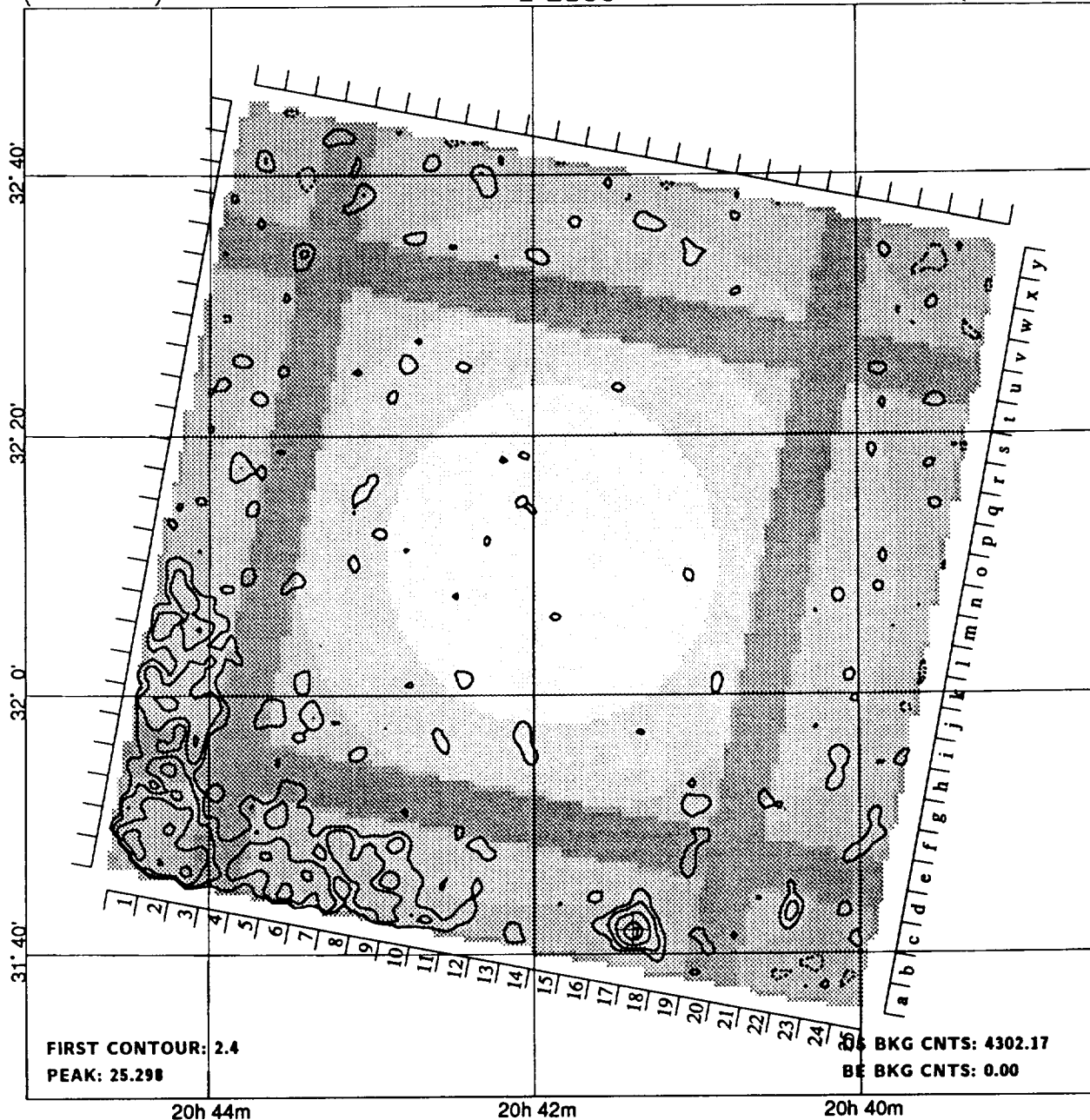
DATE: 1979/145 - 1979/353
 LIVETIME: 1664.0s

NH: $7.0\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(20h 41m)

I 2188

(20h 41m)



X-RAY STUDY OF SUPERNOVA REMNANTS:CYGNUS LOOP

FIELD CENTER: 20^h41^m49.7^s 32°10'58" (B1950)
 20^h43^m51.5^s 32°21'52" (J2000)
l: 74.37 *b*: -6.32

DATE: 1980/120 - 1980/120
 LIVETIME: 3486.2s
 ROLL ANGLE: -79.4°

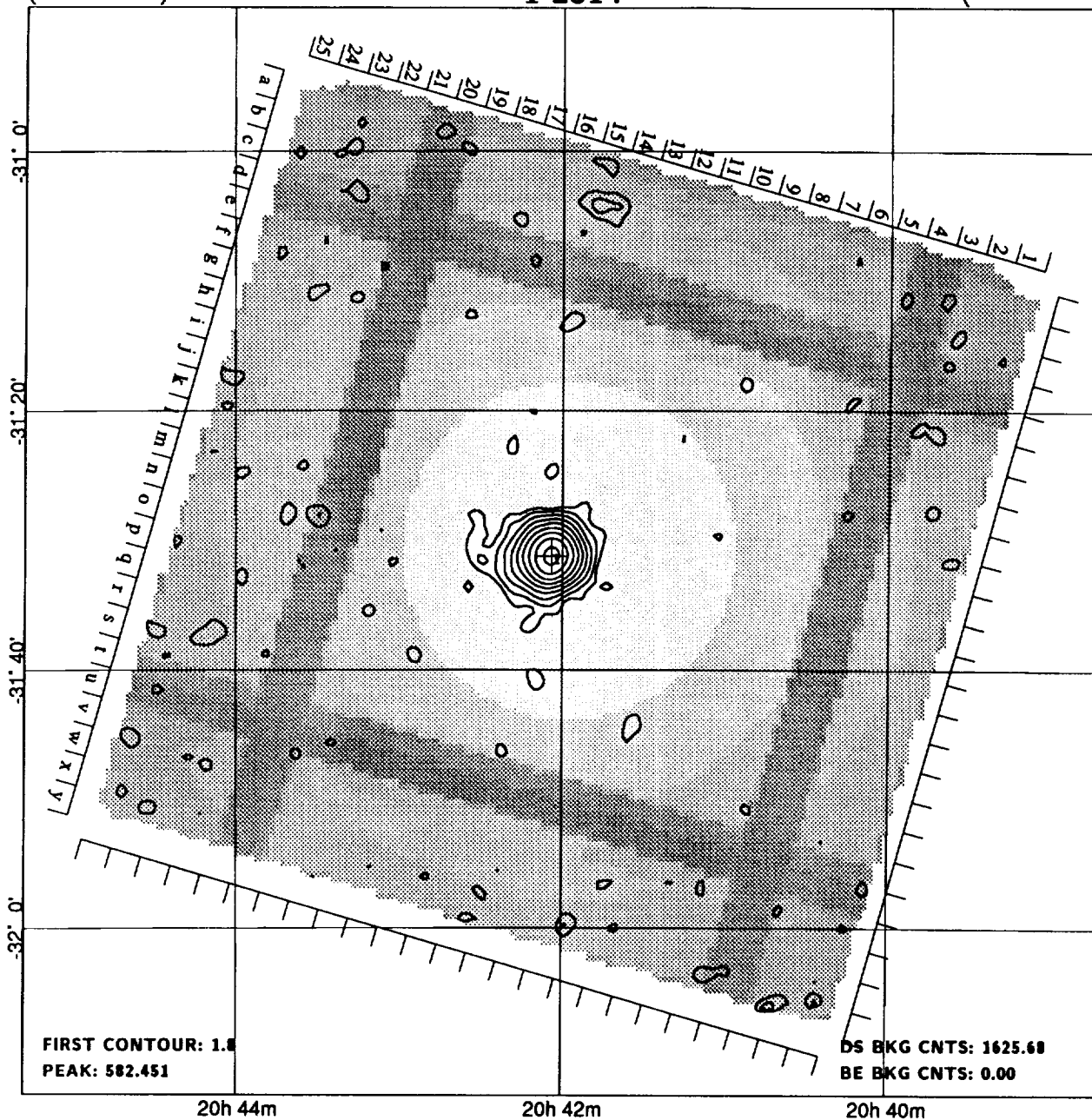
NH: 2.9E+21
 REF/ID:
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4415	1L	20 41 23.5	31 41 52	50	0.0375	0.0069	47.0	10.0	5.3	1.2	0	29.5	A

(20h 41m)

I 2314

(20h 41m)



AU MIC=HD19748: STELLAR SURVEY: RS CVN AND BY DRA STARS

FIELD CENTER: 20^h41^m59.8^s -31°30'59" (B1950)
 20^h45^m04.4^s -31°20'03" (J2000)
 l : 12.66 b : -36.78

DATE: 1979/298 - 1979/298
 LIVETIME: 1317.3s
 ROLL ANGLE: 106.0°

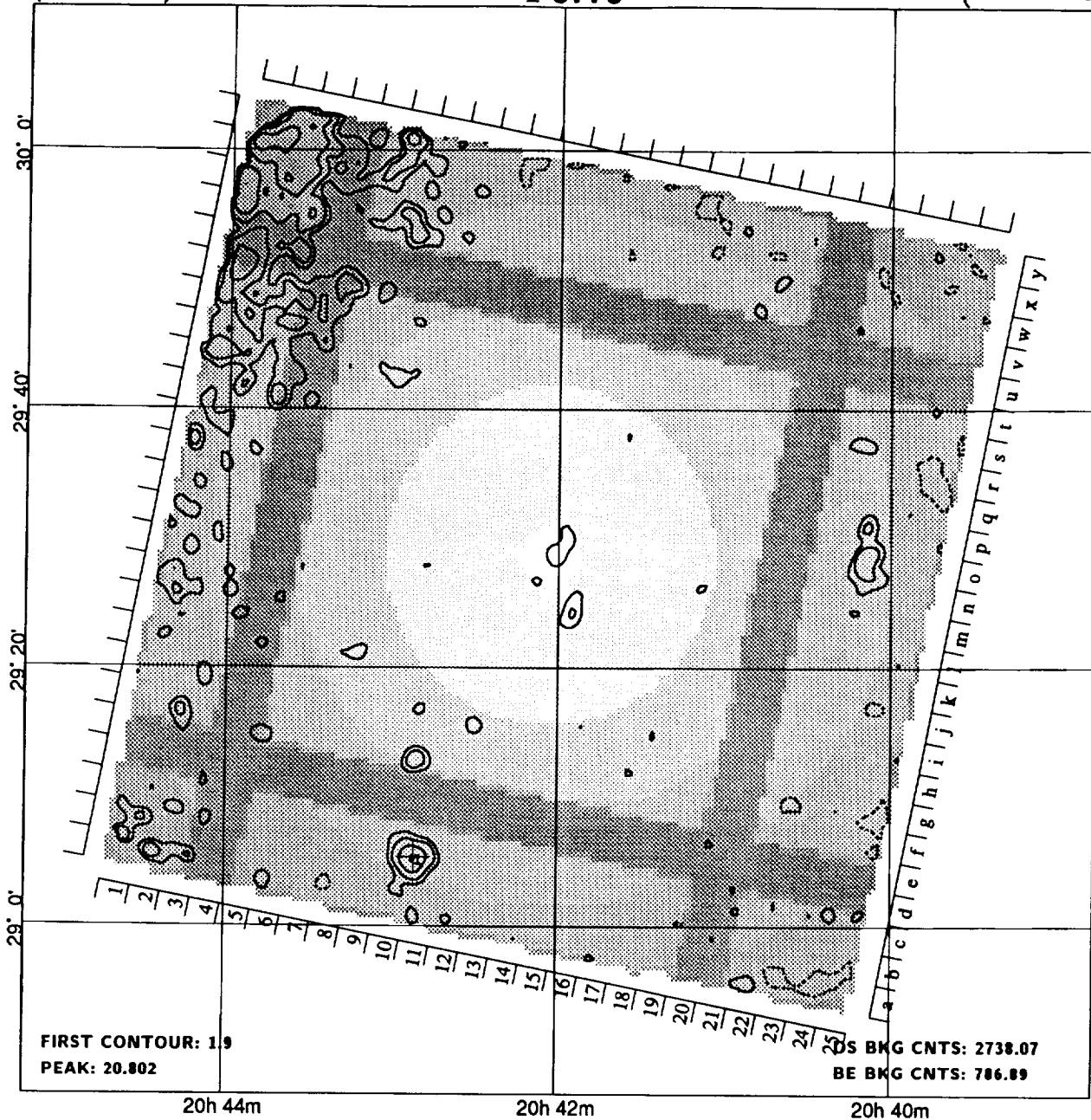
NH: 5.4E+20
 REF/ID: !
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE ±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4416	1L	20 42 04.0	-31 31 13	31	2.286 0.058	2232.0	291.0	39.0	1.3	0	0.9	S

(20h 41m)

I 3778

(20h 41m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}41^{\text{m}}59.8^{\text{s}}$ $29^{\circ}28'59''$ (B1950)
 $20^{\text{h}}44^{\text{m}}04.8^{\text{s}}$ $29^{\circ}39'54''$ (J2000)
 $l: 72.25$ $b: -8.01$

DATE: 1979/120 - 1979/120
 LIVETIME: 2218.7s
 ROLL ANGLE: -78.9°

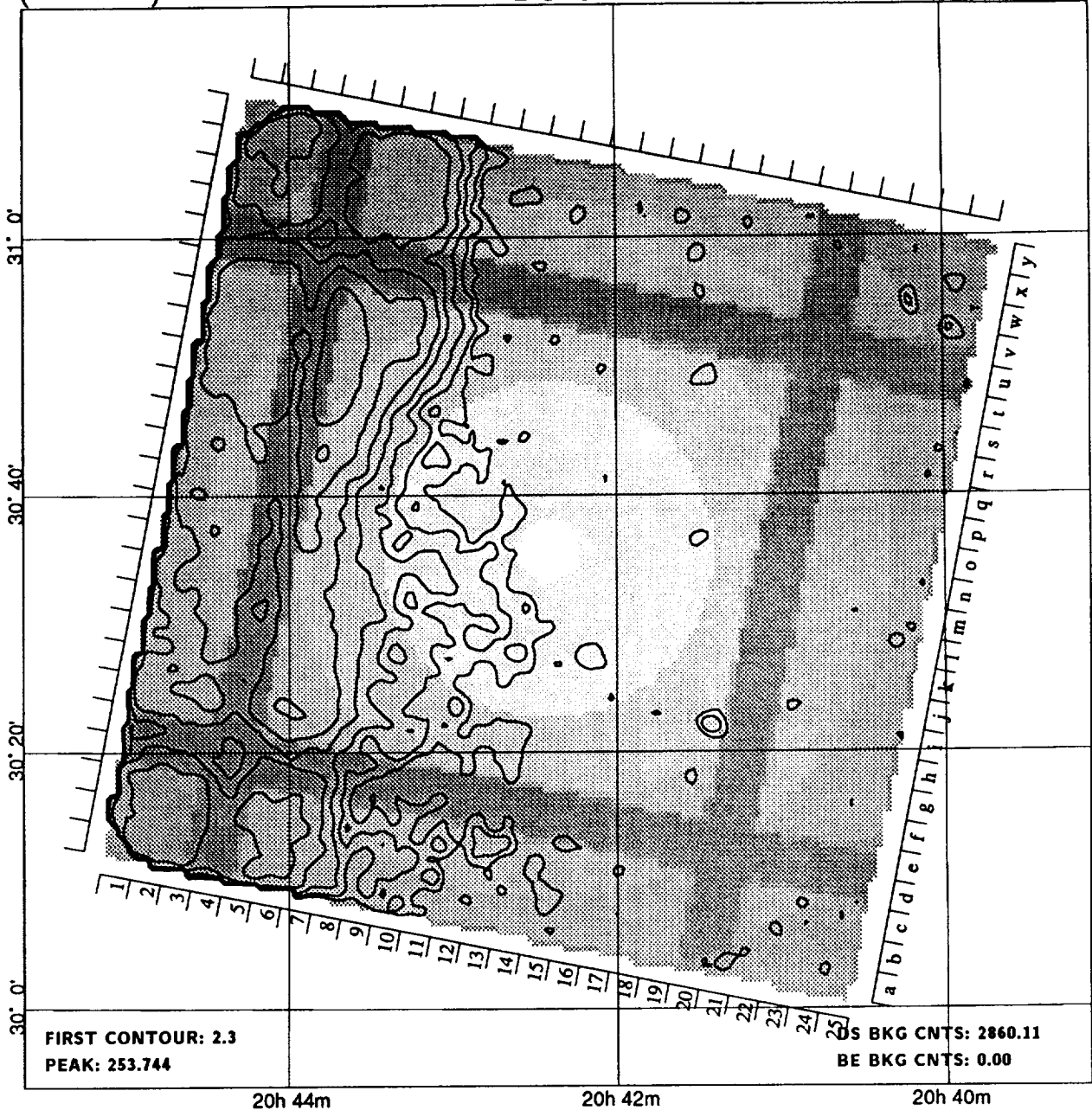
NH: $2.0\text{E}+21$
 REF/ID:
 FIELD FLAGS: DS

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4417	1	20 42 51.6	29 05 21	51	0.0337	0.0065	31.4	5.6	5.2	1.1	0	26.1	AH

(20h 42m)

I 3761

(20h 42m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^h 42^m 21.7^s$ $30^\circ 35' 59''$ (B1950)
 $20^h 44^m 25.5^s$ $30^\circ 46' 55''$ (J2000)
 $l: 73.19$ $b: -7.38$

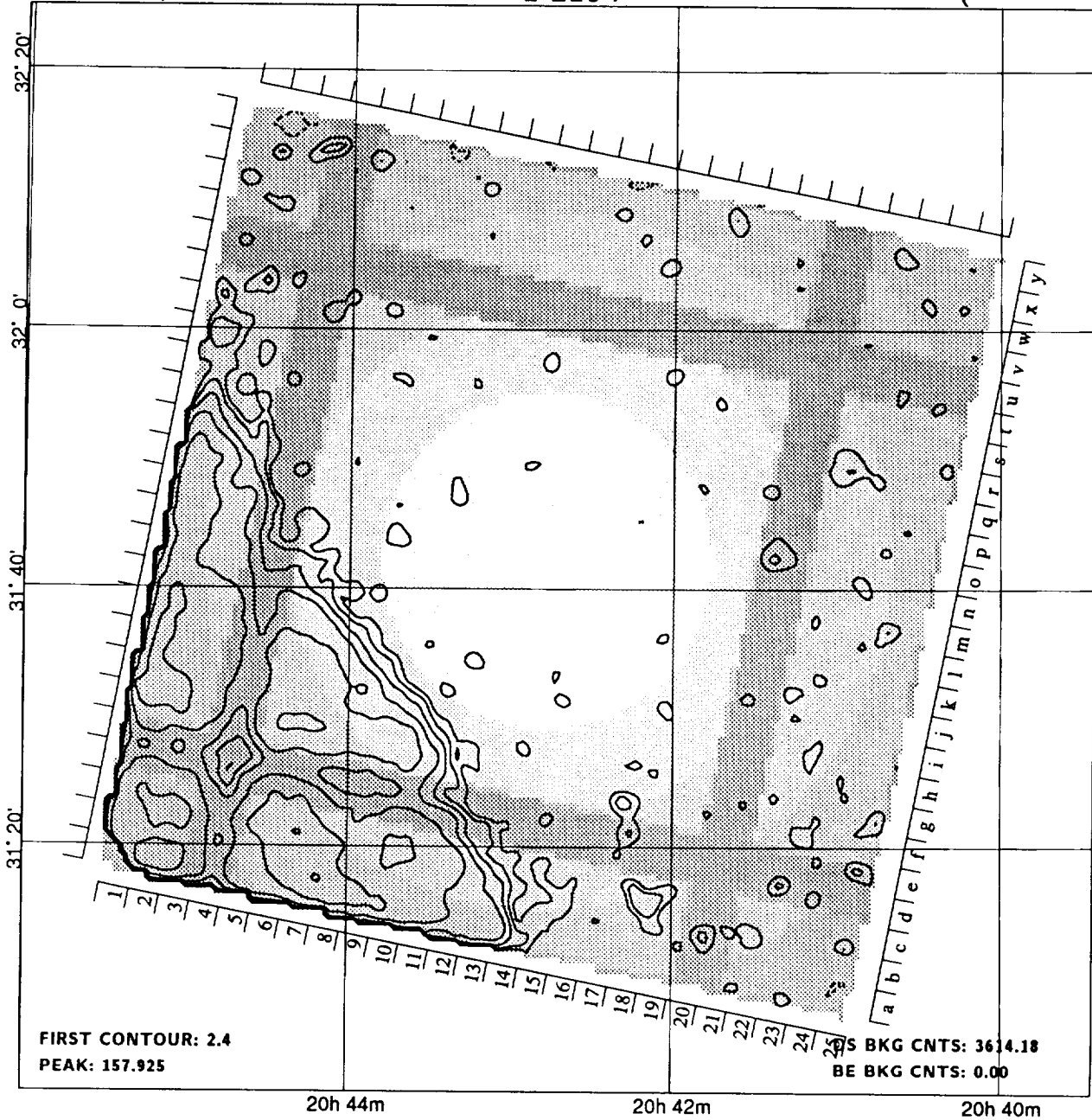
DATE: 1979/120 - 1979/120
LIVETIME: 2317.6s
ROLL ANGLE: -78.9°

NH: $2.2E+21$
REF/ID:
FIELD FLAGS: DLST

(20h 42m)

I 2194

(20h 42m)



X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: $20^{\text{h}}42^{\text{m}}42.8^{\text{s}}$ $31^{\circ}43'01''$ (B1950)
 $20^{\text{h}}44^{\text{m}}45.3^{\text{s}}$ $31^{\circ}53'57''$ (J2000)
 $l: 74.12$ $b: -6.75$

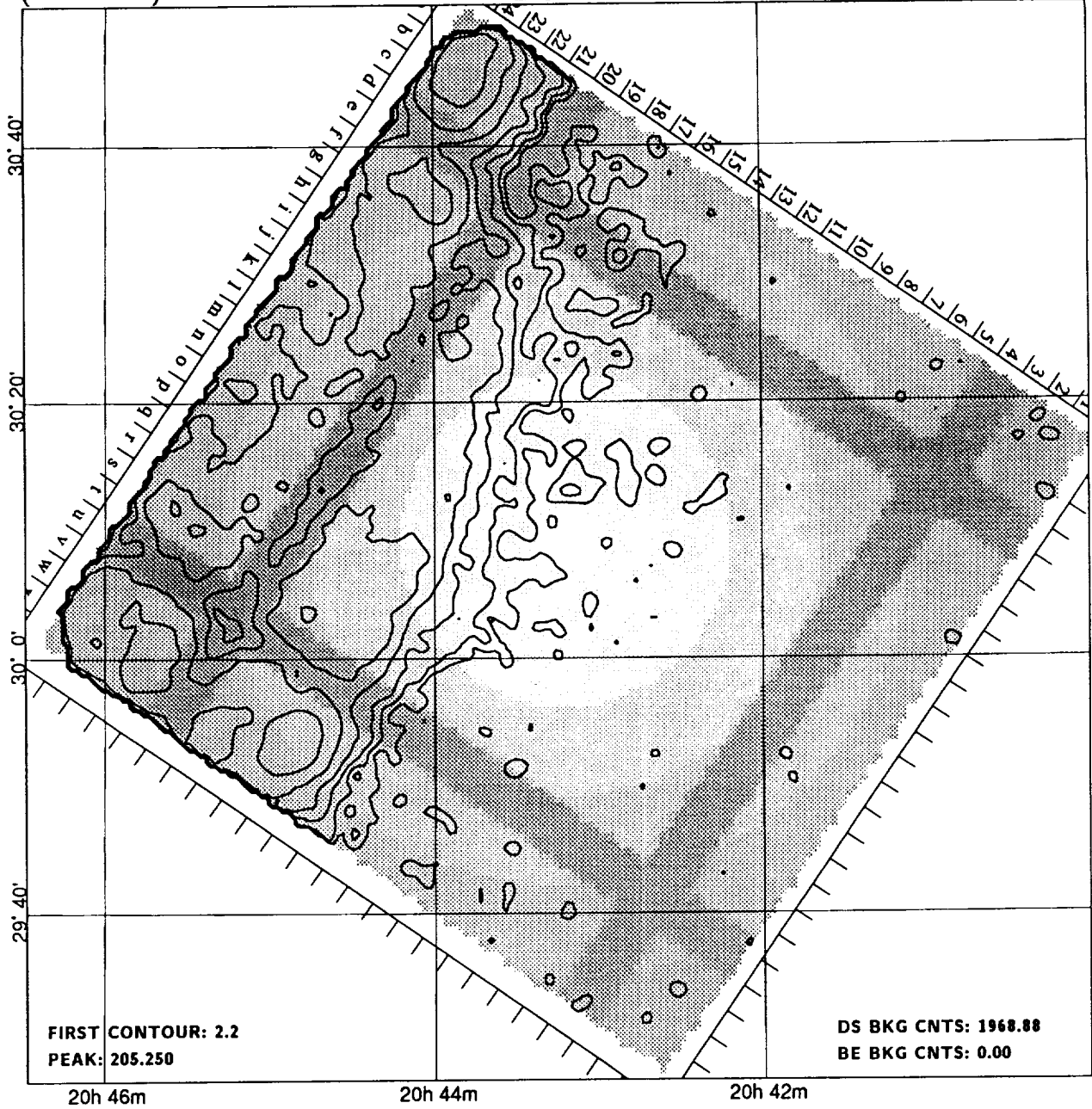
DATE: 1980/121 - 1980/121
 LIVETIME: 2928.7s
 ROLL ANGLE: -79.0°

NH: $2.7\text{E}+21$
 REF/ID:
 FIELD FLAGS: DLS

(20h 43m)

I 3769

(20h 43m)



FIRST CONTOUR: 2.2
 PEAK: 205.250

DS BKG CNTS: 1968.88
 BE BKG CNTS: 0.00

20h 46m 20h 44m 20h 42m

CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: 20^h43^m14.8^s 30°08'59" (B1950)
 20^h45^m19.2^s 30°19'58" (J2000)
l: 72.95 *b*: -7.81

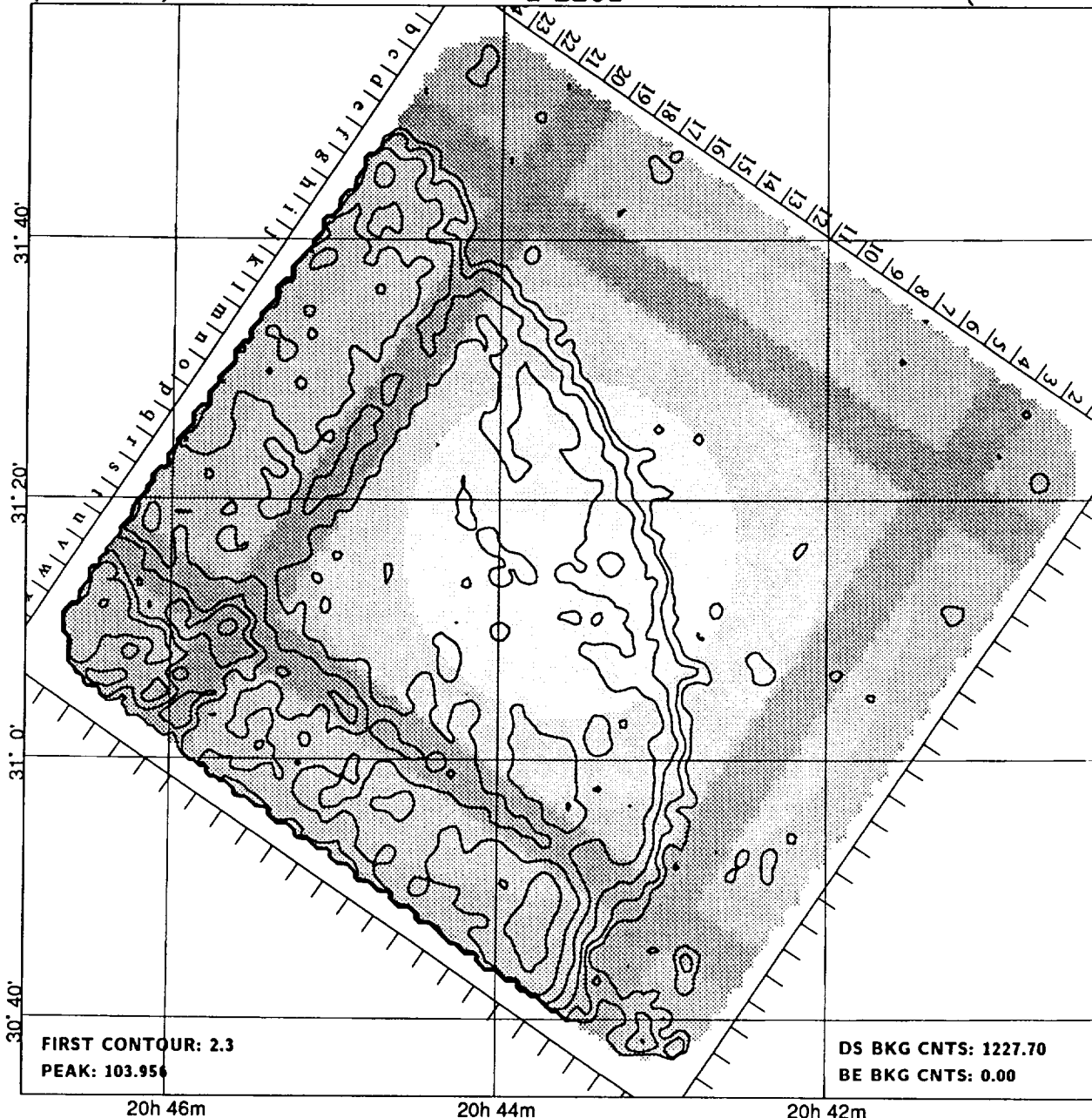
DATE: 1979/338 - 1979/338
 LIVETIME: 1595.4s
 ROLL ANGLE: 124.5°

NH: 2.1E+21
 REF/ID:
 FIELD FLAGS: DLST

(20h 43m)

I 2201

(20h 43m)



X-RAY STUDY OF SUPERNOVA REMNANTS:CYGNUS LOOP

FIELD CENTER: 20^h43^m36.7^s 31°16'01" (B1950)
 20^h45^m39.9^s 31°27'00" (J2000)
 l : 73.89 b : -7.18

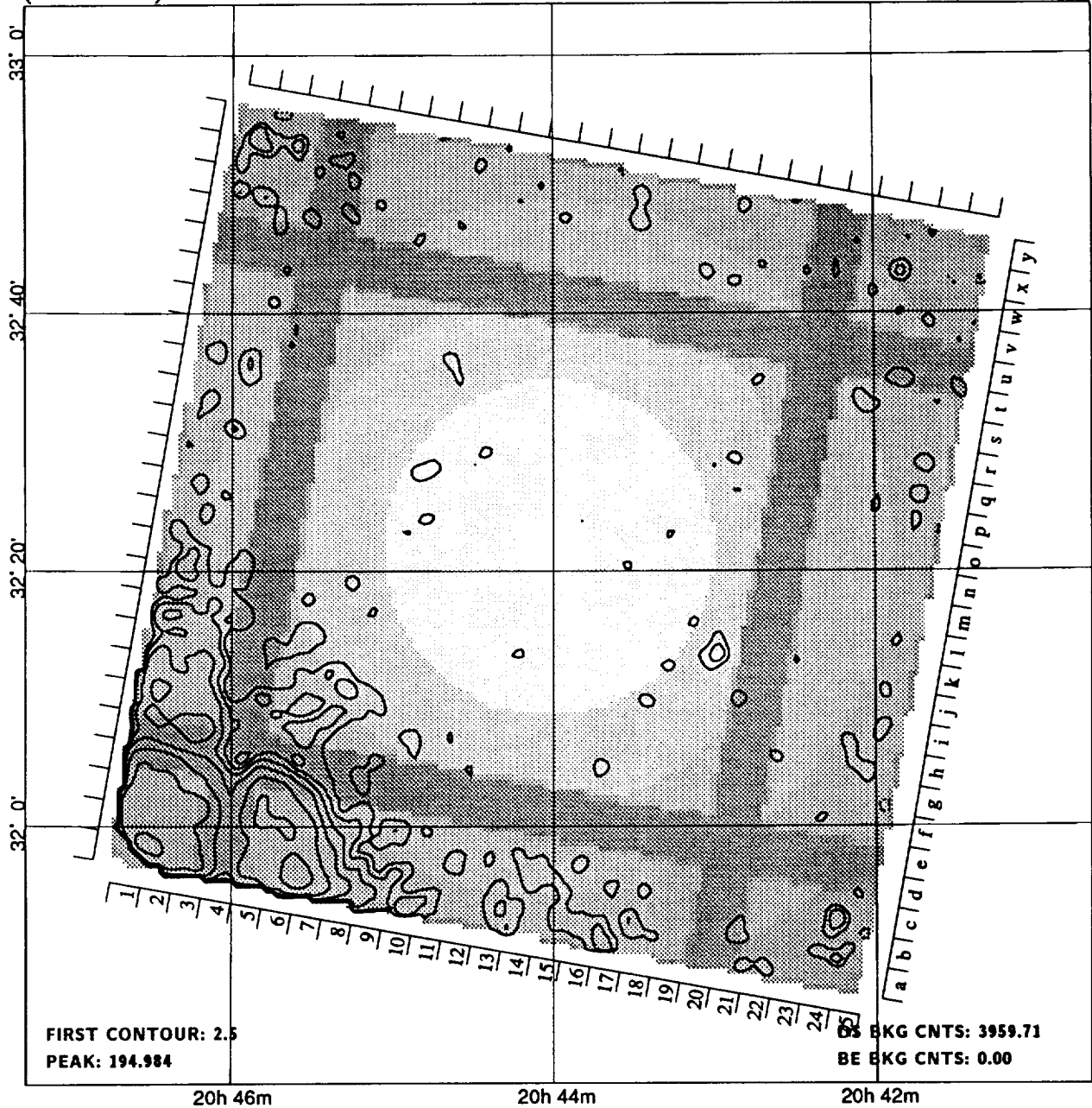
DATE: 1979/337 - 1979/337
 LIVETIME: 994.8s
 ROLL ANGLE: 124.1°

NH: 2.3E+21
 REF/ID: !
 FIELD FLAGS: DLST

(20h 43m)

I 2187

(20h 43m)



X-RAY STUDY OF SUPERNOVA REMNANTS:CYGNUS LOOP

FIELD CENTER: 20^h43^m57.8^s 32°22'00" (B1950)
 20^h45^m59.7^s 32°33'01" (J2000)
 l : 74.80 b : -6.56

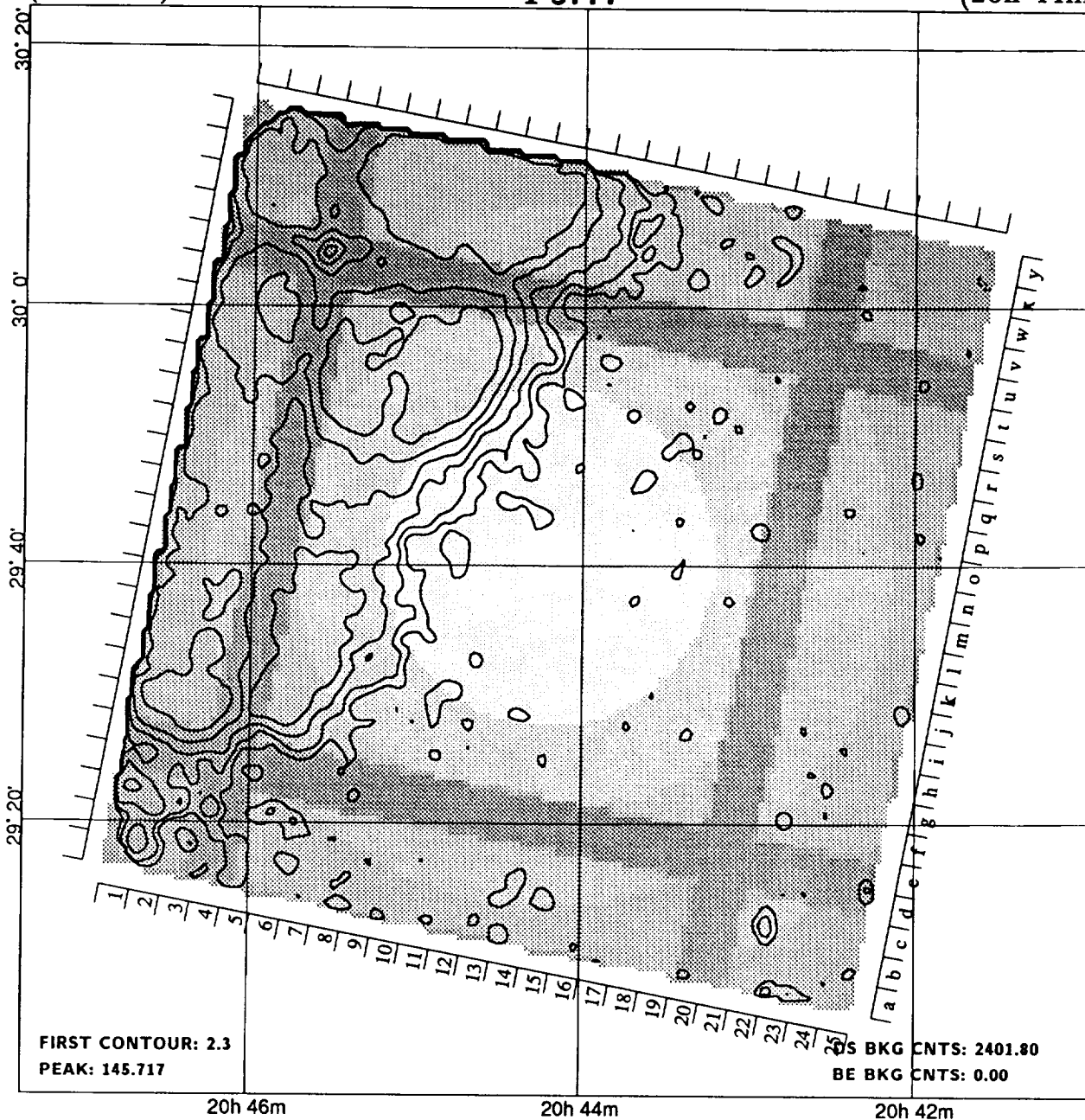
DATE: 1980/120 - 1980/120
 LIVETIME: 3208.7s
 ROLL ANGLE: -79.9°

NH: 2.7E+21
 REF/ID:
 FIELD FLAGS: DLS

(20h 44m)

I 3777

(20h 44m)



FIRST CONTOUR: 2.3
PEAK: 145.717

S BKG CNTS: 2401.80
BE BKG CNTS: 0.00

20h 46m

20h 44m

20h 42m

CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^h 44^m 08.7^s$ $29^\circ 40' 59''$ (B1950)
 $20^h 46^m 13.8^s$ $29^\circ 52' 01''$ (J2000)
 $l: 72.70$ $b: -8.25$

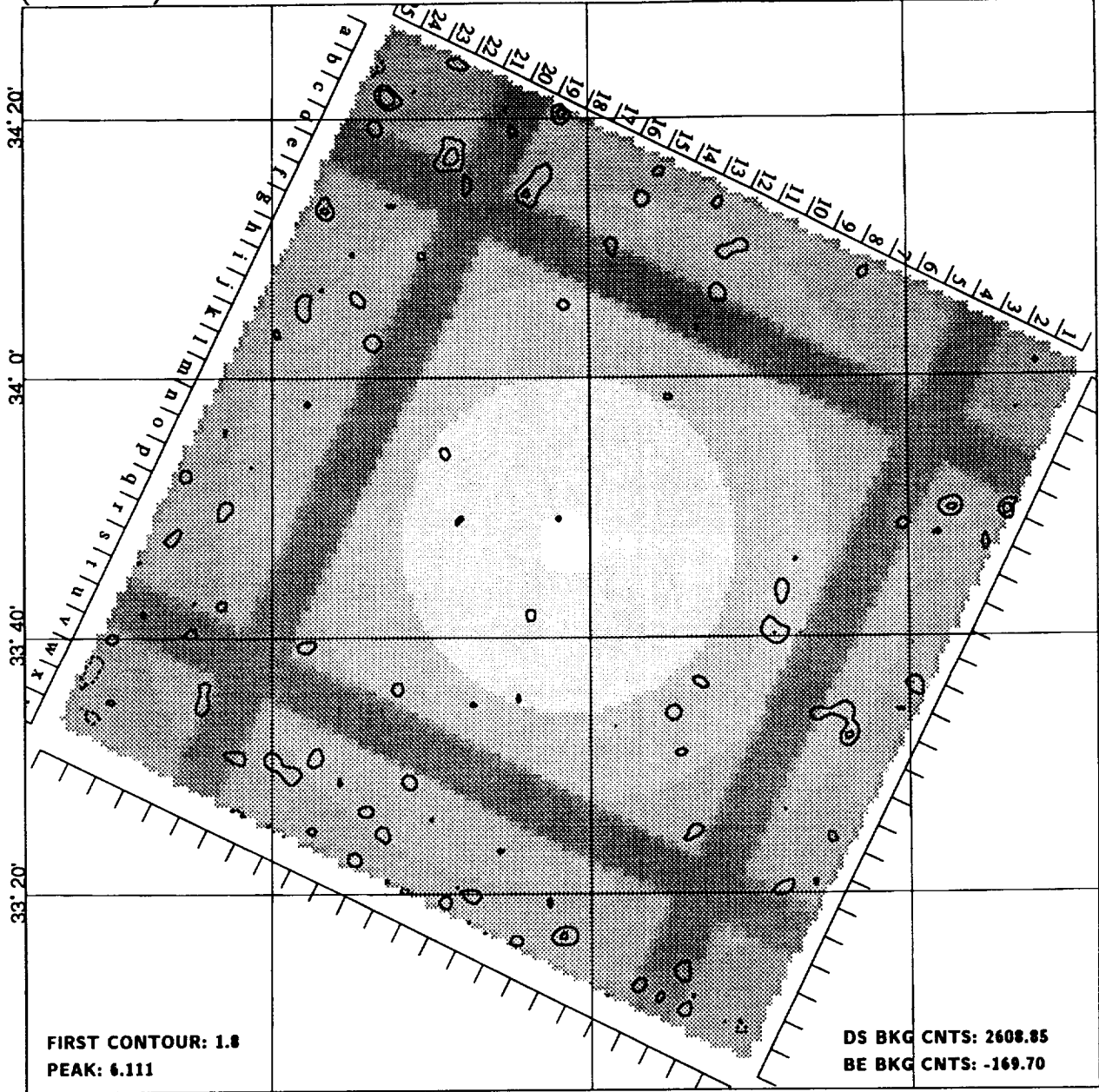
DATE: 1979/120 - 1979/120
LIVETIME: 1946.2s
ROLL ANGLE: -79.3°

NH: $1.9E+21$
REF/ID:
FIELD FLAGS: DLST

(20h 44m)

I 4458

(20h 44m)



FIRST CONTOUR: 1.8
PEAK: 6.111

DS BKG CNTS: 2608.85
BE BKG CNTS: -169.70

20h 46m 20h 44m 20h 42m
EPSILON CYG, CORRELLATION OF X RAYS WITH STELLAR WIND AND ROTATION

FIELD CENTER: 20^h44^m10.9^s 33°46'54" (B1950)
20^h46^m10.9^s 33°57'56" (J2000)
ℓ: 75.94 b: -5.71

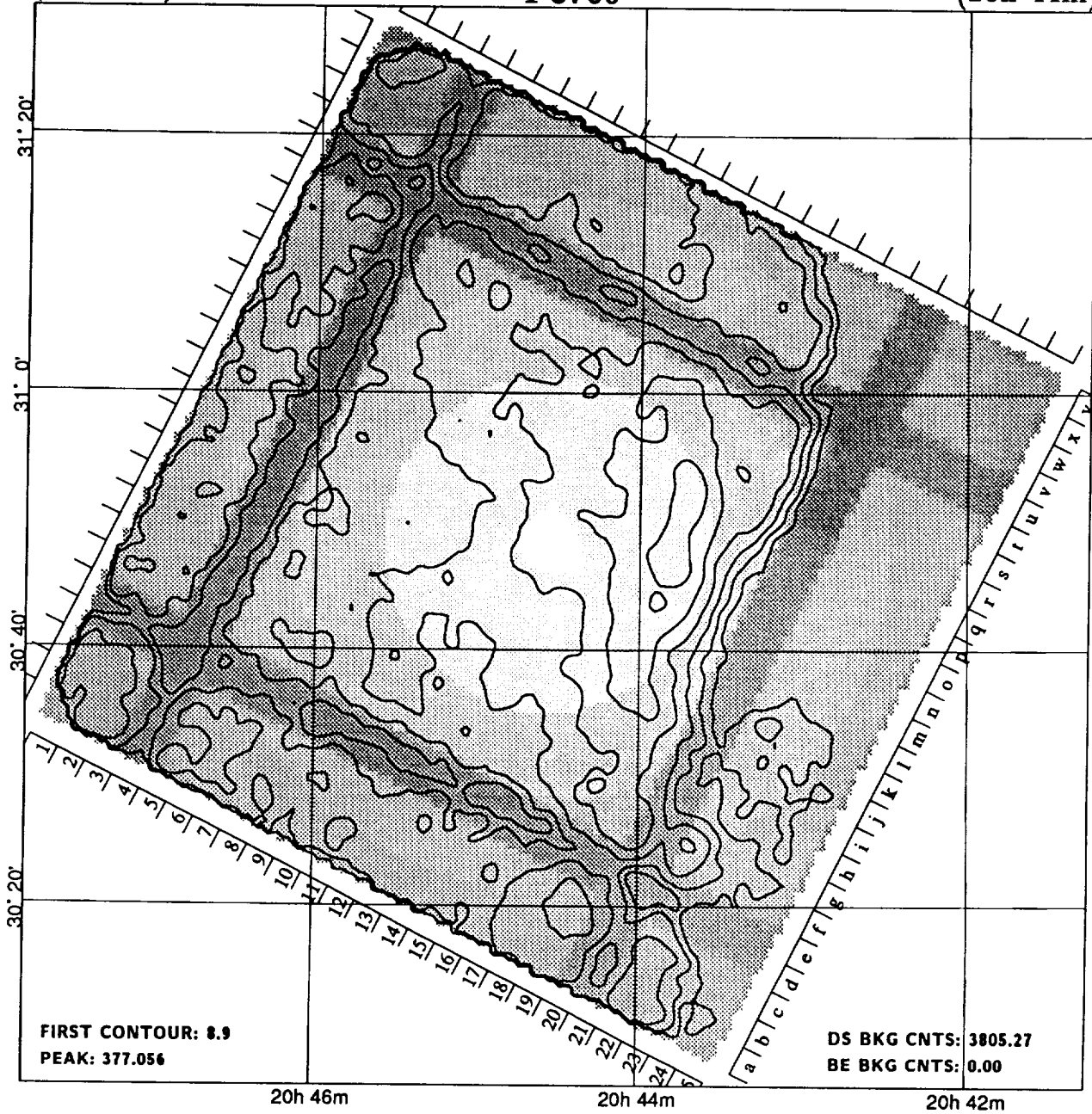
DATE: 1979/327 - 1979/327
LIVETIME: 2114.0s
ROLL ANGLE: 116.1°

NH: 3.2E+21
REF/ID:
FIELD FLAGS:

(20h 44m)

I 3760

(20h 44m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}44^{\text{m}}30.8^{\text{s}}$ $30^{\circ}47'59''$ (B1950)
 $20^{\text{h}}46^{\text{m}}34.6^{\text{s}}$ $30^{\circ}59'02''$ (J2000)
 $l: 73.64$ $b: -7.62$

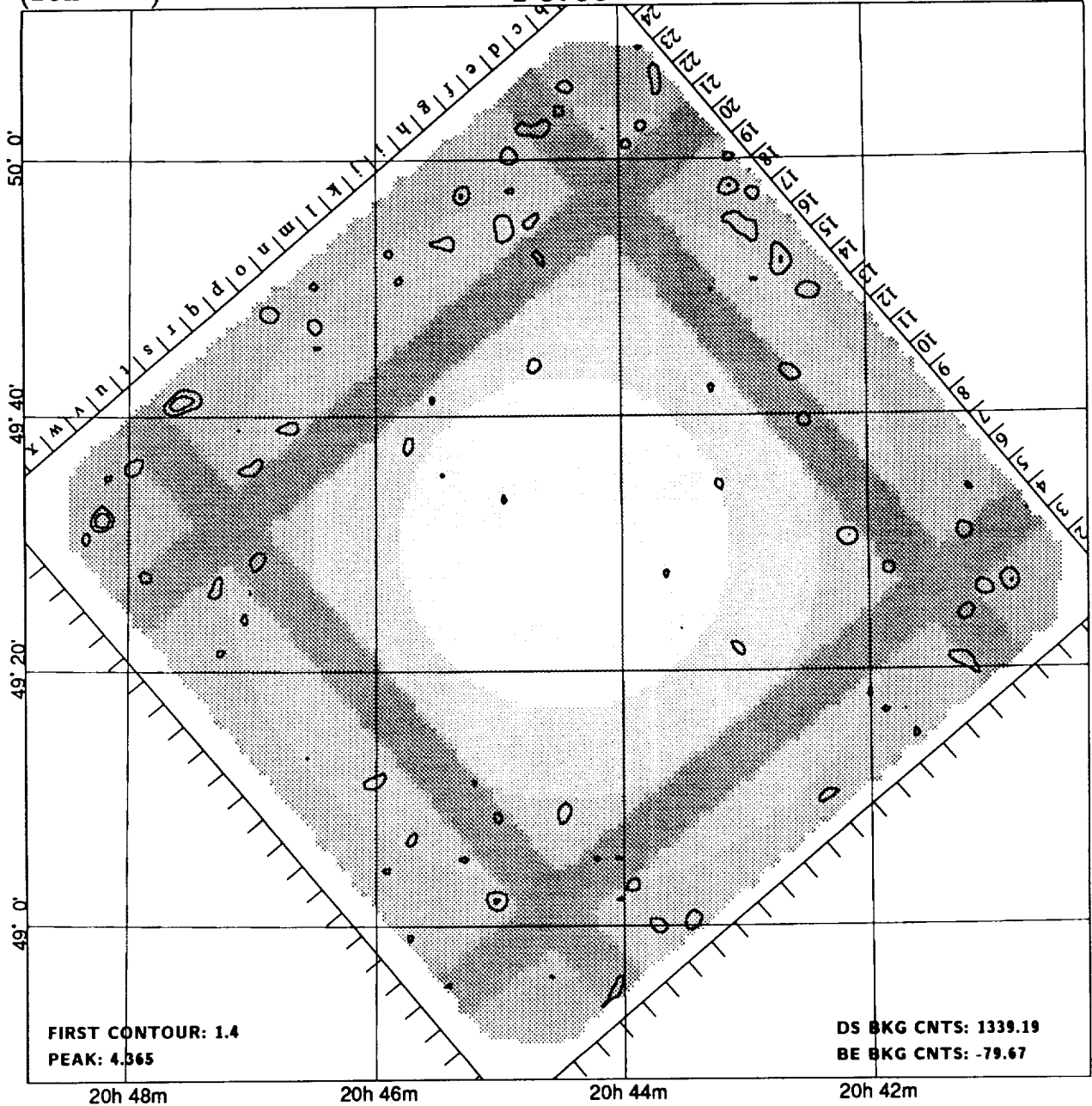
DATE: 1980/143 - 1980/143
 LIVETIME: 3083.5s
 ROLL ANGLE: -63.3°

NH: $2.1\text{E}+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 44m)

I 3758

(20h 44m)



HB21 SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}44^{\text{m}}31.8^{\text{s}}$ $49^{\circ}29'59''$ (B1950)
 $20^{\text{h}}46^{\text{m}}06.6^{\text{s}}$ $49^{\circ}41'01''$ (J2000)
 $l: 88.24$ $b: 4.10$

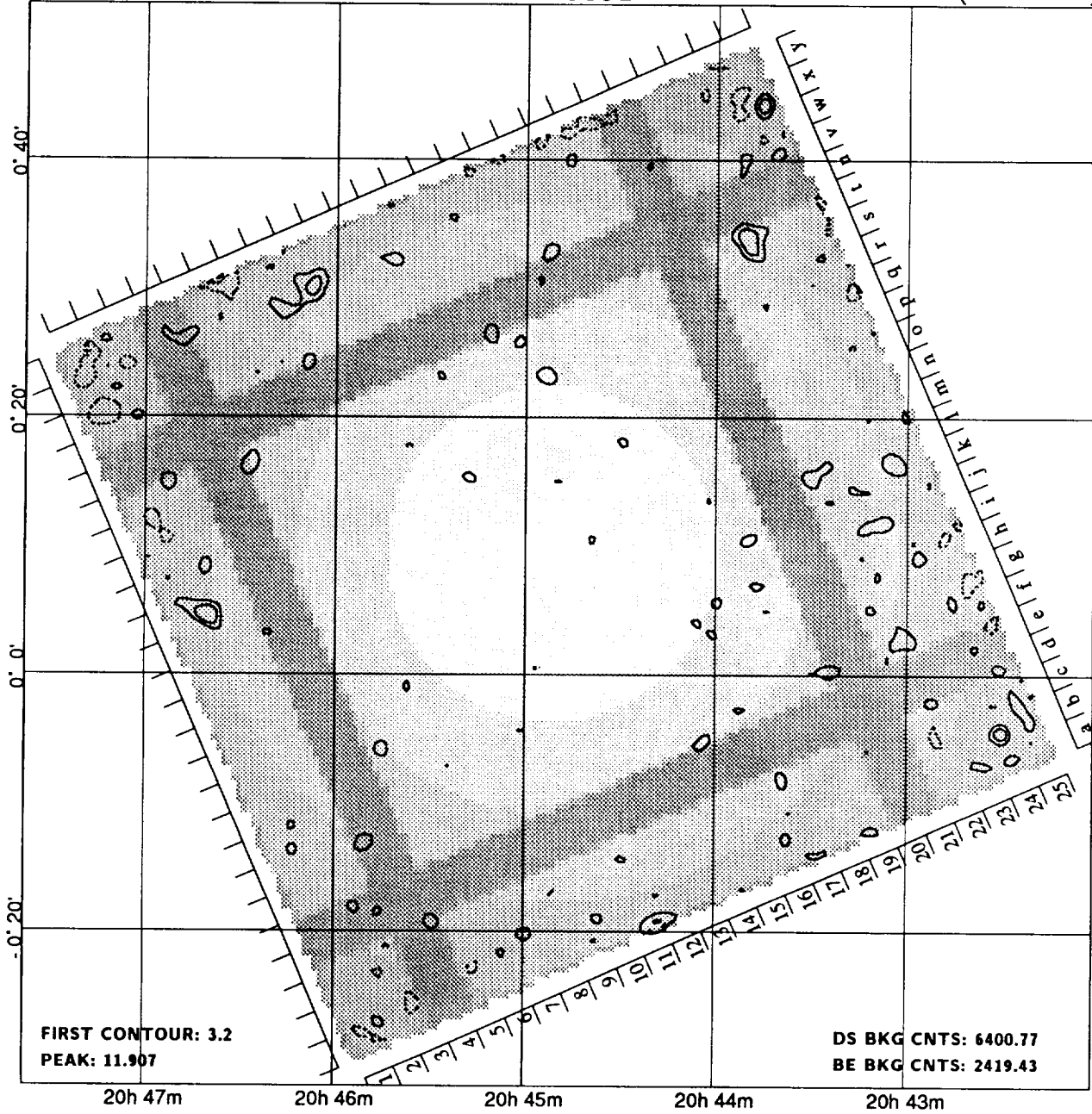
DATE: 1979/353 - 1979/353
 LIVETIME: 1085.2s
 ROLL ANGLE: 139.8°

NH: $8.4\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(20h 44m)

I 10691

(20h 44m)



138: Poor group

FIELD CENTER: $20^{\text{h}}44^{\text{m}}49.8^{\text{s}} 00^{\circ}09'59''$ (B1950)
 $20^{\text{h}}47^{\text{m}}23.3^{\text{s}} 00^{\circ}21'04''$ (J2000)
 $l: 47.45 \quad b: -25.37$

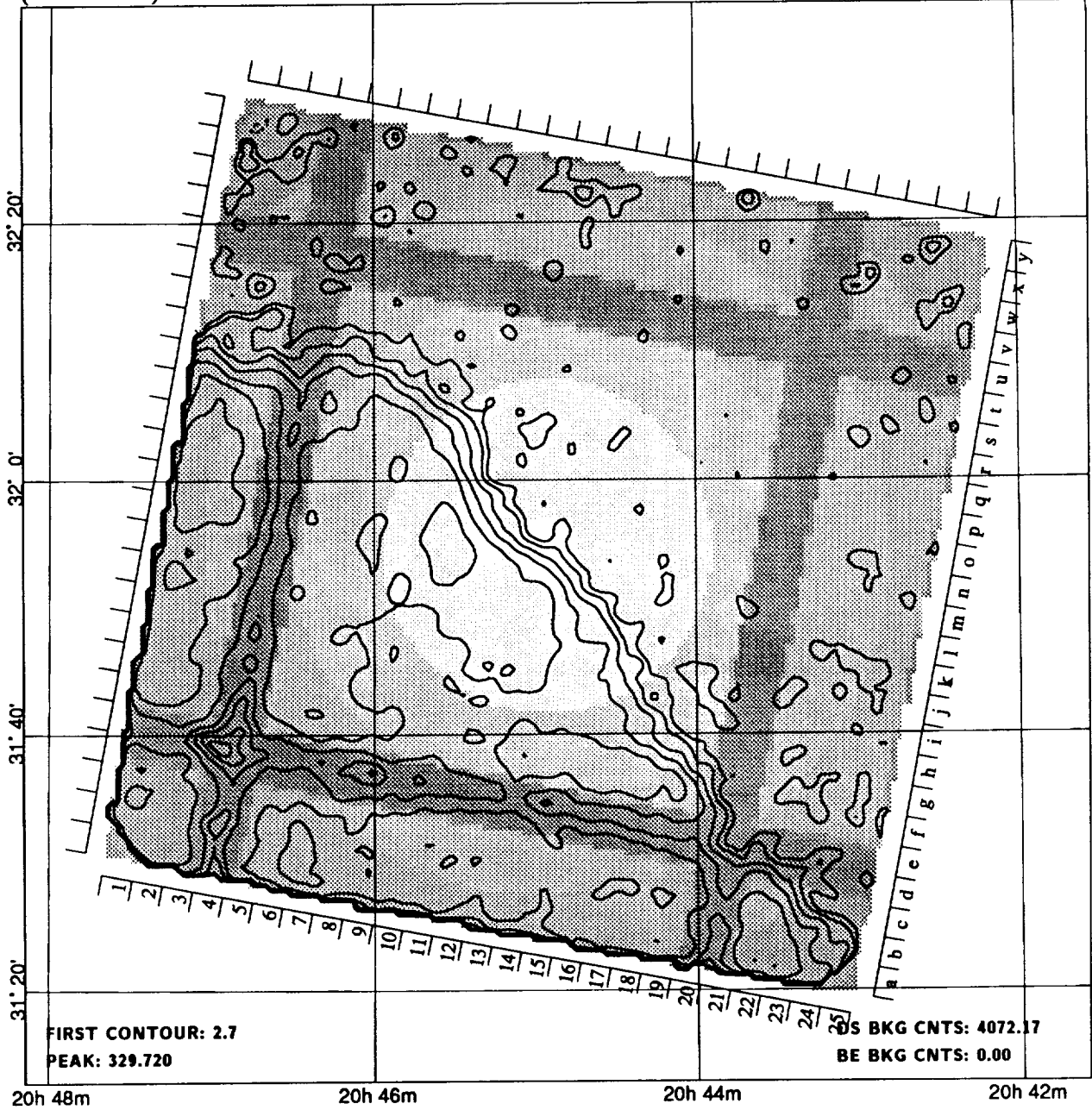
DATE: 1981/114 - 1981/114
 LIVETIME: 5186.8s
 ROLL ANGLE: -113.6°

NH: $5.8\text{E}+20$
 REF/ID:
 FIELD FLAGS: L

(20h 44m)

I 2193

(20h 44m)



X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: 20^h44^m51.9^s 31°55'00" (B1950)
 20^h46^m54.4^s 32°06'04" (J2000)
l: 74.57 *b*: -6.99

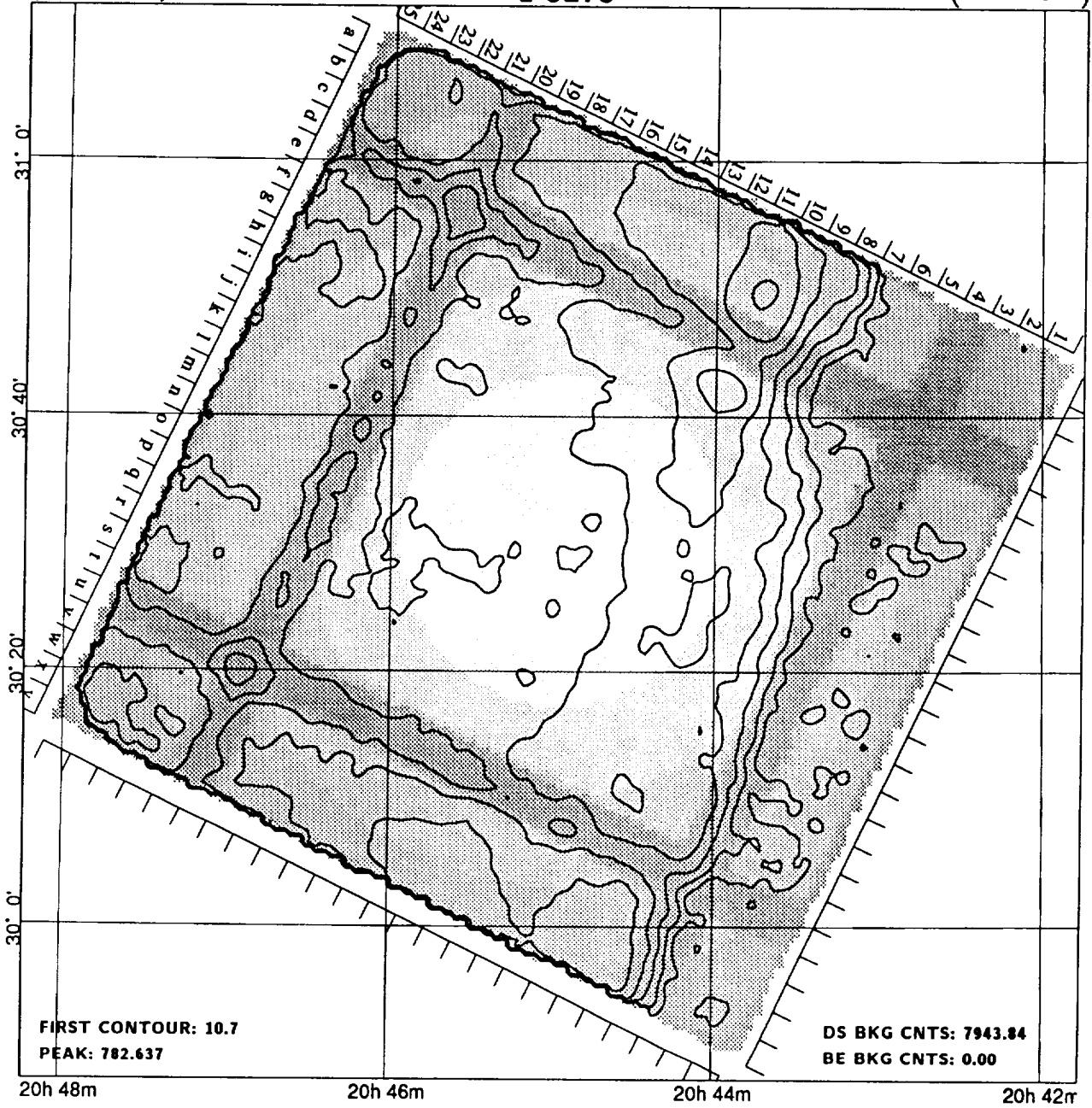
DATE: 1980/121 - 1980/121
 LIVETIME: 3299.8s
 ROLL ANGLE: -79.3°

NH: 2.7E+21
 REF/ID:
 FIELD FLAGS: DLST

(20h 45m)

I 5273

(20h 45m)



CYGNUS LOOP

FIELD CENTER: 20^h45^m00.0^s 30°29'59" (B1950)
20^h47^m04.2^s 30°41'04" (J2000)
ℓ: 73.46 b: -7.89

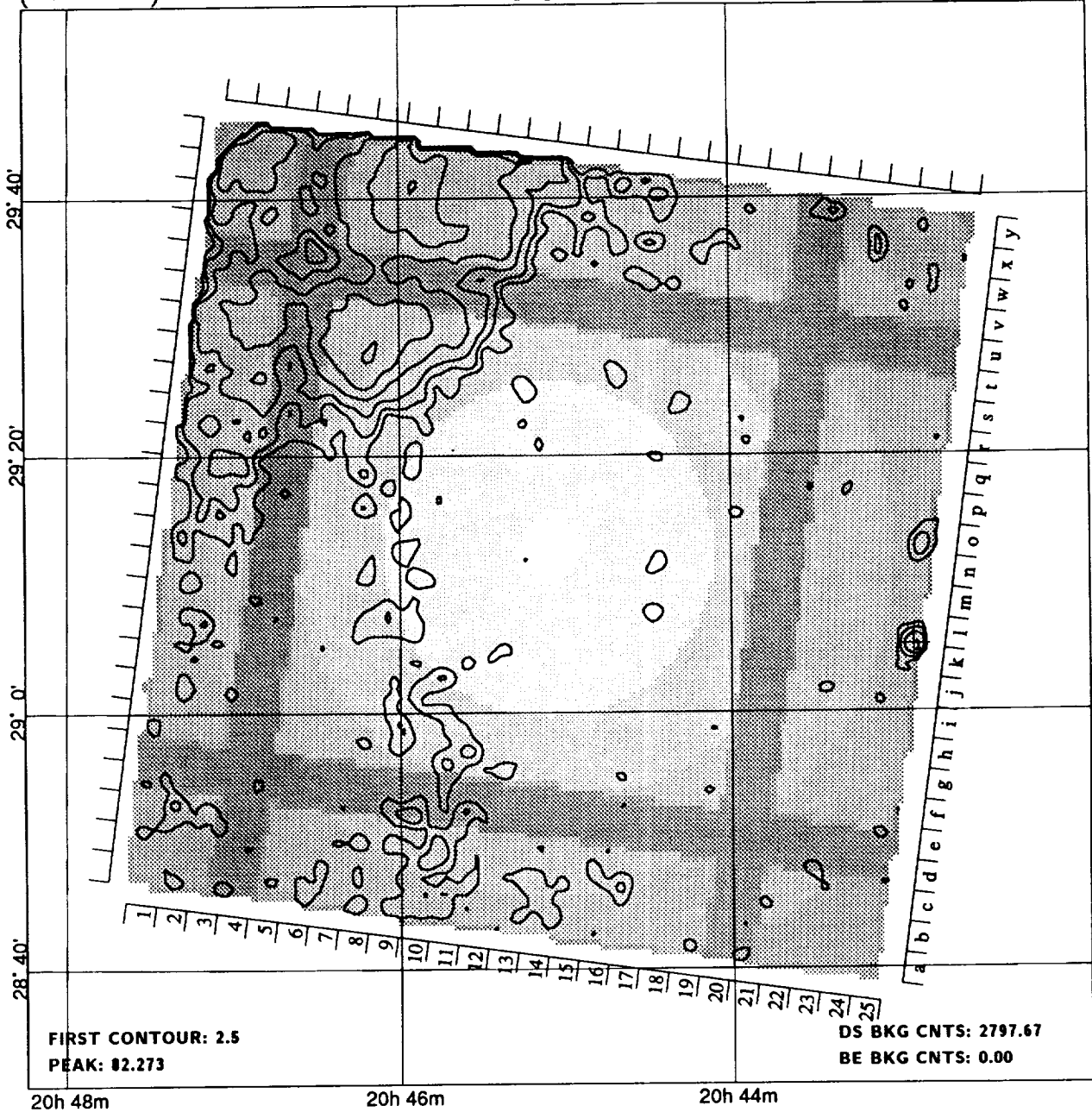
DATE: 1979/326 - 1979/327
LIVETIME: 6437.1s
ROLL ANGLE: 115.7°

NH: 2.0E+21
REF/ID: SNR
FIELD FLAGS: DLST

(20h 45m)

I 3785

(20h 45m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^h 45^m 02.8^s$ $29^\circ 12' 59''$ (B1950)
 $20^h 47^m 08.5^s$ $29^\circ 24' 04''$ (J2000)
 $l: 72.45$ $b: -8.69$

DATE: 1979/119 - 1979/119
 LIVETIME: 2267.0s
 ROLL ANGLE: -82.4°

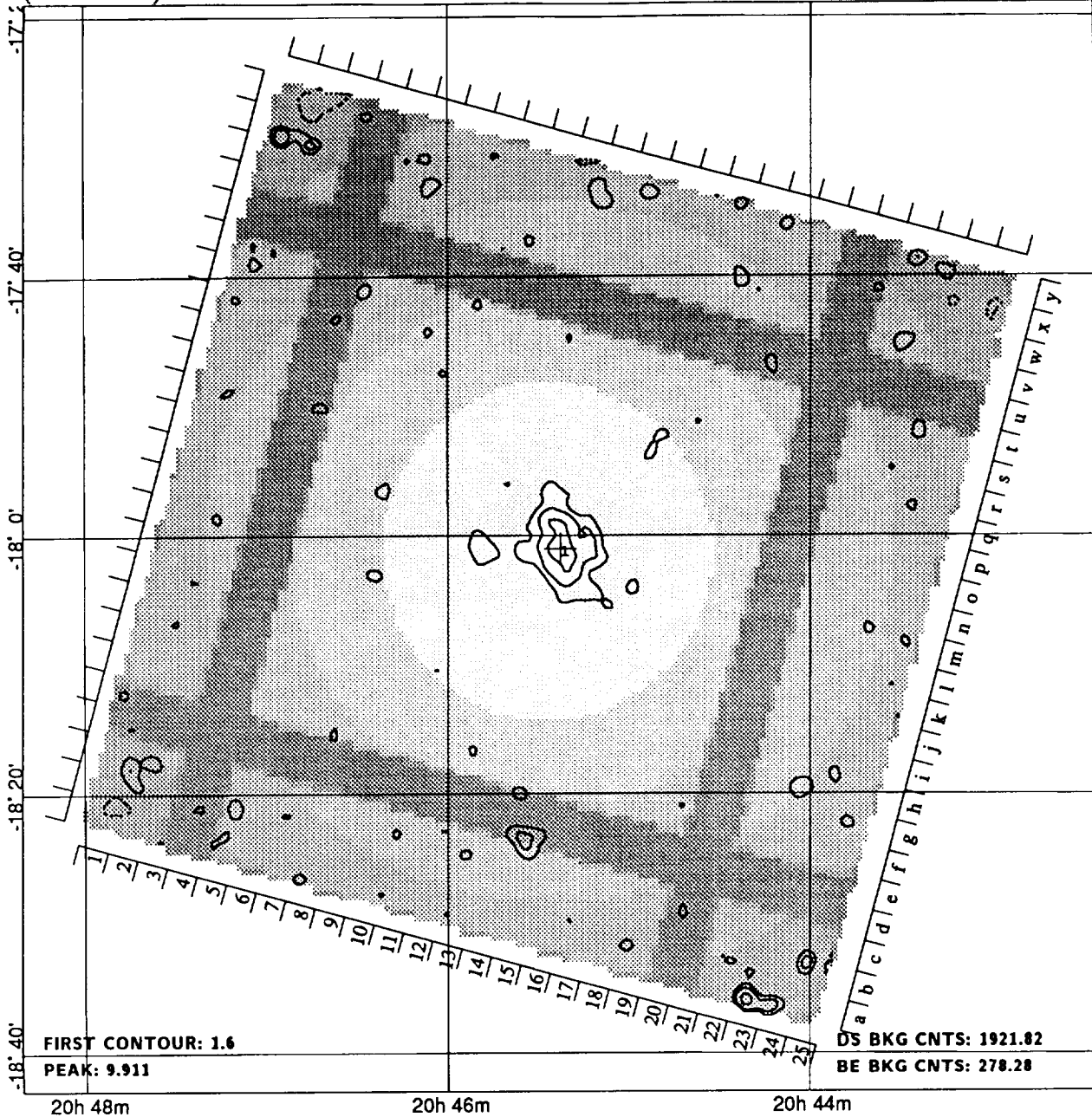
NH: $1.7E+21$
 REF/ID:
 FIELD FLAGS: DLS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4417	1L	20 42 54.4	29 05 15	51	*0.0343	0.0089	36.2	4.3	3.9	0.8	803	29.2	AEI

(20h 45m)

I 6271

(20h 45m)



A 2328, COMPLETE SURVEY OF ABELL CLUSTERS

FIELD CENTER: $20^h 45^m 23.7^s$ $-18^\circ 00' 59''$ (B1950)
 $20^h 48^m 13.7^s$ $-17^\circ 49' 52''$ (J2000)
 $l: 28.75$ $b: -33.57$

DATE: 1980/133 - 1980/133
 LIVETIME: 1557.3s
 ROLL ANGLE: -74.9°

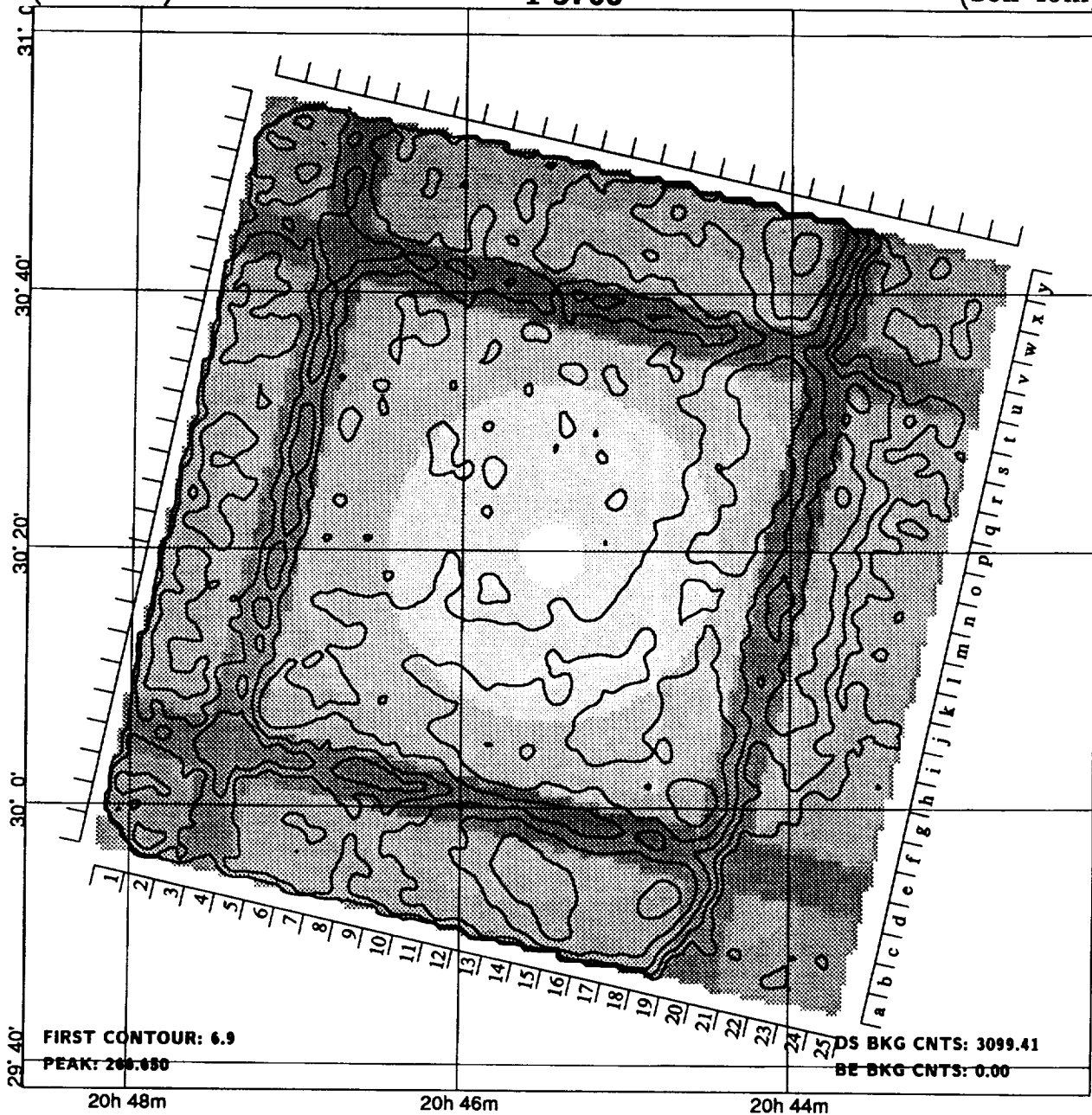
NH: $4.5E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4420	1	20 45 22.5	-18 01 02	35	0.0417	0.0064	48.3	5.7	6.6	2.8	0	0.2	H

(20h 45m)

I 3768

(20h 45m)



FIRST CONTOUR: 6.9
 PEAK: 266.680

DS BKG CNTS: 3099.41
 BE BKG CNTS: 0.00

20h 48m 20h 46m 20h 44m

CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: 20^h 45^m 23.7^s 30° 19' 59" (B1950)
 20^h 47^m 28.2^s 30° 31' 05" (J2000)
l: 73.39 *b*: -8.06

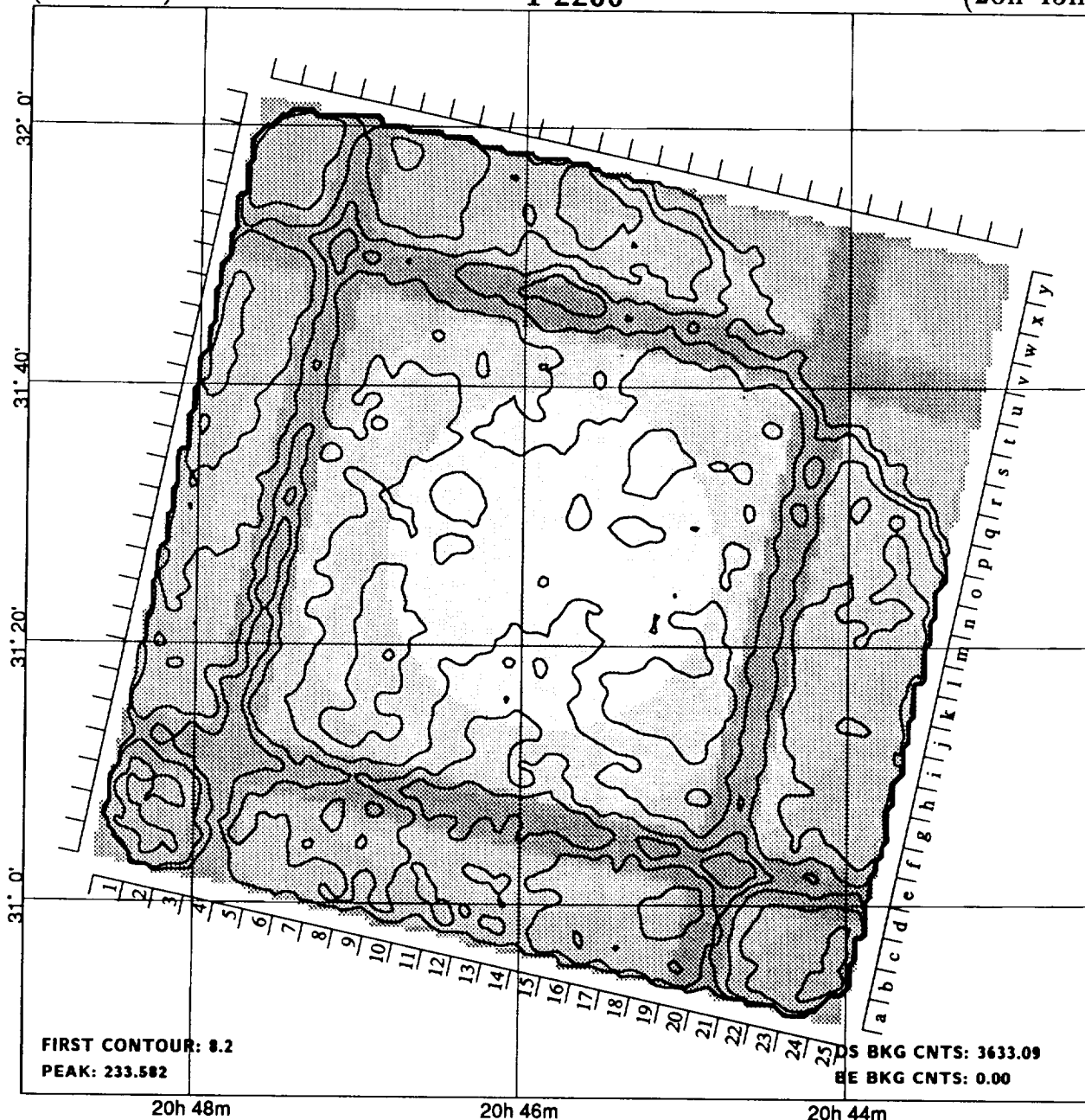
DATE: 1980/123 - 1980/123
 LIVETIME: 2511.5s
 ROLL ANGLE: -77.5°

NH: 1.9E+21
 REF/ID:
 FIELD FLAGS: DLST

(20h 45m)

I 2200

(20h 45m)



X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: $20^h 45^m 45.9^s$ $31^\circ 26' 59''$ (B1950)
 $20^h 47^m 49.1^s$ $31^\circ 38' 06''$ (J2000)
 $l: 74.32$ $b: -7.43$

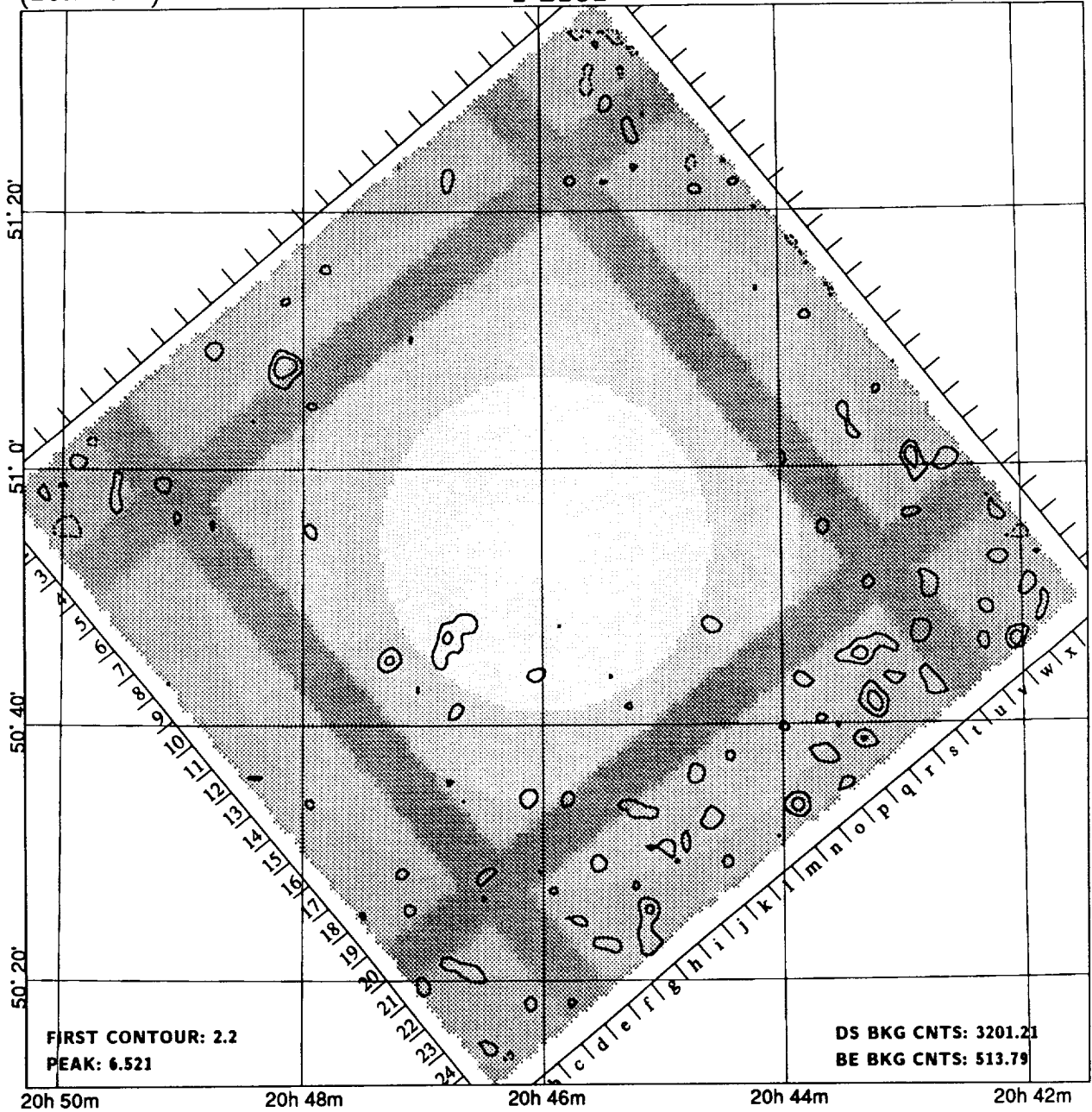
DATE: 1980/123 - 1980/123
 LIVETIME: 2944.0s
 ROLL ANGLE: -77.9°

NH: $2.2E+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 45m)

I 2181

(20h 45m)



X-RAY STUDY OF SUPERNOVA REMNANTS: G09.0+4.7=HB21

FIELD CENTER: $20^{\text{h}} 45^{\text{m}} 52.9^{\text{s}}$ $50^{\circ} 53' 59''$ (B1950)
 $20^{\text{h}} 47^{\text{m}} 25.0^{\text{s}}$ $51^{\circ} 05' 05''$ (J2000)
 $l: 89.47$ $b: 4.81$

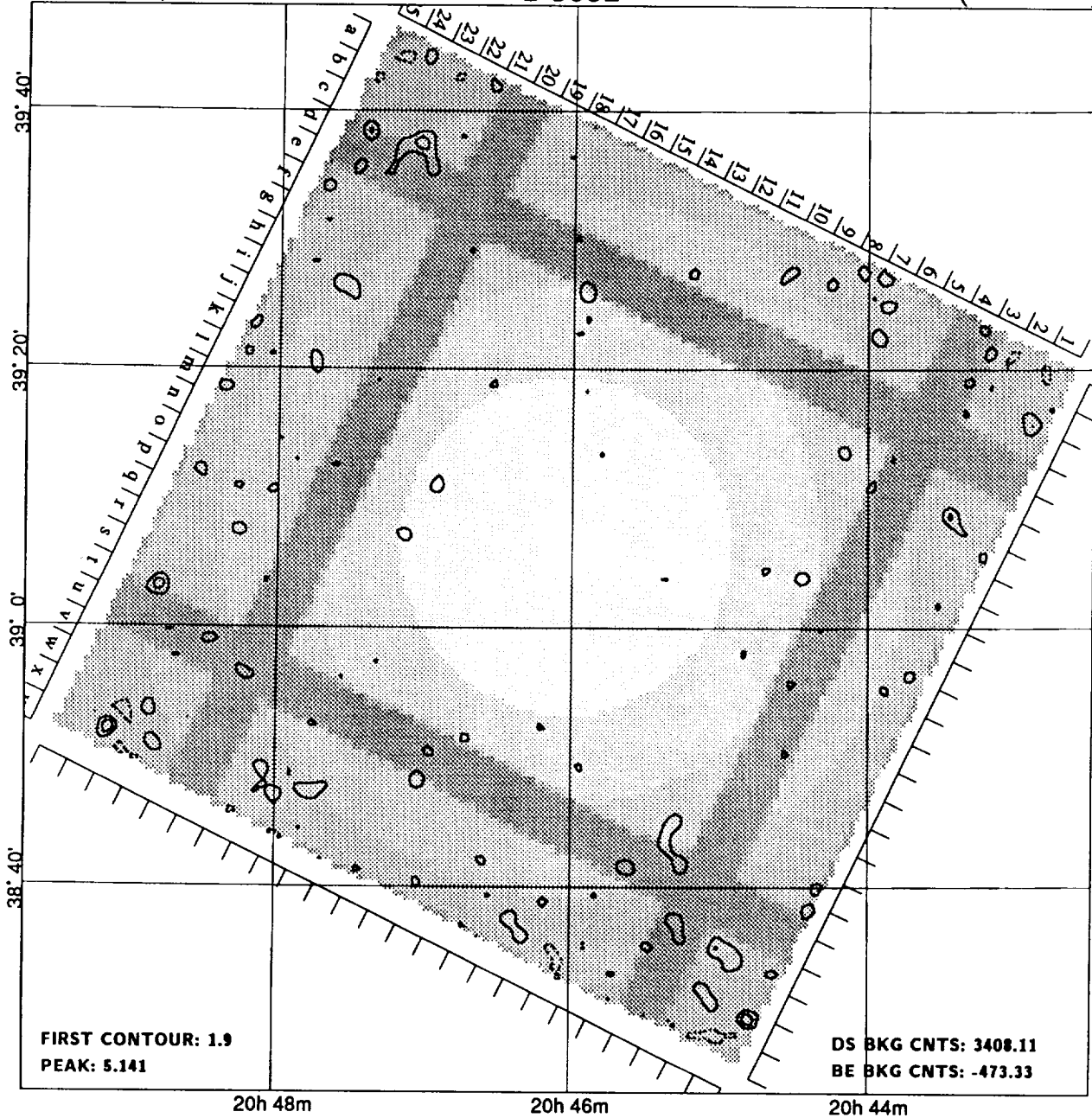
DATE: 1979/171 - 1979/171
LIVETIME: 2594.0s
ROLL ANGLE: -39.4°

NH: $7.7\text{E}+21$
REF/ID:
FIELD FLAGS:

(20h 46m)

I 5052

(20h 46m)

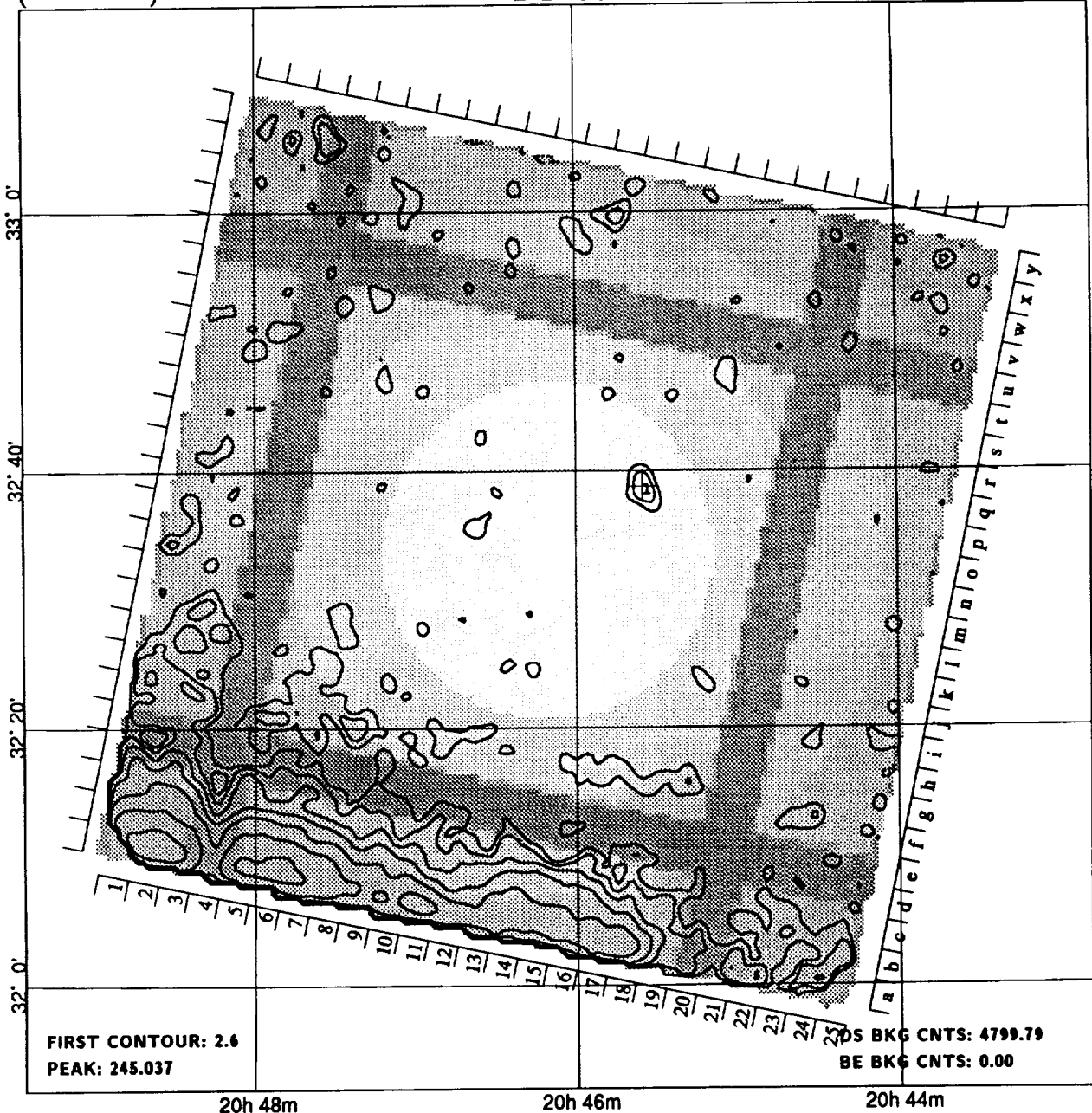


V367 CYG, ACTIVE CLOSE BINARY STARS

FIELD CENTER: 20^h46^m05.8^s 39°06'05" (B1950)
 20^h47^m59.0^s 39°17'13" (J2000)
 $l: 80.34$ $b: -2.67$

DATE: 1979/327 - 1979/327
 LIVETIME: 2761.7s
 ROLL ANGLE: 115.9°

NH: 6.9E+21
 REF/ID:
 FIELD FLAGS:



X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: $20^h 46^m 06.7^s$ $32^\circ 34' 01''$ (B1950)
 $20^h 48^m 08.6^s$ $32^\circ 45' 08''$ (J2000)
 $l: 75.24$ $b: -6.79$

DATE: 1980/122 - 1980/123
 LIVETIME: 3889.4s
 ROLL ANGLE: -78.2°

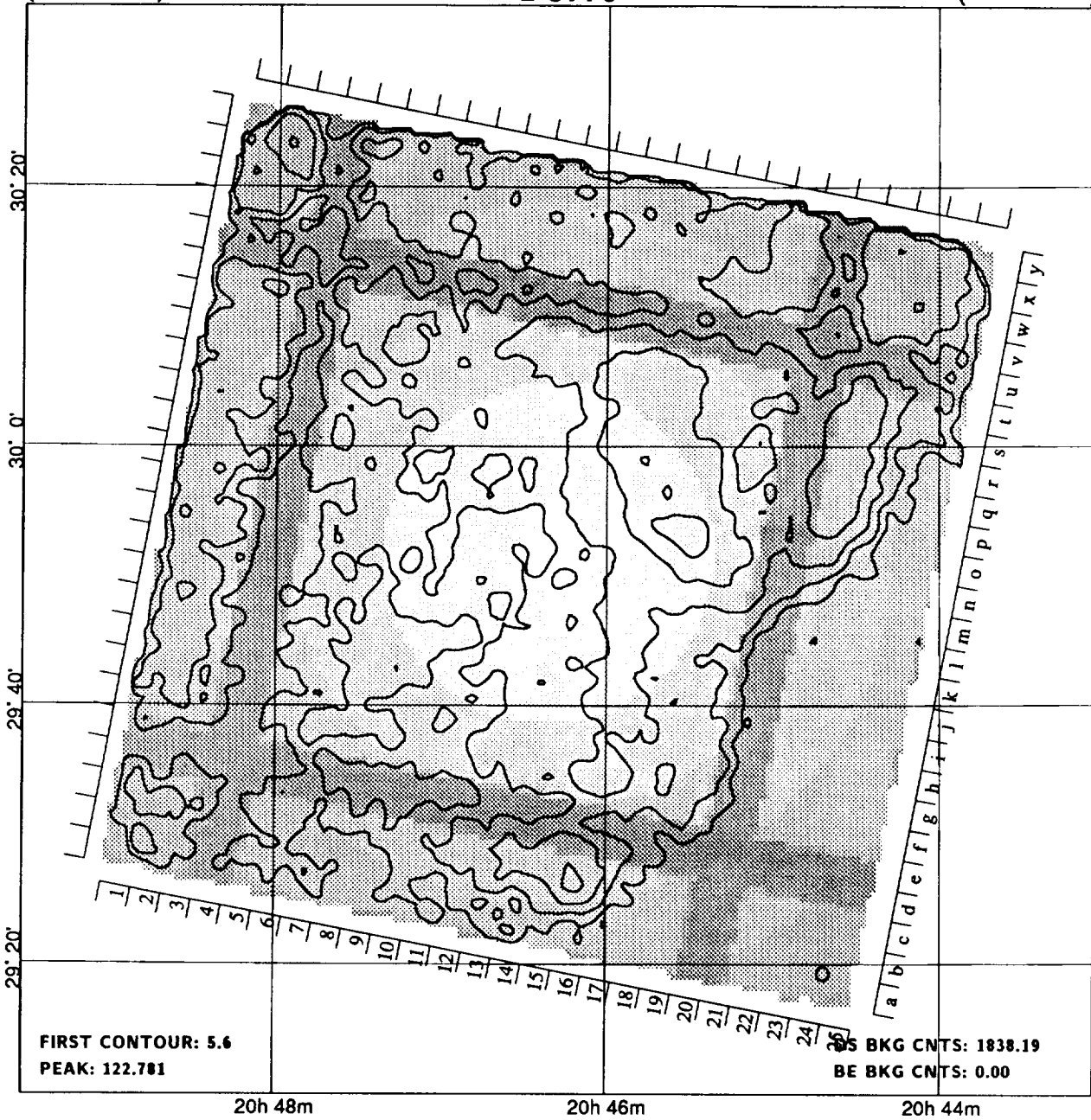
NH: $2.4E+21$
 REF/ID:
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4422	1L	20 45 35.0	32 38 47	42	0.0118	0.0030	31.0	14.0	3.8	0.9	0	8.2	

(20h 46m)

I 3776

(20h 46m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}46^{\text{m}}17.8^{\text{s}}$ $29^{\circ}51'59''$ (B1950)
 $20^{\text{h}}48^{\text{m}}22.9^{\text{s}}$ $30^{\circ}03'08''$ (J2000)
 $l: 73.14$ $b: -8.50$

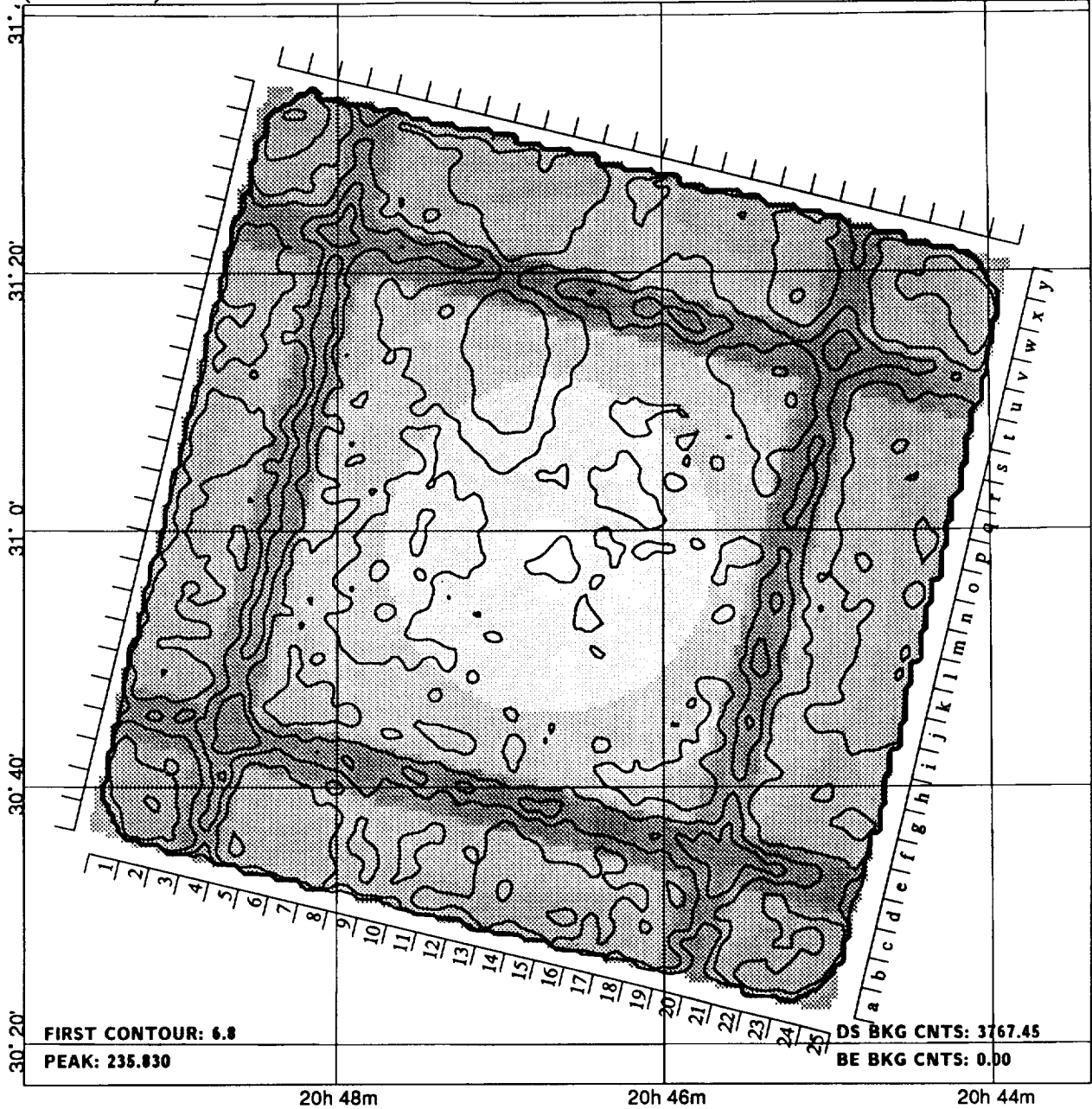
DATE: 1979/120 - 1979/120
 LIVETIME: 1489.5s
 ROLL ANGLE: -79.2°

NH: $1.8\text{E}+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 46m)

I 3759

(20h 46m)



20h 48m

20h 46m

20h 44m

CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}46^{\text{m}}38.7^{\text{s}}$ $30^{\circ}58'59''$ (B1950)
 $20^{\text{h}}48^{\text{m}}42.6^{\text{s}}$ $31^{\circ}10'09''$ (J2000)
 $l: 74.07$ $b: -7.87$

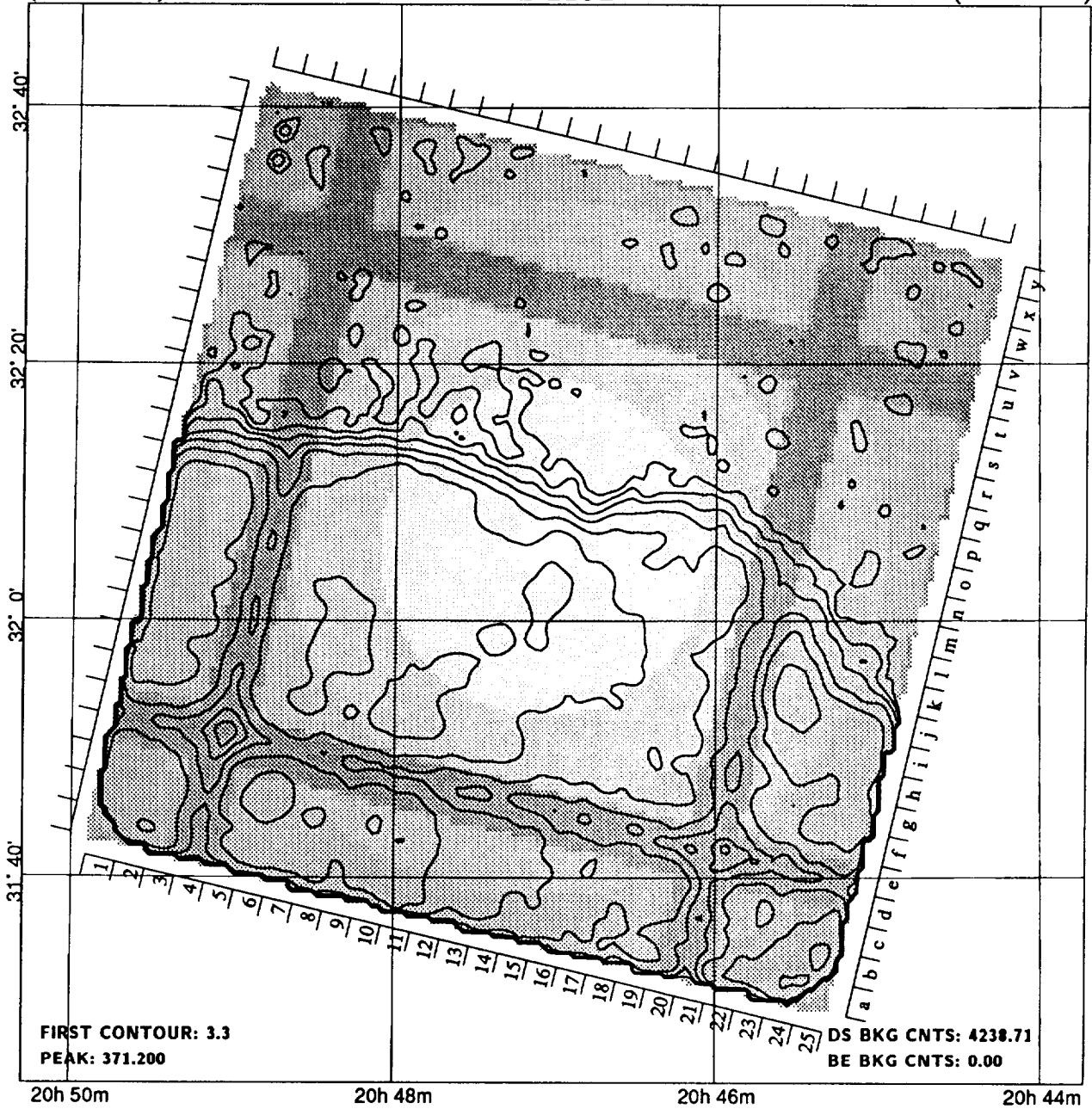
DATE: 1980/125 - 1980/125
 LIVETIME: 3052.9s
 ROLL ANGLE: -76.4°

NH: $1.9\text{E}+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 47m)

I 2192

(20h 47m)



X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: $20^{\text{h}}47^{\text{m}}00.8^{\text{s}}$ $32^{\circ}05'59''$ (B1950)
 $20^{\text{h}}49^{\text{m}}03.3^{\text{s}}$ $32^{\circ}17'10''$ (J2000)
 $l: 75.00$ $b: -7.23$

DATE: 1980/124 - 1980/124
 LIVETIME: 3434.8s
 ROLL ANGLE: -76.9°

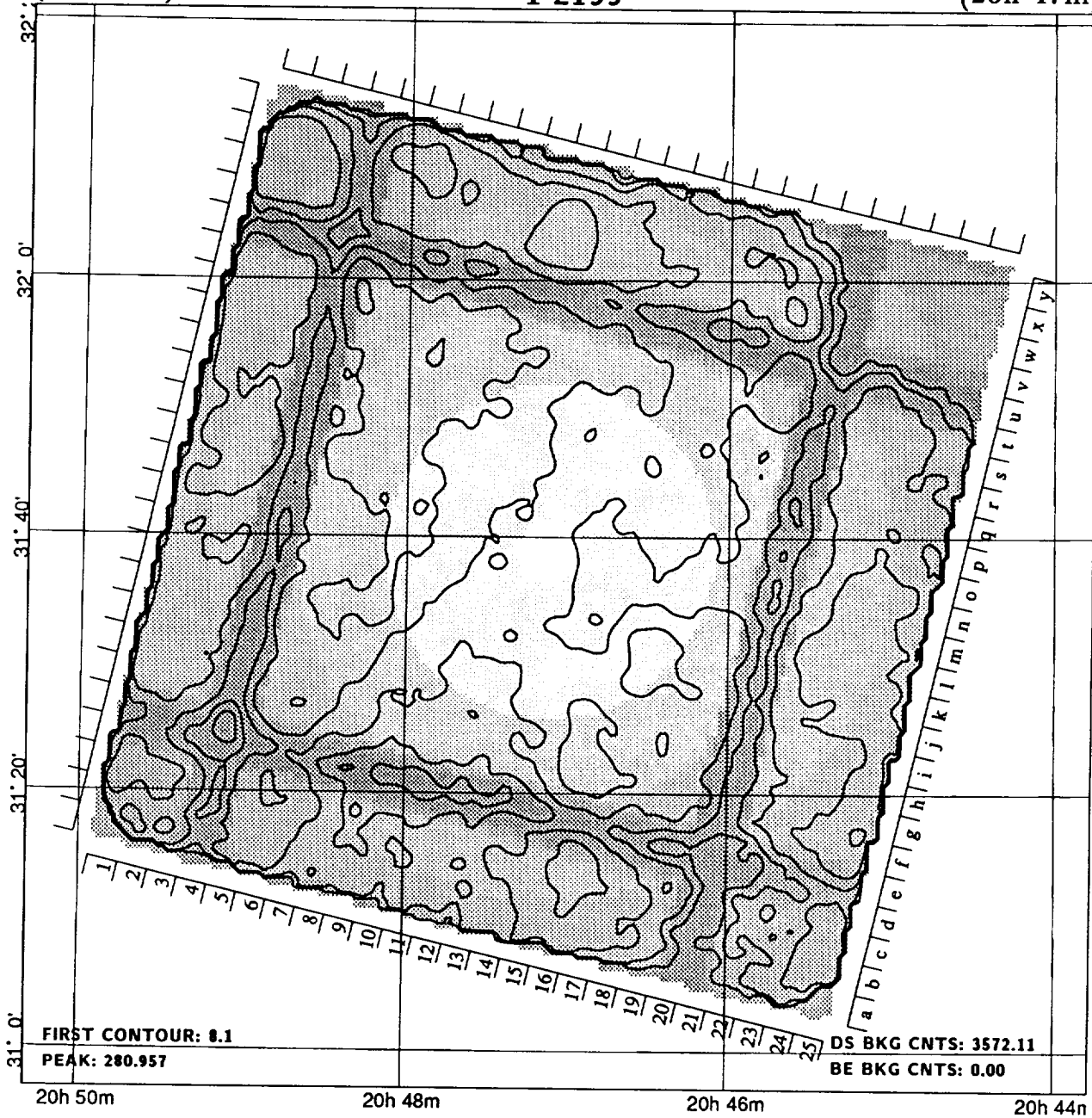
NH: $2.5\text{E}+21$
 REF/ID:
 FIELD FLAGS: DLST

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(20h 47m)

I 2199

(20h 47m)



X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: $20^{\text{h}}47^{\text{m}}03.2^{\text{s}}$ $31^{\circ}38'59''$ (B1950)
 $20^{\text{h}}49^{\text{m}}06.2^{\text{s}}$ $31^{\circ}50'10''$ (J2000)
 $l: 74.65$ $b: -7.52$

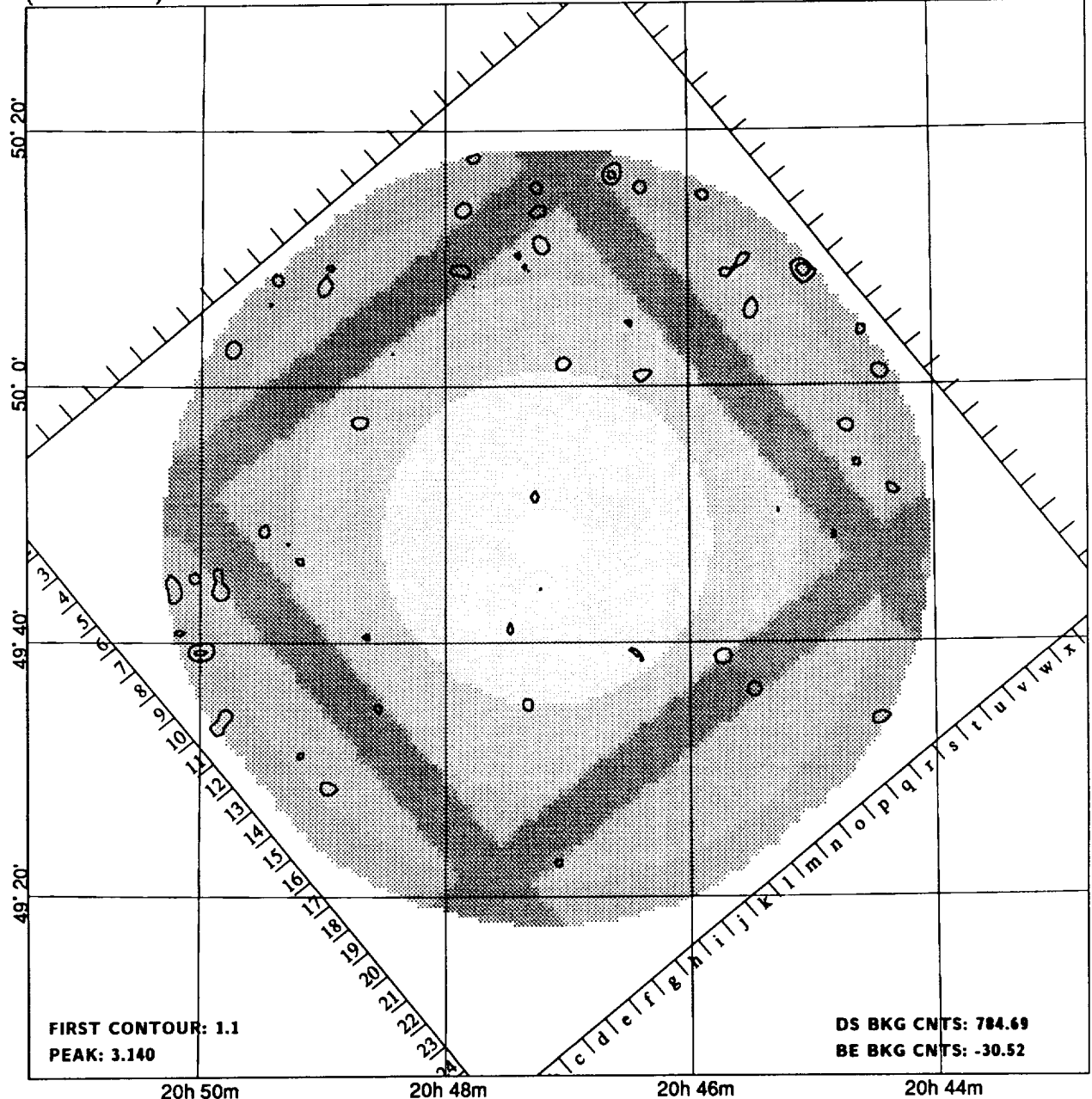
DATE: 1980/125 - 1980/125
 LIVETIME: 2894.6s
 ROLL ANGLE: -76.6°

NH: $2.3E+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 47m)

I 2182

(20h 47m)



X-RAY STUDY OF SUPERNOVA REMNANTS: G89.0+4.7=HB21

FIELD CENTER: 20^h47^m04.8^s 49°47'59" (B1950)
 20^h48^m39.6^s 49°59'09" (J2000)
 l : 88.74 b : 3.96

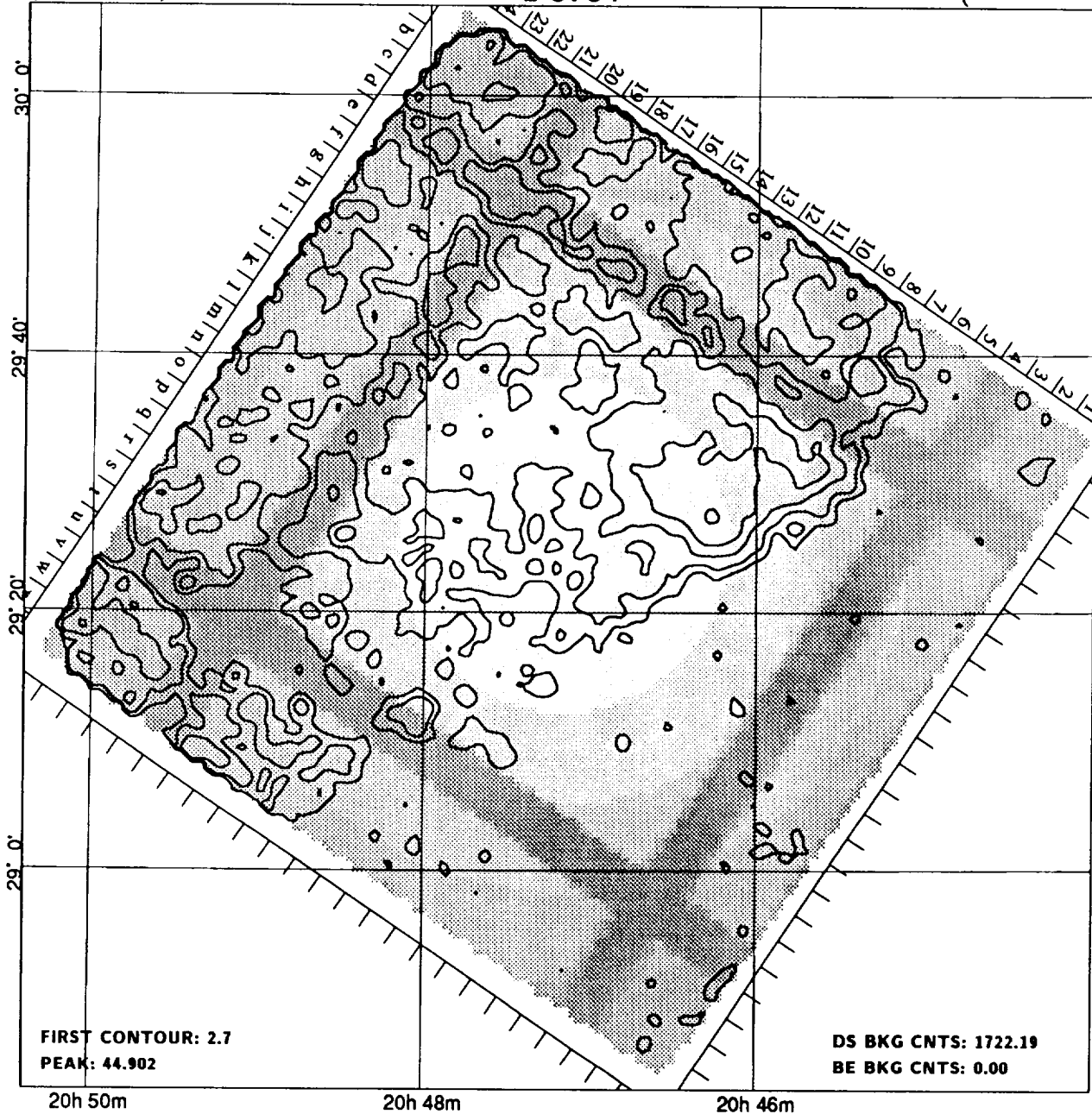
DATE: 1979/171 - 1979/171
 LIVETIME: 635.9s
 ROLL ANGLE: -39.4°

NH: 8.3E+21
 REF/ID:
 FIELD FLAGS:

(20h 47m)

I 3784

(20h 47m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}47^{\text{m}}11.8^{\text{s}}$ $29^{\circ}24'59''$ (B1950)
 $20^{\text{h}}49^{\text{m}}17.5^{\text{s}}$ $29^{\circ}36'11''$ (J2000)
 $l: 72.91$ $b: -8.94$

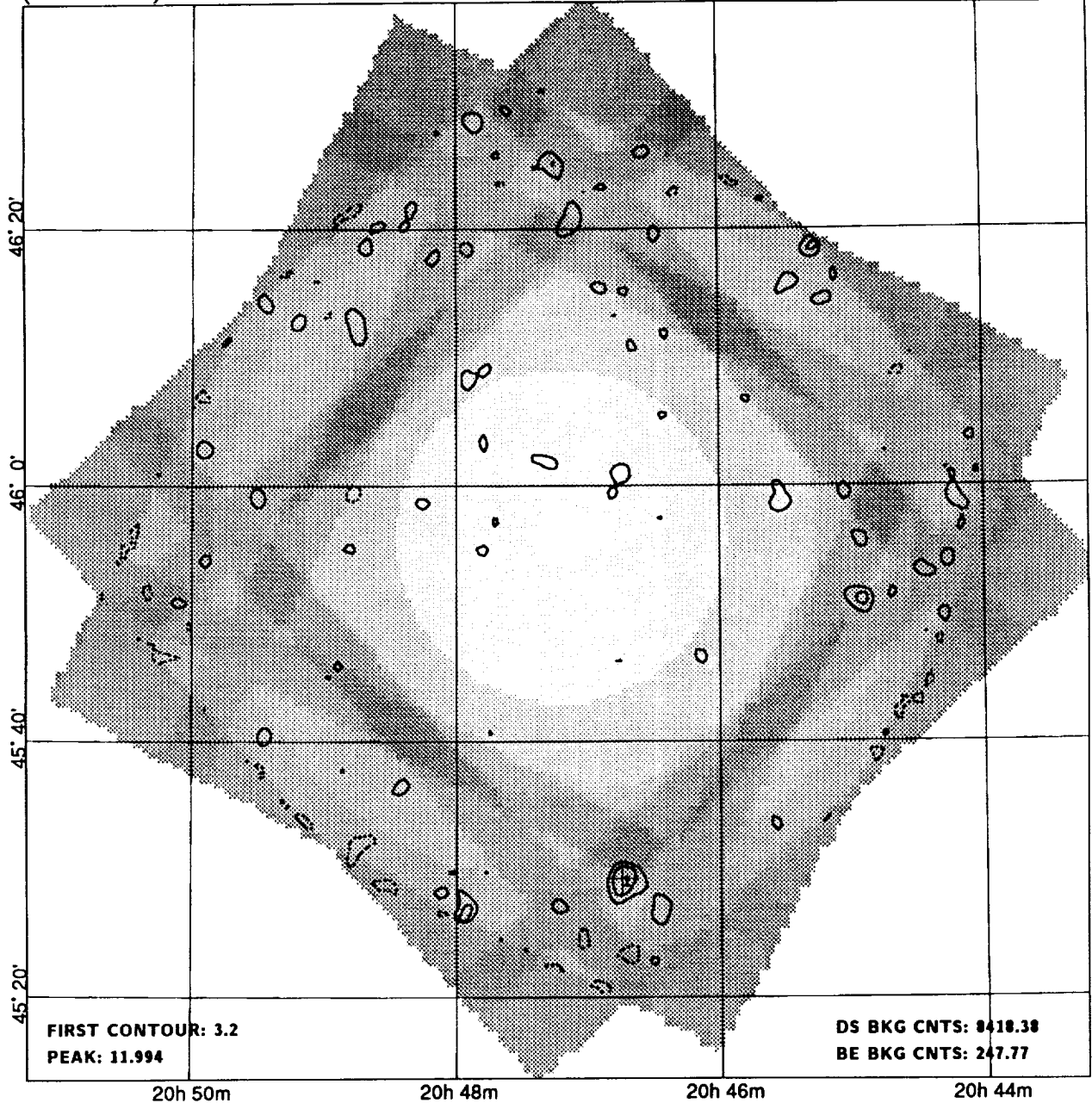
DATE: 1979/338 - 1979/338
LIVETIME: 1395.5s
ROLL ANGLE: 123.8°

NH: $1.6\text{E}+21$
REF/ID:
FIELD FLAGS: LST

(20h 47m)

I 5070

(20h 47m)



FIRST CONTOUR: 3.2
PEAK: 11.994

DS BKG CNTS: 8418.38
BE BKG CNTS: 247.77

20h 50m

20h 48m

20h 46m

20h 44m

55 CYG,LUMINOUS EARLY-TYPE STARS

FIELD CENTER: 20^h47^m13.8^s 45°55'39" (B1950)
20^h48^m56.1^s 46°06'50" (J2000)
l: 85.75 b: 1.49

DATE: 1979/329 - 1979/352
LIVETIME: 6821.6s

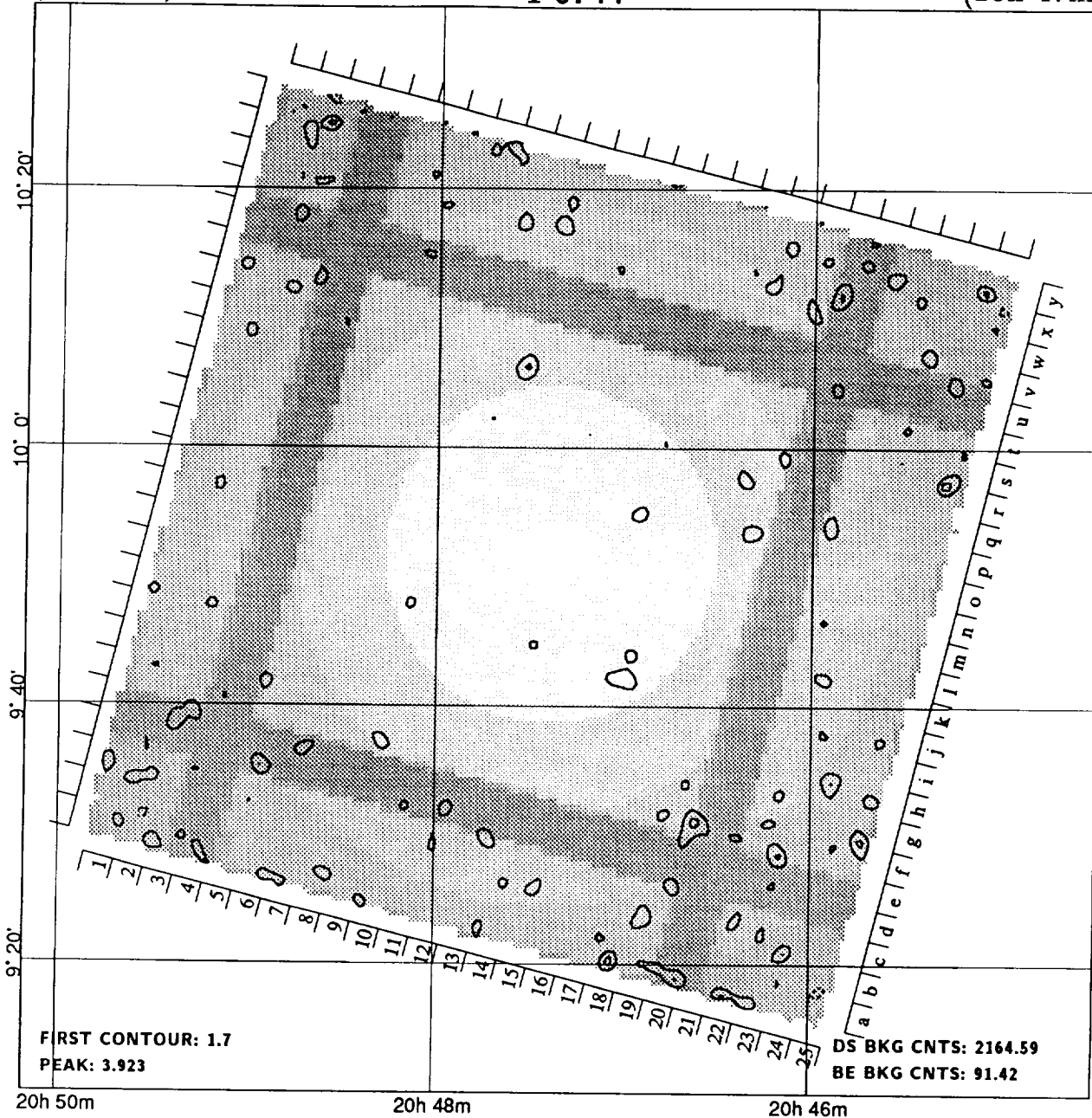
NH: 1.1E+22
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4424	1	20 46 44.9	45 29 13	55	*0.0094	0.0022	25.4	9.6	4.3	0.9	1208	27.0	

(20h 47m)

I 6744

(20h 47m)



SEARCH FOR HIGH LX QSO'S: 21

FIELD CENTER: $20^{\text{h}}47^{\text{m}}20.6^{\text{s}}\ 09^{\circ}52'00''$ (B1950)
 $20^{\text{h}}49^{\text{m}}45.7^{\text{s}}\ 10^{\circ}03'13''$ (J2000)
 $l: 56.69\ b: -20.67$

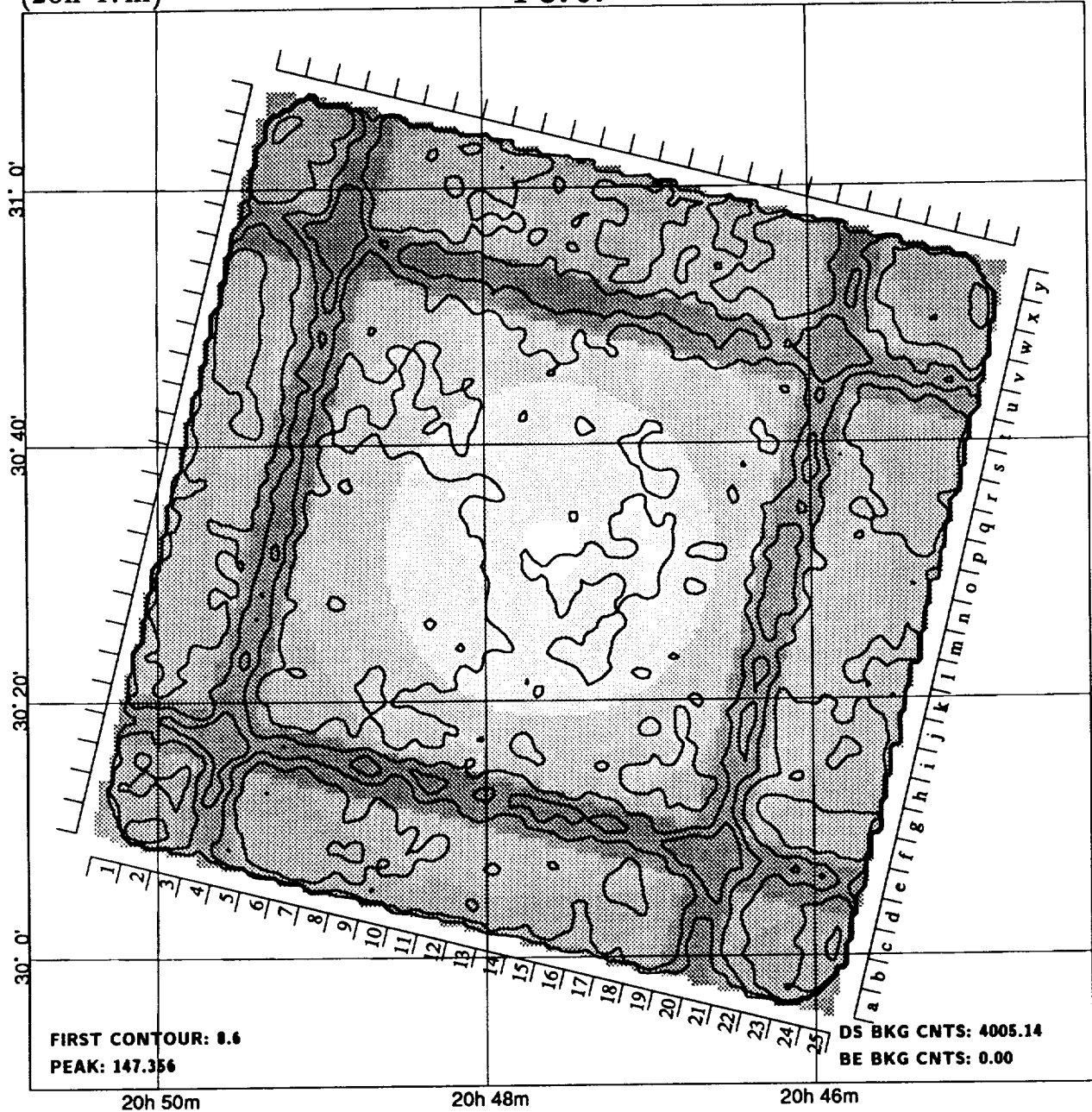
DATE: 1980/129 - 1980/129
 LIVETIME: 1817.0s
 ROLL ANGLE: -75.8°

NH: $6.7\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(20h 47m)

I 3767

(20h 47m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}47^{\text{m}}32.8^{\text{s}}$ $30^{\circ}31'59''$ (B1950)
 $20^{\text{h}}49^{\text{m}}37.3^{\text{s}}$ $30^{\circ}43'12''$ (J2000)
 $l: 73.84$ $b: -8.30$

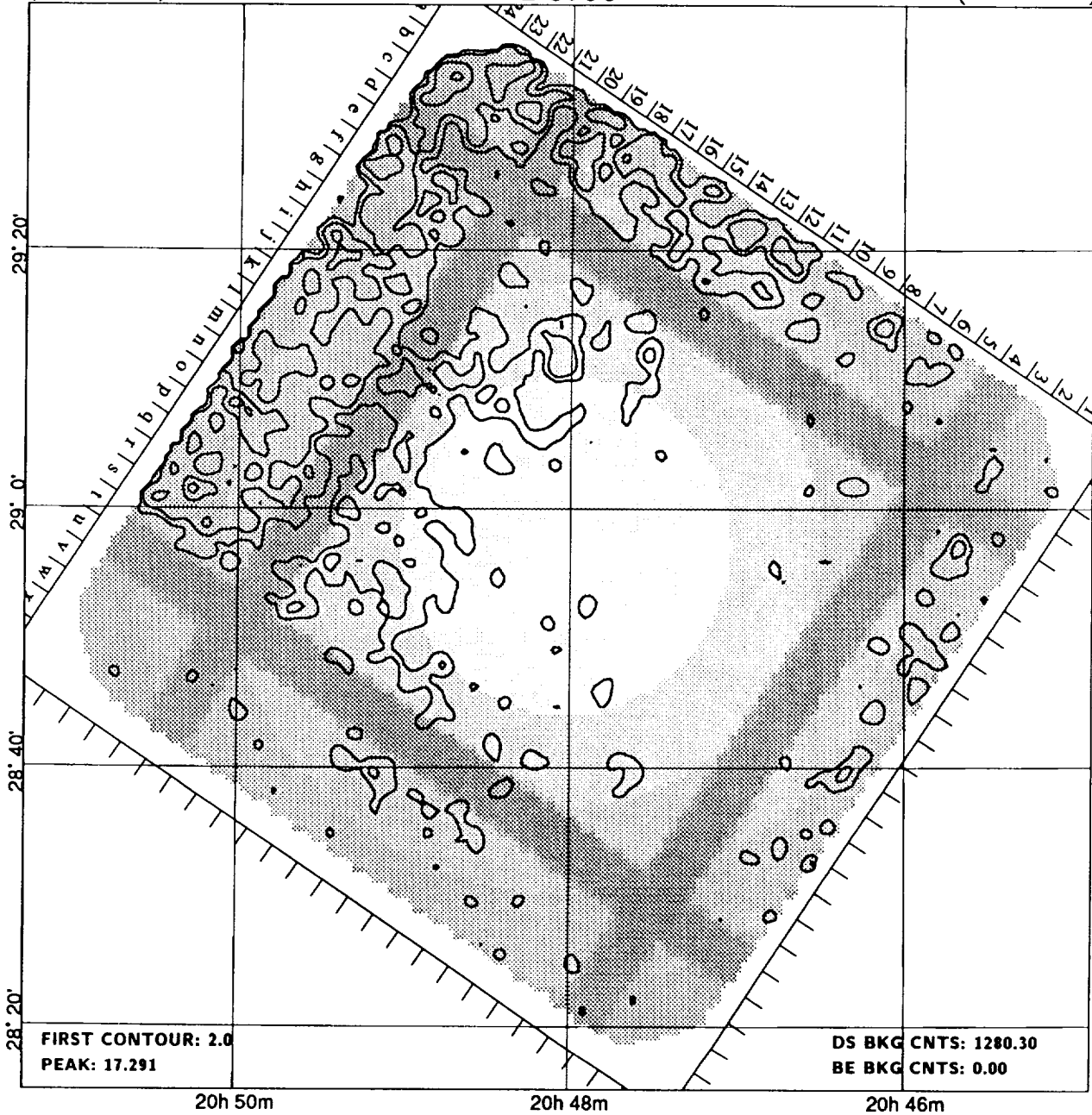
DATE: 1980/125 - 1980/125
 LIVETIME: 3245.5s
 ROLL ANGLE: -76.2°

NH: $1.7\text{E}+21$
 REF/ID:
 FIELD FLAGS: LST

(20h 48m)

I 3790

(20h 48m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}48^{\text{m}}04.8^{\text{s}}$ $28^{\circ}56'59''$ (B1950)
 $20^{\text{h}}50^{\text{m}}11.1^{\text{s}}$ $29^{\circ}08'14''$ (J2000)
 $l: 72.66$ $b: -9.38$

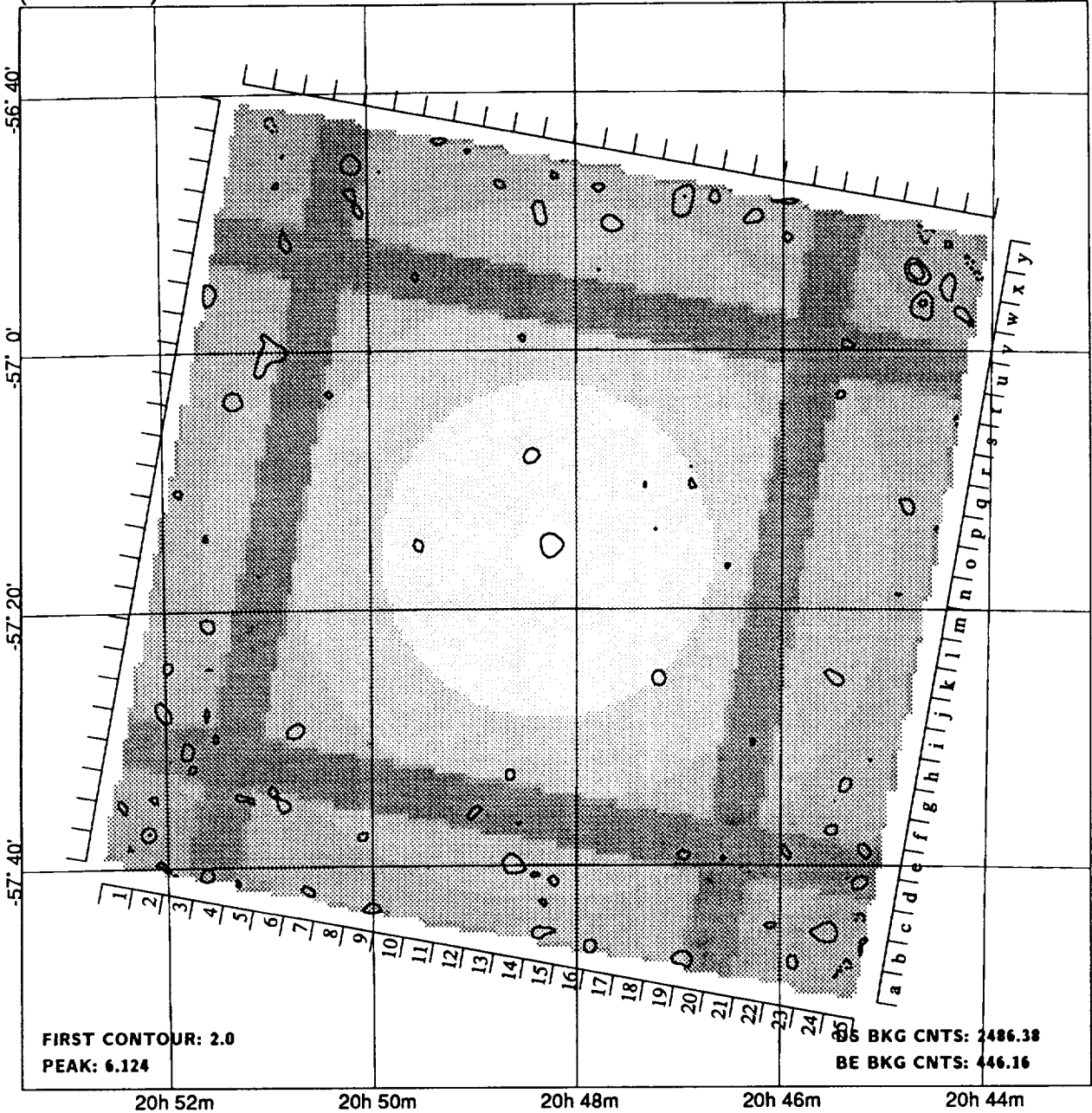
DATE: 1979/338 - 1979/338
 LIVETIME: 1037.5s
 ROLL ANGLE: 123.8°

NH: $1.4\text{E}+21$
 REF/ID:
 FIELD FLAGS: DLS

(20h 48m)

I 5254

(20h 48m)



IC 5063, X-RAY AND OPTICAL STUDY OF NEARBY SEYFERT 2 GALAXIES

FIELD CENTER: $20^{\text{h}}48^{\text{m}}11.8^{\text{s}}$ $-57^{\circ}15'11''$ (B1950)
 $20^{\text{h}}52^{\text{m}}01.9^{\text{s}}$ $-57^{\circ}03'54''$ (J2000)
 $l: 340.00$ $b: -38.74$

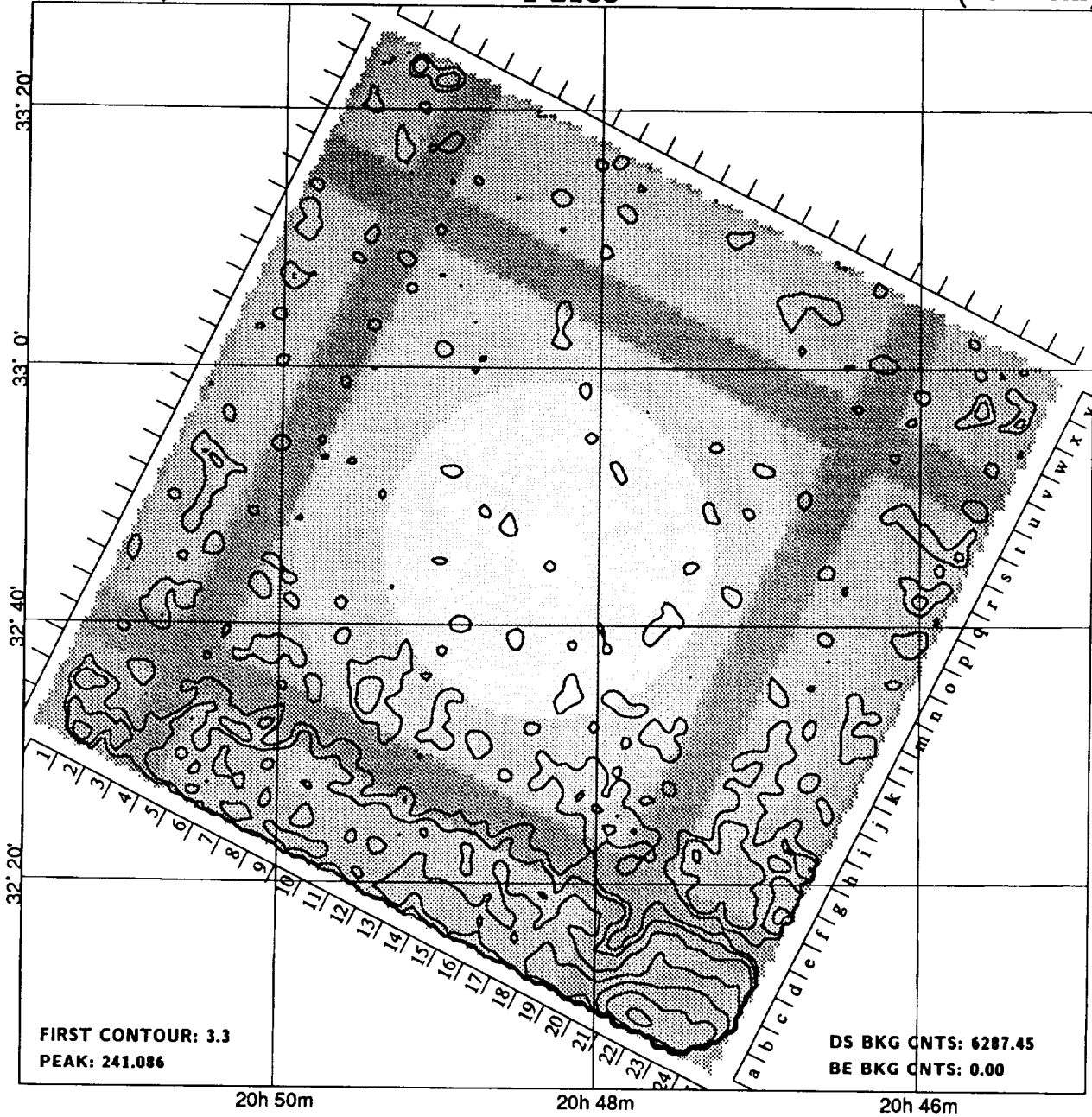
DATE: 1980/123 - 1980/123
 LIVETIME: 2087.1s
 ROLL ANGLE: -79.8°

NH: $4.8\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(20h 48m)

I 2185

(20h 48m)



X-RAY STUDY OF SUPERNOVA REMNANTS:CYGNUS LOOP

FIELD CENTER: 20^h 48^m 15.9^s 32° 46' 01" (B1950)
 20^h 50^m 17.8^s 32° 57' 15" (J2000)
 l : 75.69 b : -7.01

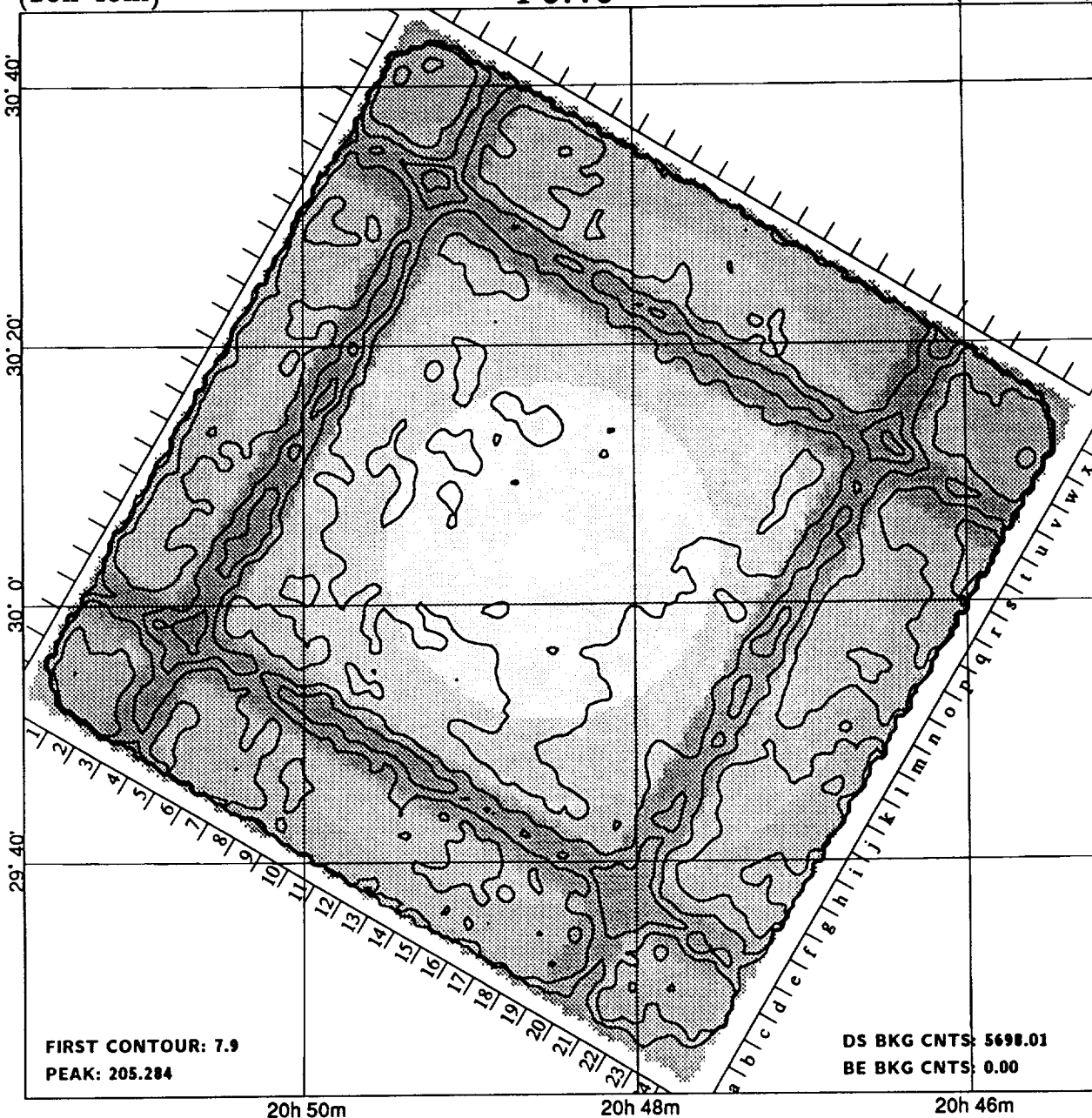
DATE: 1980/143 - 1980/143
 LIVETIME: 5094.9s
 ROLL ANGLE: -63.5°

NH: 2.2E+21
 REF/ID:
 FIELD FLAGS: DLS

(20h 48m)

I 3775

(20h 48m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}48^{\text{m}}26.8^{\text{s}}$ $30^{\circ}03'59''$ (B1950)
 $20^{\text{h}}50^{\text{m}}31.9^{\text{s}}$ $30^{\circ}15'15''$ (J2000)
 $l: 73.59$ $b: -8.74$

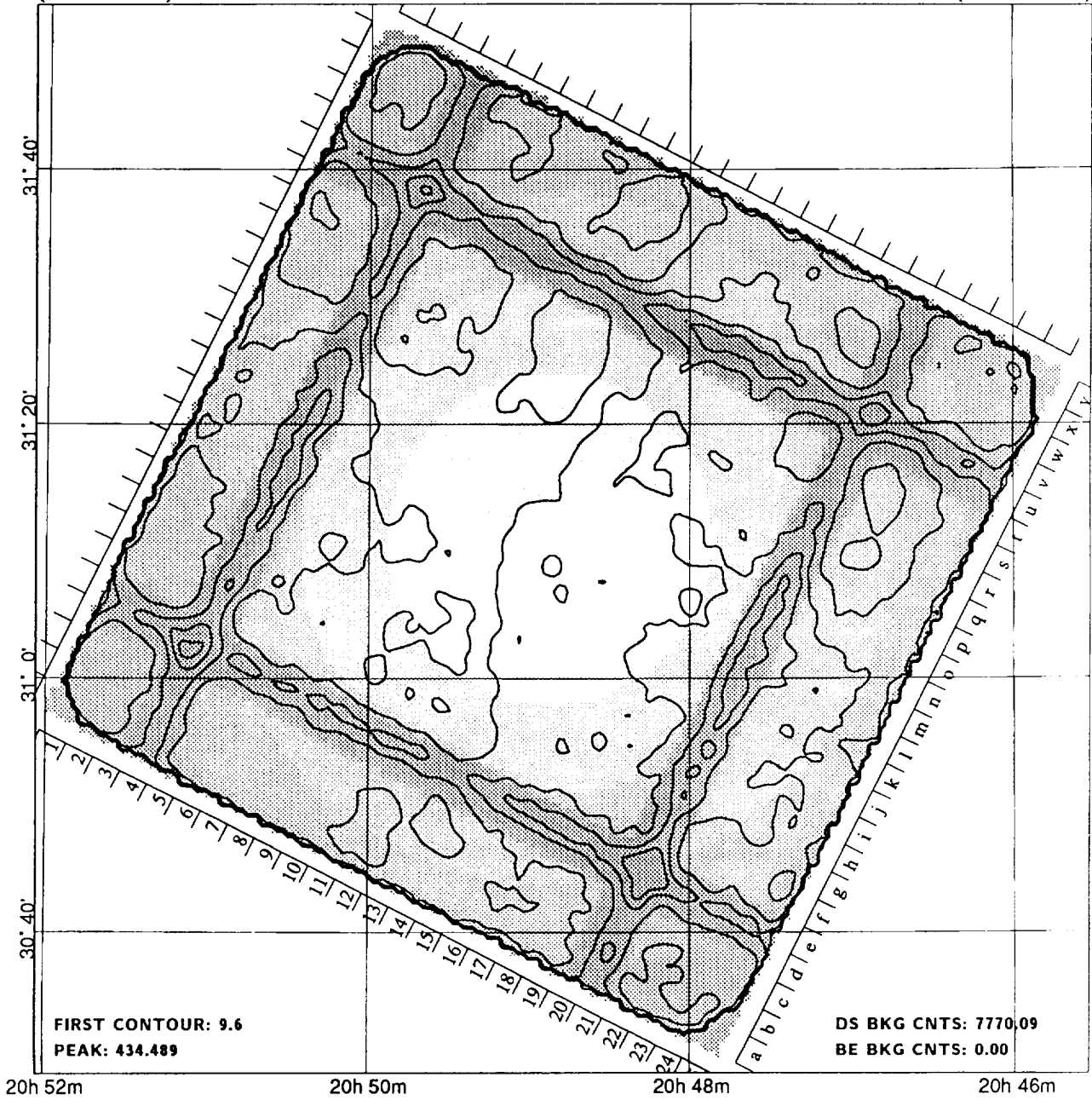
DATE: 1980/144 - 1980/144
LIVETIME: 4617.2s
ROLL ANGLE: -59.7°

NH: $1.7\text{E}+21$
REF/ID:
FIELD FLAGS: DLST

(20h 48m)

I 2206

(20h 48m)



SUPERNOVA REMNANTS: Cygnus Loop

FIELD CENTER: $20^{\text{h}}48^{\text{m}}47.8^{\text{s}}$ $31^{\circ}10'58''$ (B1950)
 $20^{\text{h}}50^{\text{m}}51.7^{\text{s}}$ $31^{\circ}22'15''$ (J2000)
 $l: 74.52$ $b: -8.10$

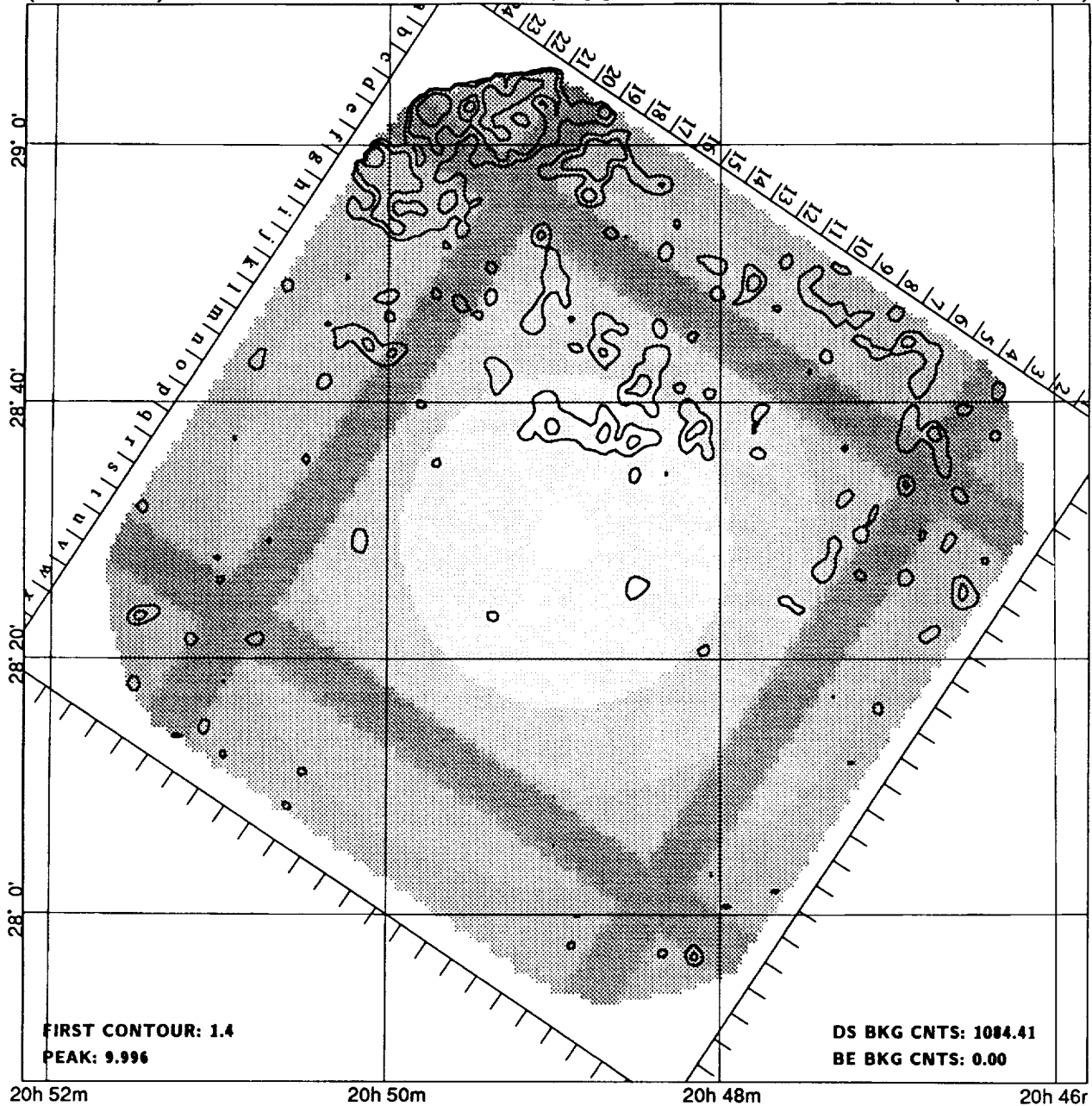
DATE: 1980/144 - 1980/144
LIVETIME: 6296.4s
ROLL ANGLE: -63.2°

NH: $1.9\text{E}+21$
REF/ID:
FIELD FLAGS: DLST

(20h 48m)

I 3793

(20h 48m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}48^{\text{m}}58.8^{\text{s}}$ $28^{\circ}28'59''$ (B1950)
 $20^{\text{h}}51^{\text{m}}05.7^{\text{s}}$ $28^{\circ}40'17''$ (J2000)
 $l: 72.41$ $b: -9.83$

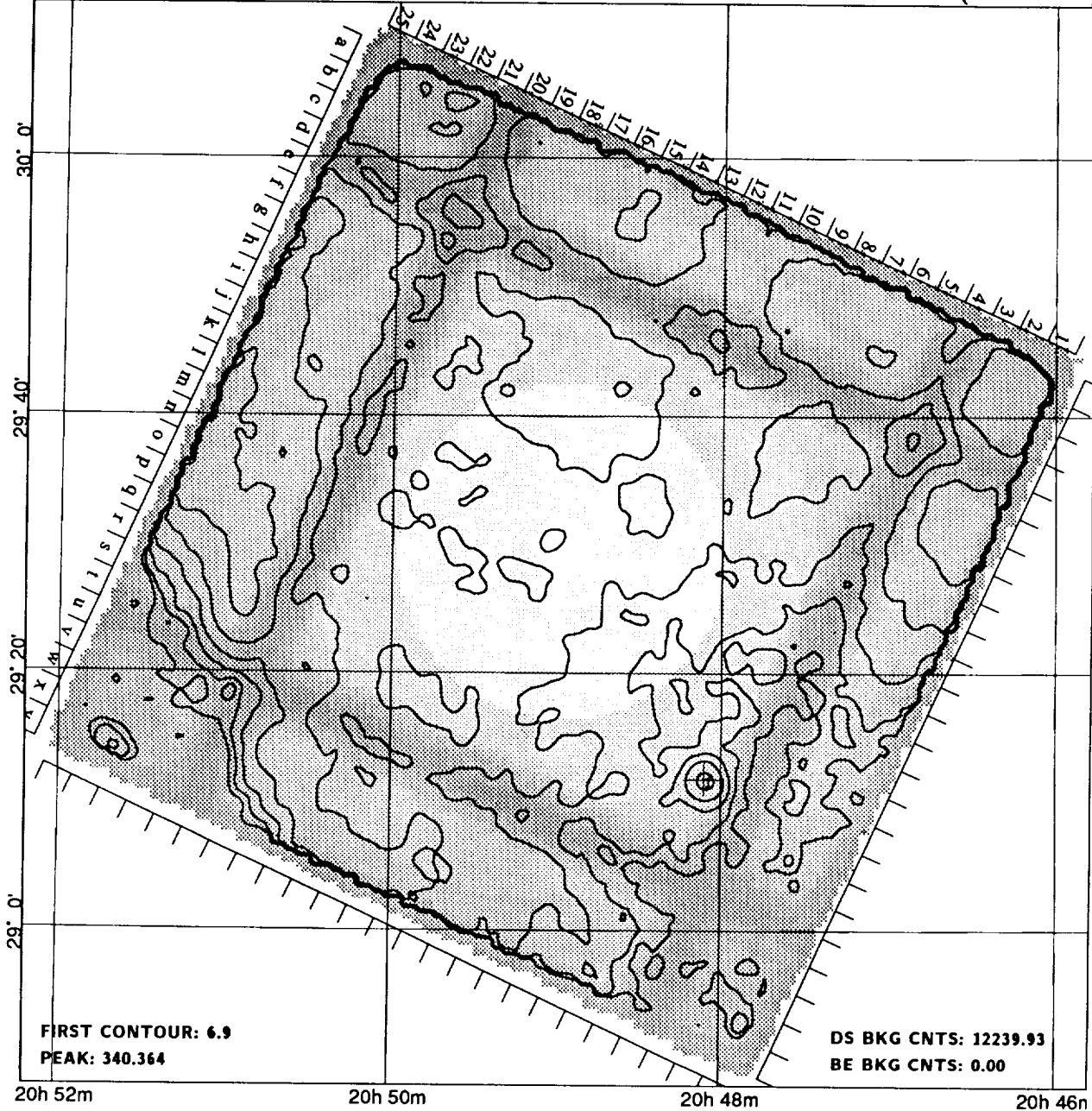
DATE: 1979/338 - 1979/338
 LIVETIME: 878.7s
 ROLL ANGLE: 123.7°

NH: $1.4\text{E}+21$
 REF/ID:
 FIELD FLAGS: LS

(20h 48m)

I 5272

(20h 48m)



CYGNUS LOOP

FIELD CENTER: 20^h48^m59.8^s 29°29'59" (B1950)
 20^h51^m05.6^s 29°41'17" (J2000)
l: 73.22 *b*: -9.19

DATE: 1979/326 - 1979/326
 LIVETIME: 9918.4s
 ROLL ANGLE: 114.7°

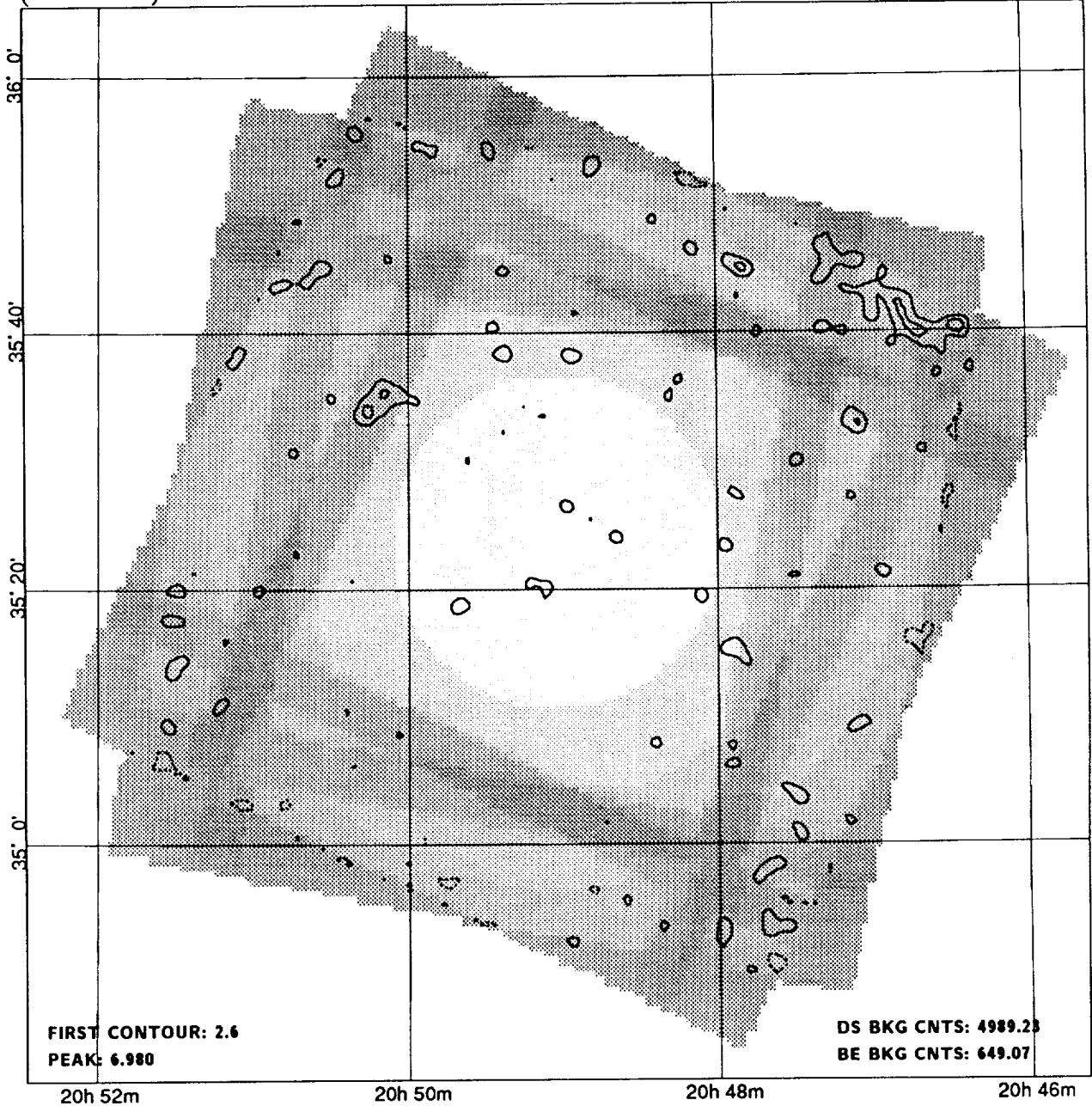
NH: 1.5E+21
 REF/ID: SNR
 FIELD FLAGS: LST

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4425	1L	20 48 06.1	29 11 46	47	0.0659	0.0051	326.3	116.7	12.7	268.2	400	21.8	S

(20h 49m)

I 5024

(20h 49m)



HBV 475, SYMBIOTIC STARS'

FIELD CENTER: $20^{\text{h}}49^{\text{m}}02.4^{\text{s}}$ $35^{\circ}23'38''$ (B1950)
 $20^{\text{h}}51^{\text{m}}01.0^{\text{s}}$ $35^{\circ}34'55''$ (J2000)
 $l: 77.83$ $b: -5.48$

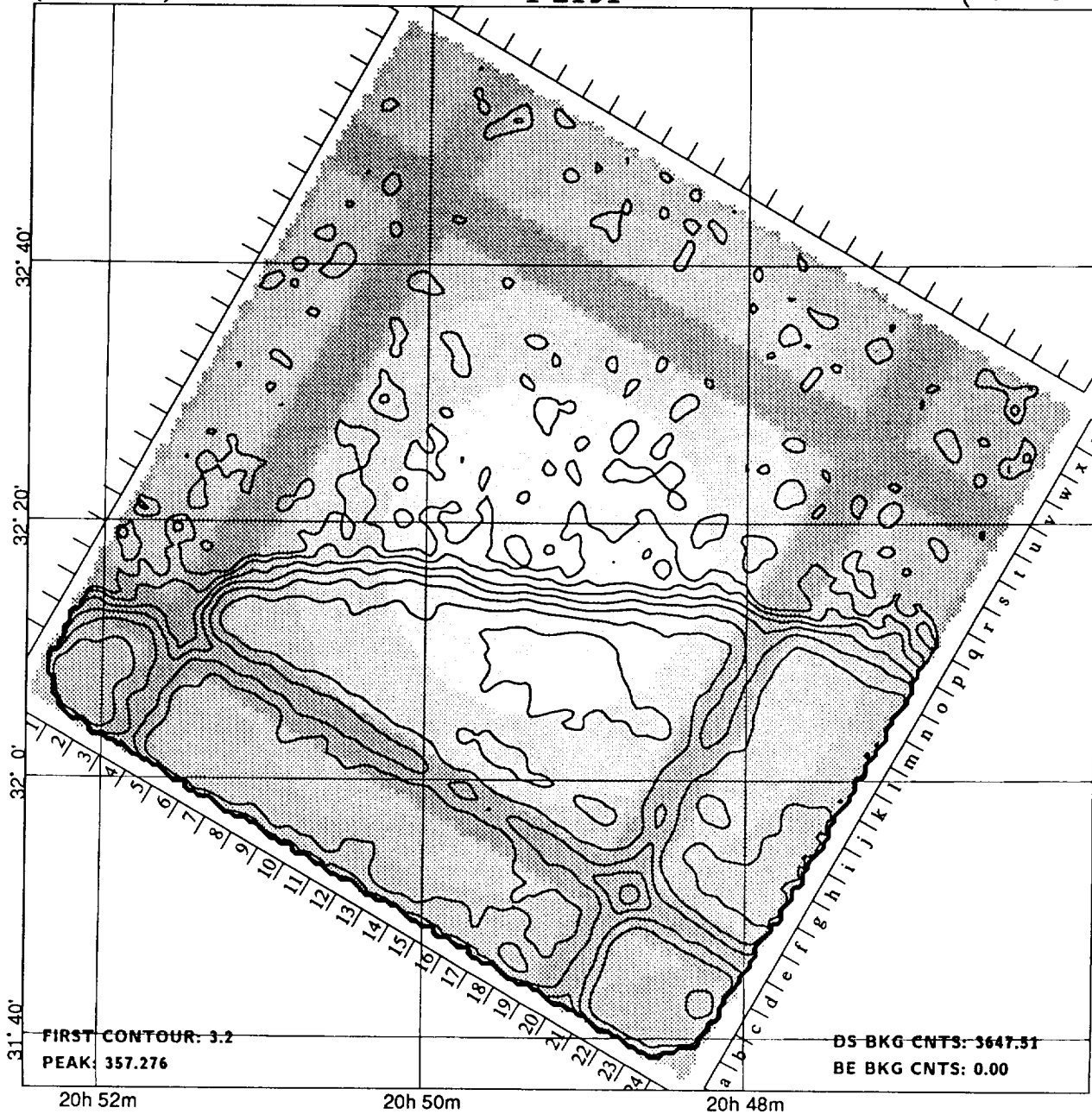
DATE: 1979/327 - 1980/122
 LIVETIME: 4042.9s

NH: $3.4E+21$
 REF/ID:
 FIELD FLAGS:

(20h 49m)

I 2191

(20h 49m)



X-RAY STUDY OF SUPERNOVA REMNANTS:CYGNUS LOOP

FIELD CENTER: $20^{\text{h}}49^{\text{m}}09.9^{\text{s}}$ $32^{\circ}17'59''$ (B1950)
 $20^{\text{h}}51^{\text{m}}12.4^{\text{s}}$ $32^{\circ}29'17''$ (J2000)
 $l: 75.44$ $b: -7.46$

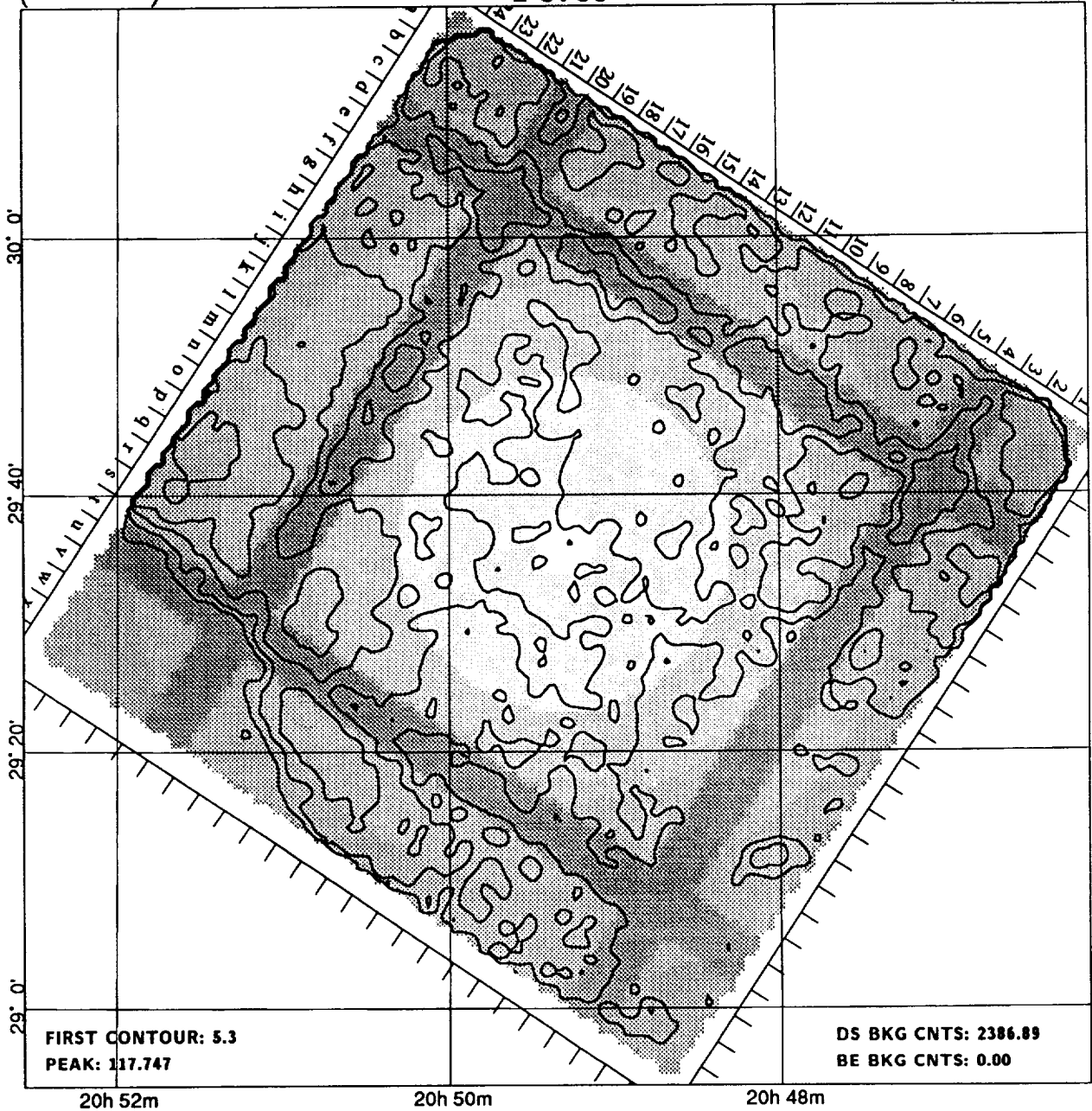
DATE: 1980/143 - 1980/143
 LIVETIME: 2955.7s
 ROLL ANGLE: -60.3°

NH: $2.2\text{E}+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 49m)

I 3783

(20h 49m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}49^{\text{m}}20.9^{\text{s}}$ $29^{\circ}35'59''$ (B1950)
 $20^{\text{h}}51^{\text{m}}26.6^{\text{s}}$ $29^{\circ}47'18''$ (J2000)
 $l: 73.35$ $b: -9.19$

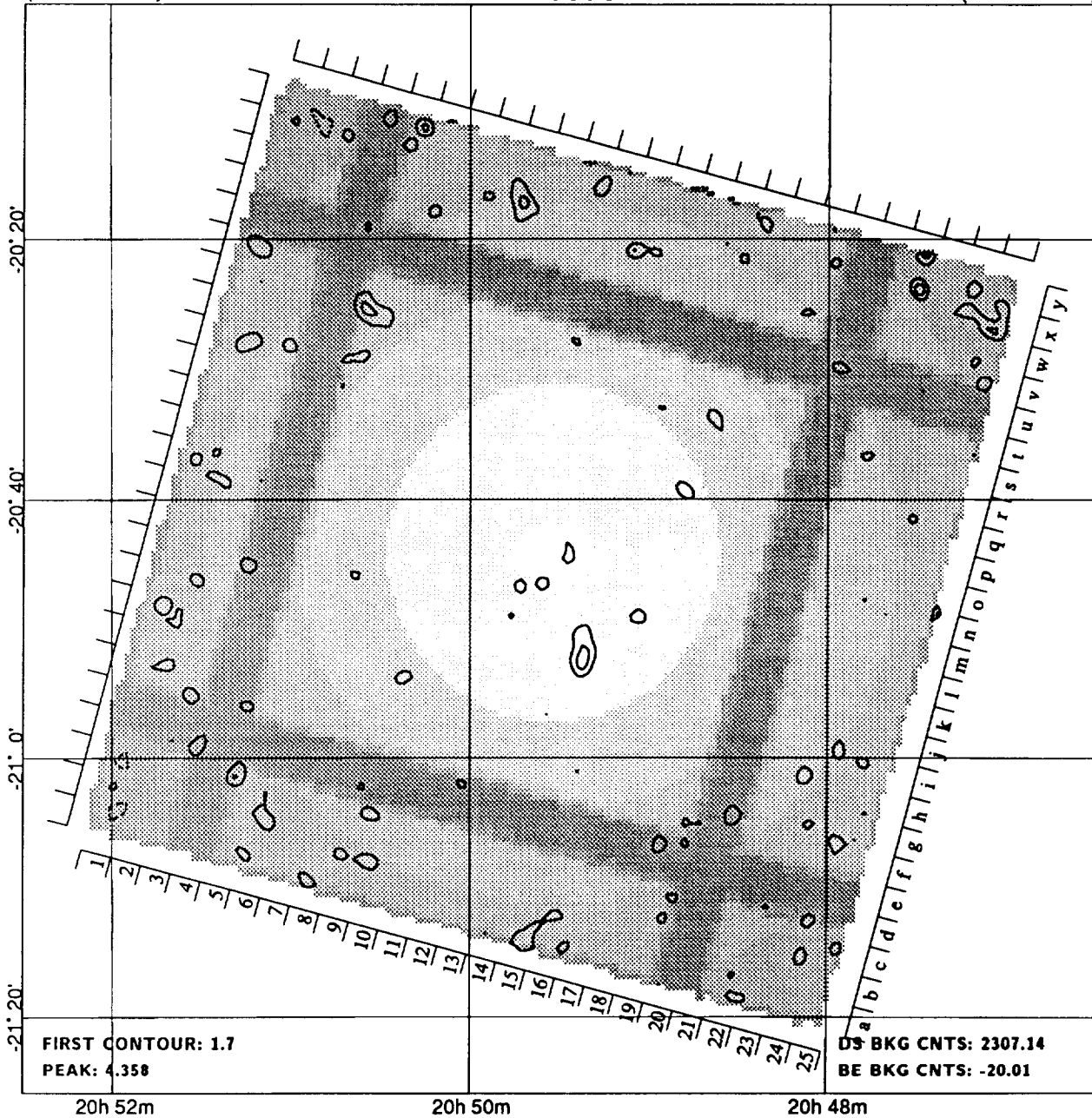
DATE: 1979/338 - 1979/338
LIVETIME: 1934.2s
ROLL ANGLE: 123.5°

NH: $1.6\text{E}+21$
REF/ID: I
FIELD FLAGS: DLST

(20h 49m)

I 8393

(20h 49m)



CLUSTER 597, ADDITIONAL SOUTHERN HIGH REDSHIFT CLUSTERS

FIELD CENTER: 20^h49^m29.8^s -20°43'59" (B1950)
 20^h52^m22.0^s -20°32'39" (J2000)
 l : 26.07 b : -35.42

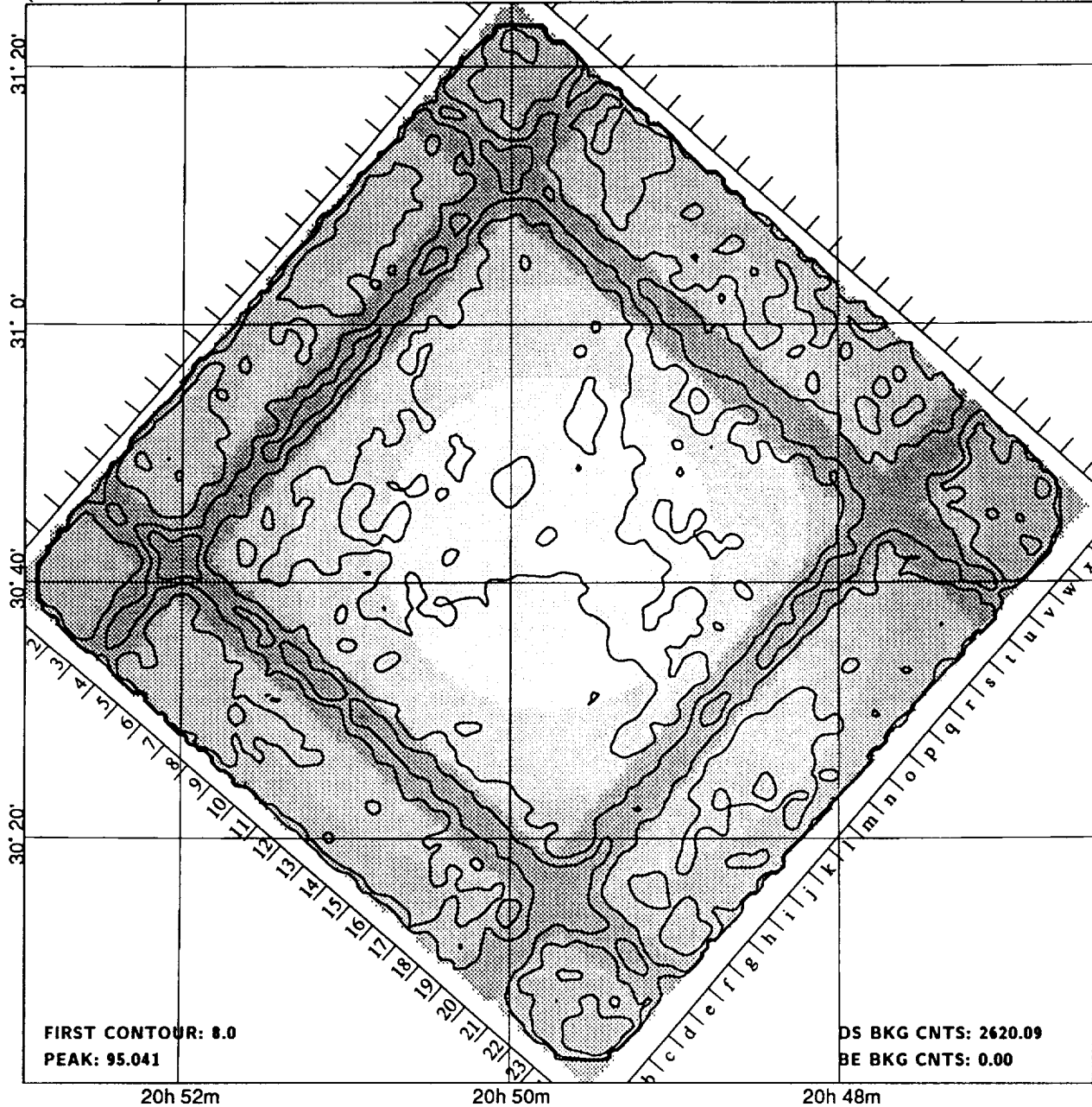
DATE: 1980/129 - 1980/129
 LIVETIME: 1936.7s
 ROLL ANGLE: -75.0°

NH: 5.7E+20
 REF/ID:
 FIELD FLAGS:

(20h 49m)

I 3766

(20h 49m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: 20^h49^m41.8^s 30°42'59" (B1950)
 20^h51^m46.3^s 30°54'19" (J2000)
 l : 74.27 b : -8.54

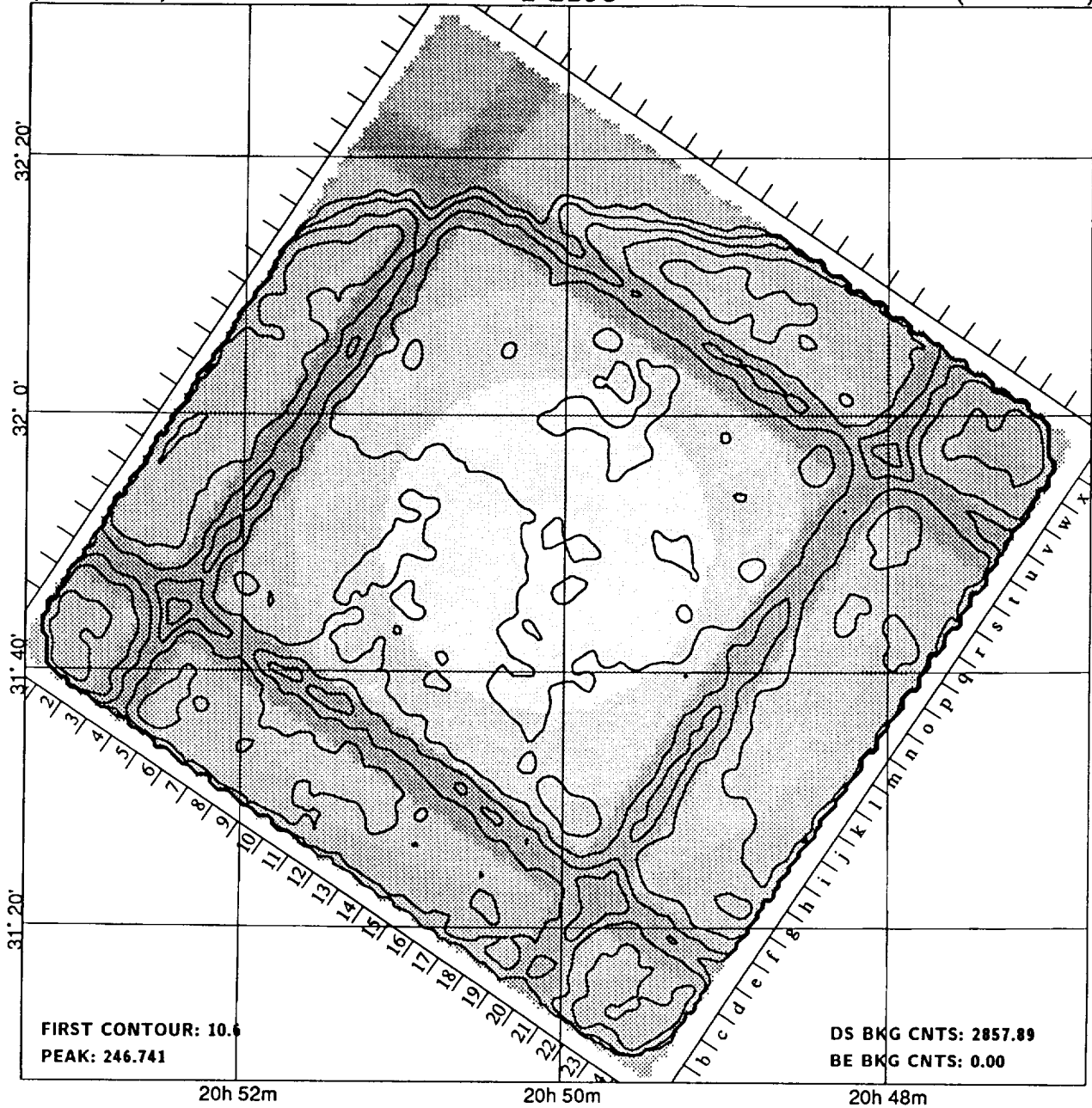
DATE: 1980/163 - 1980/164
LIVETIME: 2123.1s
ROLL ANGLE: -49.2°

NH: 1.7E+21
REF/ID:
FIELD FLAGS: DLST

(20h 50m)

I 2198

(20h 50m)



X-RAY STUDY OF SUPERNOVA REMNANTS:CYGNUS LOOP

FIELD CENTER: $20^h 50^m 02.9^s$ $31^\circ 49' 58''$ (B1950)
 $20^h 52^m 06.2^s$ $32^\circ 01' 19''$ (J2000)
 $l: 75.20$ $b: -7.90$

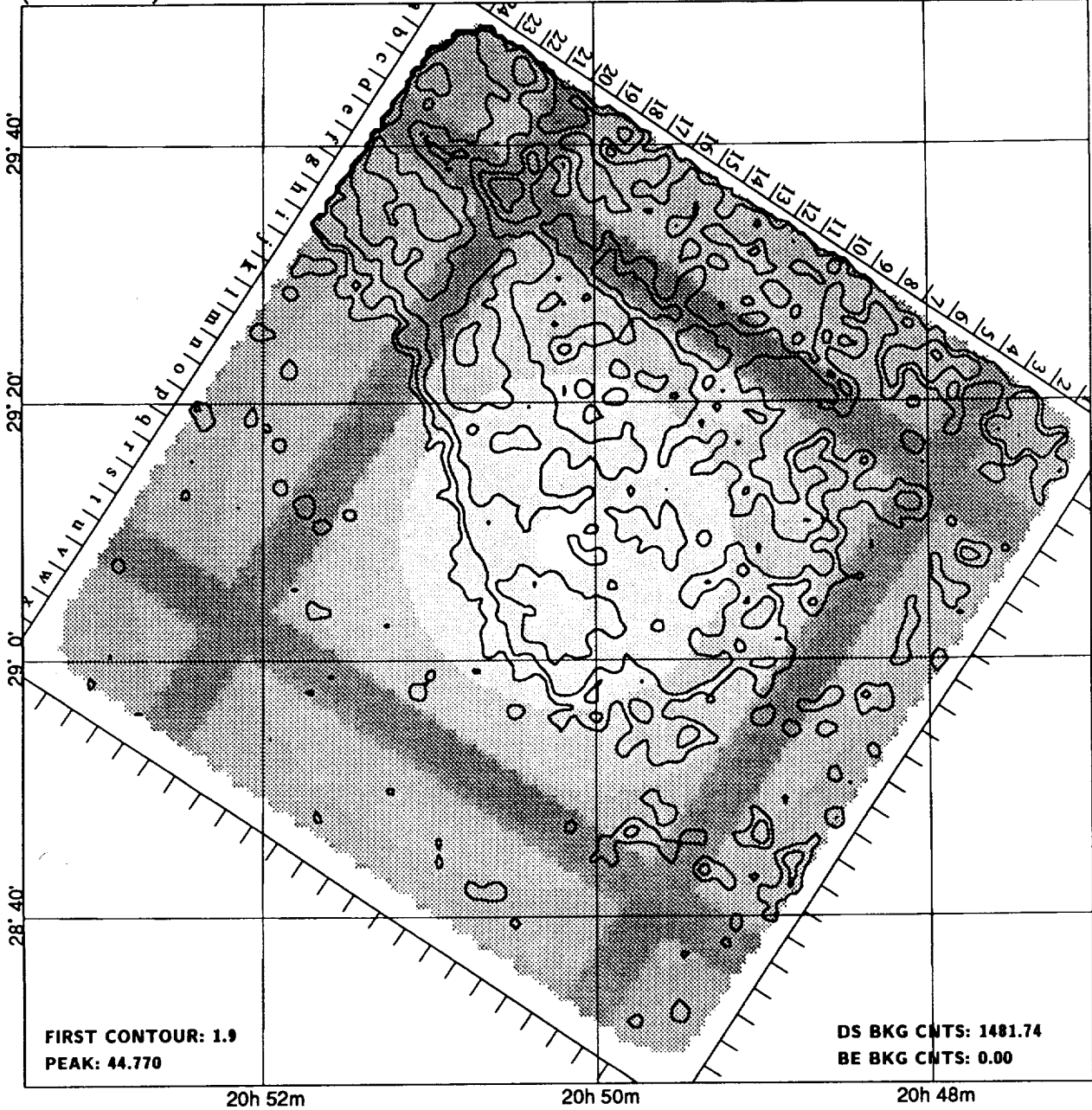
DATE: 1980/154 - 1980/154
LIVETIME: 2315.8s
ROLL ANGLE: -56.4°

NH: $2.1E+21$
REF/ID:
FIELD FLAGS: DLST

(20h 50m)

I 3789

(20h 50m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^h 50^m 13.8^s$ $29^\circ 08' 59''$ (B1950)
 $20^h 52^m 20.1^s$ $29^\circ 20' 21''$ (J2000)
 $l: 73.12$ $b: -9.62$

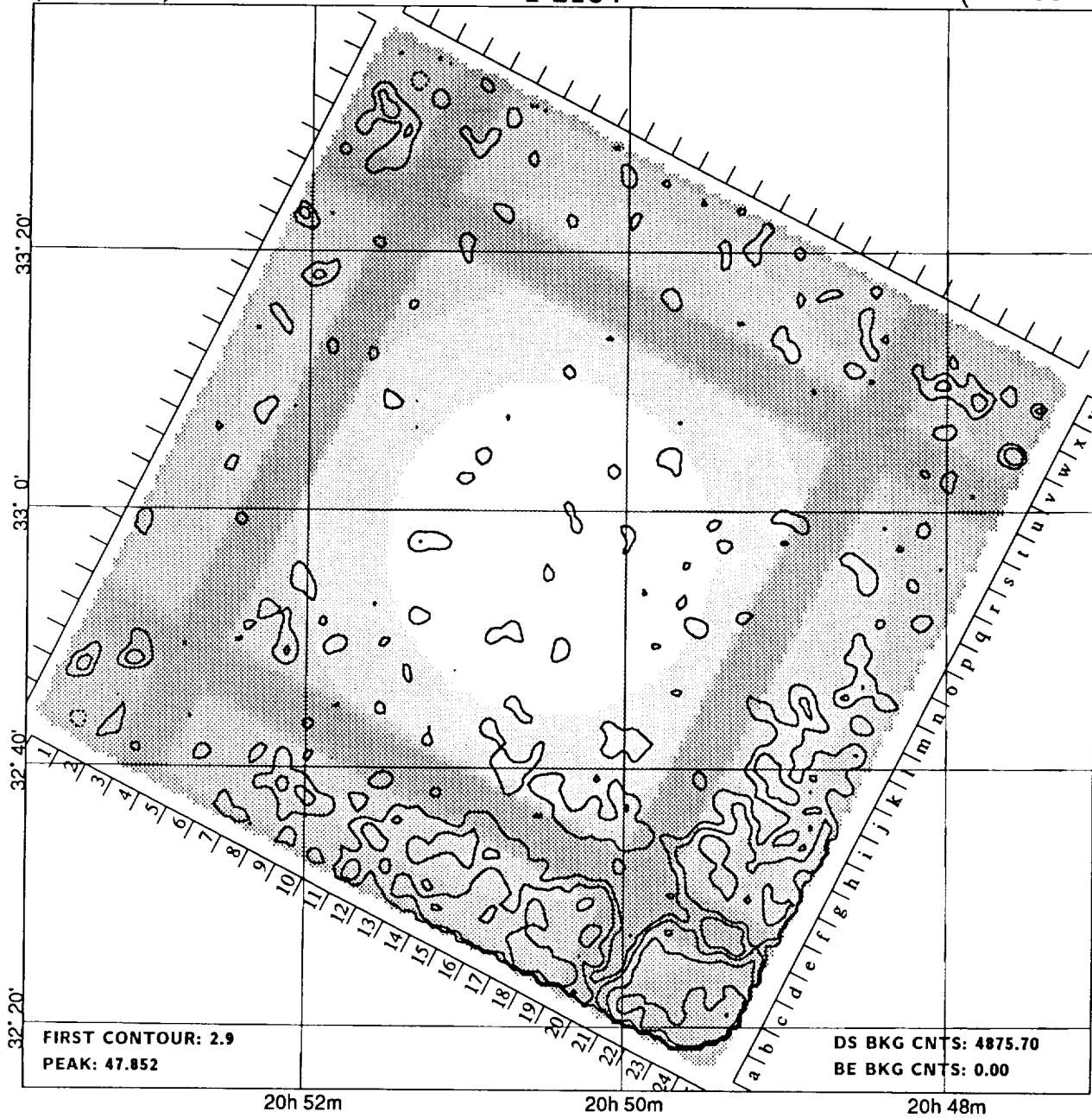
DATE: 1979/338 - 1979/338
 LIVETIME: 1200.7s
 ROLL ANGLE: 123.5°

NH: $1.4E+21$
 REF/ID:
 FIELD FLAGS: LS

(20h 50m)

I 2184

(20h 50m)



X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: $20^{\text{h}}50^{\text{m}}24.8^{\text{s}}$ $32^{\circ}56'59''$ (B1950)
 $20^{\text{h}}52^{\text{m}}26.7^{\text{s}}$ $33^{\circ}08'21''$ (J2000)
 $l: 76.12$ $b: -7.25$

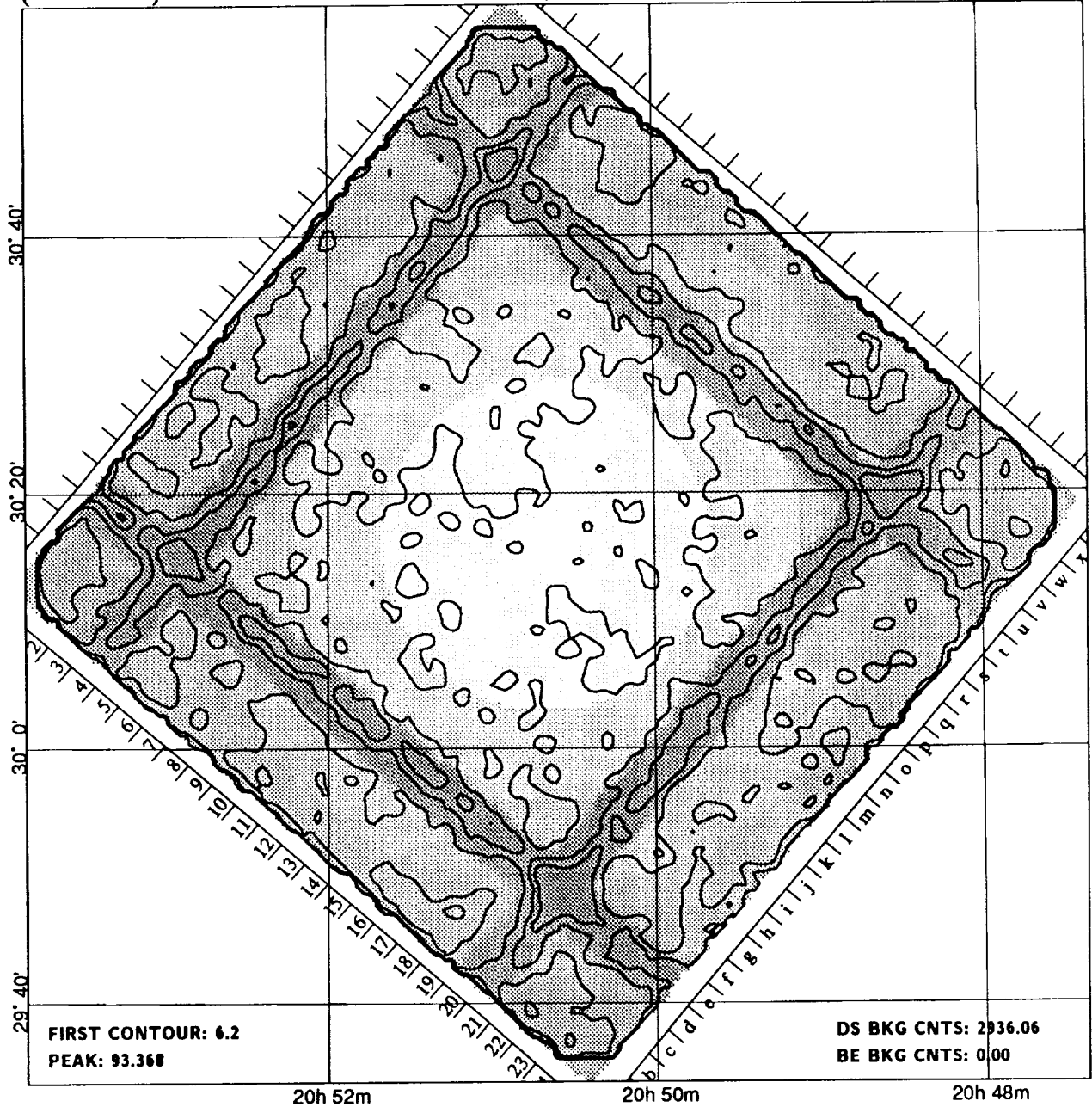
DATE: 1980/144 - 1980/145
 LIVETIME: 3950.9s
 ROLL ANGLE: -63.0°

NH: $2.1\text{E}+21$
 REF/ID:
 FIELD FLAGS: LS

(20h 50m)

I 3774

(20h 50m)



FIRST CONTOUR: 6.2
PEAK: 93.368

DS BKG CNTS: 2936.06
BE BKG CNTS: 0.00

CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^h 50^m 35.8^s$ $30^\circ 15' 59''$ (B1950)
 $20^h 52^m 40.9^s$ $30^\circ 27' 22''$ (J2000)
 $l: 74.05$ $b: -8.98$

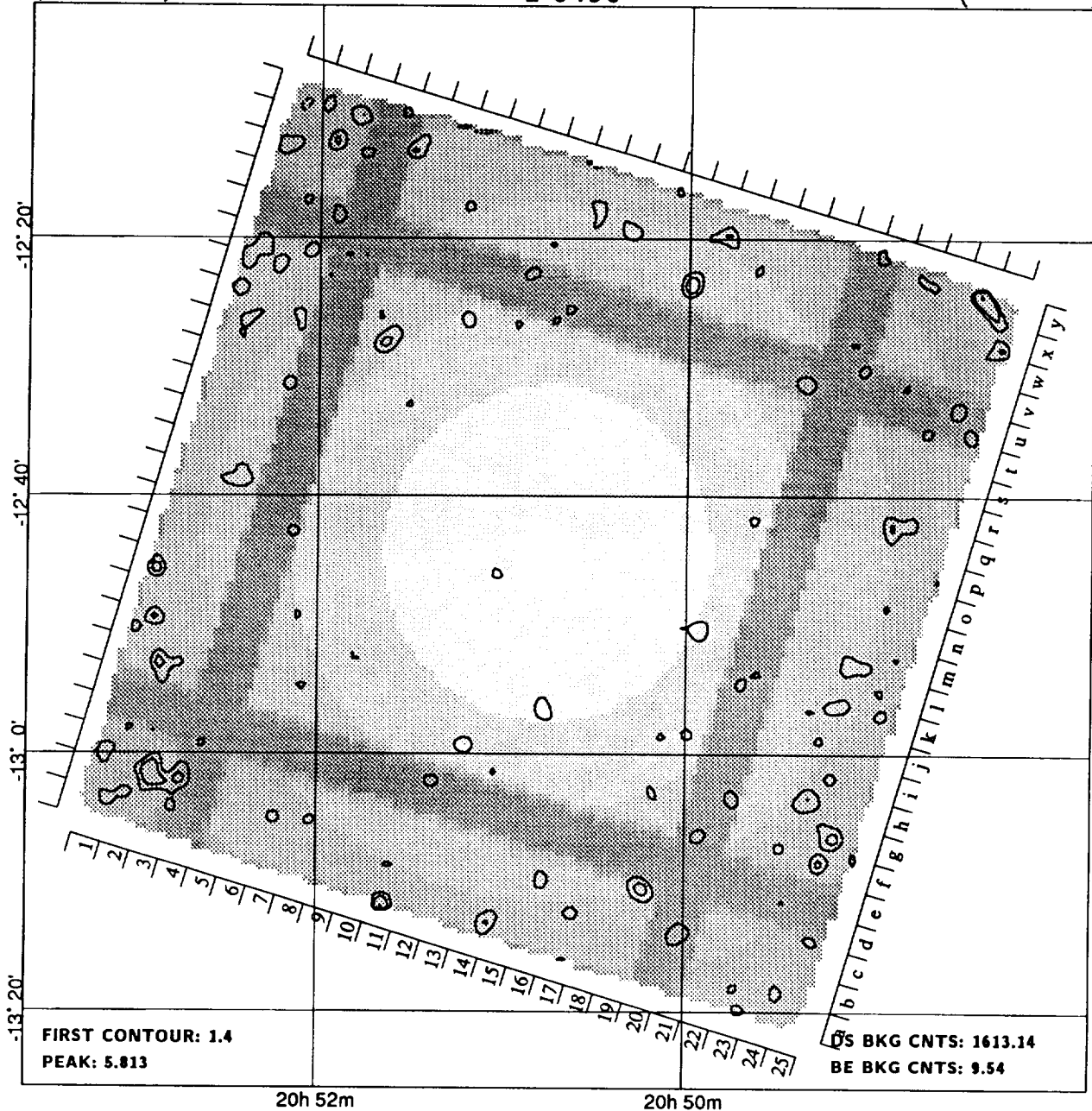
DATE: 1980/164 - 1980/164
LIVETIME: 2379.2s
ROLL ANGLE: -49.4°

NH: $1.6E+21$
REF/ID:
FIELD FLAGS: DLST

(20h 50m)

I 6496

(20h 50m)



NGC 6981, GLOBULAR CLUSTER SURVEY

FIELD CENTER: $20^{\text{h}}50^{\text{m}}41.8^{\text{s}}$ $-12^{\circ}43'59''$ (B1950)
 $20^{\text{h}}53^{\text{m}}26.5^{\text{s}}$ $-12^{\circ}32'36''$ (J2000)
 $l: 35.15$ $b: -32.68$

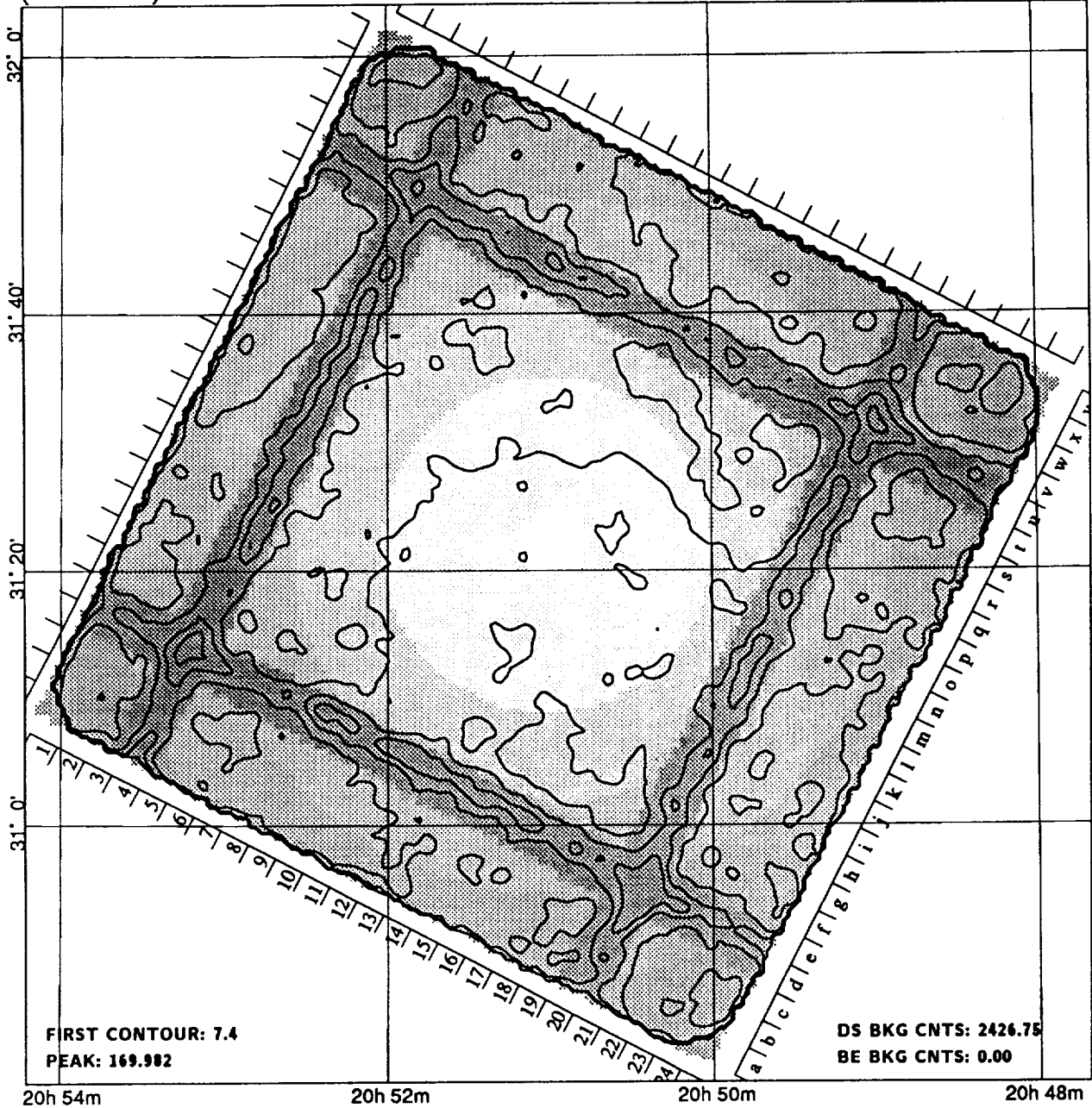
DATE: 1980/133 - 1980/133
 LIVETIME: 1307.2s
 ROLL ANGLE: -73.5°

NH: $4.3E+20$
 REF/ID:
 FIELD FLAGS:

(20h 50m)

I 2205

(20h 50m)



X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: $20^h 50^m 56.9^s$ $31^\circ 22' 00''$ (B1950)
 $20^h 53^m 00.8^s$ $31^\circ 33' 24''$ (J2000)
 $l: 74.96$ $b: -8.34$

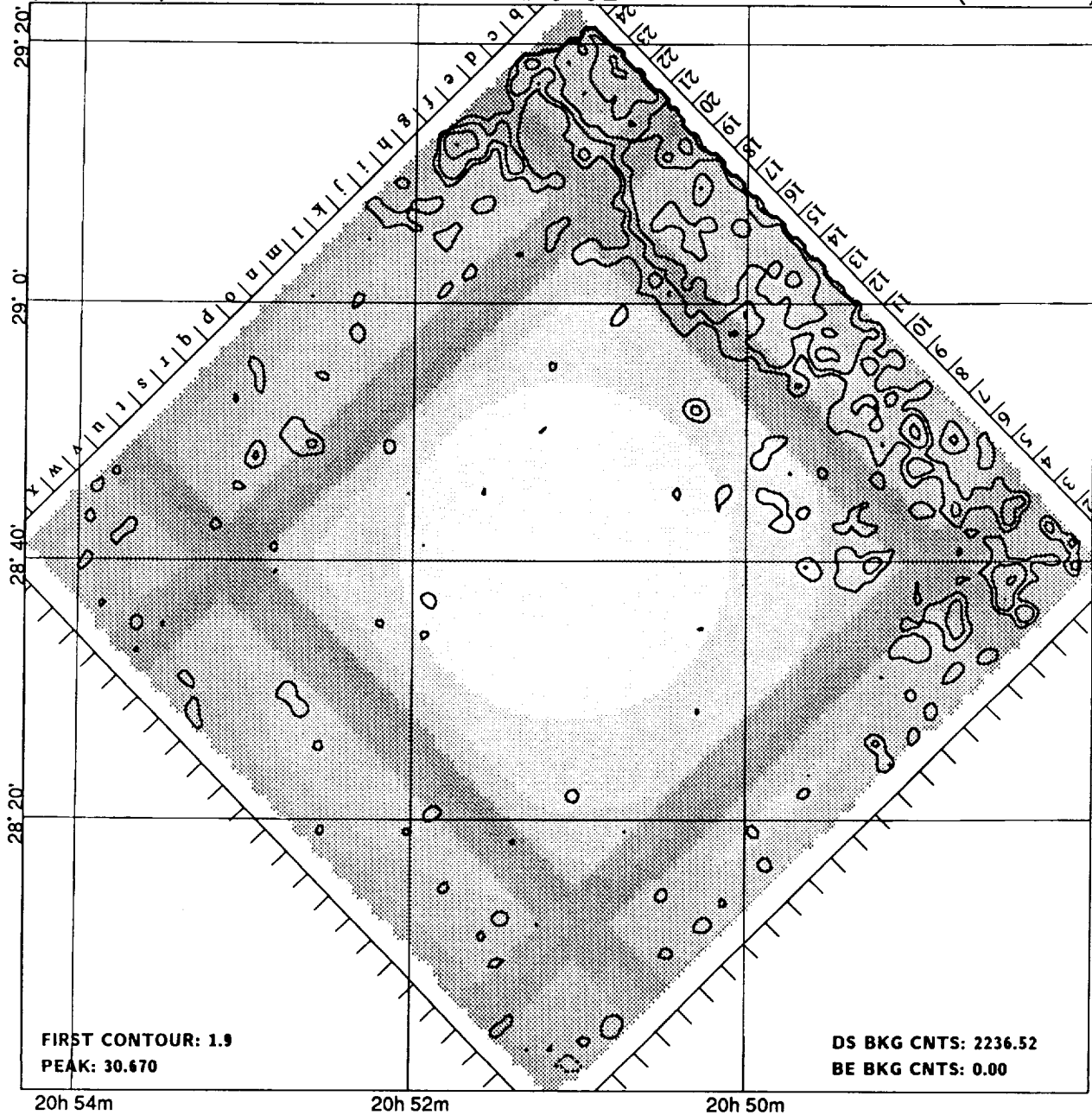
DATE: 1980/145 - 1980/145
 LIVETIME: 1966.5s
 ROLL ANGLE: -62.6°

NH: $1.8E+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 51m)

I 3792

(20h 51m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}51^{\text{m}}07.8^{\text{s}}$ $28^{\circ}40'59''$ (B1950)
 $20^{\text{h}}53^{\text{m}}14.8^{\text{s}}$ $28^{\circ}52'23''$ (J2000)
 $l: 72.87$ $b: -10.07$

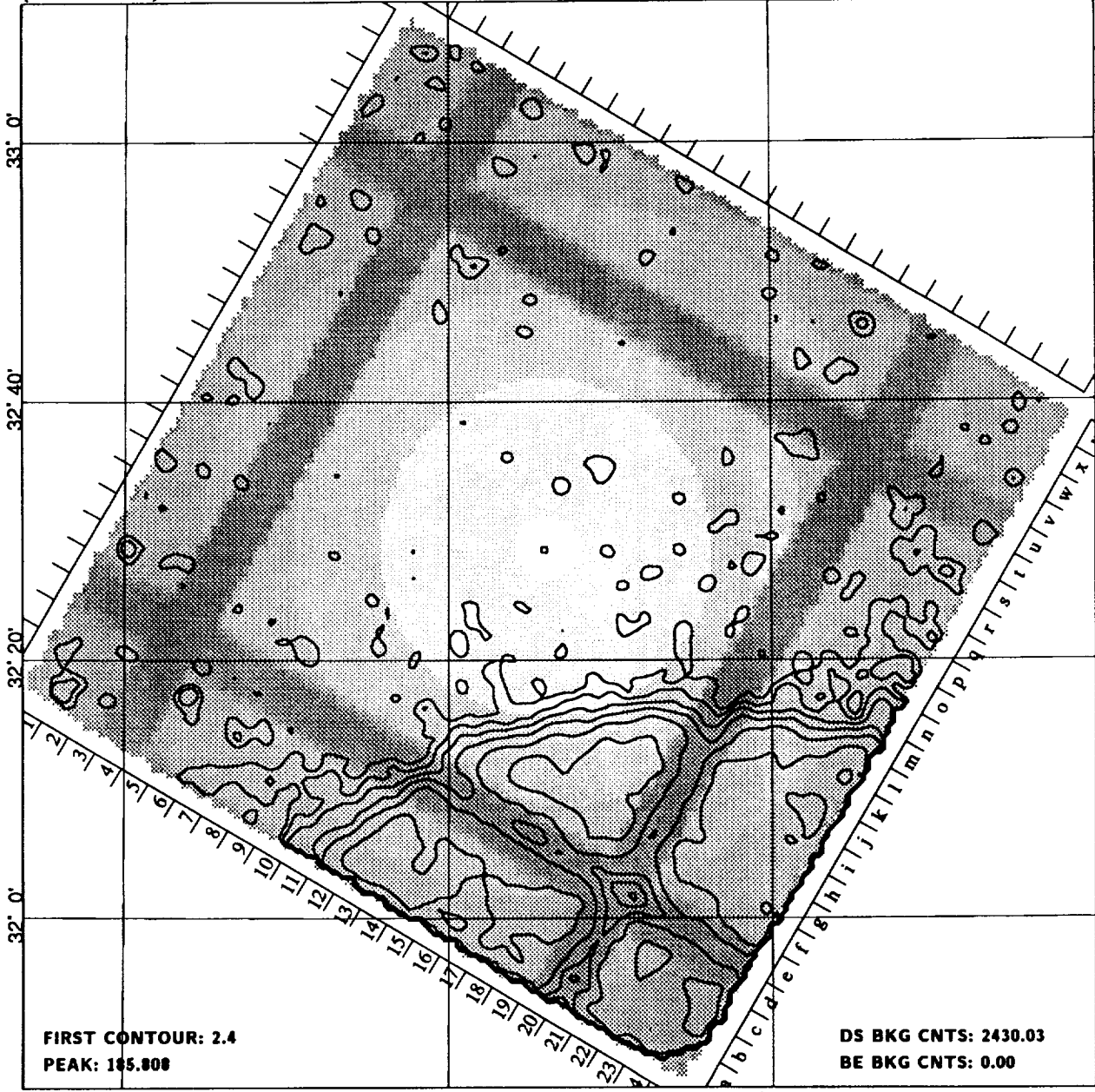
DATE: 1980/357 - 1980/357
 LIVETIME: 1812.3s
 ROLL ANGLE: 135.5°

NH: $1.4\text{E}+21$
 REF/ID:
 FIELD FLAGS: LS

(20h 51m)

I 2190

(20h 51m)



X-RAY STUDY OF SUPERNOVA REMNANTS:CYGNUS LOOP

FIELD CENTER: 20^h51^m18.8^s 32°28'58" (B1950)
 20^h53^m21.4^s 32°40'23" (J2000)
 l : 75.88 b : -7.69

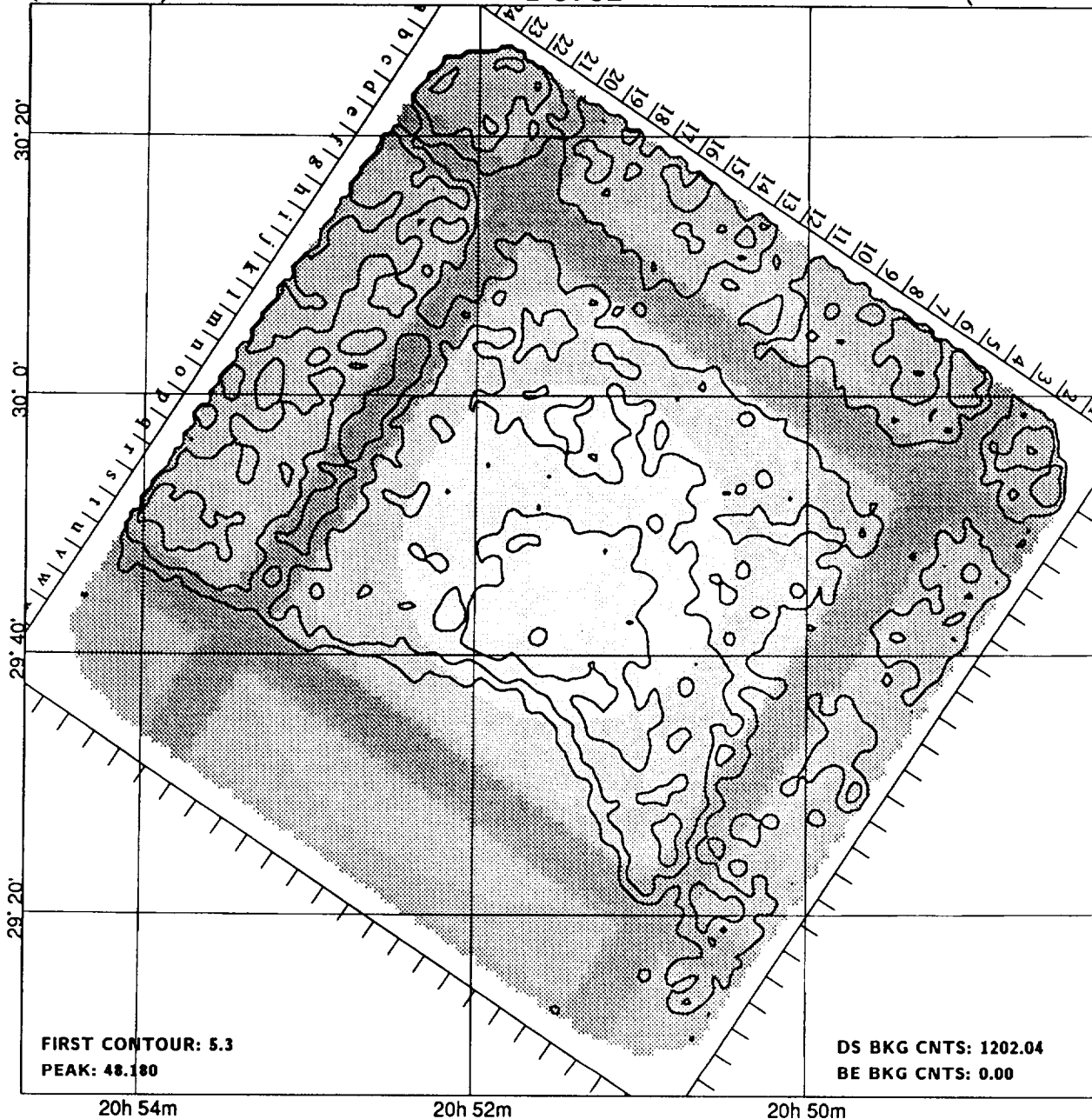
DATE: 1980/145 - 1980/145
 LIVETIME: 1969.2s
 ROLL ANGLE: -59.6°

NH: 2.0E+21
 REF/ID:
 FIELD FLAGS: DLST

(20h 51m)

I 3782

(20h 51m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}51^{\text{m}}28.8^{\text{s}}$ $29^{\circ}47'59''$ (B1950)
 $20^{\text{h}}53^{\text{m}}34.5^{\text{s}}$ $29^{\circ}59'24''$ (J2000)
 $l: 73.80$ $b: -9.42$

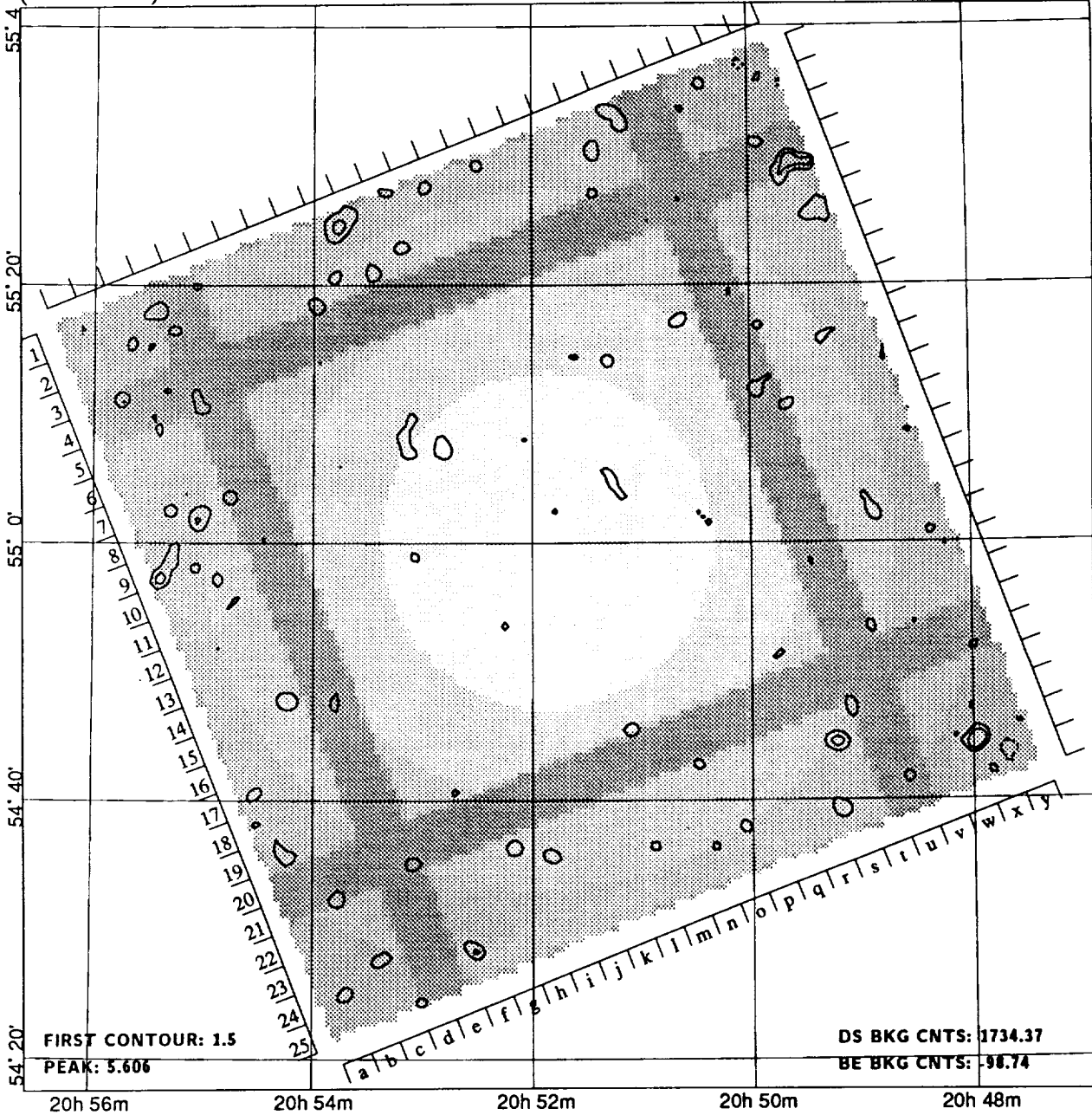
DATE: 1979/338 - 1979/338
 LIVETIME: 974.0s
 ROLL ANGLE: 123.5°

NH: $1.5\text{E}+21$
 REF/ID:
 FIELD FLAGS: LST

(20h 51m)

I 6780

(20h 51m)



SNR SURVEY: G93.2+6.7

FIELD CENTER: $20^{\text{h}}51^{\text{m}}45.8^{\text{s}}$ $54^{\circ}59'47''$ (B1950)
 $20^{\text{h}}53^{\text{m}}09.7^{\text{s}}$ $55^{\circ}11'12''$ (J2000)
 $l: 93.22$ $b: 6.72$

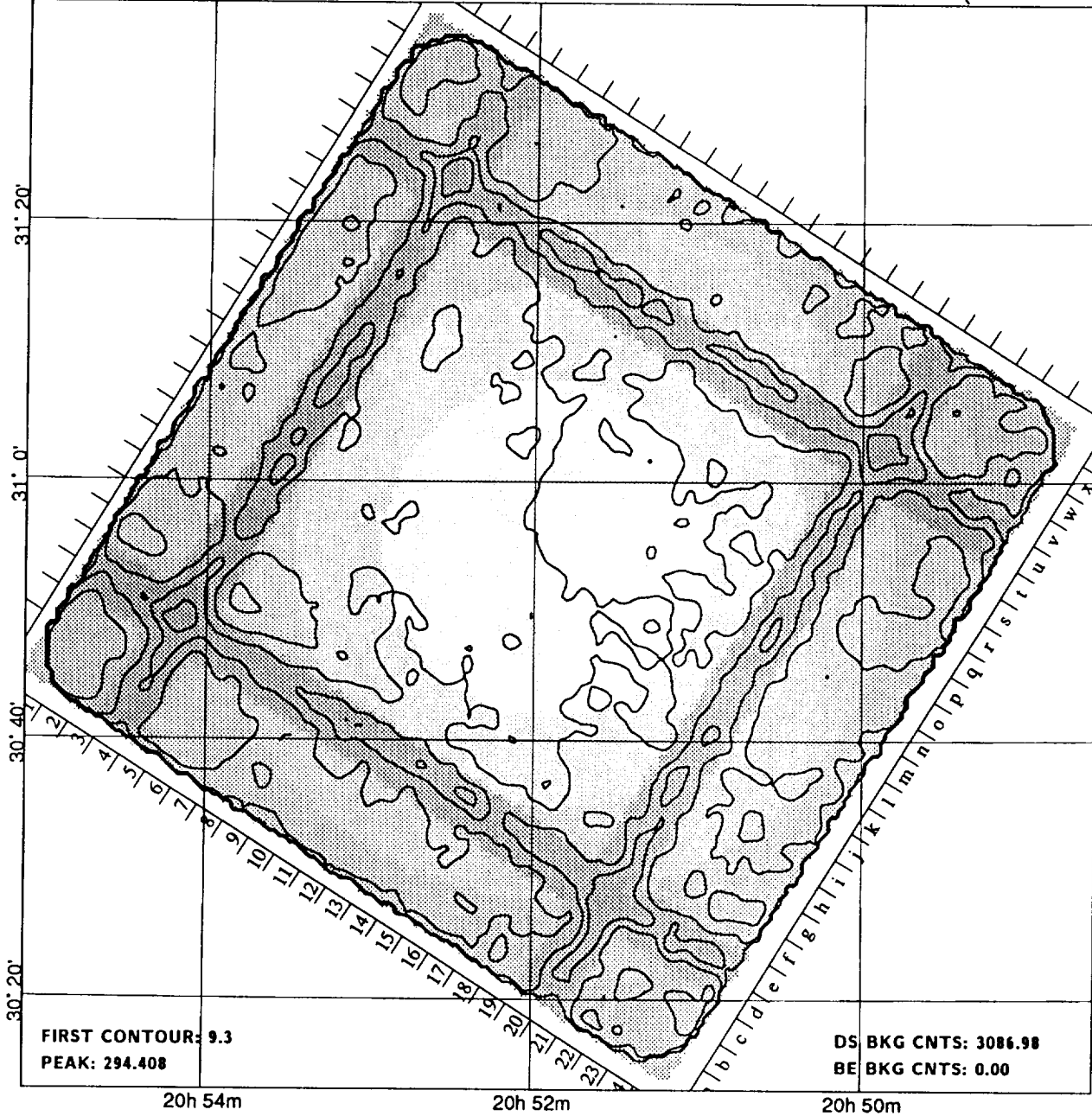
DATE: 1980/193 - 1980/193
 LIVETIME: 1405.4s
 ROLL ANGLE: -21.2°

NH: $5.0\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(20h 51m)

I 3765

(20h 51m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}51^{\text{m}}50.8^{\text{s}}$ $30^{\circ}54'59''$ (B1950)
 $20^{\text{h}}53^{\text{m}}55.3^{\text{s}}$ $31^{\circ}06'26''$ (J2000)
 $l: 74.73$ $b: -8.77$

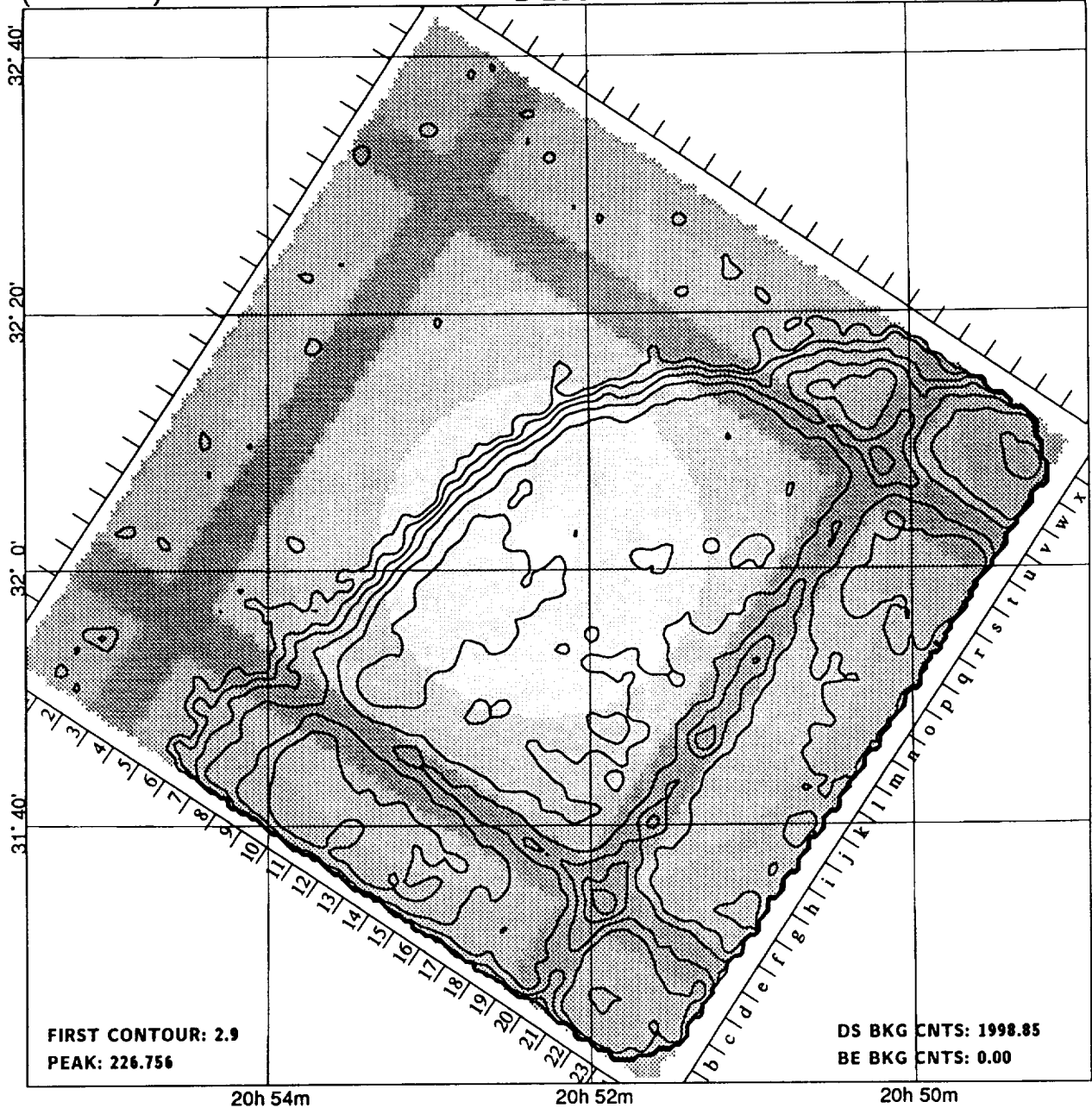
DATE: 1980/152 - 1980/152
 LIVETIME: 2501.5s
 ROLL ANGLE: -58.1°

NH: $1.6\text{E}+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 52m)

I 2197

(20h 52m)

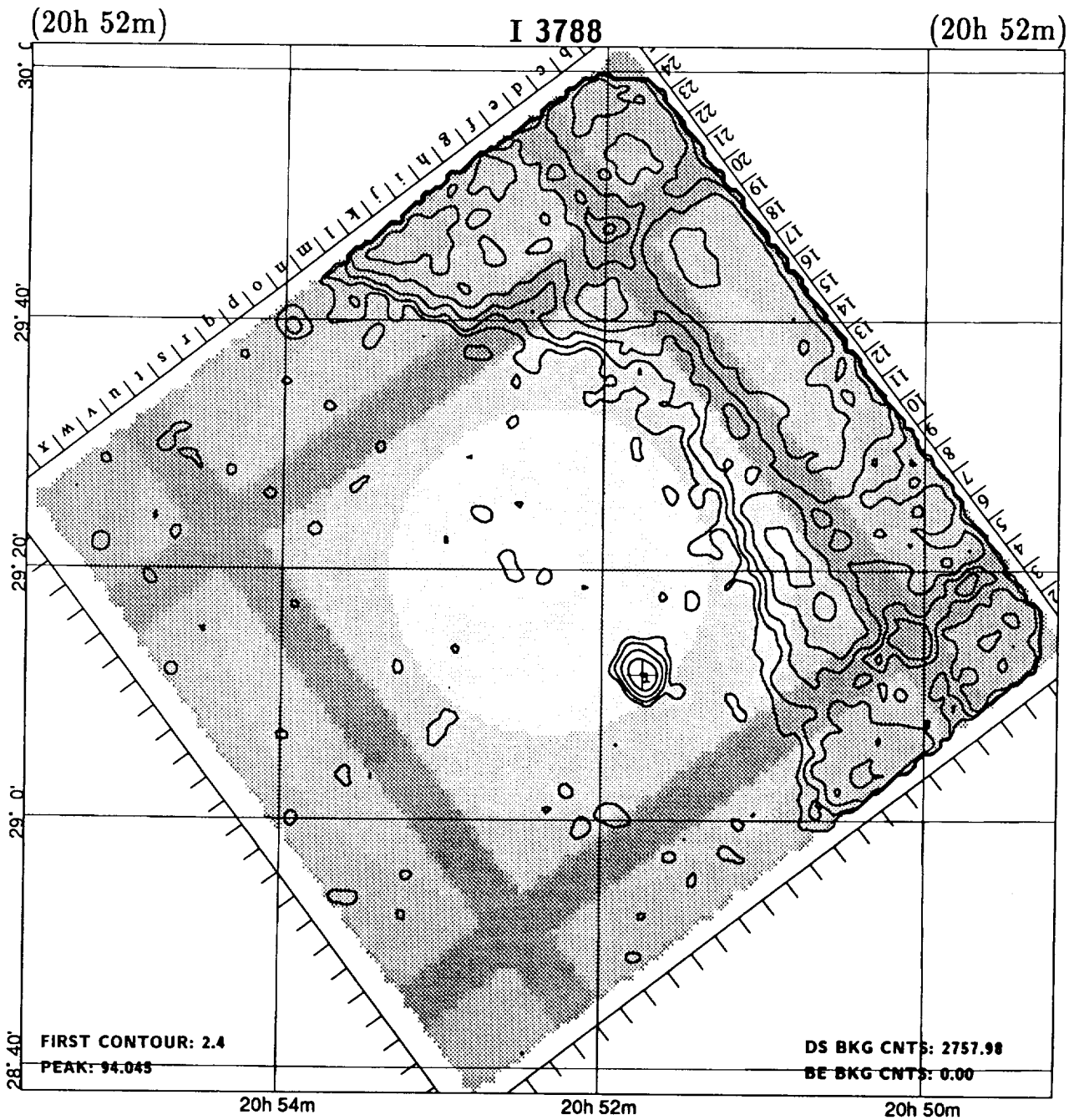


X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: $20^h 52^m 11.8^s$ $32^\circ 01' 58''$ (B1950)
 $20^h 54^m 15.0^s$ $32^\circ 13' 25''$ (J2000)
 $l: 75.65$ $b: -8.12$

DATE: 1980/154 - 1980/154
 LIVETIME: 1619.7s
 ROLL ANGLE: -56.5°

NH: $2.0E+21$
 REF/ID:
 FIELD FLAGS: DLST



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^h 52^m 22.8^s$ $29^\circ 19' 59''$ (B1950)
 $20^h 54^m 29.2^s$ $29^\circ 31' 27''$ (J2000)
 $l: 73.56$ $b: -9.87$

DATE: 1980/363 - 1980/363
 LIVETIME: 2234.9s
 ROLL ANGLE: 142.8°

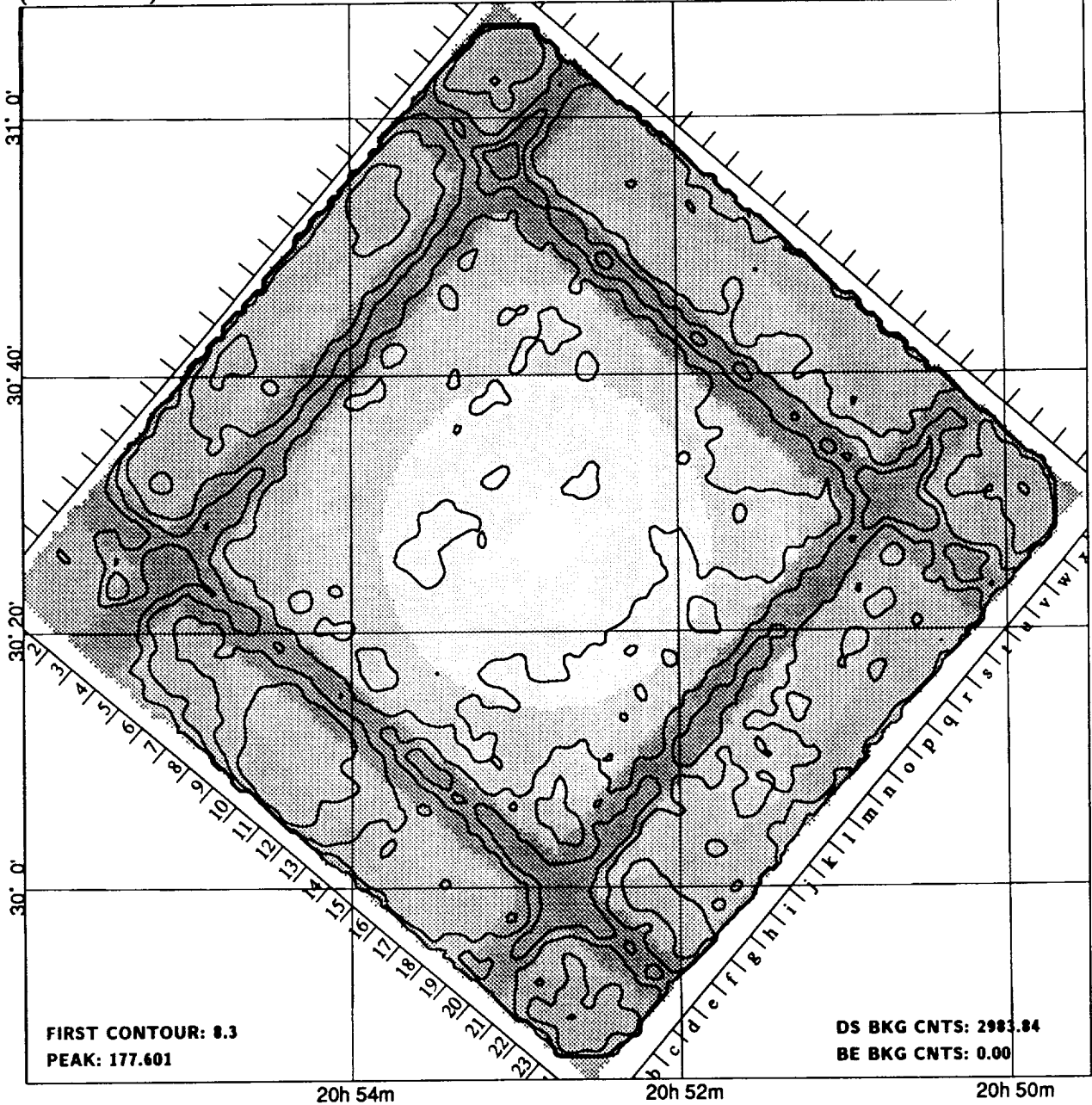
NH: $1.4E+21$
 REF/ID:
 FIELD FLAGS: DLS

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4426	1L	20 51 44.7	29 11 37	38	0.0874	0.0098	127.5	26.5	8.8	1.3	0	11.7	A

(20h 52m)

I 3773

(20h 52m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}52^{\text{m}}44.8^{\text{s}}$ $30^{\circ}26'59''$ (B1950)
 $20^{\text{h}}54^{\text{m}}49.9^{\text{s}}$ $30^{\circ}38'29''$ (J2000)
 $l: 74.49$ $b: -9.22$

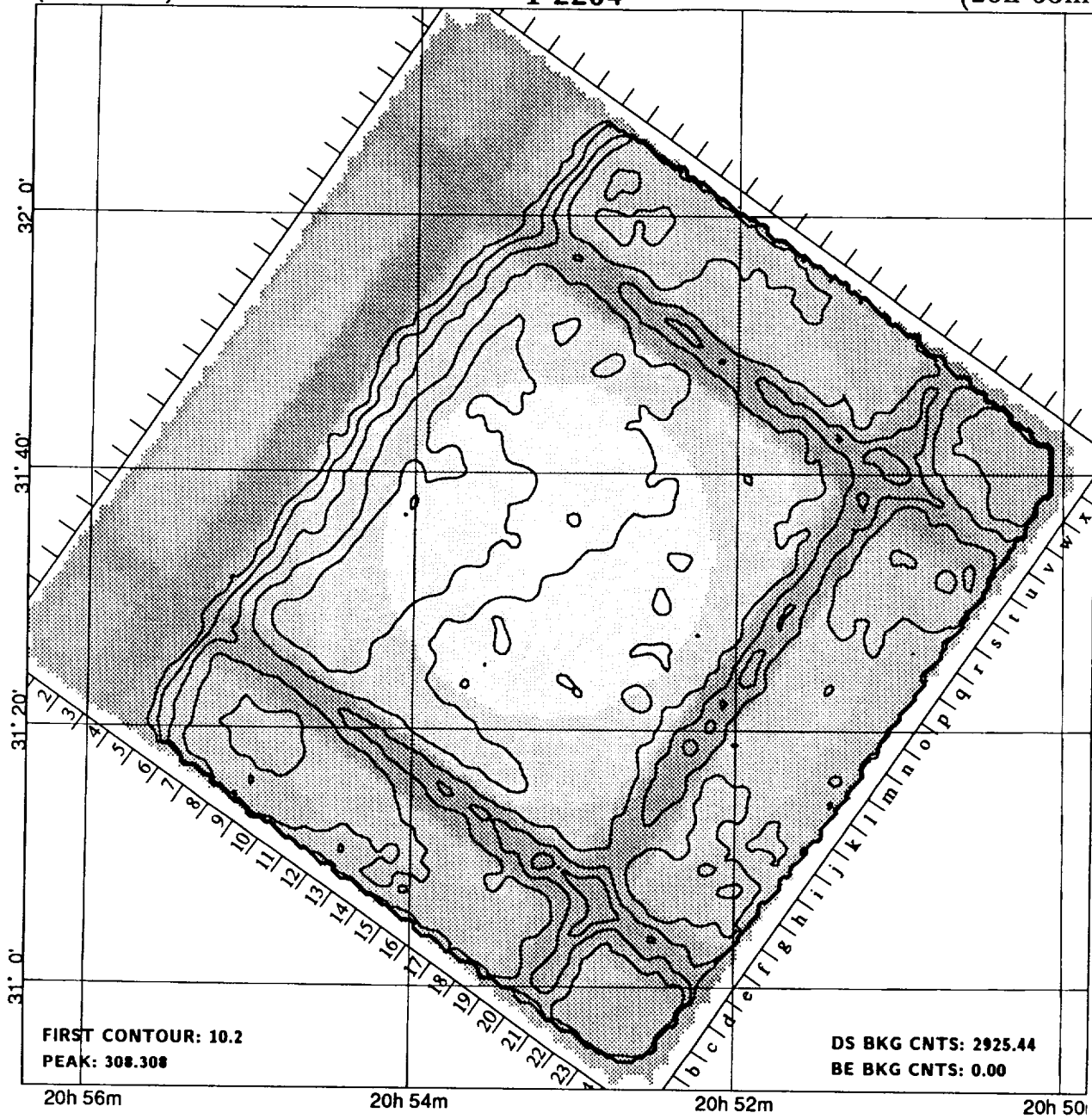
DATE: 1980/164 - 1980/164
 LIVETIME: 2417.9s
 ROLL ANGLE: -49.7°

NH: $1.5\text{E}+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 53m)

I 2204

(20h 53m)



X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: $20^{\text{h}}53^{\text{m}}05.8^{\text{s}}$ $31^{\circ}34'01''$ (B1950)
 $20^{\text{h}}55^{\text{m}}09.7^{\text{s}}$ $31^{\circ}45'31''$ (J2000)
 $l: 75.41$ $b: -8.57$

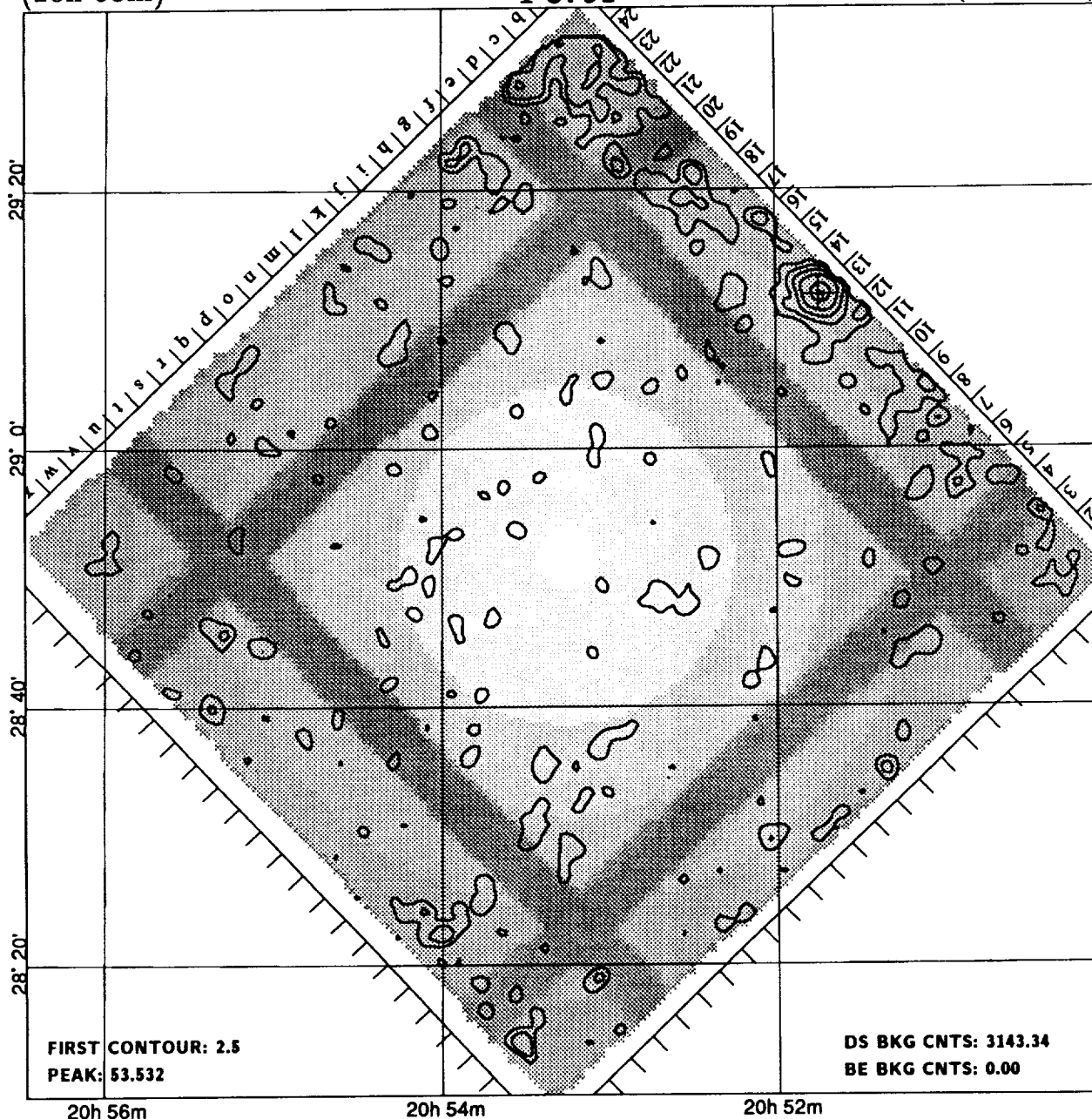
DATE: 1980/154 - 1980/154
 LIVETIME: 2370.6s
 ROLL ANGLE: -55.2°

NH: $1.8\text{E}+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 53m)

I 3791

(20h 53m)



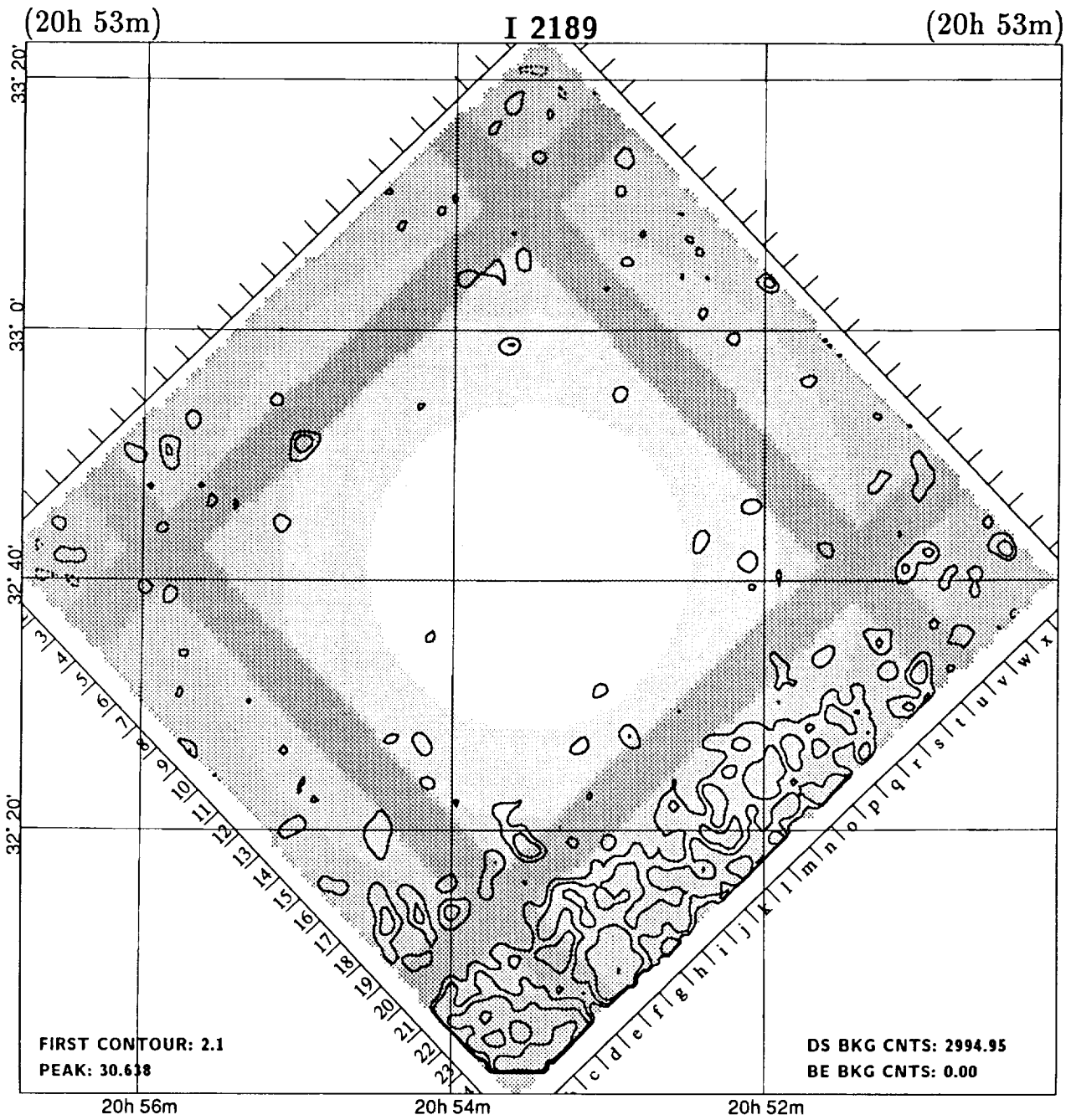
CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: 20^h53^m16.8^s 28°51'59" (B1950)
 20^h55^m23.8^s 29°03'30" (J2000)
l: 73.32 *b*: -10.32

DATE: 1980/363 - 1980/363
LIVETIME: 2547.1s
ROLL ANGLE: 136.5°

NH: 1.4E+21
REF/ID:
FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4426	1L	20 51 44.6	29 11 50	48	0.120	0.014	115.2	19.8	8.4	1.4	300	28.3	A

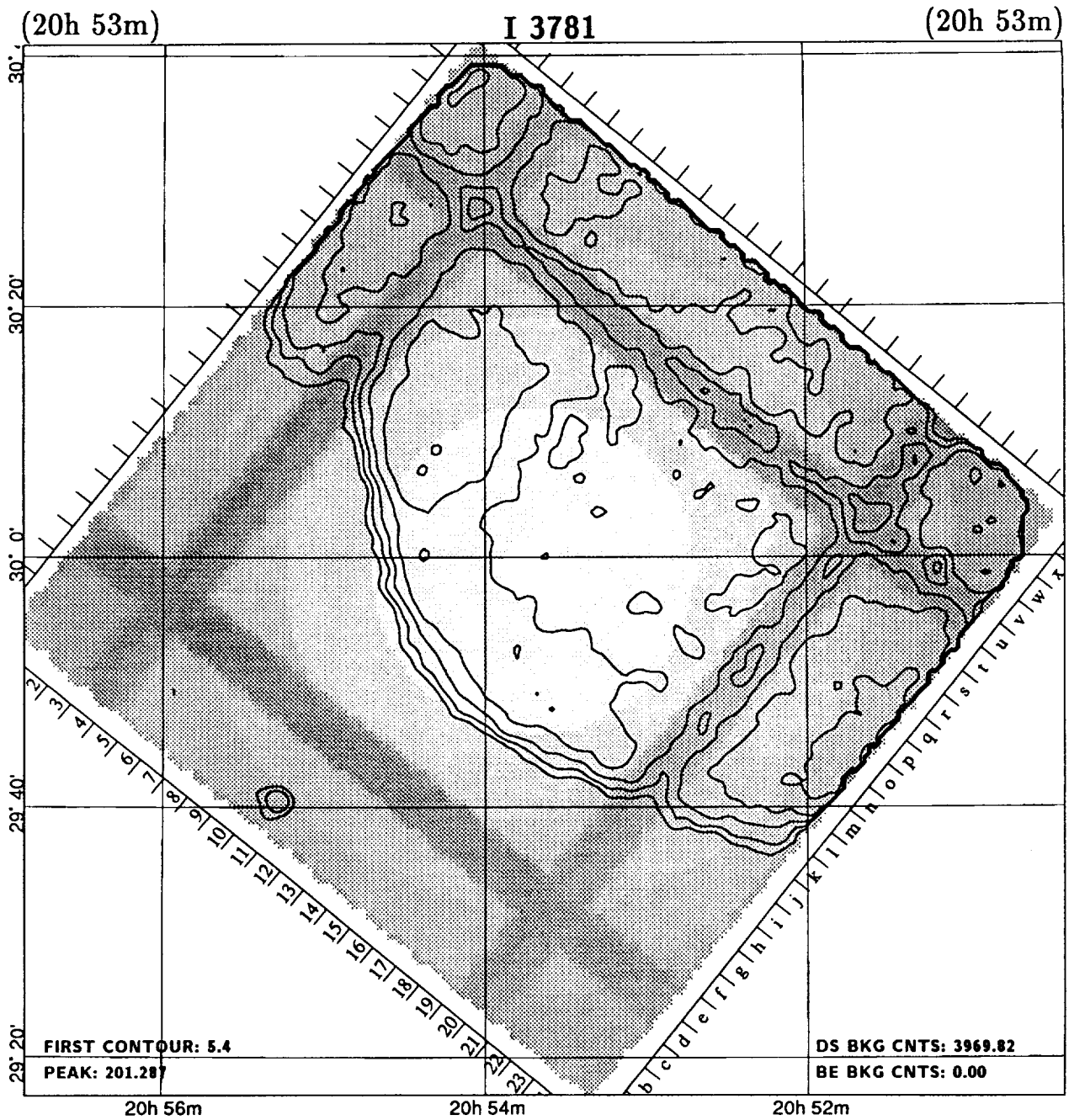


X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: 20^h53^m26.9^s 32°40'58" (B1950)
 20^h55^m29.5^s 32°52'29" (J2000)
 l : 76.32 b : -7.91

DATE: 1980/162 - 1980/162
 LIVETIME: 2426.9s
 ROLL ANGLE: -43.8°

NH: 1.9E+21
 REF/ID:
 FIELD FLAGS: LS



FIELD CENTER: $20^h 53^m 37.8^s$ $29^\circ 58' 59''$ (B1950)
 $20^h 55^m 43.6^s$ $30^\circ 10' 31''$ (J2000)
 $l: 74.25$ $b: -9.67$

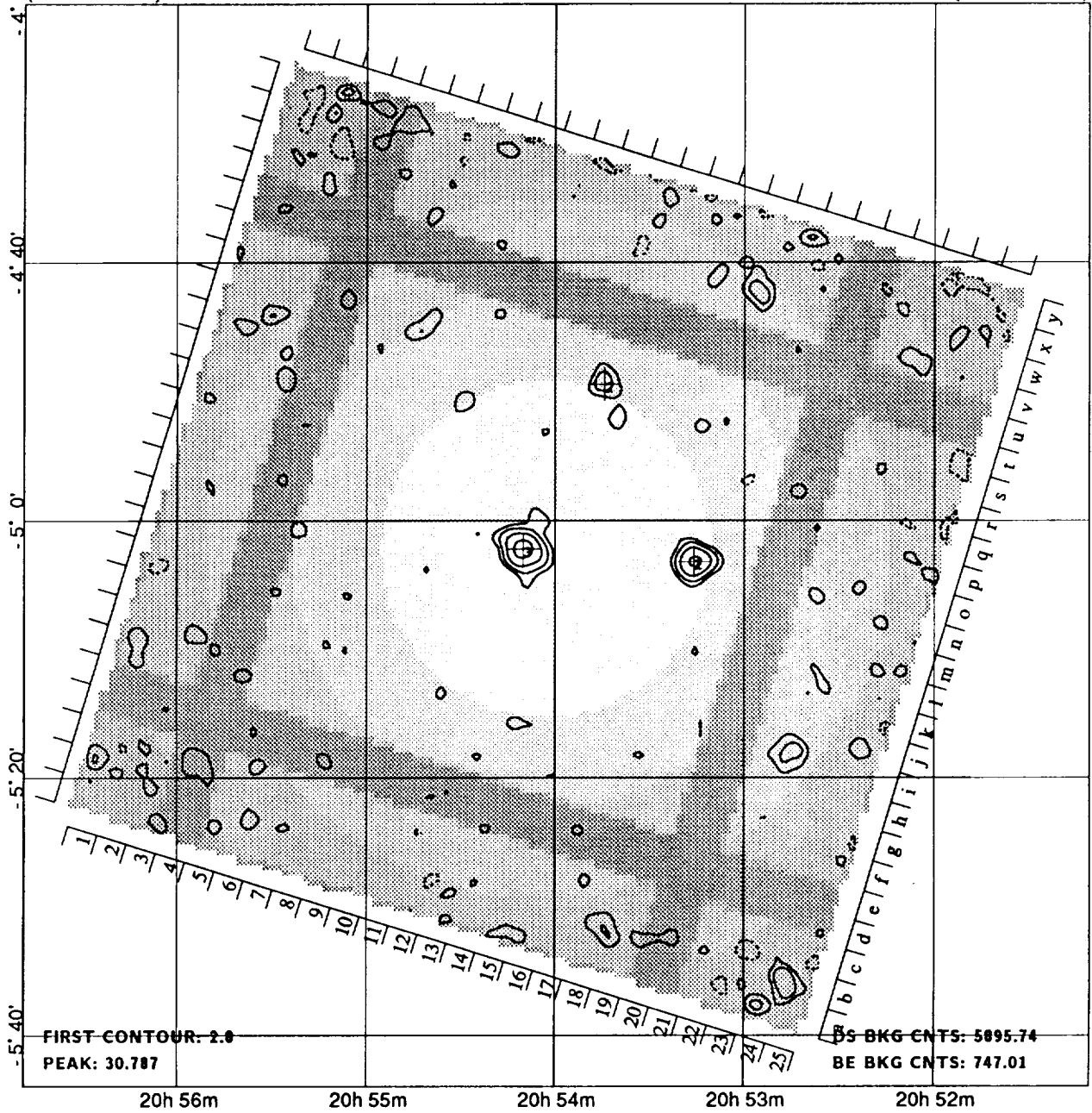
DATE: 1980/162 - 1980/162
 LIVETIME: 3216.9s
 ROLL ANGLE: -51.1°

NH: $1.5E+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 53m)

I 7416

(20h 53m)



GLIESE 812, HOT W.D. WITH MAIN SEQ COMPANION

FIELD CENTER: 20^h53^m59.8^s -05°01'59" (B1950)
 20^h56^m37.7^s -04°50'25" (J2000)
l: 43.64 *b*: -29.94

DATE: 1980/129 - 1980/130
 LIVETIME: 4949.0s
 ROLL ANGLE: -73.0°

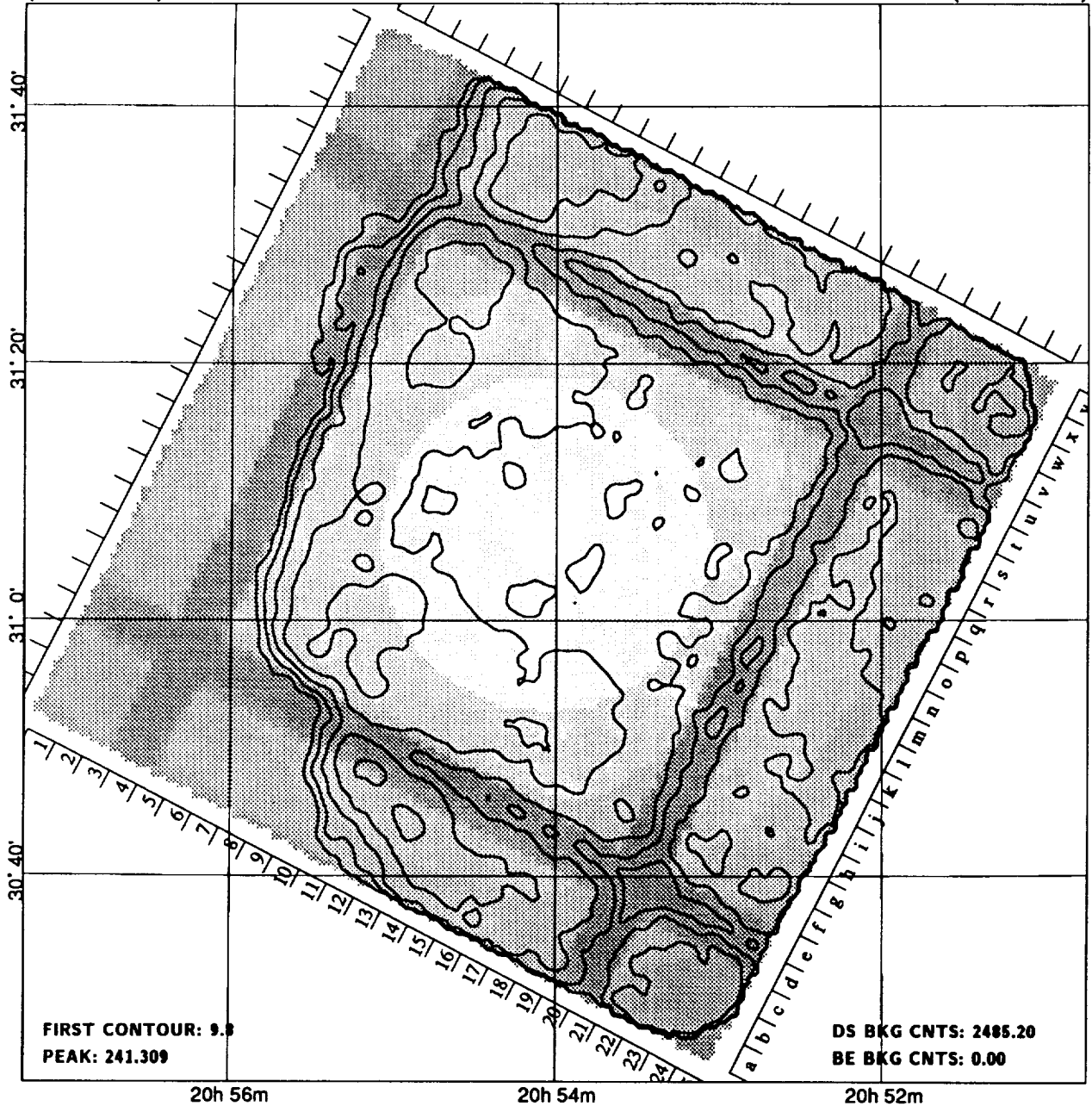
NH: 4.9E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4427	1	20 53 15.9	-05 03 13	38	0.0268	0.0031	85.4	13.6	8.6	1.0	0	11.1	H
4430	2	20 53 44.3	-04 49 25	43	0.0093	0.0022	28.1	14.9	4.3	0.7	0	13.2	H
4431	3	20 54 10.1	-05 02 13	31	0.0354	0.0033	129.3	16.7	10.7	1.2	0	2.8	H

(20h 53m)

I 3764

(20h 53m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: 20^h53^m59.8^s 31°05'59" (B1950)
 20^h56^m04.3^s 31°17'33" (J2000)
 l : 75.17 b : -9.01

DATE: 1980/145 - 1980/145
LIVETIME: 2013.8s
ROLL ANGLE: -62.8°

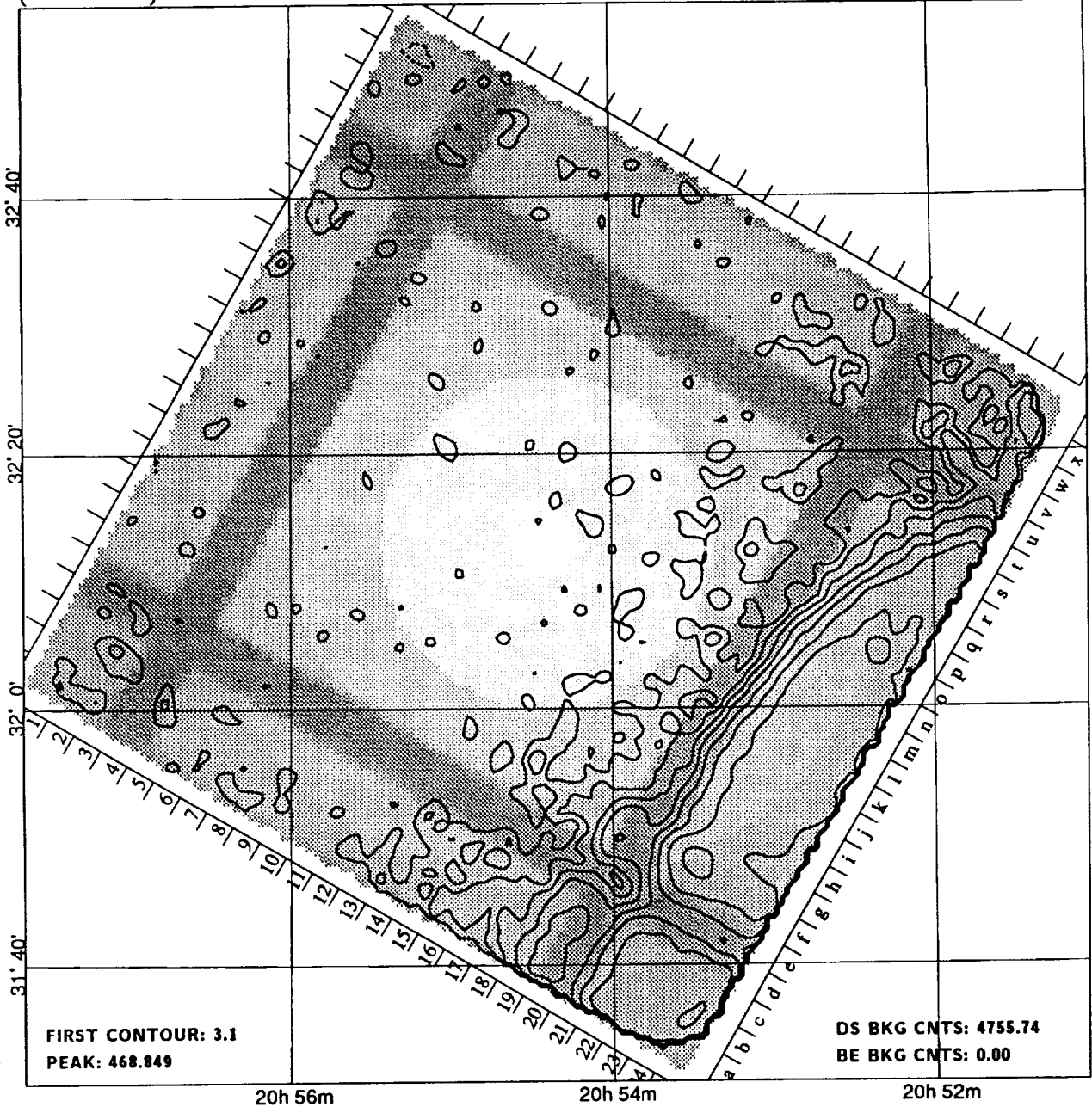
NH: 1.6E+21
REF/ID:
FIELD FLAGS: DLST

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(20h 54m)

I 2196

(20h 54m)



X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: 20^h54^m20.9^s 32°13'01" (B1950)
 20^h56^m24.2^s 32°24'35" (J2000)
l: 76.08 *b*: -8.35

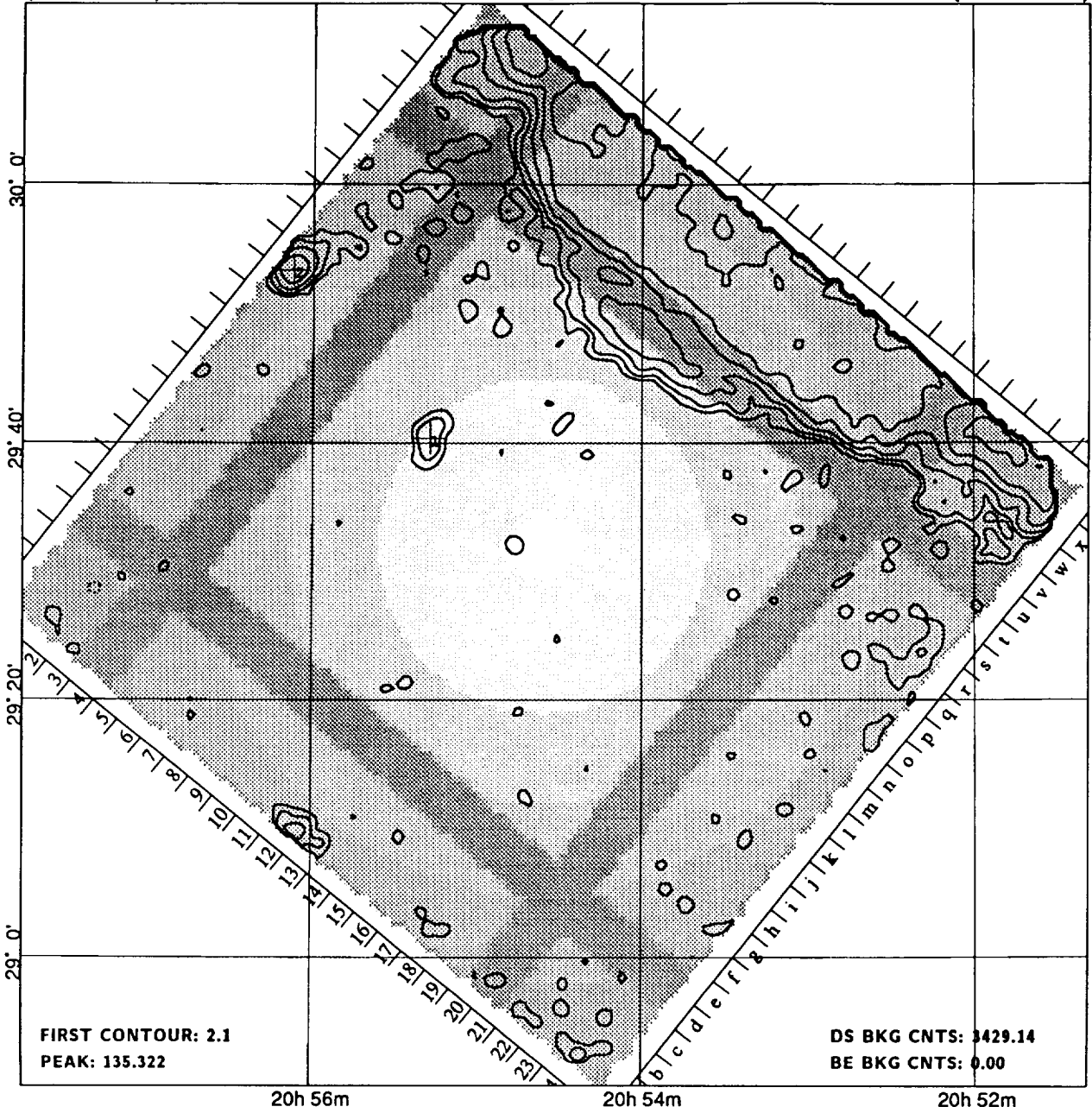
DATE: 1980/145 - 1980/145
 LIVETIME: 3853.7s
 ROLL ANGLE: -59.8°

NH: 1.9E+21
 REF/ID:
 FIELD FLAGS: DLST

(20h 54m)

I 3787

(20h 54m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^h 54^m 31.8^s$ $29^\circ 31' 59''$ (B1950)
 $20^h 56^m 38.2^s$ $29^\circ 43' 34''$ (J2000)
 $l: 74.02$ $b: -10.10$

DATE: 1980/162 - 1980/162
LIVETIME: 2778.7s
ROLL ANGLE: -51.3°

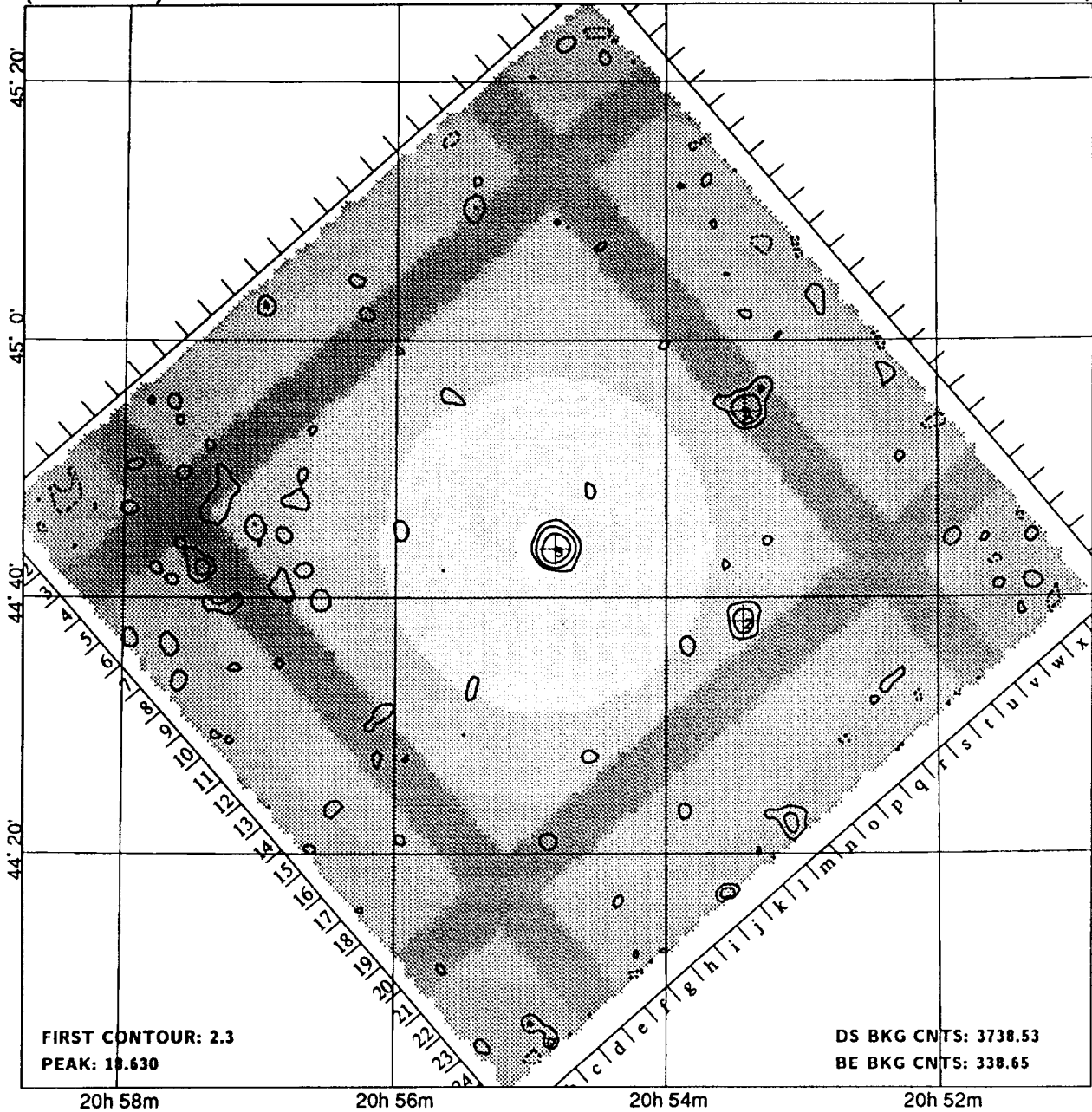
NH: $1.4E+21$
REF/ID:
FIELD FLAGS: DLS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	FLG
4433	1L	20 55 17.1	29 40 22	42	0.0169	0.0042	29.8	10.2	3.9	1.2	0	13.2	A	
4434	2L	20 56 07.0	29 53 18	50	*0.053	0.011	51.1	20.9	4.6	1.4	401	29.7	A	

(20h 54m)

I 3054

(20h 54m)



FIRST CONTOUR: 2.3
 PEAK: 18.630

DS BKG CNTS: 3738.53
 BE BKG CNTS: 338.65

20h 58m 20h 56m 20h 54m 20h 52m

COLLIDING STELLAR WINDS: HD 199579

FIELD CENTER: 20^h54^m47.8^s 44°43'59" (B1950)
 20^h56^m33.8^s 44°55'34" (J2000)
l: 85.70 *b*: -0.30

DATE: 1979/172 - 1979/172
 LIVETIME: 3029.4s
 ROLL ANGLE: -41.0°

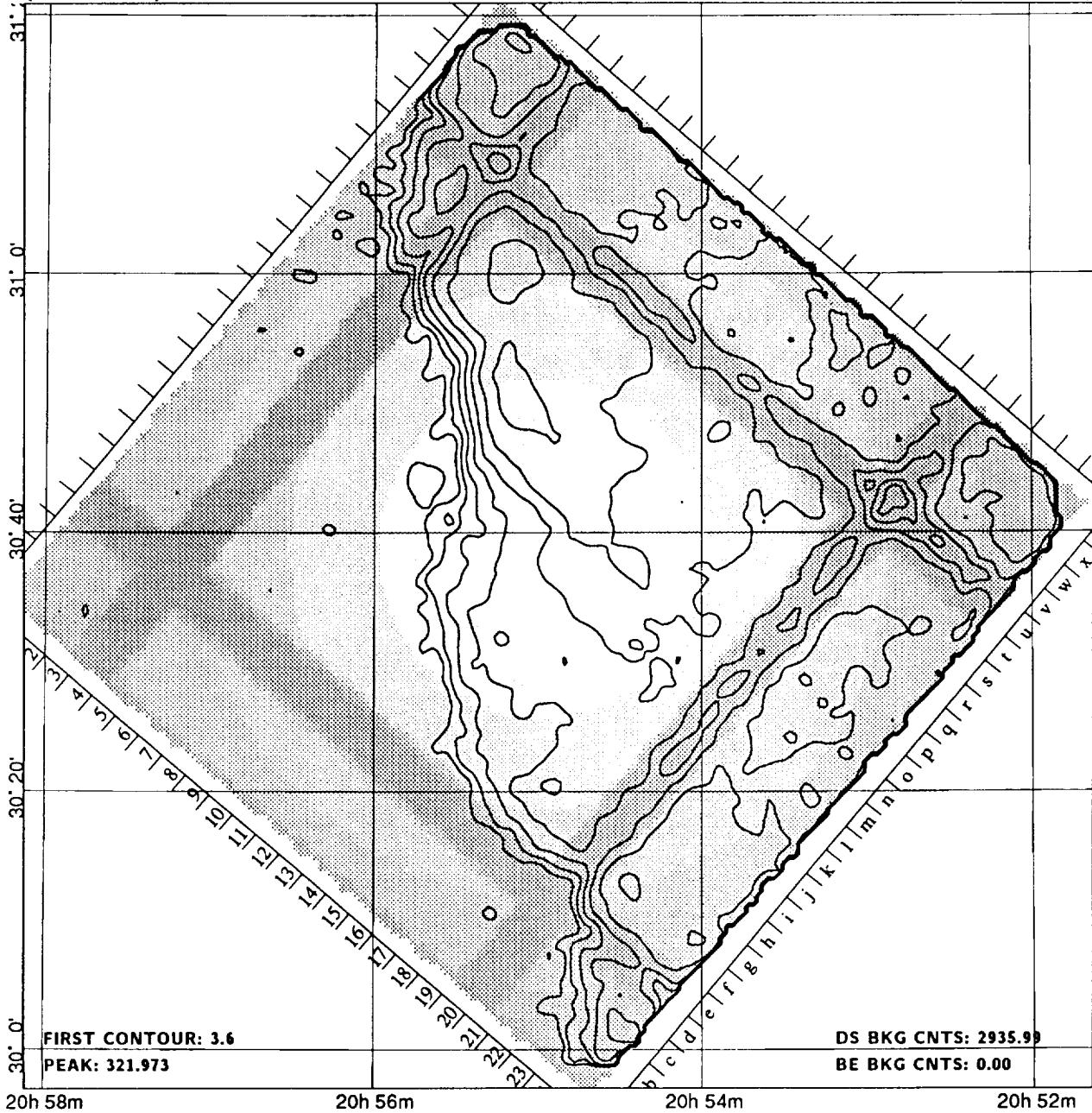
NH: 7.7E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4428	1	20 53 25.1	44 54 26	51	*0.0195	0.0038	31.5	5.5	5.2	1.1	1309	18.2	H
4429	2	20 53 25.8	44 38 08	53	0.0134	0.0032	23.1	7.9	4.2	0.8	100	15.3	H
4432	3	20 54 49.3	44 43 51	32	0.0358	0.0042	80.8	10.2	8.5	1.0	0	0.4	H S

(20h 54m)

I 3772

(20h 54m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^h 54^m 52.8^s$ $30^\circ 38' 59''$ (B1950)
 $20^h 56^m 58.0^s$ $30^\circ 50' 35''$ (J2000)
 $l: 74.94$ $b: -9.45$

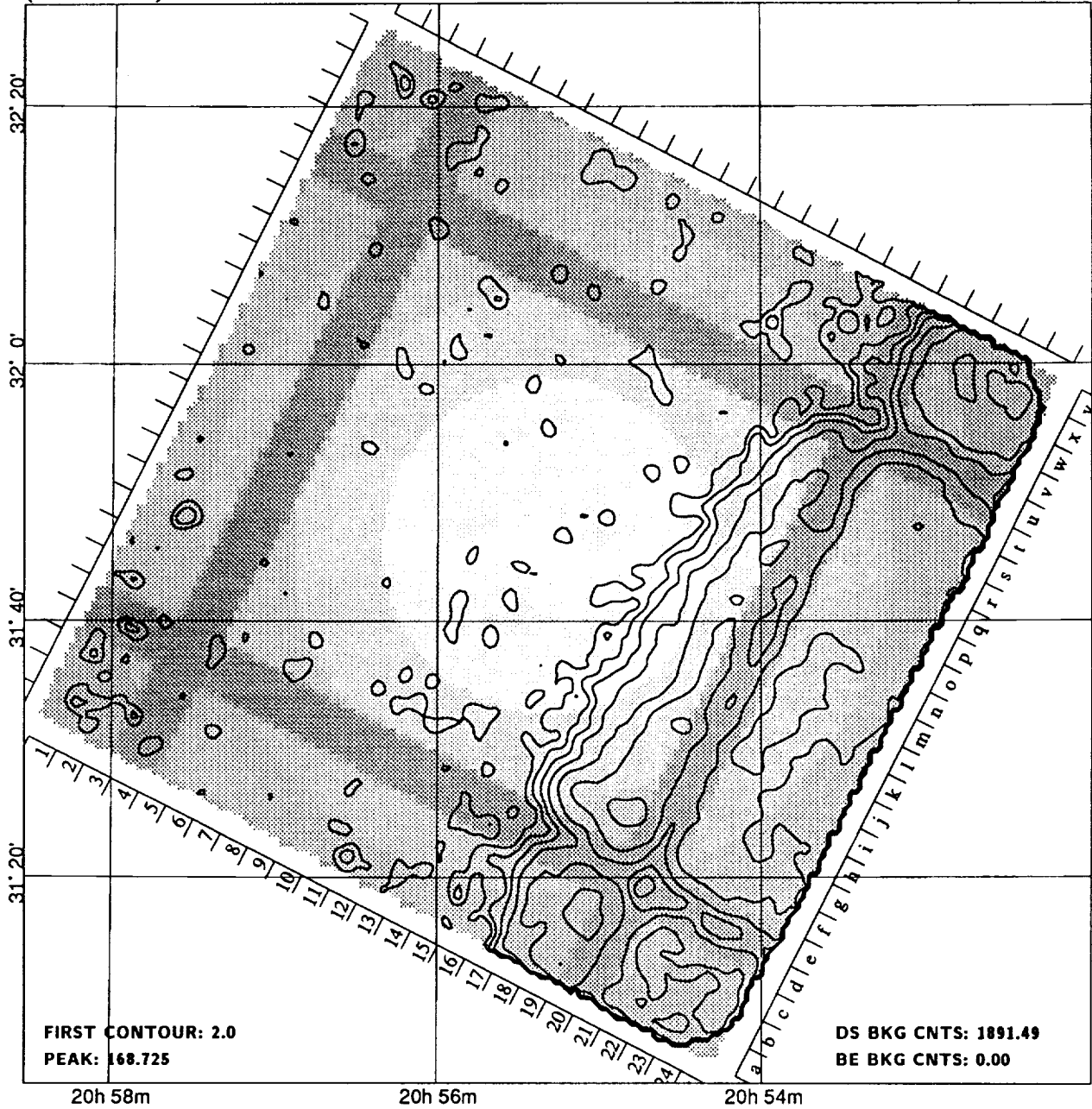
DATE: 1980/164 - 1980/164
 LIVETIME: 2379.1s
 ROLL ANGLE: -49.9°

NH: $1.5E+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 55m)

I 2203

(20h 55m)



X-RAY STUDY OF SUPERNOVA REMNANTS: CYGNUS LOOP

FIELD CENTER: $20^{\text{h}}55^{\text{m}}14.9^{\text{s}}$ $31^{\circ}46'01''$ (B1950)
 $20^{\text{h}}57^{\text{m}}18.9^{\text{s}}$ $31^{\circ}57'38''$ (J2000)
 $l: 75.86$ $b: -8.79$

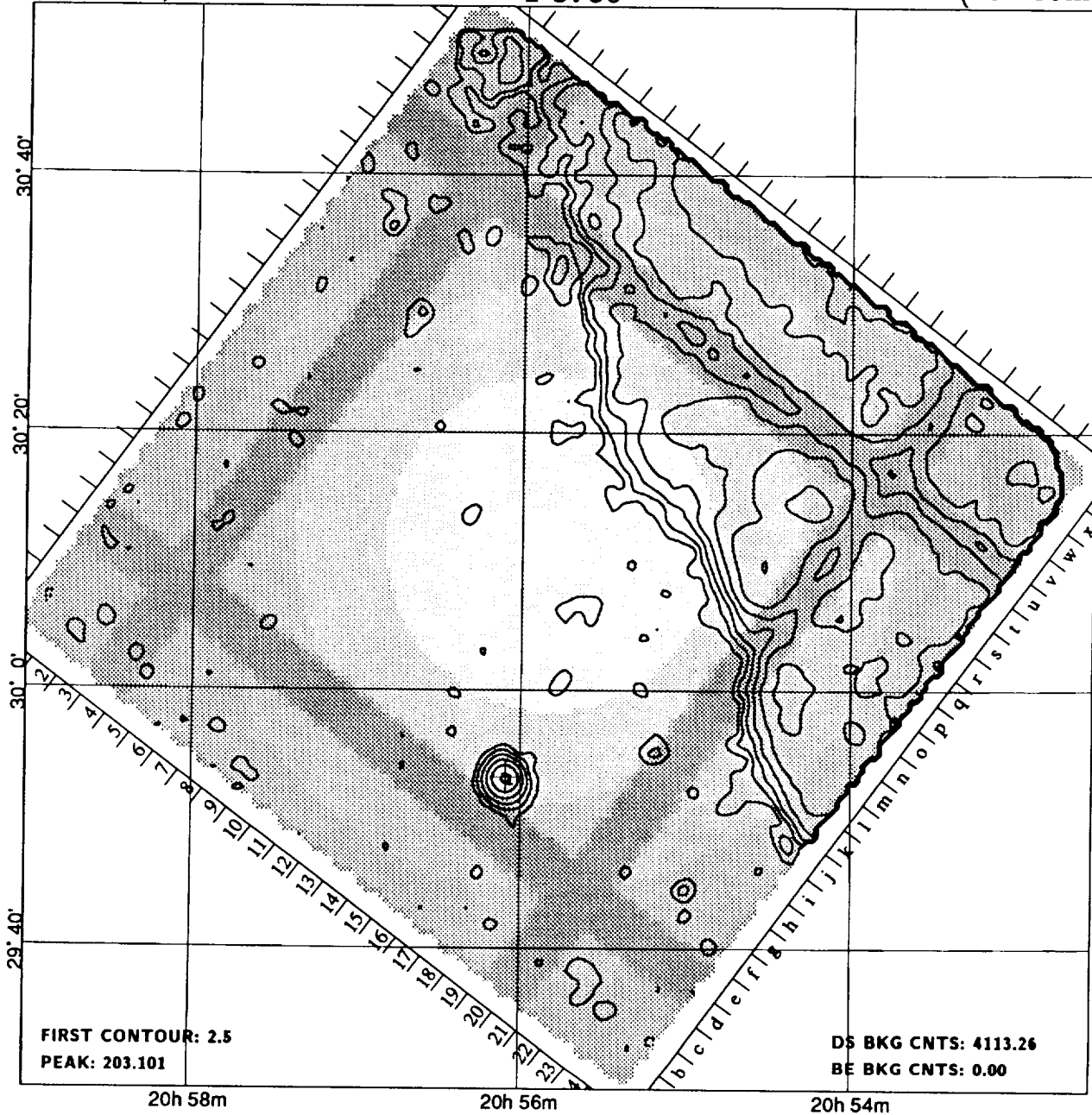
DATE: 1980/145 - 1980/145
 LIVETIME: 1532.7s
 ROLL ANGLE: -63.0°

NH: $1.8\text{E}+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 55m)

I 3780

(20h 55m)



FIRST CONTOUR: 2.5
PEAK: 203.101

DS BKG CNTS: 4113.26
BE BKG CNTS: 0.00

CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: 20^h55^m46.8^s 30°10'59" (B1950)
20^h57^m52.6^s 30°22'38" (J2000)
ℓ: 74.70 b: -9.89

DATE: 1980/164 - 1980/164
LIVETIME: 3333.1s
ROLL ANGLE: -53.3°

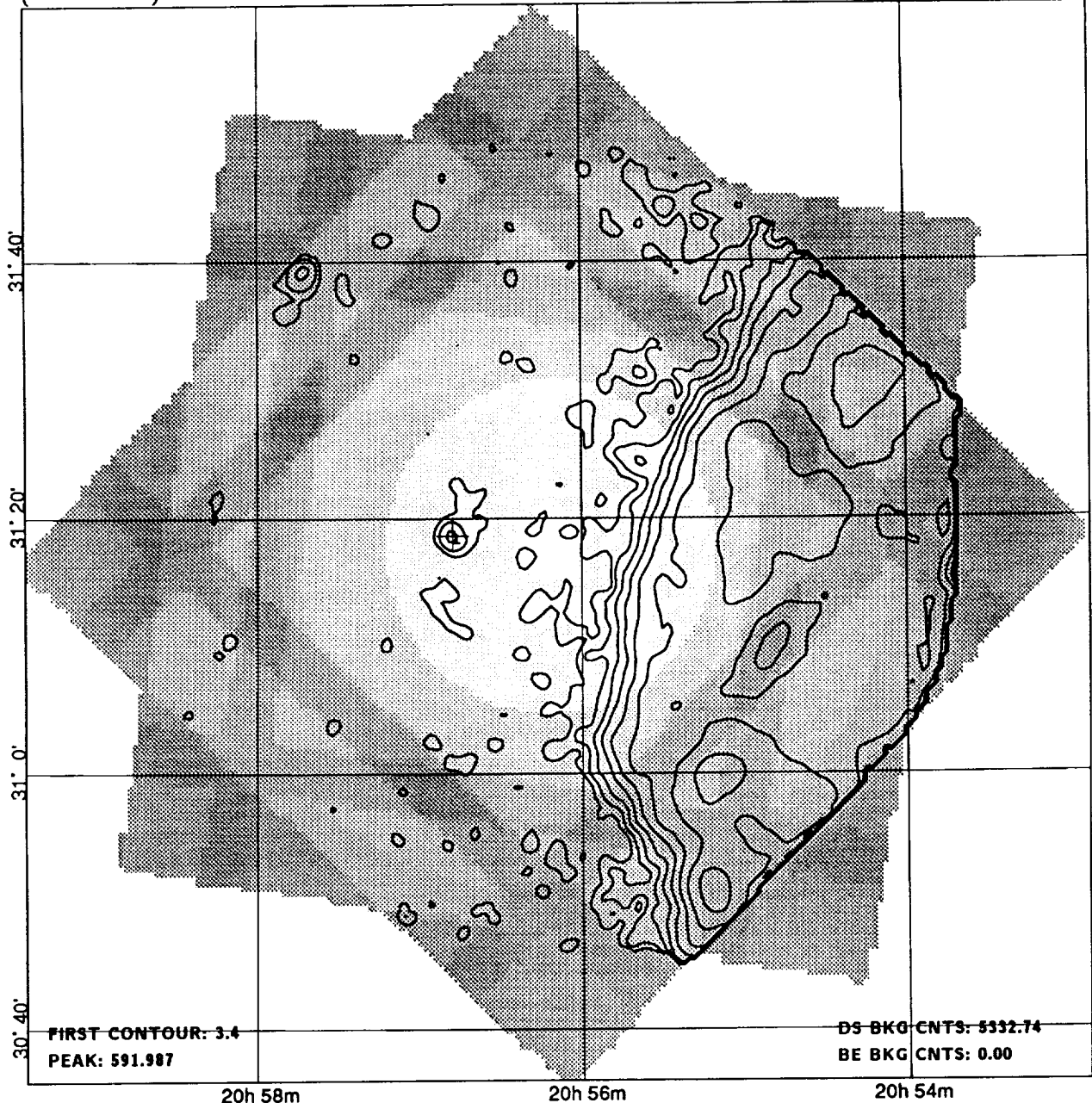
NH: 1.5E+21
REF/ID:
FIELD FLAGS: DLST

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4434	1L	20 56 05.4	29 53 16	47	0.132	0.010	235.0	15.0	13.0	1.1	100	18.1	A

(20h 56m)

I 3763

(20h 56m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}56^{\text{m}}08.7^{\text{s}}$ $31^{\circ}17'59''$ (B1950)
 $20^{\text{h}}58^{\text{m}}13.3^{\text{s}}$ $31^{\circ}29'39''$ (J2000)
 $l: 75.62$ $b: -9.24$

DATE: 1980/120 - 1980/164
LIVETIME: 4321.3s

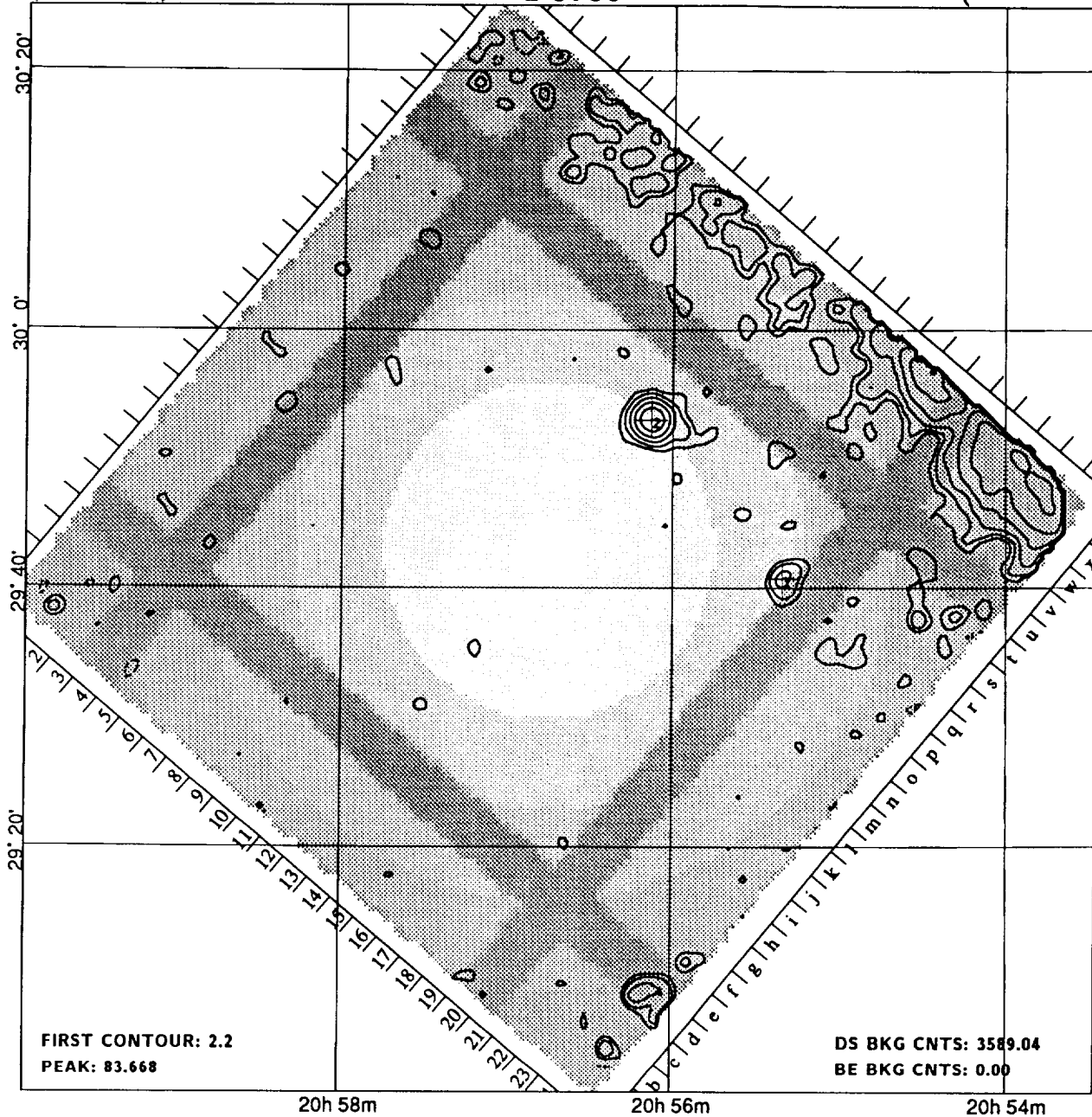
NH: $1.7\text{E}+21$
REF/ID:
FIELD FLAGS: DLST

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4435	1L	20 56 47.9	31 18 39	41	0.0160	0.0032	47.5	19.5	4.8	1.3	0	8.5	

(20h 56m)

I 3786

(20h 56m)



CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}56^{\text{m}}40.9^{\text{s}}$ $29^{\circ}42'59''$ (B1950)
 $20^{\text{h}}58^{\text{m}}47.3^{\text{s}}$ $29^{\circ}54'41''$ (J2000)
 $l: 74.47$ $b: -10.34$

DATE: 1980/164 - 1980/164
 LIVETIME: 2908.3s
 ROLL ANGLE: -50.2°

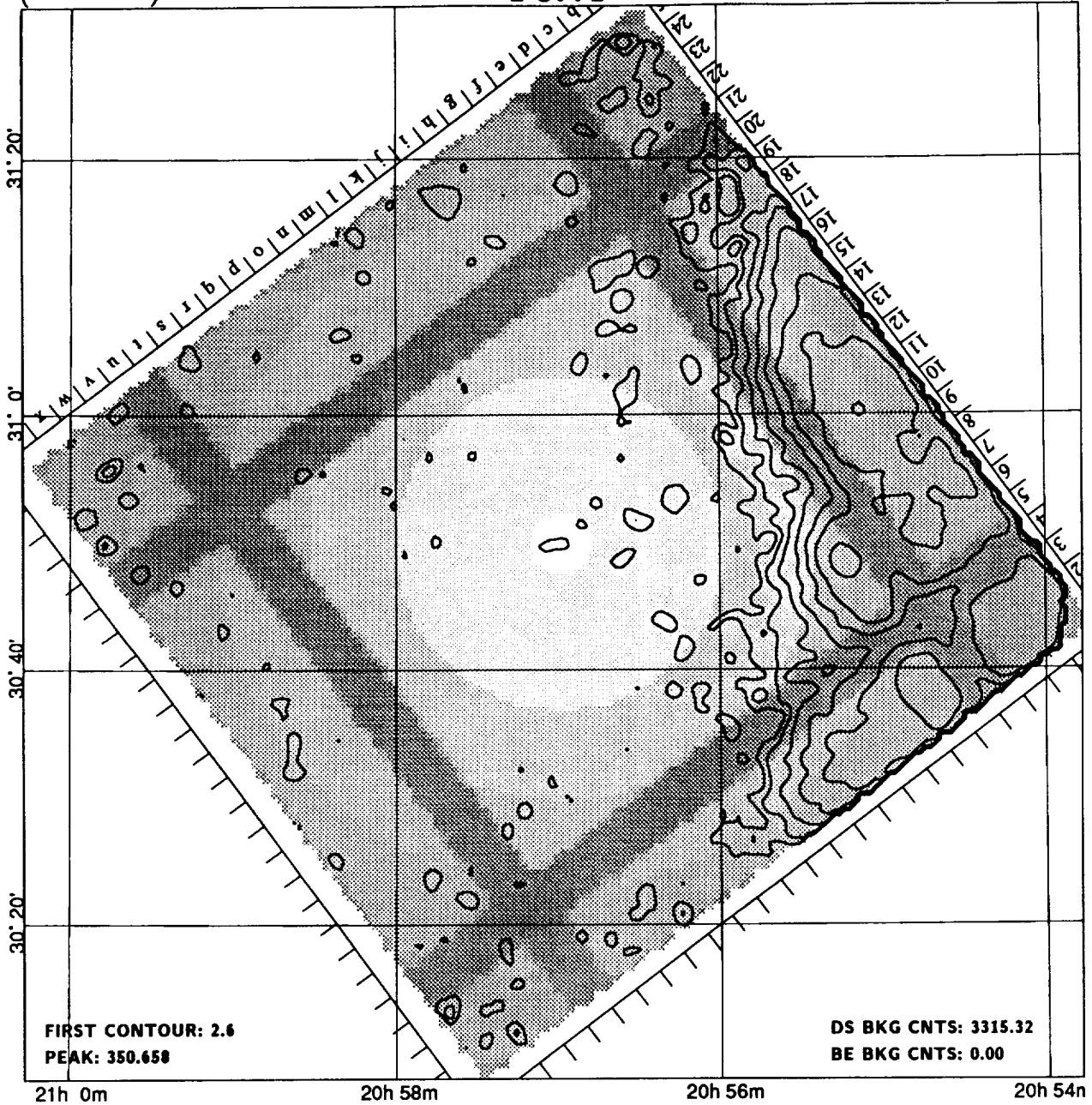
NH: $1.4\text{E}+21$
 REF/ID:
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4433	1L	20 55 20.1	29 40 42	51	*0.0215	0.0057	33.4	5.6	3.6	1.0	603	17.8	A
4434	2L	20 56 07.8	29 53 01	38	0.1069	0.0089	195.2	15.8	11.8	1.1	0	12.3	A

(20h 57m)

I 3771

(20h 57m)



FIRST CONTOUR: 2.6
 PEAK: 350.658

DS BKG CNTS: 3315.32
 BE BKG CNTS: 0.00

CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}57^{\text{m}}01.8^{\text{s}}$ $30^{\circ}49'59''$ (B1950)
 $20^{\text{h}}59^{\text{m}}07.0^{\text{s}}$ $31^{\circ}01'42''$ (J2000)
 $l: 75.38$ $b: -9.68$

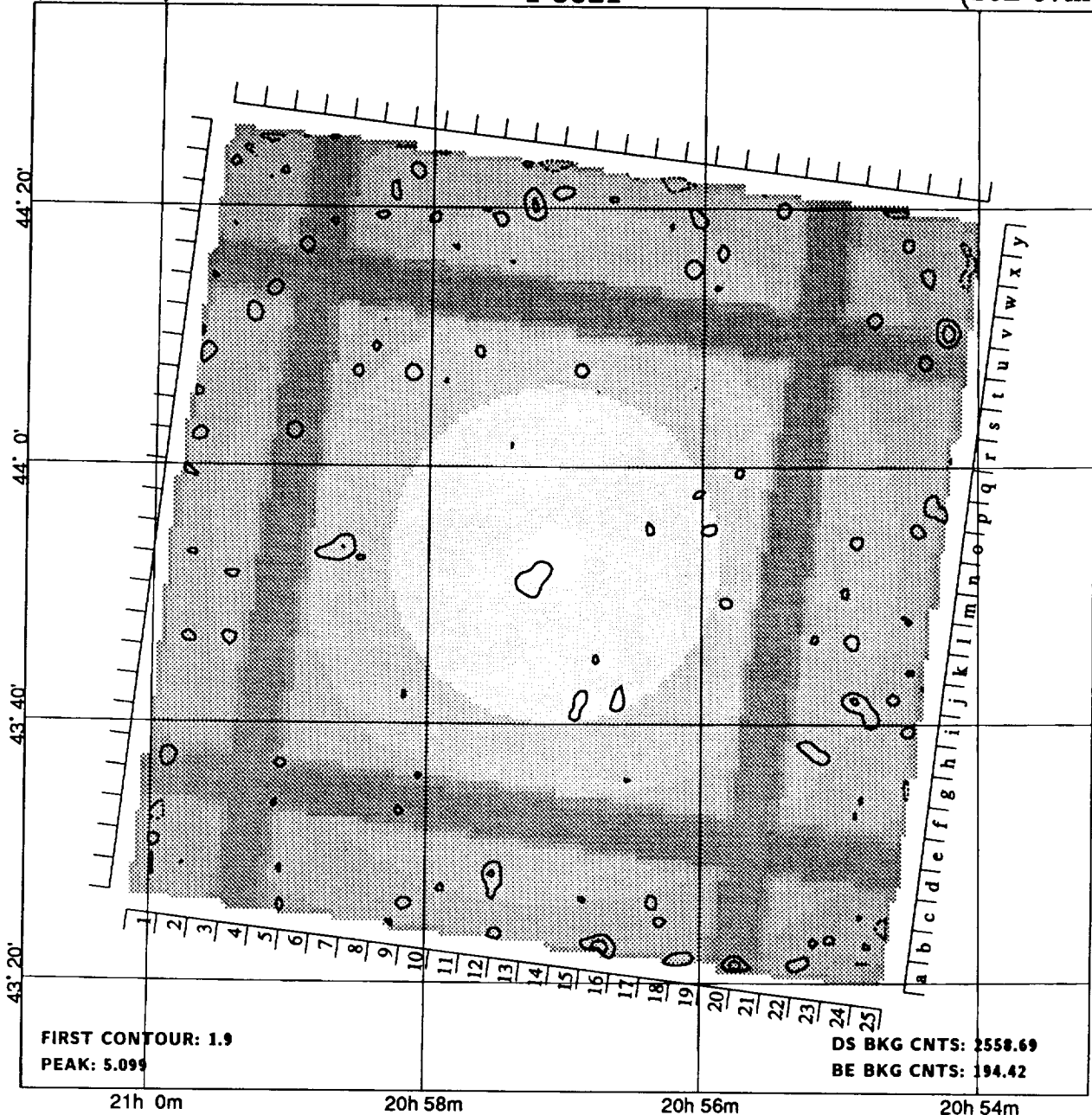
DATE: 1980/364 - 1980/364
 LIVETIME: 2686.5s
 ROLL ANGLE: 143.4°

NH: $1.6\text{E}+21$
 REF/ID:
 FIELD FLAGS: DLST

(20h 57m)

I 3821

(20h 57m)



FIRST CONTOUR: 1.9
 PEAK: 5.099

DS BKG CNTS: 2558.69
 BE BKG CNTS: 194.42

21h 0m 20h 58m 20h 56m 20h 54m

T TAURI STARS: V1057 CYG / LK H ALPHA 191

FIELD CENTER: 20^h57^m02.8^s 43°53'33" (B1950)
 20^h58^m50.6^s 44°05'16" (J2000)
 l : 85.33 b : -1.15

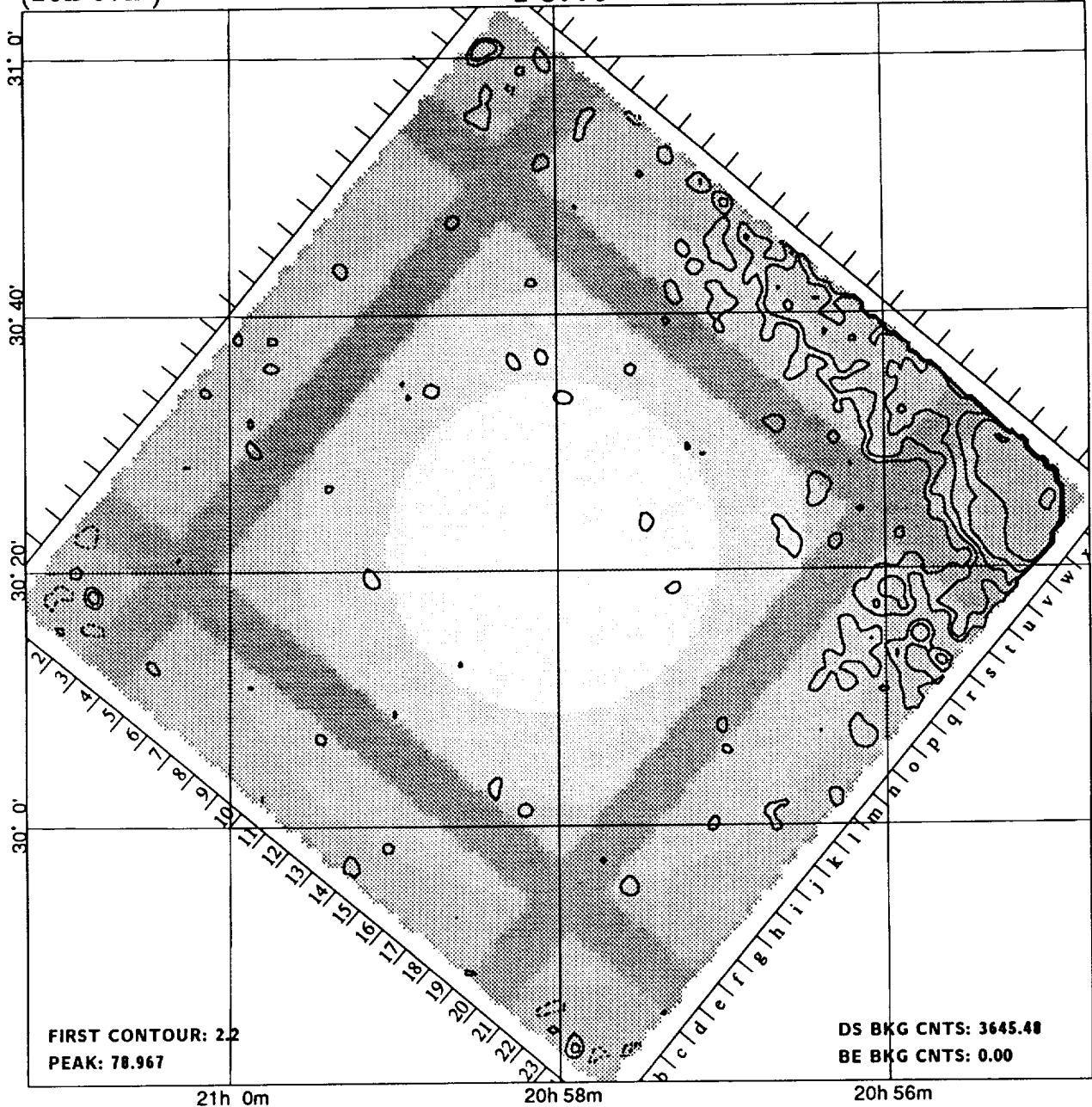
DATE: 1979/121 - 1979/121
 LIVETIME: 2073.4s
 ROLL ANGLE: -83.0°

NH: 7.6E+21
 REF/ID:
 FIELD FLAGS:

(20h 57m)

I 3779

(20h 57m)



FIRST CONTOUR: 2.2
 PEAK: 78.967

DS BKG CNTS: 3645.48
 BE BKG CNTS: 0.00

CYGNUS LOOP SUPERNOVA REMNANT

FIELD CENTER: $20^{\text{h}}57^{\text{m}}59.8^{\text{s}}$ $30^{\circ}21'59''$ (B1950)
 $21^{\text{h}}00^{\text{m}}05.7^{\text{s}}$ $30^{\circ}33'45''$ (J2000)
 $l: 75.16$ $b: -10.14$

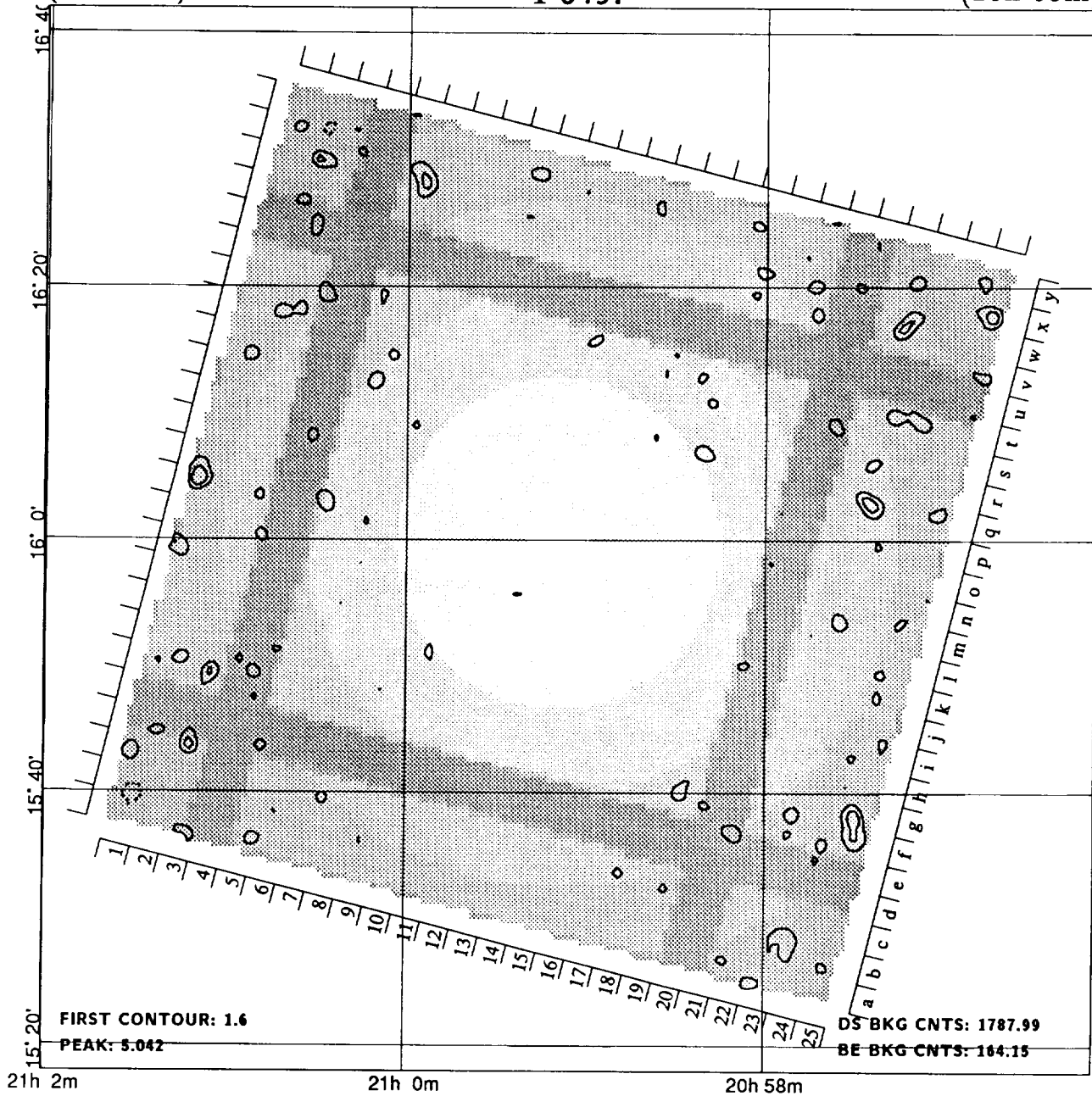
DATE: 1980/164 - 1980/164
 LIVETIME: 2954.0s
 ROLL ANGLE: -50.2°

NH: $1.5\text{E}+21$
 REF/ID:
 FIELD FLAGS: LS

(20h 59m)

I 6497

(20h 59m)



NGC 7006, GLOBULAR CLUSTER SURVEY

FIELD CENTER: 20^h59^m05.8^s 15°59'59" (B1950)
 21^h01^m26.0^s 16°11'49" (J2000)
l: 63.77 *b*: -19.39

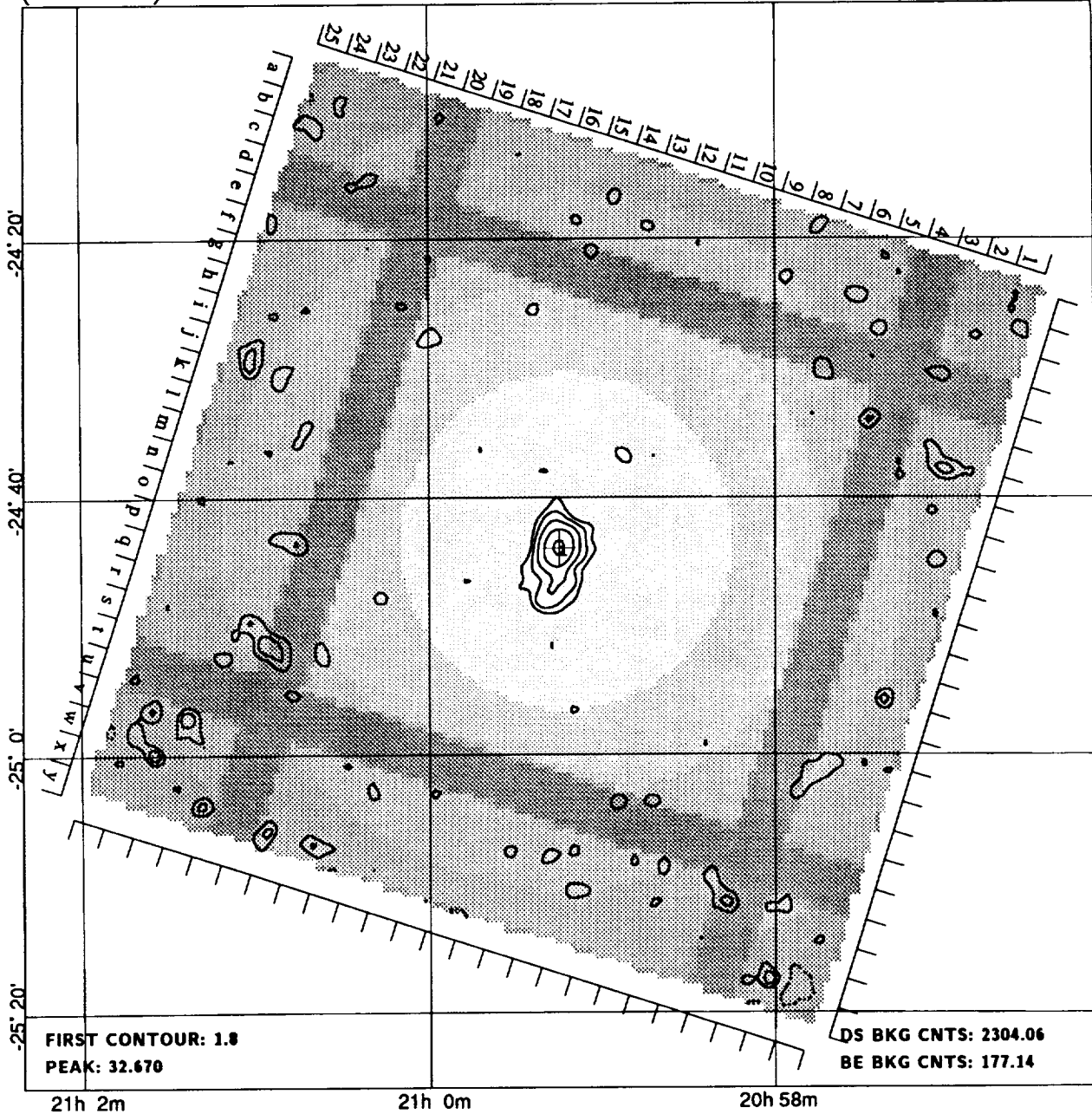
DATE: 1980/124 - 1980/124
 LIVETIME: 1500.9s
 ROLL ANGLE: -75.9°

NH: 7.1E+20
 REF/ID:
 FIELD FLAGS:

(20h 59m)

I 3453

(20h 59m)



599,SOUTHERN CLUSTER AT HIGH REDSHIFT

FIELD CENTER: 20^h59^m14.8^s -24°43'50" (B1950)
 21^h02^m10.2^s -24°31'59" (J2000)
 l : 22.17 b : -38.79

DATE: 1979/295 - 1979/297
 LIVETIME: 1867.0s
 ROLL ANGLE: 107.7°

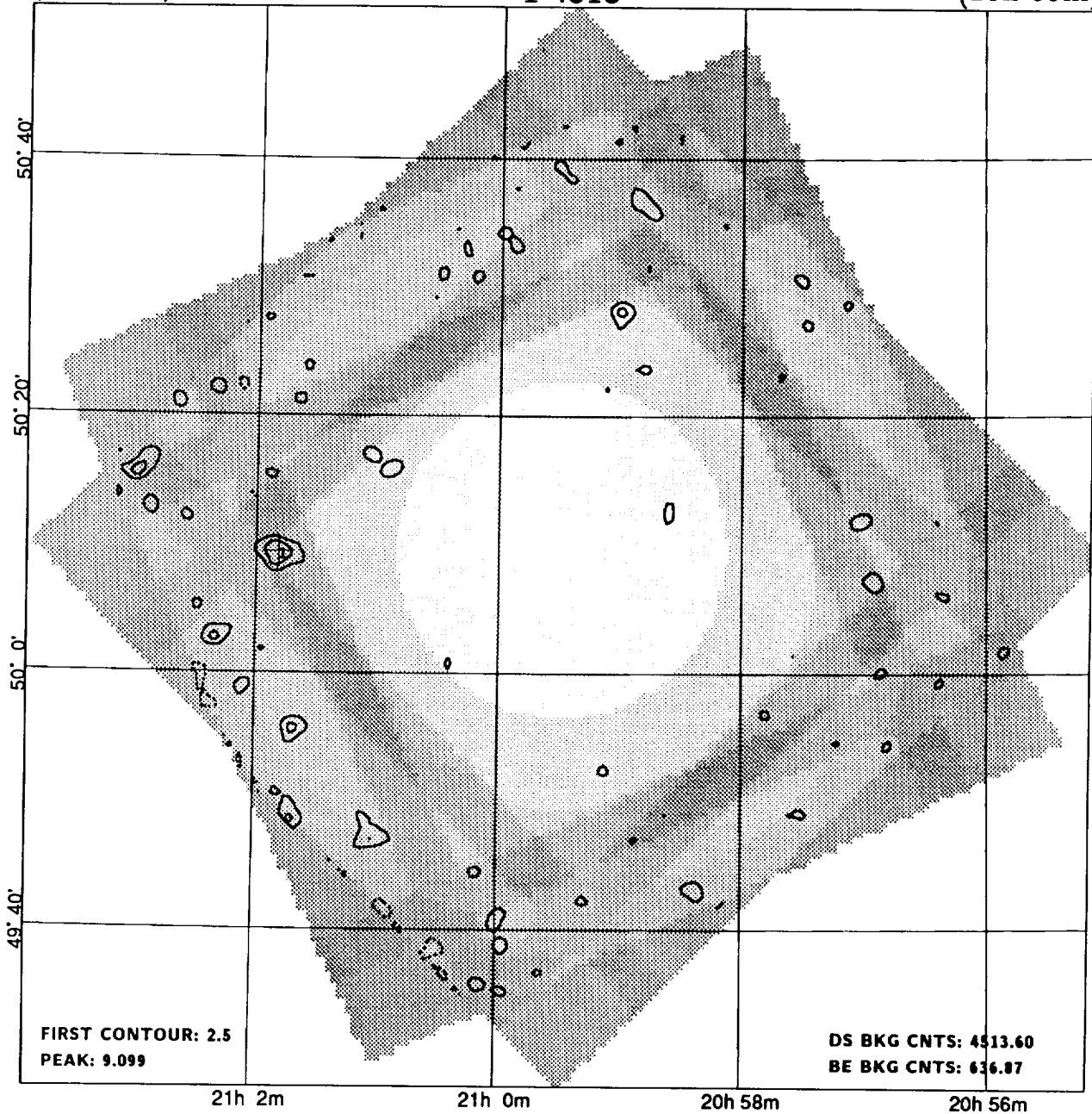
NH: 5.2E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4437	1	20 59 14.8	-24 43 53	31	0.1047	0.0089	145.6	6.4	11.8	1.6	0	0.2	H

(20h 59m)

I 4513

(20h 59m)



FIRST CONTOUR: 2.5
PEAK: 9.099

DS BKG CNTS: 4513.60
BE BKG CNTS: 636.87

21h 2m

21h 0m

20h 58m

20h 56m

T TAURI STARS: V1331 CYG

FIELD CENTER: $20^{\text{h}}59^{\text{m}}30.8^{\text{s}}$ $50^{\circ}09'44''$ (B1950)
 $21^{\text{h}}01^{\text{m}}07.9^{\text{s}}$ $50^{\circ}21'34''$ (J2000)
 $l: 90.31$ $b: 2.68$

DATE: 1979/352 - 1980/ 8
LIVETIME: 3657.5s

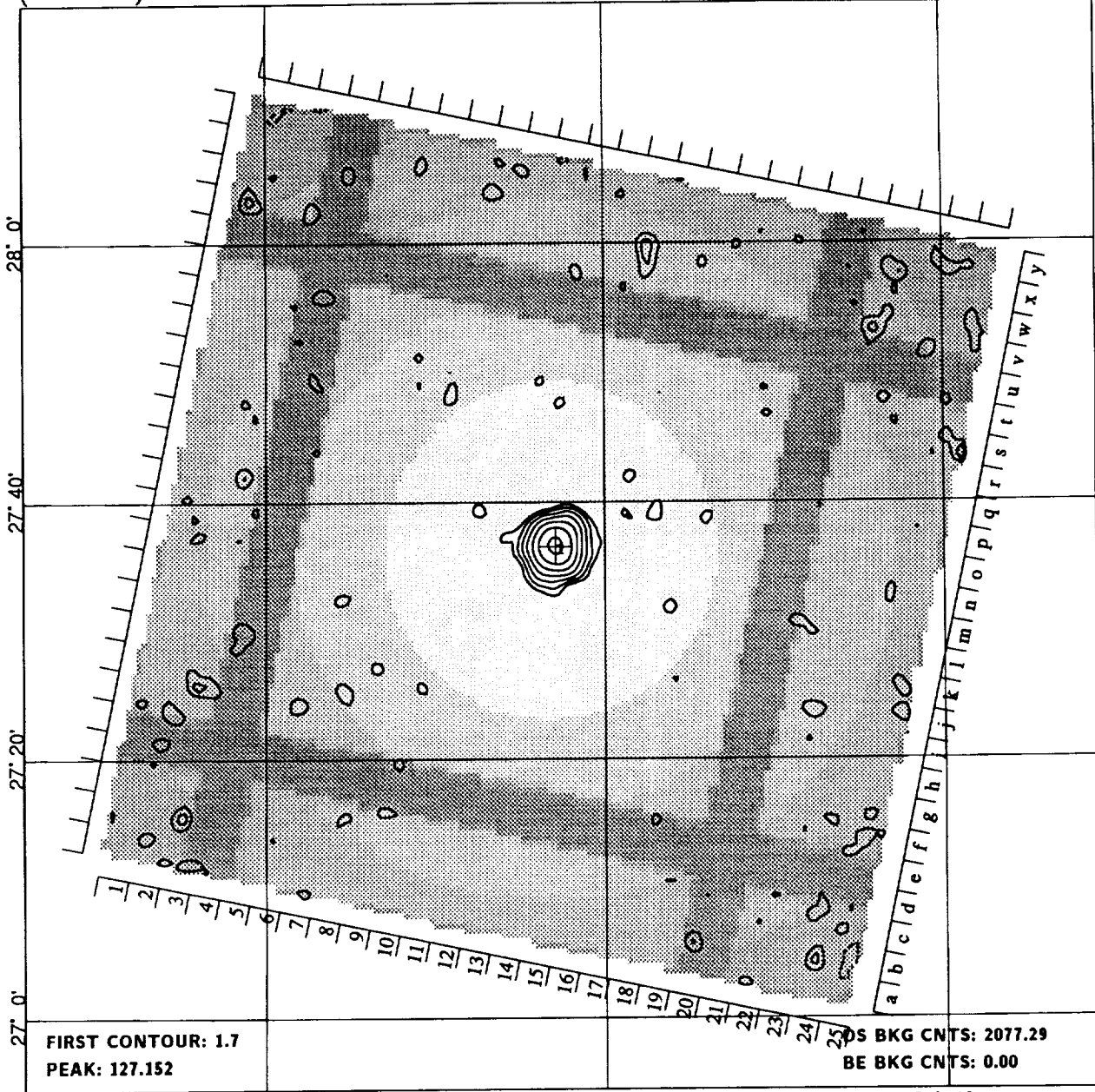
NH: $9.9\text{E}+21$
REF/ID: S
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4441	1	21 01 49.1	50 09 22	55	*0.0106	0.0029	18.1	6.9	3.6	0.9	1609	22.0	

(21h 0m)

I 8343

(21h 0m)



ER VUL.RS CVN STAR FOLLOW-UP

FIELD CENTER: $21^{\text{h}}00^{\text{m}}15.6^{\text{s}}$ $27^{\circ}36'33''$ (B1950)
 $21^{\text{h}}02^{\text{m}}24.8^{\text{s}}$ $27^{\circ}48'26''$ (J2000)
 $l: 73.34$ $b: -12.30$

DATE: 1980/123 - 1980/123
 LIVETIME: 1683.3s
 ROLL ANGLE: -78.3°

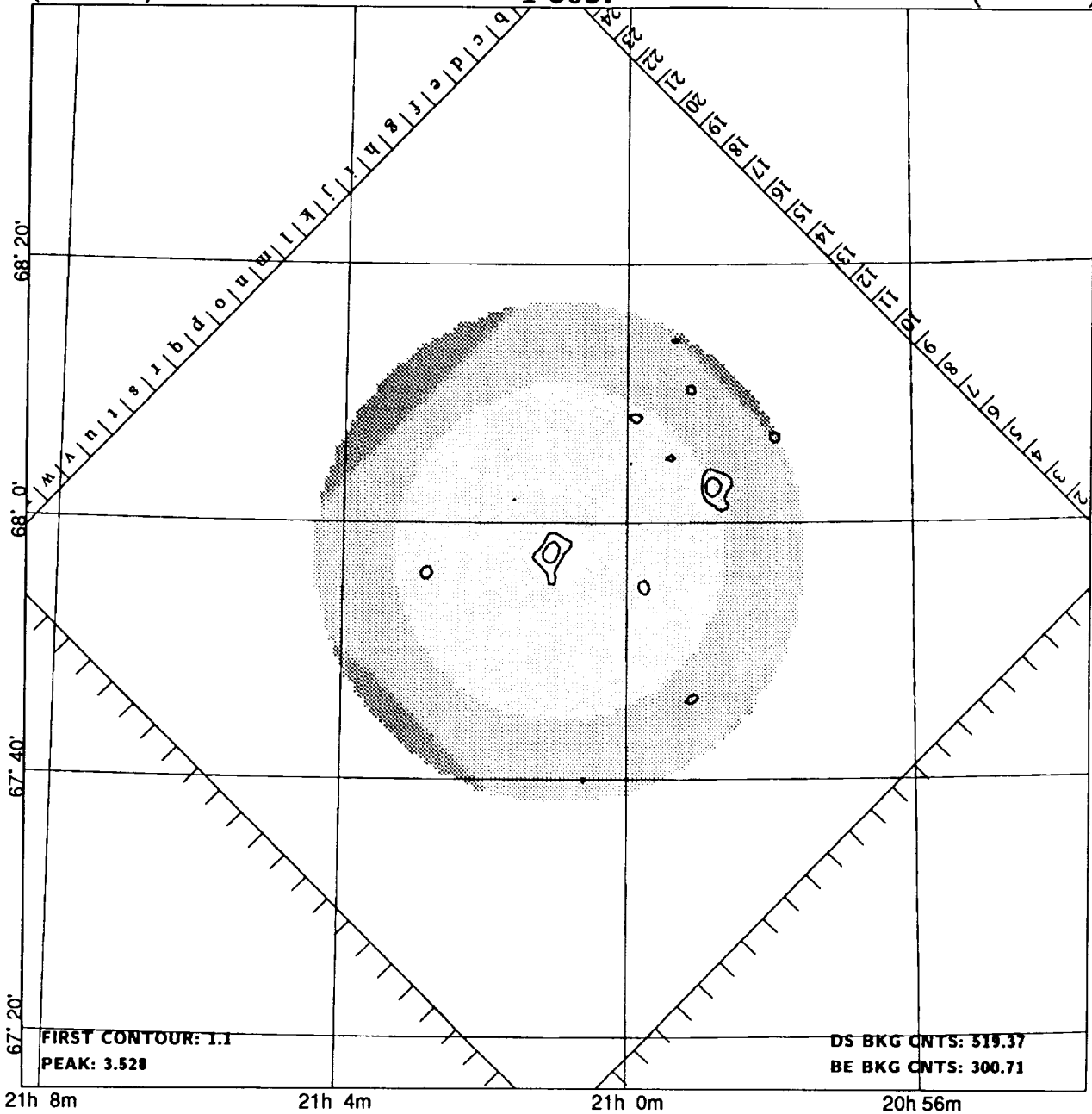
NH: $1.3\text{E}+21$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4438	1L	21 00 17.5	27 36 33	31	0.391	0.022	490.8	105.2	17.3	1.4	0	0.5	CV	

(21h 0m)

I 5037

(21h 0m)



HD 200775,AE/BE STARS

FIELD CENTER: $21^h 00^m 59.5^s$ $67^\circ 57' 54''$ (B1950)
 $21^h 01^m 36.6^s$ $68^\circ 09' 47''$ (J2000)
 $l: 104.06$ $b: 14.19$

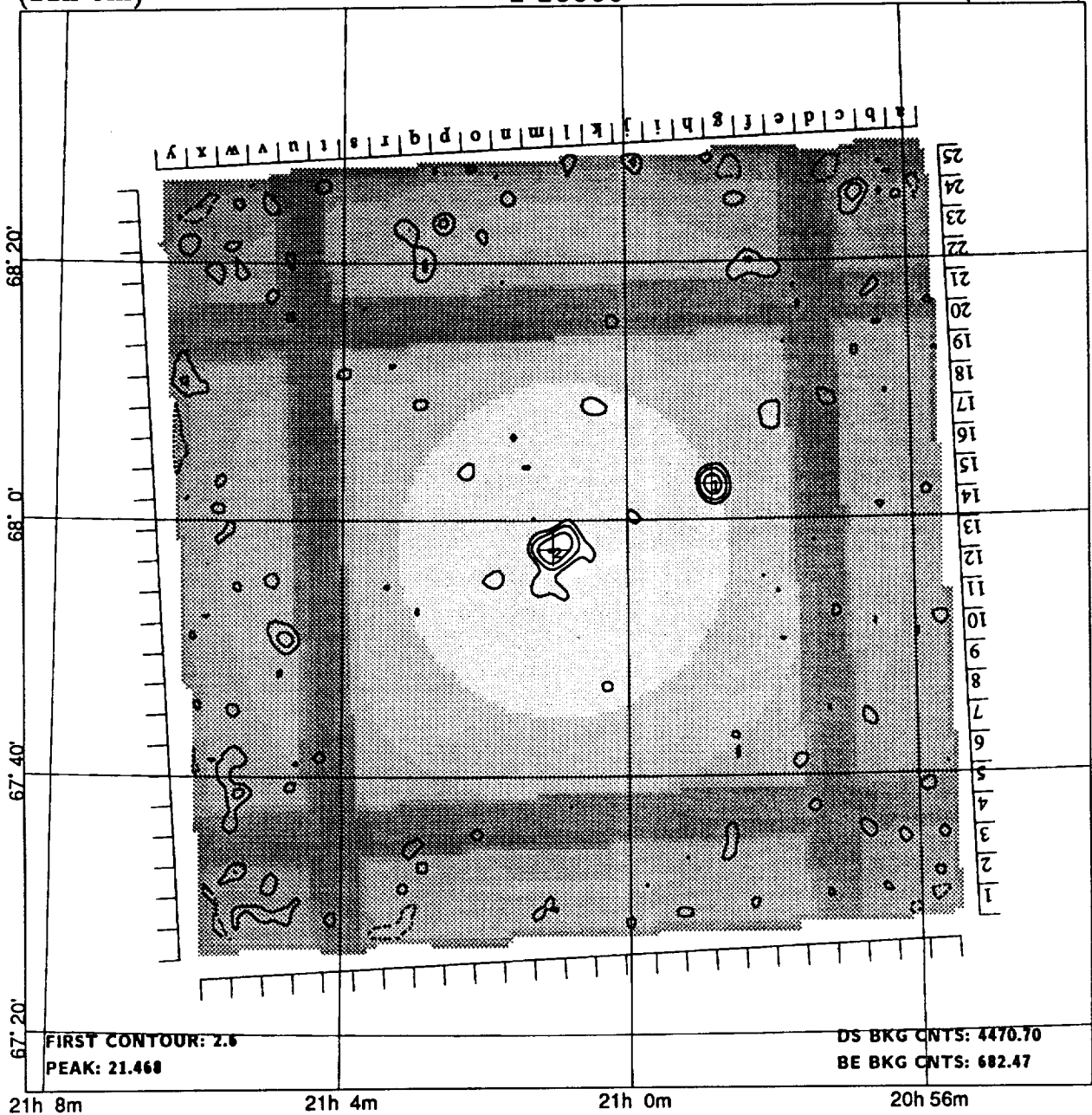
DATE: 1979/352 - 1979/352
 LIVETIME: 420.9s
 ROLL ANGLE: 134.5°

NH: $2.2E+21$
 REF/ID:
 FIELD FLAGS:

(21h 0m)

I 10066

(21h 0m)



EMISSION FROM Ae/Be STARS: HD 200775

FIELD CENTER: $21^{\text{h}}00^{\text{m}}59.8^{\text{s}}$ $67^{\circ}57'53''$ (B1950)
 $21^{\text{h}}01^{\text{m}}36.9^{\text{s}}$ $68^{\circ}09'46''$ (J2000)
 $l: 104.06$ $b: 14.19$

DATE: 1981/ 29 - 1981/ 30
 LIVETIME: 3622.7s
 ROLL ANGLE: 177.2°

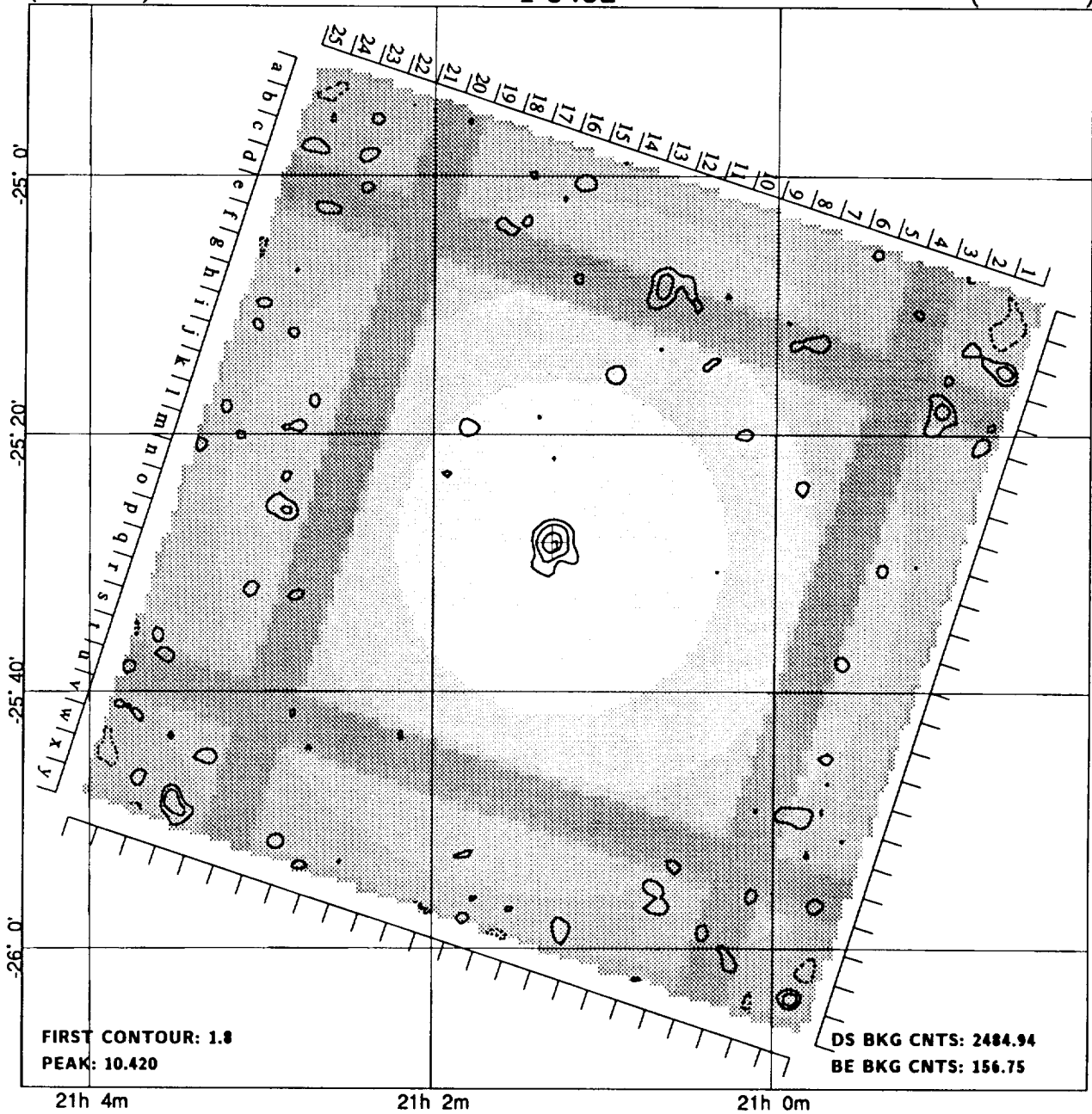
NH: $2.2\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4436	1	20 58 48.6	68 02 46	41	0.0209	0.0033	47.6	10.4	6.2	0.8	0	13.2	H
4439	2	21 01 03.1	67 57 43	32	0.0309	0.0036	83.4	12.6	8.5	1.3	0	0.2	H

(21h 1m)

I 3452

(21h 1m)



509,SOUTHERN CLUSTER AT HIGH REDSHIFT

FIELD CENTER: 21^h01^m16.8^s -25°28'53" (B1950)
 21^h04^m12.7^s -25°16'56" (J2000)
 l : 21.40 b : -39.44

DATE: 1979/297 - 1979/297
 LIVETIME: 2013.6s
 ROLL ANGLE: 108.0°

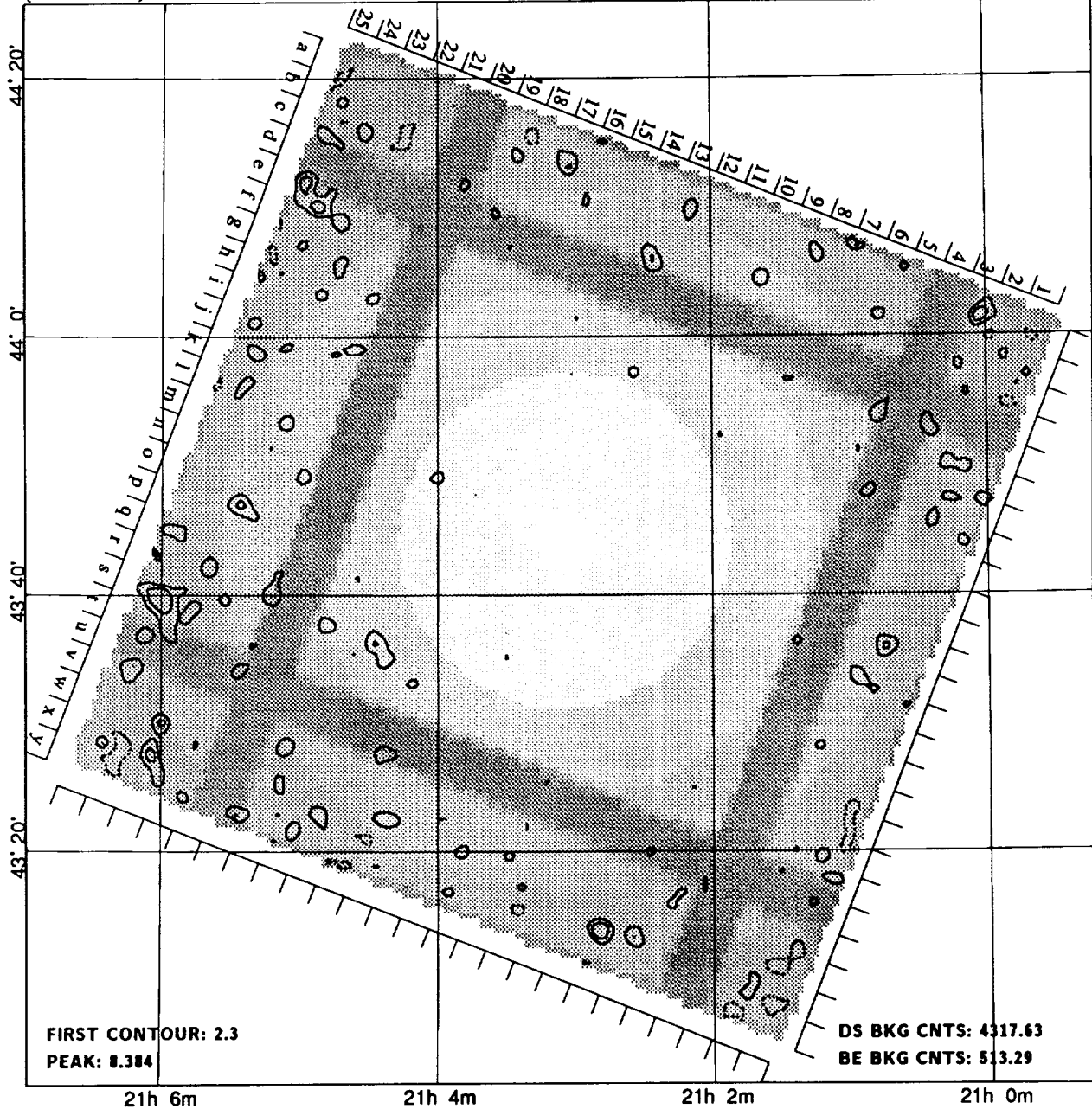
NH: 5.4E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4440	1	21 01 18.2	-25 28 25	35	0.0286	0.0047	42.8	7.2	6.1	1.1	0	0.8	H

(21h 3m)

I 3813

(21h 3m)



XI CYG CORONA

FIELD CENTER: 21^h03^m06.7^s 43°43'59" (B1950)
 21^h04^m56.0^s 43°56'00" (J2000)
 l : 85.93 b : -2.07

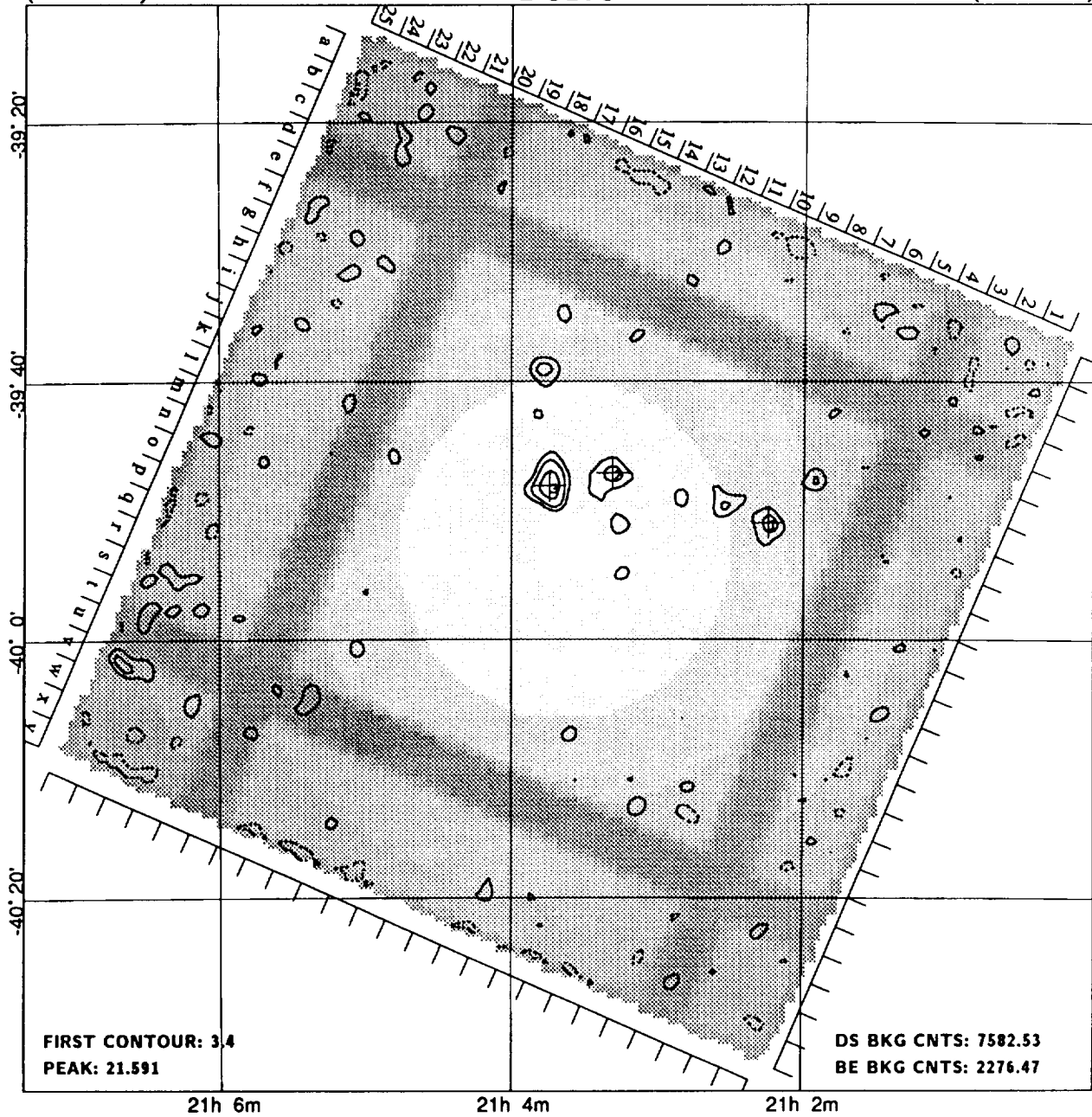
DATE: 1979/325 - 1979/325
 LIVETIME: 3498.7s
 ROLL ANGLE: 111.3°

NH: 5.8E+21
 REF/ID:
 FIELD FLAGS:

(21h 3m)

I 5173

(21h 3m)



FIRST CONTOUR: 3.4
PEAK: 21.591

DS BKG CNTS: 7582.53
BE BKG CNTS: 2276.47

21h 6m

21h 4m

21h 2m

CLUSTER SC2103-39

FIELD CENTER: $21^{\text{h}}03^{\text{m}}40.9^{\text{s}}$ $-39^{\circ}52'59''$ (B1950)
 $21^{\text{h}}06^{\text{m}}53.1^{\text{s}}$ $-39^{\circ}40'54''$ (J2000)
 $l: 2.68$ $b: -42.28$

DATE: 1979/297 - 1979/297
 LIVETIME: 6144.3s
 ROLL ANGLE: 113.4°

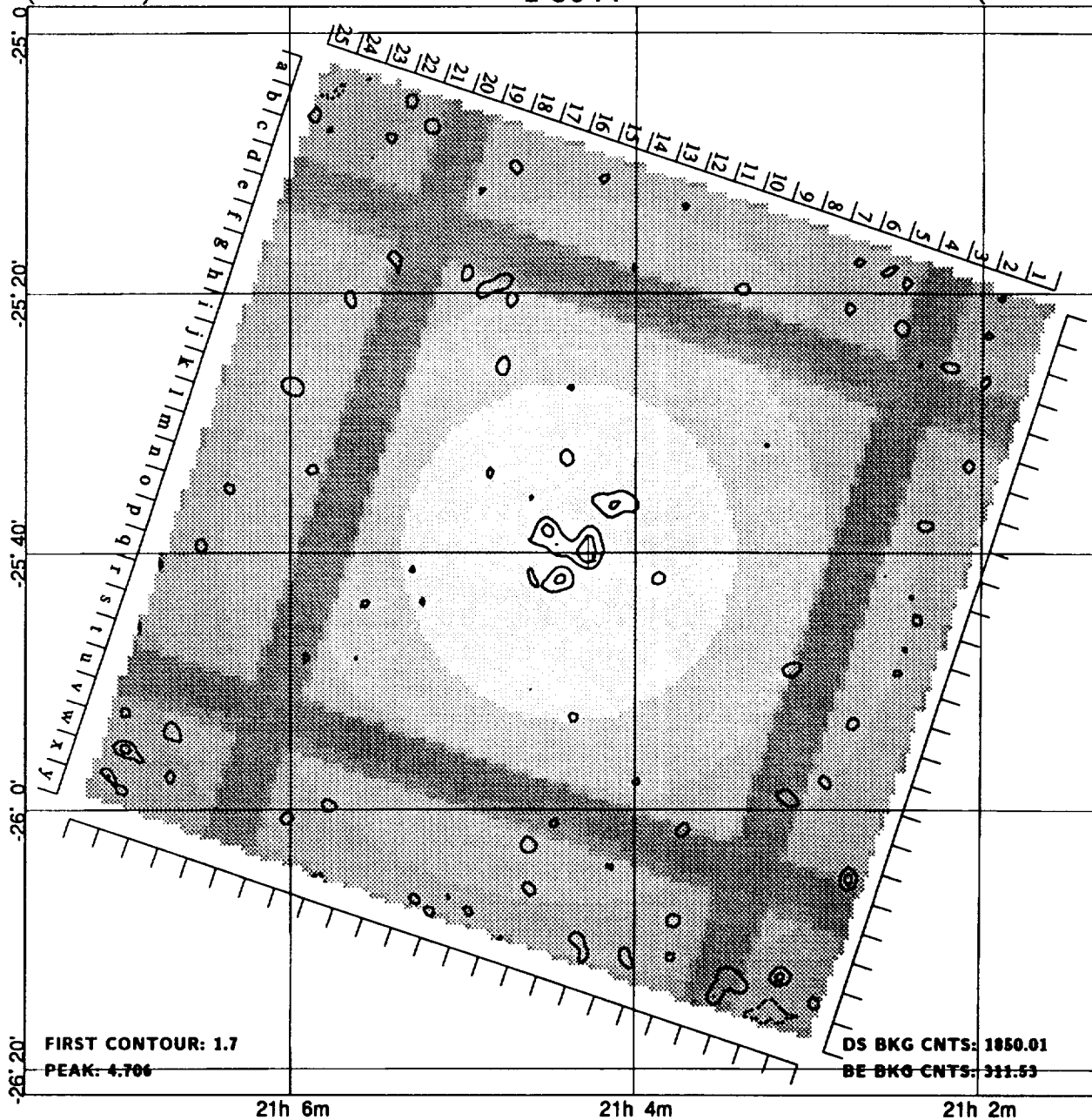
NH: $3.2\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4442	1	21 02 14.6	-39 50 58	53	0.0077	0.0020	27.1	21.9	3.9	0.7	0	16.8	
4443	2	21 03 18.4	-39 47 05	42	0.0081	0.0018	34.8	26.2	4.5	1.0	0	7.4	H
4444	3	21 03 44.3	-39 48 06	39	0.0197	0.0024	86.7	25.3	8.2	1.1	0	5.0	H

(21h 4m)

I 3044

(21h 4m)



RADIO SOURCE PKS 2104-25

FIELD CENTER: $21^{\text{h}}04^{\text{m}}24.9^{\text{s}}$ $-25^{\circ}39'59''$ (B1950)
 $21^{\text{h}}07^{\text{m}}20.7^{\text{s}}$ $-25^{\circ}27'53''$ (J2000)
 $l: 21.41$ $b: -40.17$

DATE: 1979/297 - 1979/297
 LIVETIME: 1499.1s
 ROLL ANGLE: 108.4°

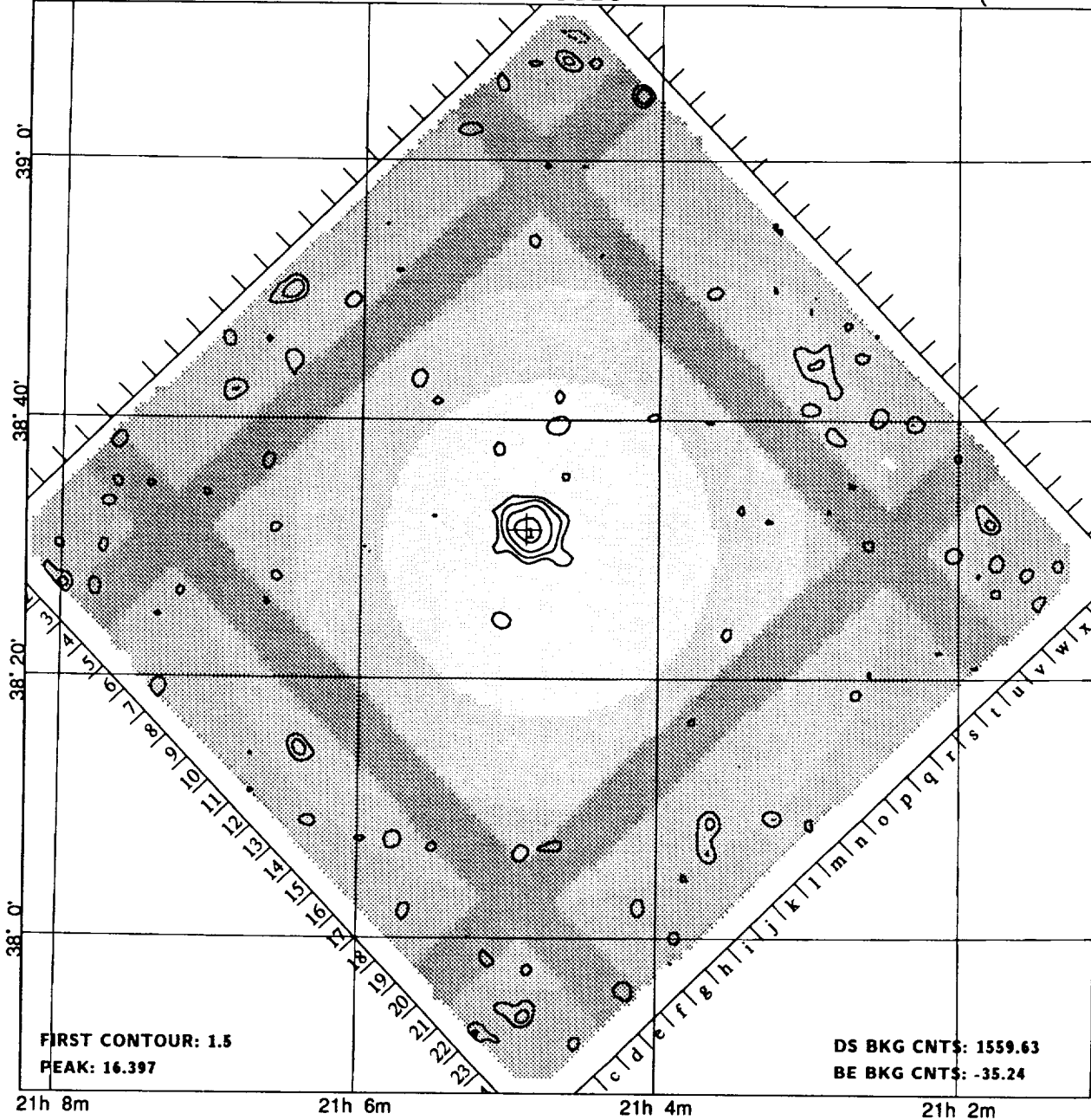
NH: $5.2\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4445	1	21 04 16.5	-25 40 06	37	0.0179	0.0045	19.9	5.1	4.0	1.6	0	1.5	

(21h 4m)

I 3116

(21h 4m)



COHERENT SAMPLING OF NEARBY STARS: 61 CYG A/B

FIELD CENTER: 21^h04^m39.6^s 38°29'59" (B1950)
 21^h06^m36.6^s 38°42'05" (J2000)
 l : 82.25 b : -5.81

DATE: 1979/172 - 1979/172
 LIVETIME: 1263.8s
 ROLL ANGLE: -43.8°

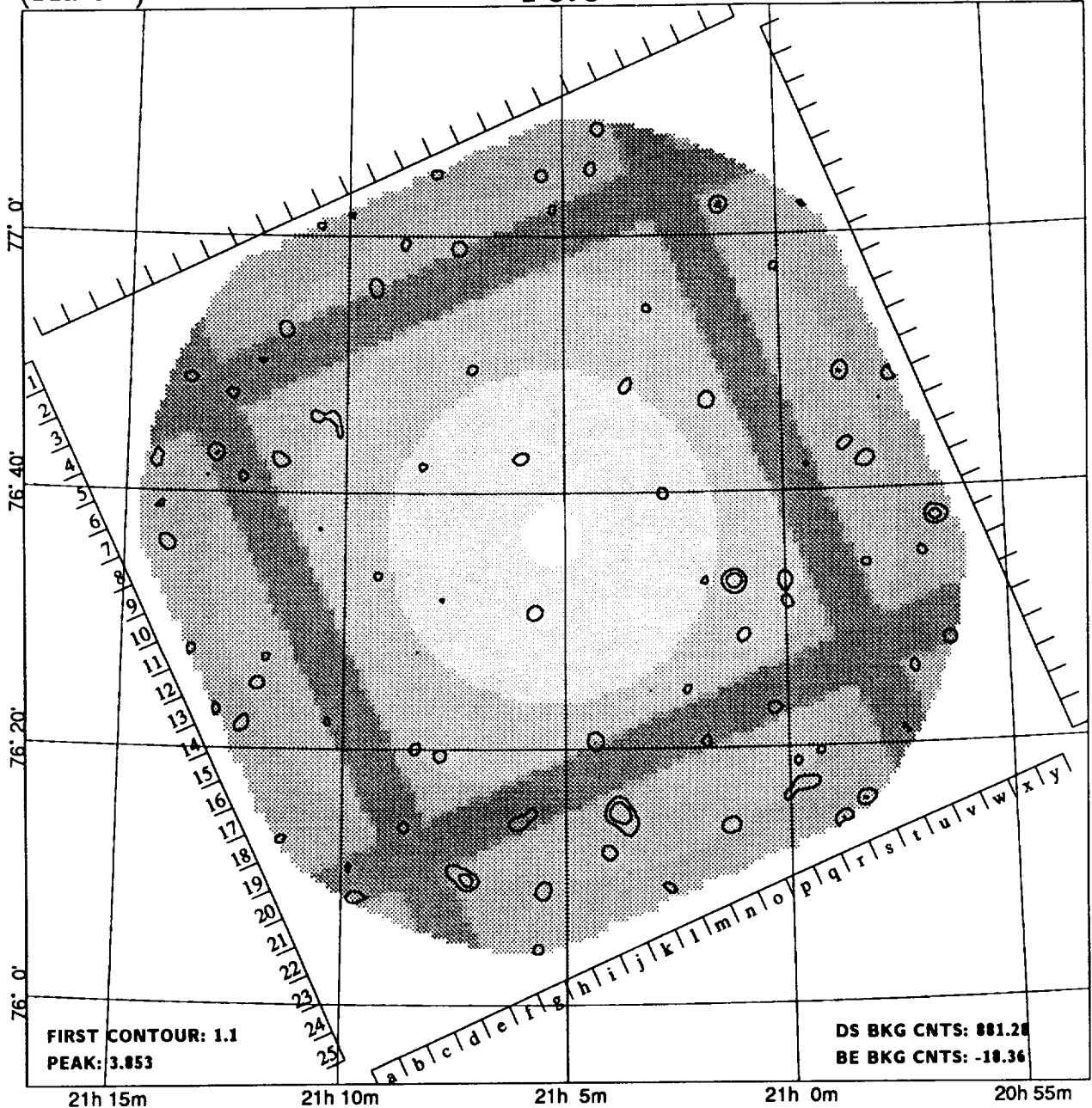
NH: 2.9E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4446	1	21 04 53.4	38 31 32	32	0.0839	0.0097	78.0	4.0	8.6	1.6	0	2.9	H S

(21h 5m)

I 375

(21h 5m)



3C 427.1 RADIO SOURCE SURVEY

FIELD CENTER: 21^h05^m11.8^s 76°35'59" (B1950)
 21^h04^m30.0^s 76°48'03" (J2000)
 l : 111.25 b : 19.42

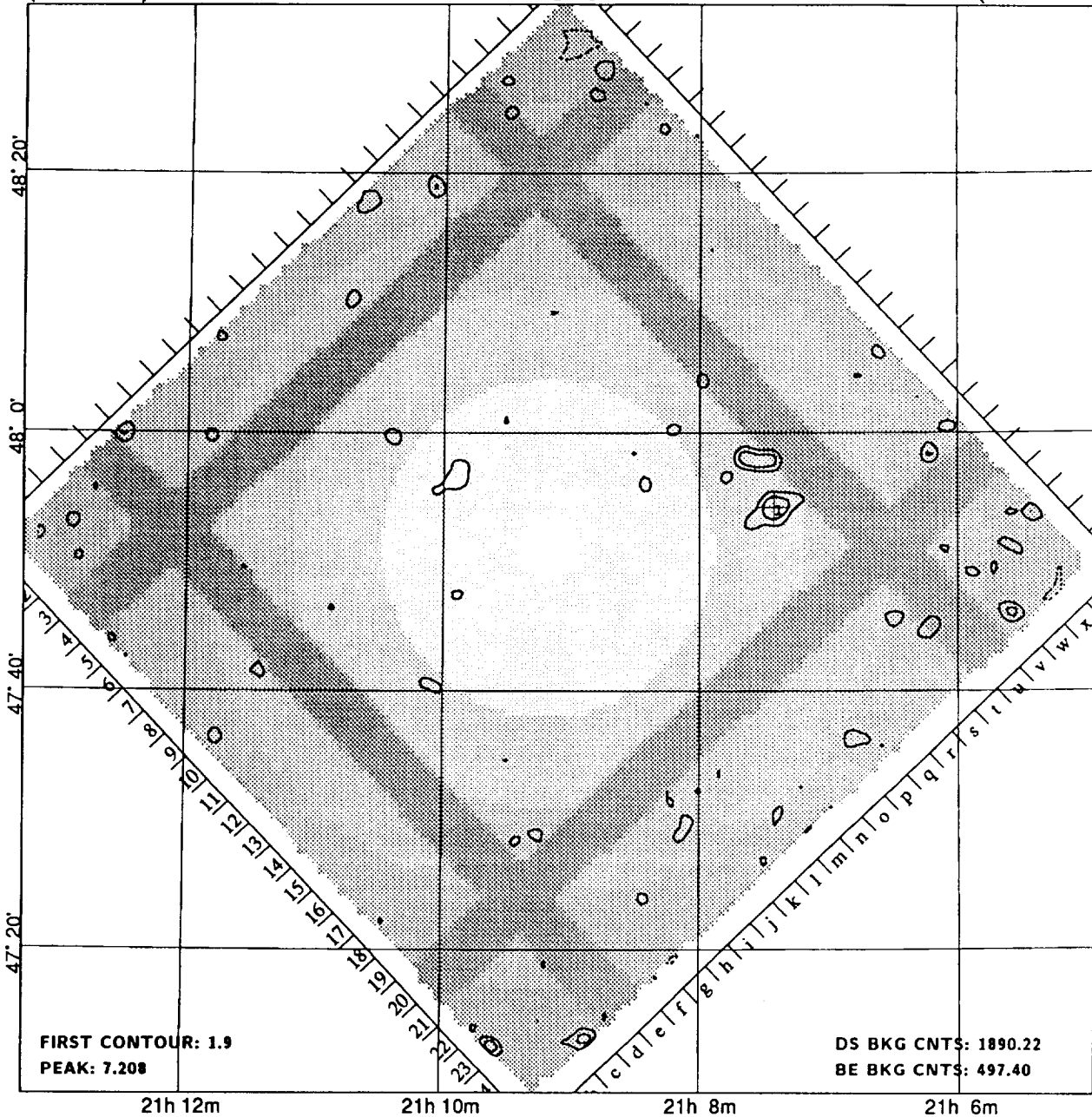
DATE: 1979/193 - 1979/193
 LIVETIME: 714.1s
 ROLL ANGLE: -23.9°

NH: 1.2E+21
 REF/ID:
 FIELD FLAGS:

(21h 9m)

I 3291

(21h 9m)



CANDIDATE X-RAY BINARY SOURCES: V1500 CYG

FIELD CENTER: $21^{\text{h}}09^{\text{m}}05.8^{\text{s}}$ $47^{\circ}50'59''$ (B1950)
 $21^{\text{h}}10^{\text{m}}49.5^{\text{s}}$ $48^{\circ}03'18''$ (J2000)
 $l: 89.66$ $b: -0.04$

DATE: 1979/172 - 1979/172
 LIVETIME: 1531.7s
 ROLL ANGLE: -43.6°

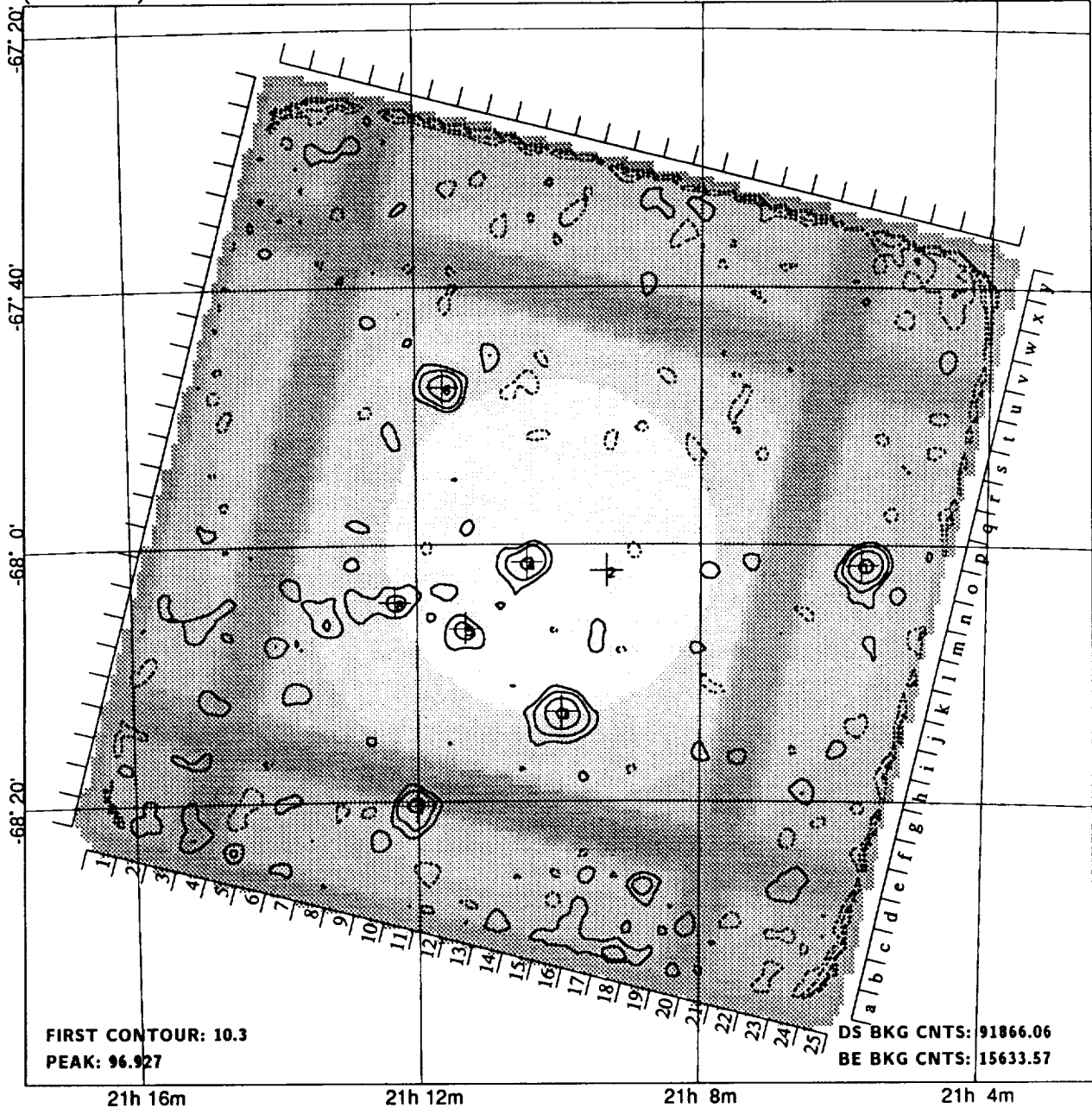
NH: $8.2\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4448	1	21 07 25.2	47 54 12	53	0.0235	0.0059	19.5	4.5	4.0	1.0	100	17.0	H

(21h 9m)

I 30

(21h 9m)



PAV DEEP SURVEY

FIELD CENTER: 21^h09^m59.8^s -67°59'59" (B1950)
 21^h14^m23.6^s -67°47'33" (J2000)
l: 325.92 *b*: -38.22

DATE: 1979/120 - 1979/123
 LIVETIME: 74441.5s
 ROLL ANGLE: -76.0°

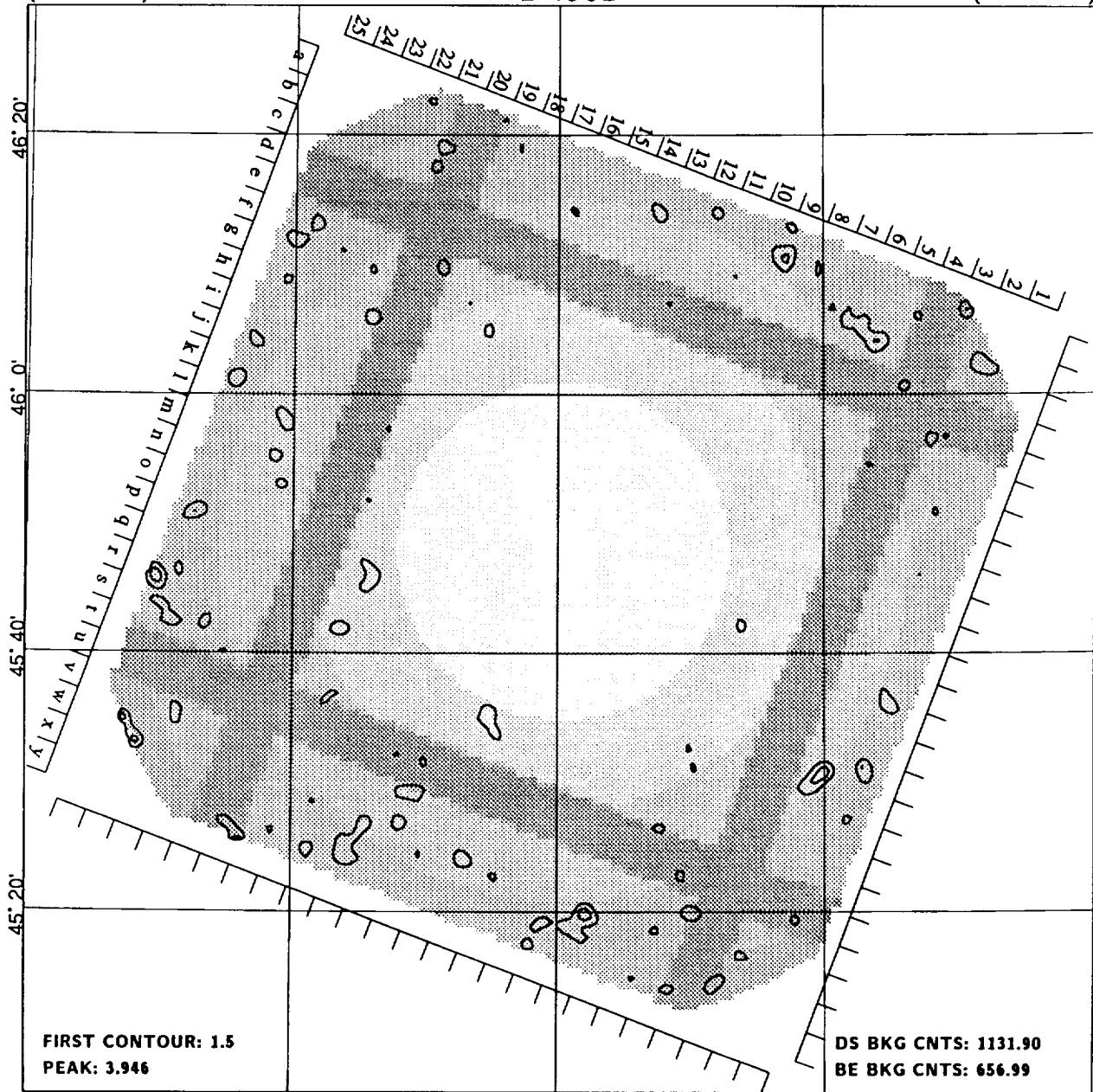
NH: 3.0E+20
 REF/ID: *
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4447	1	21 05 44.8	-68 01 35	48	0.00730	0.00061	239.1	160.9	12.0	1.2	0	23.9	H	
4449	2L	21 09 19.4	-68 02 01	36	0.00191	0.00044	102.2	229.8	4.3	0.0	0	4.3		
4450	3	21 09 58.0	-68 12 58	38	0.00647	0.00048	303.3	204.7	13.5	1.4	0	12.9	H	G
4452	4	21 10 26.9	-68 01 22	31	0.00360	0.00039	197.5	267.5	9.2	1.2	0	3.0	H	Q
4453	5	21 11 19.3	-68 06 28	38	0.00191	0.00040	95.9	305.1	4.8	0.9	0	10.0		Q
4454	6	21 11 37.3	-67 47 44	48	0.00532	0.00048	233.3	201.7	11.2	1.1	0	15.4	H	Q
4455	7	21 12 01.3	-68 20 19	54	*0.00395	0.00048	137.1	143.9	8.2	1.1	1006	23.2	H	
4457	8	21 12 18.5	-68 04 25	41	0.00240	0.00041	111.1	256.9	5.8	1.3	0	13.4		*

(21h 9m)

I 4961

(21h 9m)



FIRST CONTOUR: 1.5
PEAK: 3.946

DS BKG CNTS: 1131.90
BE BKG CNTS: 656.99

21h 12m

21h 10m

21h 8m

CYG X-6 #1

FIELD CENTER: 21^h09^m59.8^s 45°47'59" (B1950)
21^h11^m47.2^s 46°00'21" (J2000)
ℓ: 88.28 b: -1.56

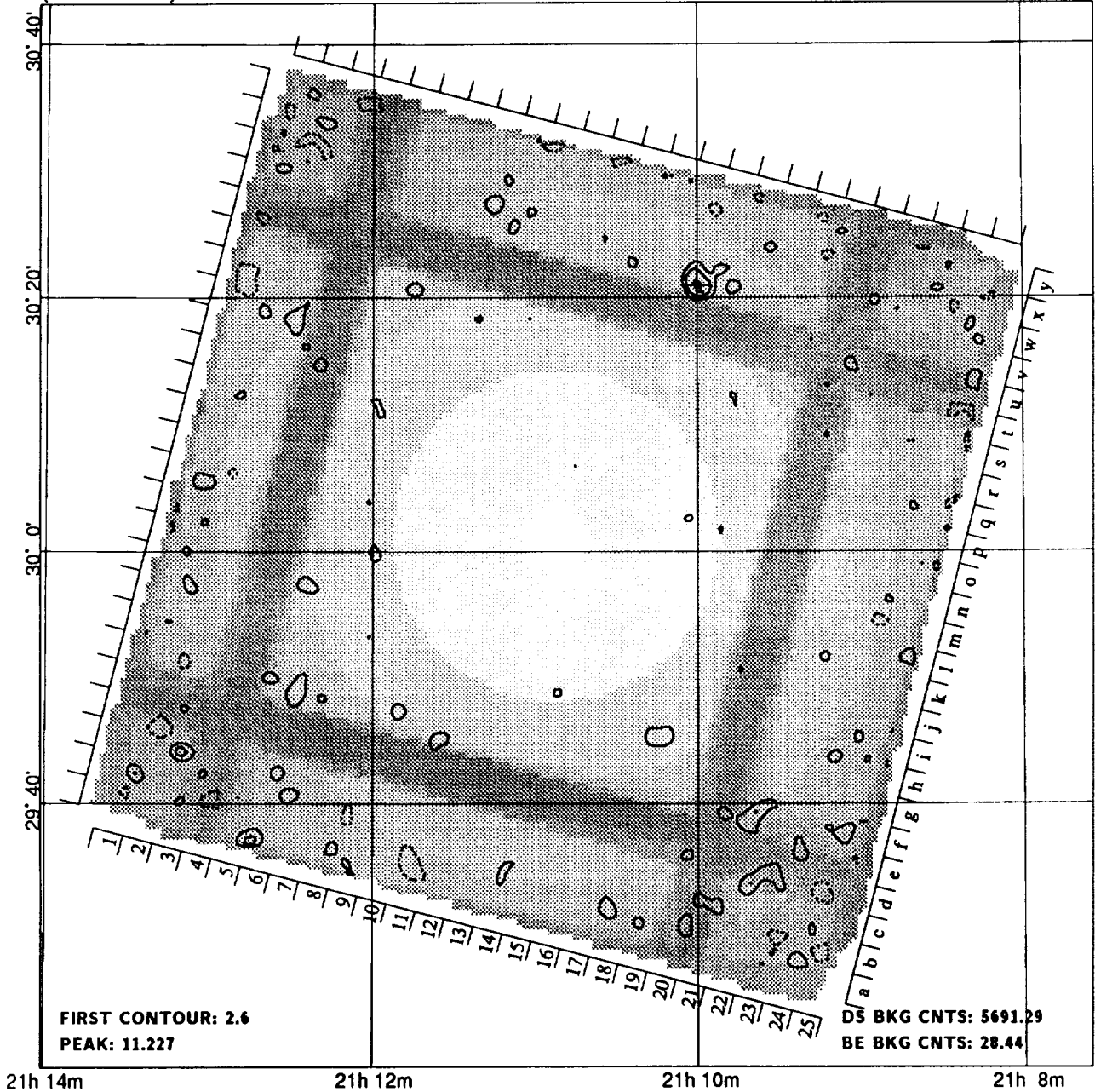
DATE: 1979/326 - 1979/326
LIVETIME: 917.2s
ROLL ANGLE: 110.6°

NH: 5.7E+21
REF/ID:
FIELD FLAGS: L

(21h 10m)

I 7868

(21h 10m)



ZETA CYG, CORONAL ACTIVITY IN G STARS W/LARGE MASS LOSS

FIELD CENTER: 21^h10^m48.2^s 30°01'15" (B1950)
 21^h12^m56.0^s 30°13'40" (J2000)
 l : 76.75 b : -12.45

DATE: 1980/126 - 1980/127
 LIVETIME: 4777.4s
 ROLL ANGLE: -75.4°

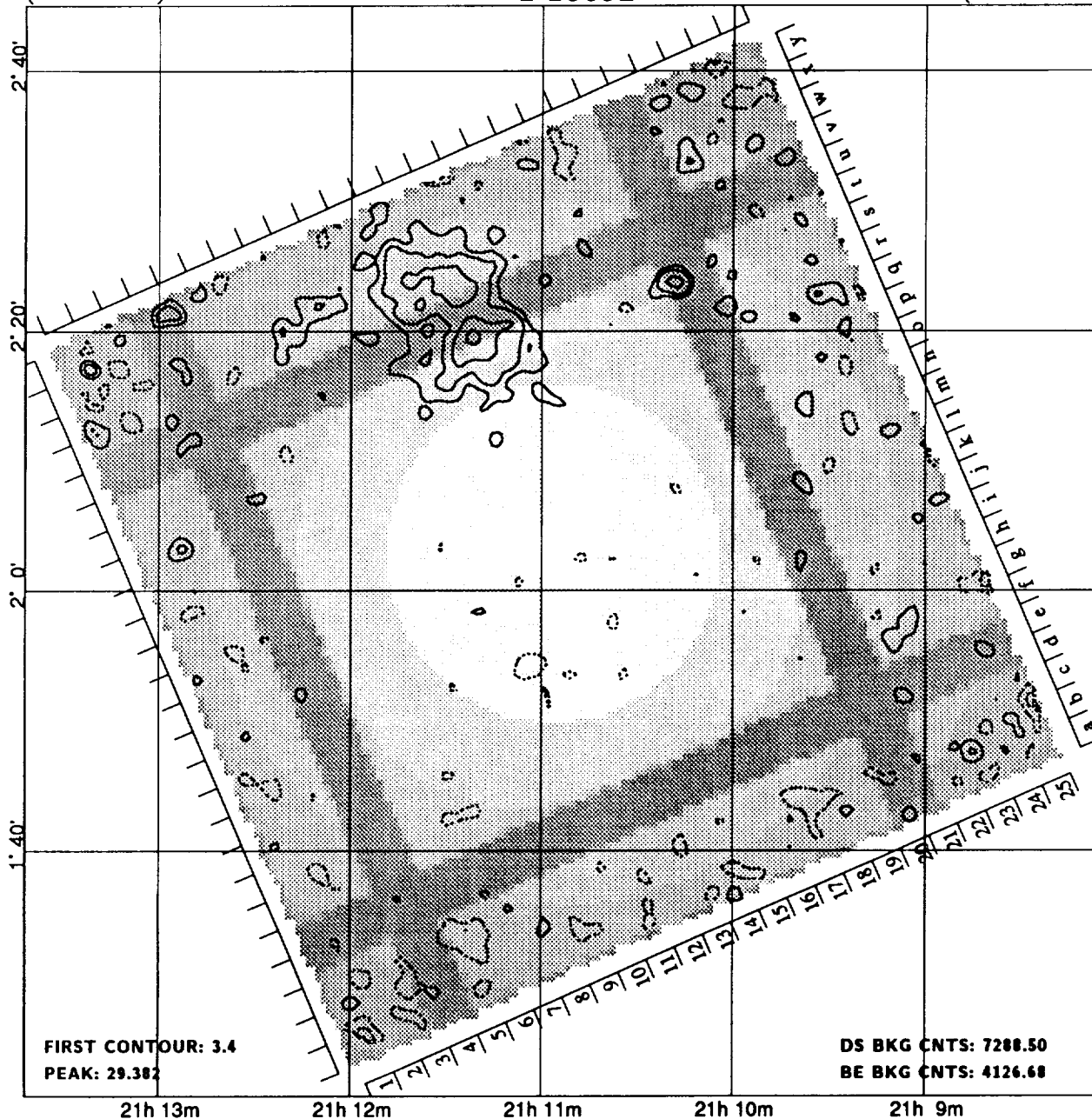
NH: 1.4E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4451	1	21 10 00.3	30 20 57	52	*0.0113	0.0026	25.1	7.9	4.4	0.8	603	22.4	H	

(21h 10m)

I 10692

(21h 10m)



FIRST CONTOUR: 3.4
 PEAK: 29.382

DS BKG CNTS: 7288.50
 BE BKG CNTS: 4126.68

21h 13m

21h 12m

21h 11m

21h 10m

21h 9m

468: Zwicky cluster

FIELD CENTER: $21^{\text{h}}10^{\text{m}}53.7^{\text{s}}\ 02^{\circ}02'59''$ (B1950)
 $21^{\text{h}}13^{\text{m}}25.8^{\text{s}}\ 02^{\circ}15'25''$ (J2000)
 $l: 53.15\ b: -29.90$

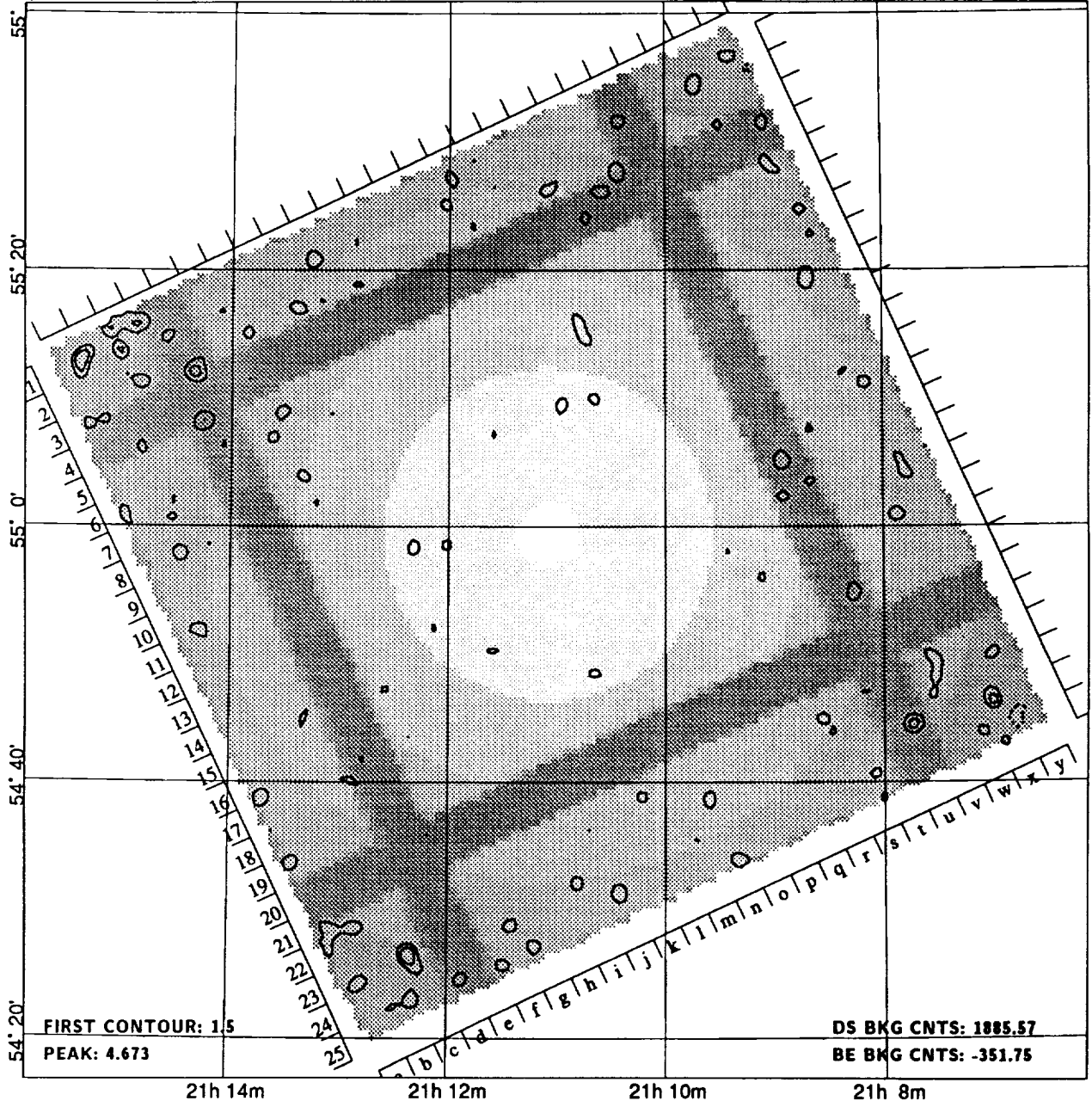
DATE: 1981/113 - 1981/113
 LIVETIME: 5906.1s
 ROLL ANGLE: -113.5°

NH: $6.7\text{E}+20$
 REF/ID:
 FIELD FLAGS: LS

(21h 10m)

I 8688

(21h 10m)



SOURCE POSITION 4, COS-B GAMMA RAY SOURCES

FIELD CENTER: $21^{\text{h}}10^{\text{m}}59.8^{\text{s}}$ $54^{\circ}58'59''$ (B1950)
 $21^{\text{h}}12^{\text{m}}29.4^{\text{s}}$ $55^{\circ}11'23''$ (J2000)
 $l: 95.05$ $b: 4.65$

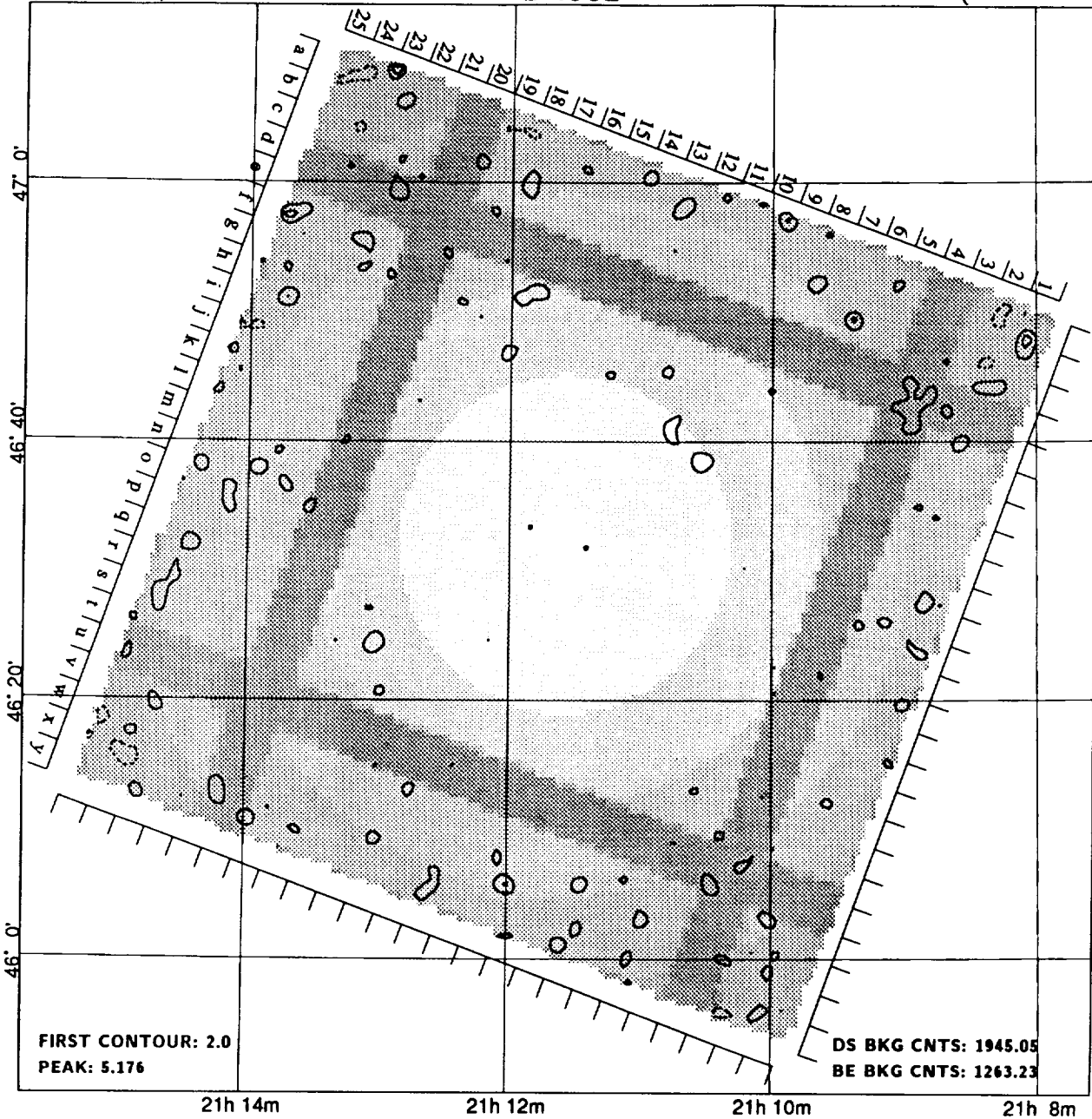
DATE: 1980/193 - 1980/193
 LIVETIME: 1527.9s
 ROLL ANGLE: -25.1°

NH: $8.9\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(21h 11m)

I 4962

(21h 11m)



FIRST CONTOUR: 2.0
PEAK: 5.176

DS BKG CNTS: 1945.05
BE BKG CNTS: 1263.23

21h 14m 21h 12m 21h 10m 21h 8m

CYG X-6 #2 (PSR2111+46)

FIELD CENTER: 21^h11^m37.7^s 46°31'40" (B1950)
21^h13^m24.3^s 46°44'07" (J2000)
ℓ: 89.00 b: -1.27

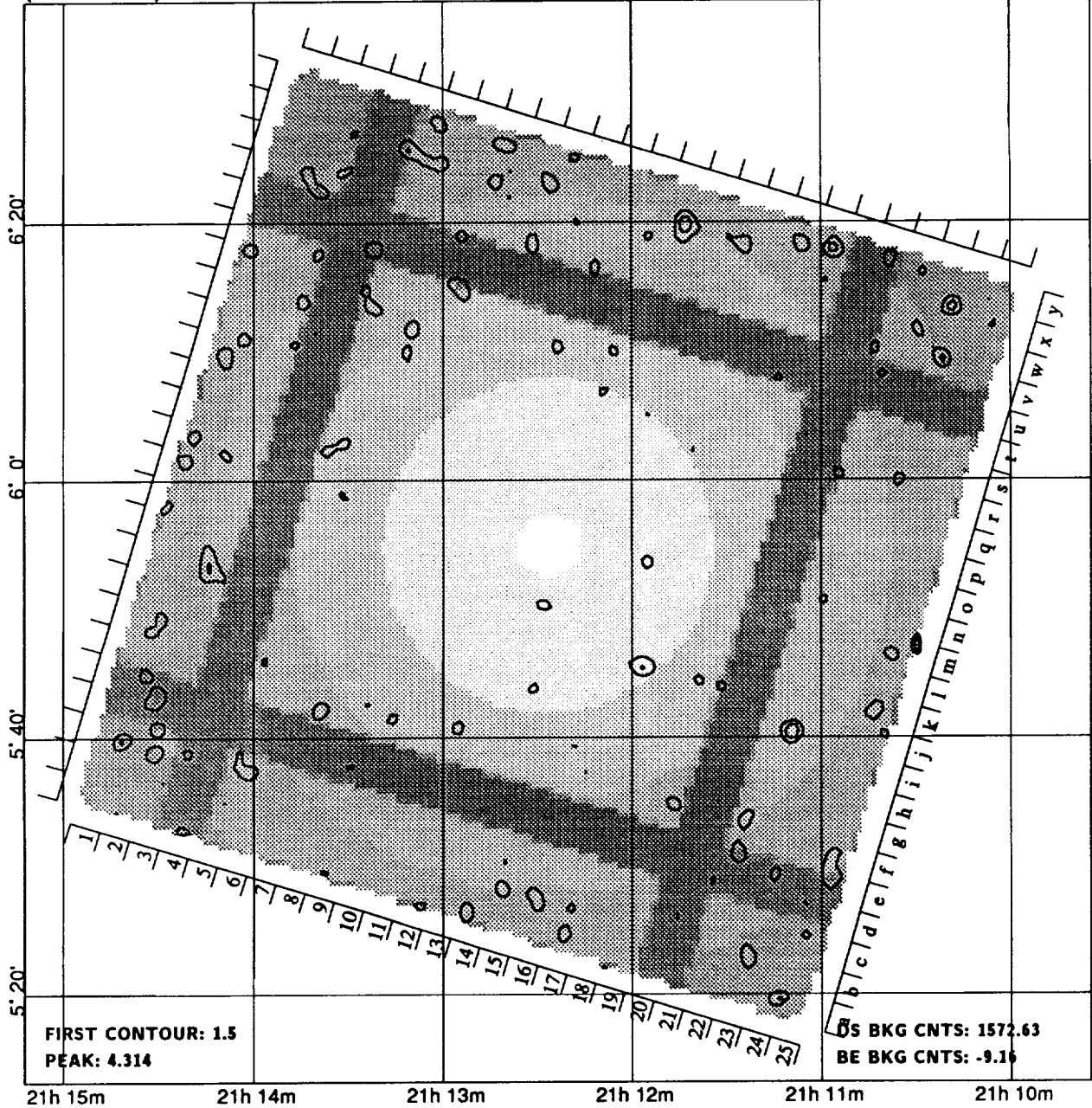
DATE: 1979/326 - 1979/326
LIVETIME: 1576.1s
ROLL ANGLE: 110.2°

NH: 5.7E+21
REF/ID:
FIELD FLAGS: L

(21h 12m)

I 8437

(21h 12m)



SURVEY OF BRIGHT (PG) QUASARS

FIELD CENTER: $21^{\text{h}}12^{\text{m}}23.4^{\text{s}}$ $05^{\circ}55'11''$ (B1950)
 $21^{\text{h}}14^{\text{m}}52.5^{\text{s}}$ $06^{\circ}07'41''$ (J2000)
 $l: 57.04$ $b: -28.01$

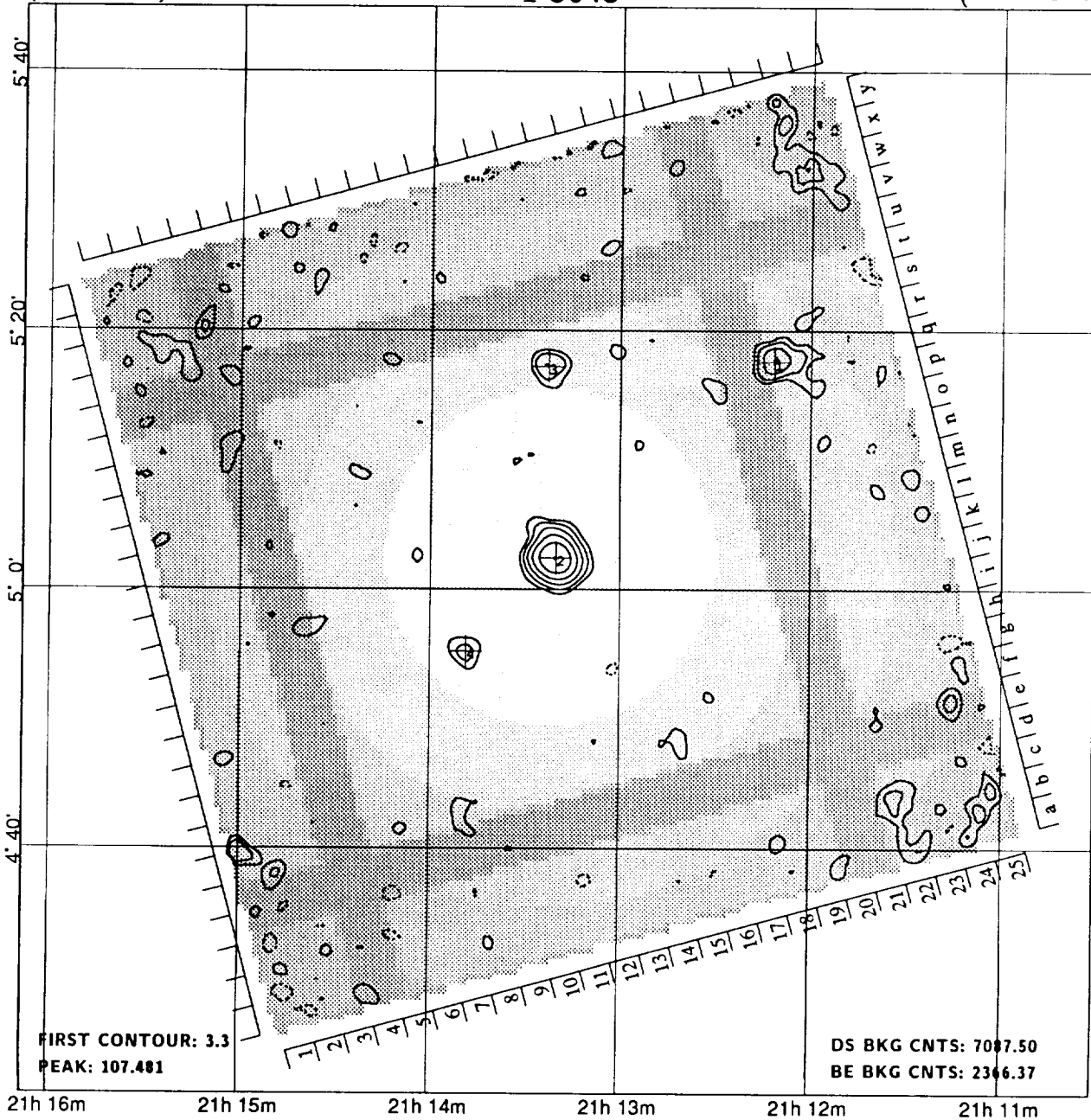
DATE: 1980/129 - 1980/129
 LIVETIME: 1320.1s
 ROLL ANGLE: -73.2°

NH: $6.5E+20$
 REF/ID:
 FIELD FLAGS:

(21h 13m)

I 5645

(21h 13m)



Alpha EQU

FIELD CENTER: 21^h13^m19.8^s 05°02'59" (B1950)
 21^h15^m49.6^s 05°15'32" (J2000)
 $l: 56.39$ $b: -28.71$

DATE: 1981/111 - 1981/111
 LIVETIME: 5743.3s
 ROLL ANGLE: -105.1°

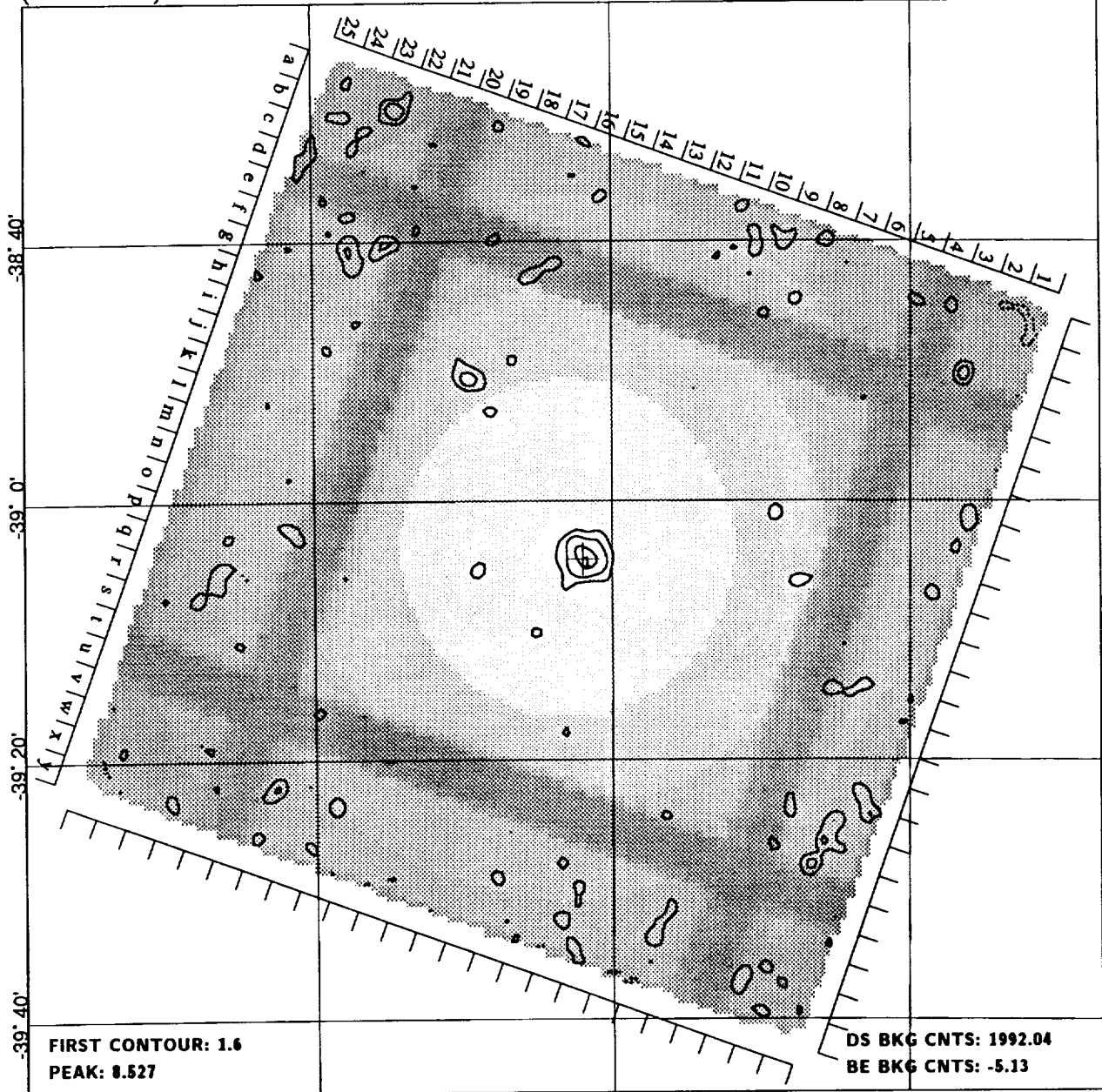
NH: 6.5E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4456	1	21 12 11.5	05 17 33	50	*0.0247	0.0034	65.6	14.4	7.3	1.2	703	22.5	H	
4458	2	21 13 20.2	05 02 25	31	0.1103	0.0052	472.5	24.5	21.2	1.3	0	0.4	H	
4459	3	21 13 22.9	05 17 11	42	0.0121	0.0023	41.2	19.8	5.3	0.9	0	14.3	H	
4460	4	21 13 48.6	04 55 07	42	0.0077	0.0019	29.4	22.6	4.1	0.7	0	10.8		

(21h 14m)

I 5646

(21h 14m)



21h 16m

21h 14m

21h 12m

HD 202560

FIELD CENTER: $21^{\text{h}}14^{\text{m}}19.8^{\text{s}}$ $-39^{\circ}03'41''$ (B1950)
 $21^{\text{h}}17^{\text{m}}29.0^{\text{s}}$ $-38^{\circ}51'05''$ (J2000)
 $l: 3.93$ $b: -44.30$

DATE: 1979/303 - 1979/303
 LIVETIME: 1614.2s
 ROLL ANGLE: 109.6°

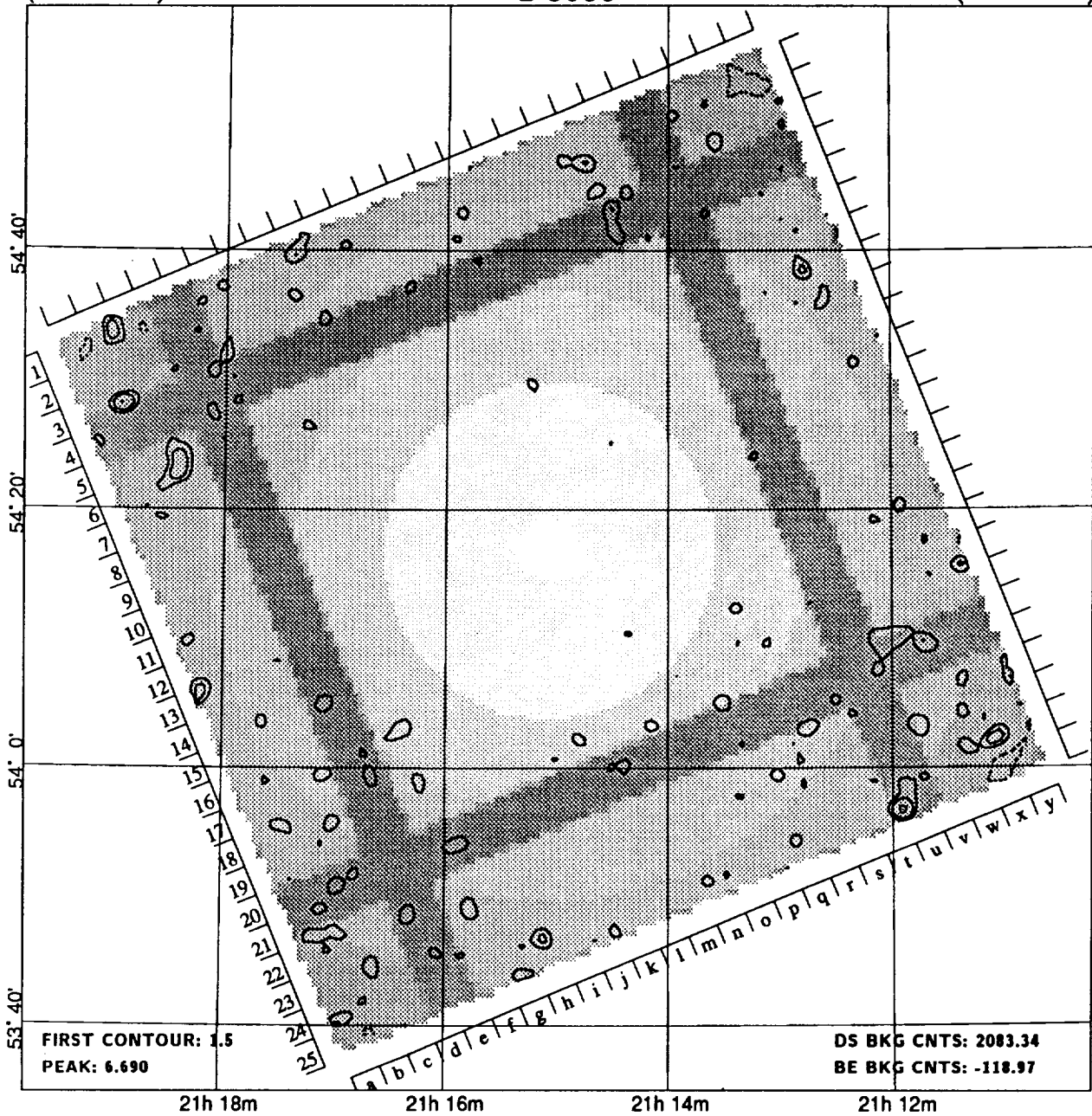
NH: 4.0E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4461	1	21 14 11.9	-39 04 27	35	0.0322	0.0055	38.5	4.5	5.9	1.4	0	2.3	H

(21h 15m)

I 8686

(21h 15m)



SOURCE POSITION 4, COS-B GAMMA RAY SOURCES

FIELD CENTER: 21^h15^m00.0^s 54°16'59" (B1950)
 21^h16^m32.5^s 54°29'35" (J2000)
 l : 94.95 b : 3.75

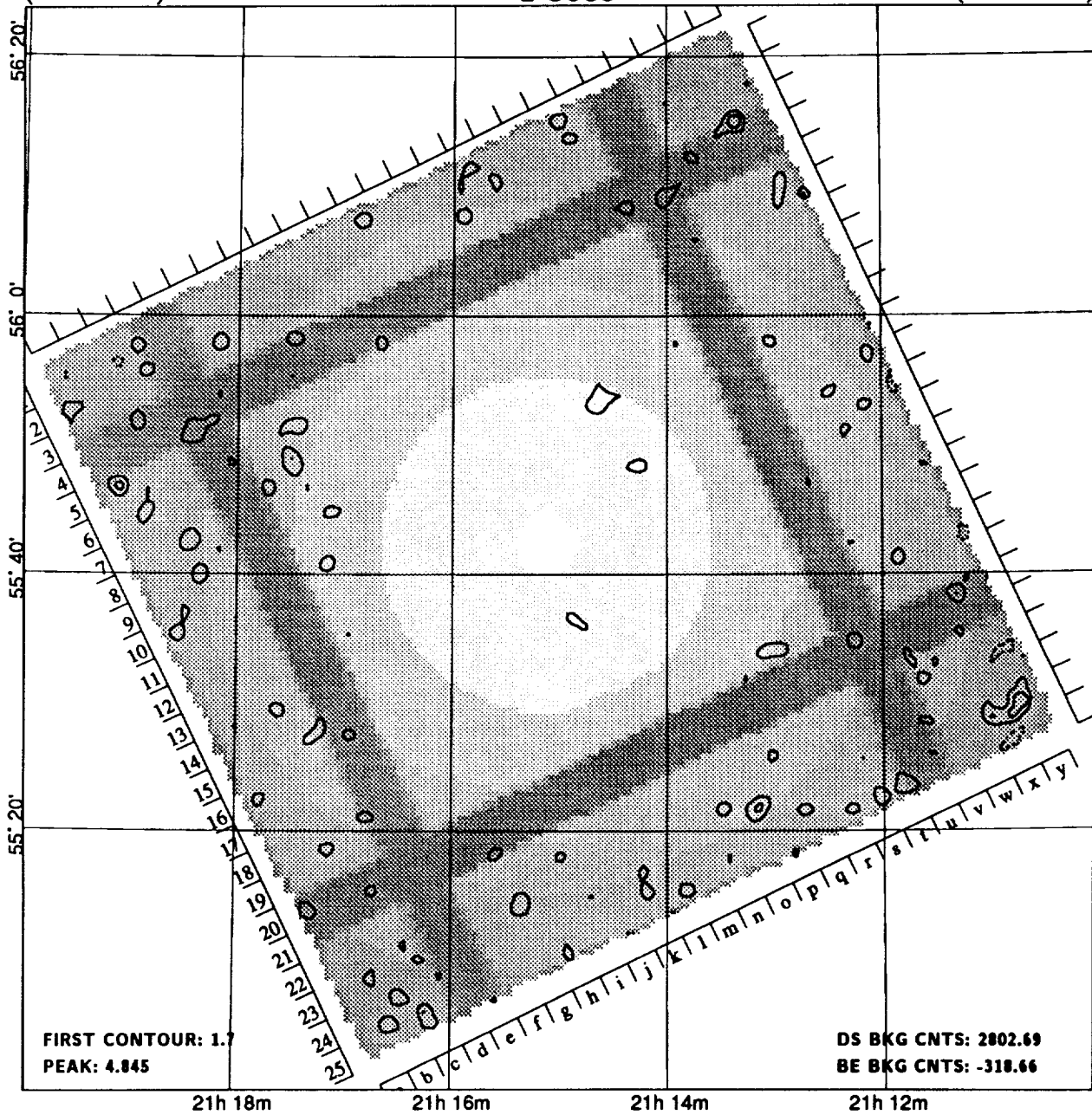
DATE: 1980/193 - 1980/194
 LIVETIME: 1688.2s
 ROLL ANGLE: -22.4°

NH: 9.7E+21
 REF/ID:
 FIELD FLAGS:

(21h 15m)

I 8689

(21h 15m)



SOURCE POSITION 4, COS-B GAMMA RAY SOURCES

FIELD CENTER: $21^{\text{h}}15^{\text{m}}00.0^{\text{s}}$ $55^{\circ}41'59''$ (B1950)
 $21^{\text{h}}16^{\text{m}}29.1^{\text{s}}$ $55^{\circ}54'35''$ (J2000)
 $l: 95.96$ $b: 4.74$

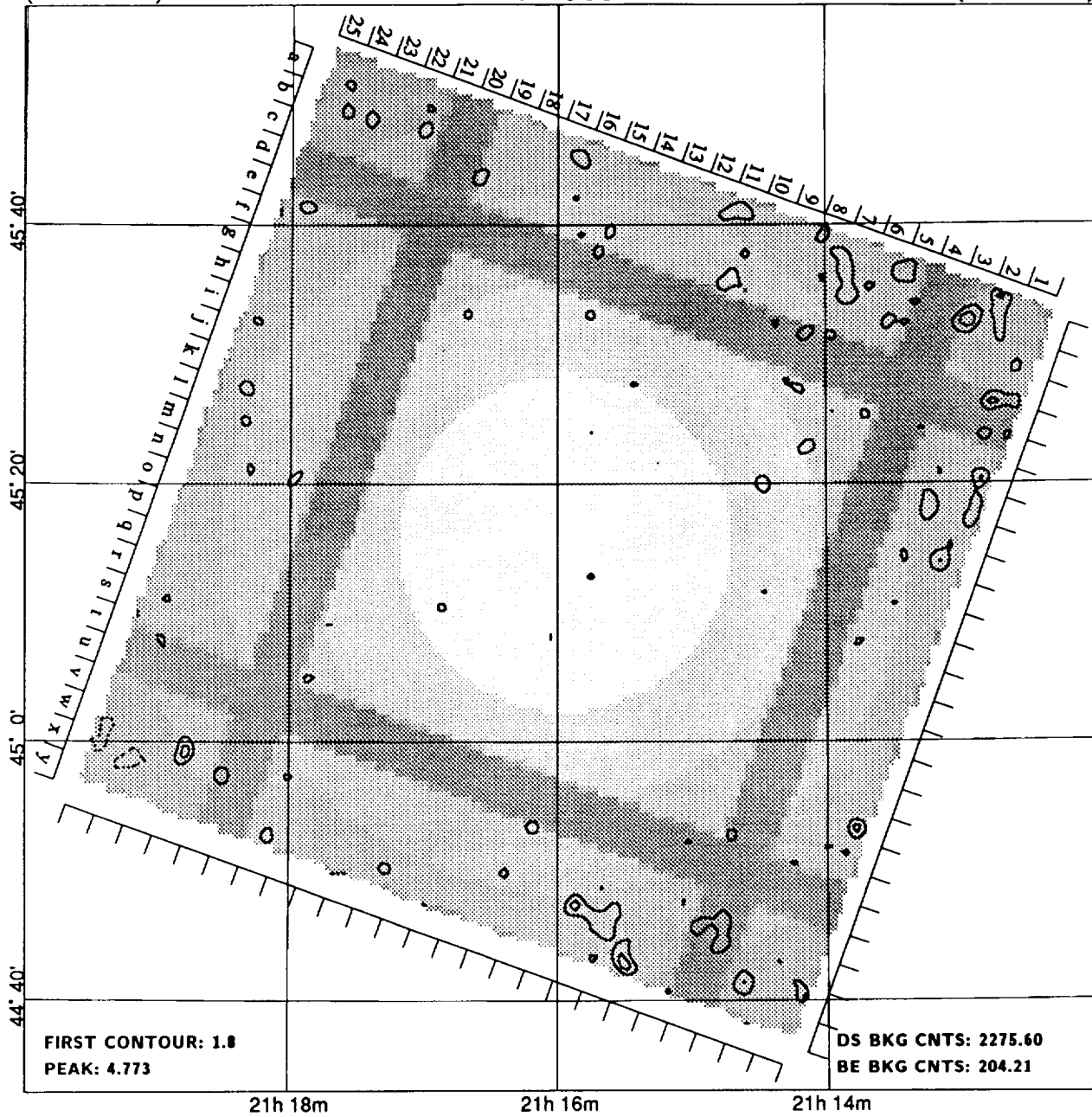
DATE: 1980/193 - 1980/193
 LIVETIME: 2271.1s
 ROLL ANGLE: -25.7°

NH: $8.0E+21$
 REF/ID:
 FIELD FLAGS:

(21h 15m)

I 4963

(21h 15m)



FIRST CONTOUR: 1.8
PEAK: 4.773

DS BKG CNTS: 2275.60
BE BKG CNTS: 204.21

21h 18m

21h 16m

21h 14m

CYG X-6 #3

FIELD CENTER: $21^{\text{h}}15^{\text{m}}59.8^{\text{s}}$ $45^{\circ}14'59''$ (B1950)
 $21^{\text{h}}17^{\text{m}}49.4^{\text{s}}$ $45^{\circ}27'38''$ (J2000)
 $l: 88.62$ $b: -2.70$

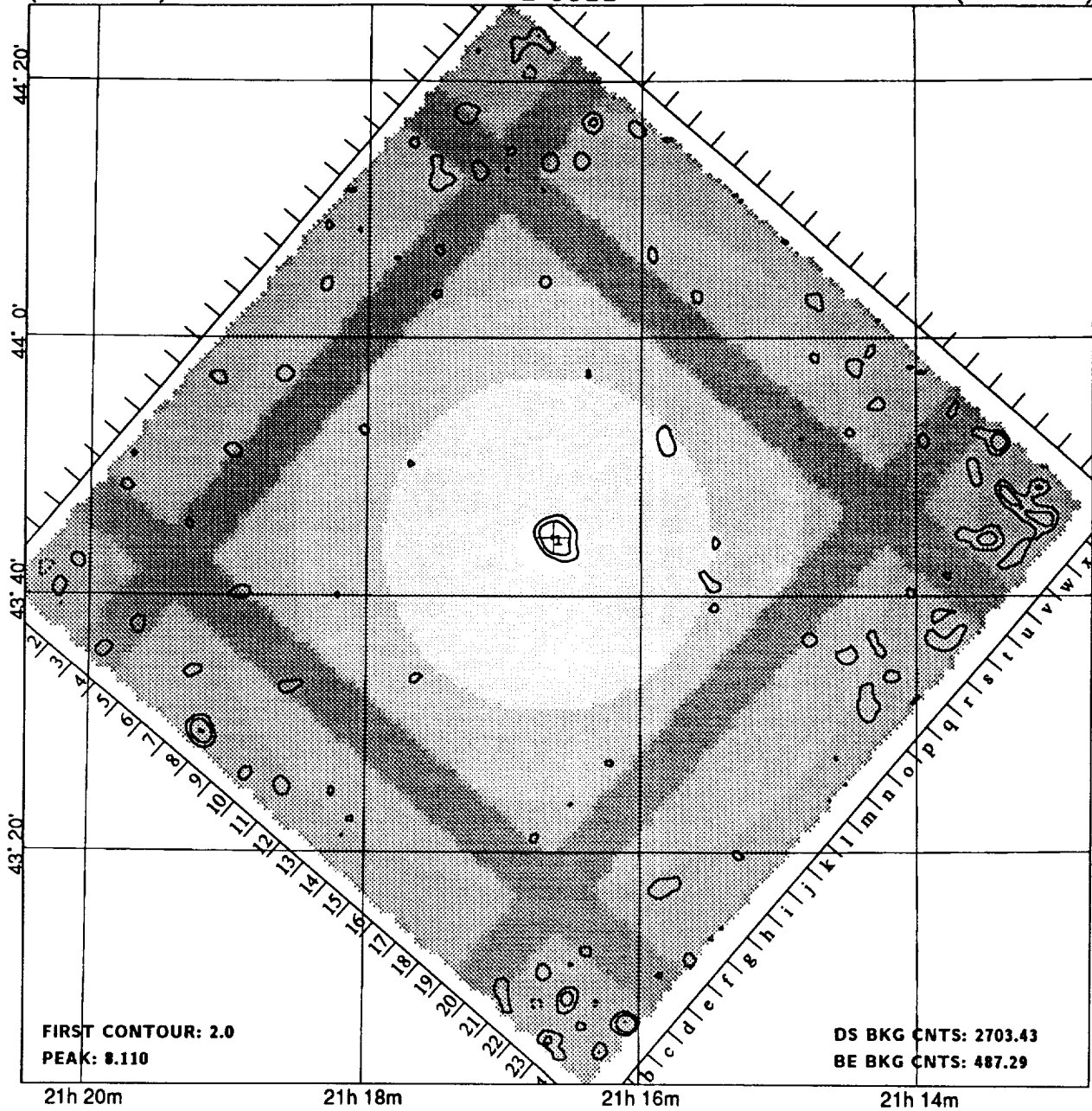
DATE: 1979/326 - 1979/326
LIVETIME: 1844.0s
ROLL ANGLE: 109.8°

NH: $4.4\text{E}+21$
REF/ID:
FIELD FLAGS:

(21h 16m)

I 6811

(21h 16m)



FIRST CONTOUR: 2.0
PEAK: 8.110

DS BKG CNTS: 2703.43
BE BKG CNTS: 487.29

OB RUNAWAYS: 68 CYG

FIELD CENTER: $21^{\text{h}}16^{\text{m}}35.8^{\text{s}}$ $43^{\circ}43'59''$ (B1950)
 $21^{\text{h}}18^{\text{m}}27.8^{\text{s}}$ $43^{\circ}56'40''$ (J2000)
 $l: 87.61$ $b: -3.84$

DATE: 1980/167 - 1980/167
LIVETIME: 2190.7s
ROLL ANGLE: -49.5°

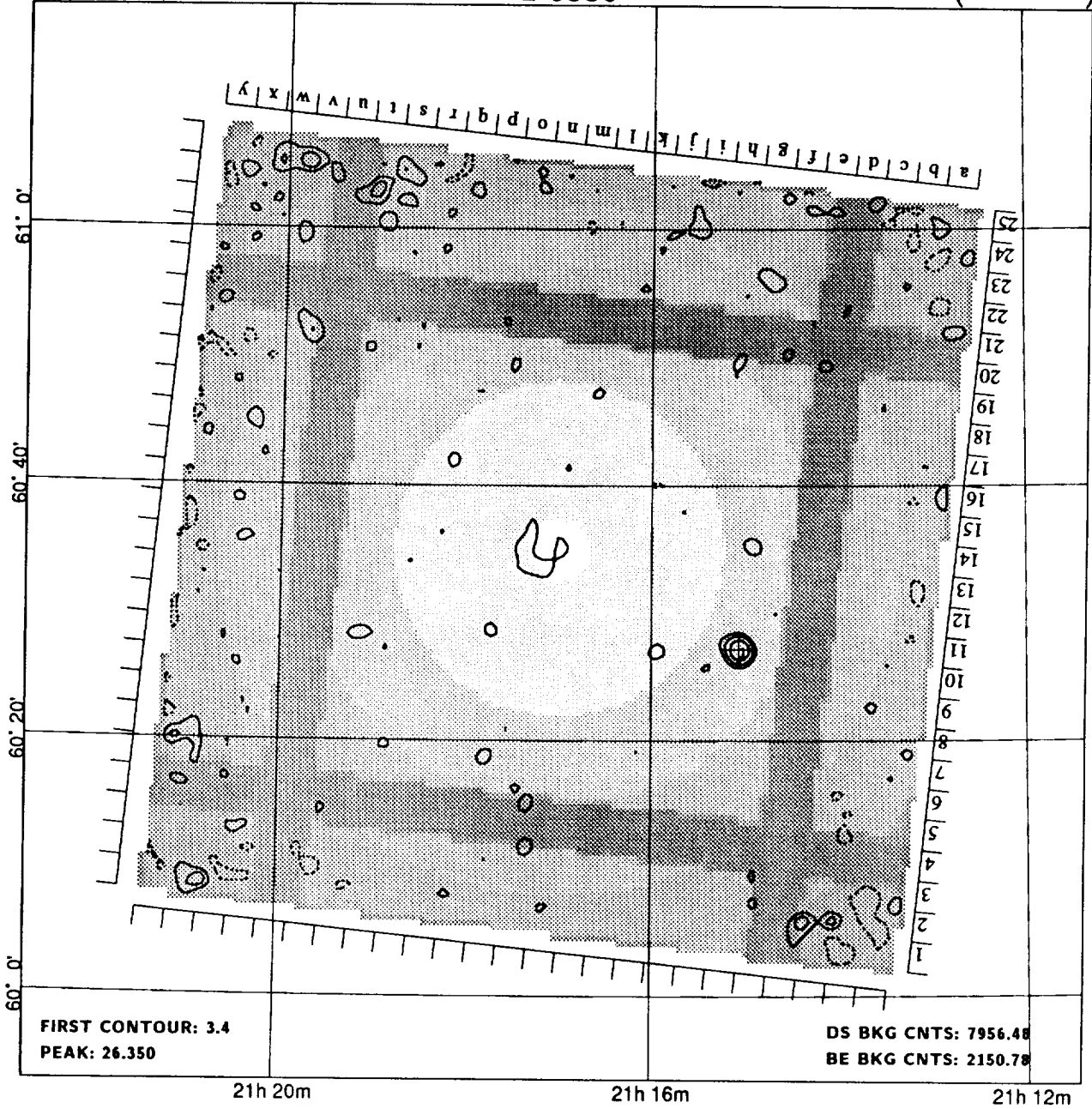
NH: $3.8\text{E}+21$
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4463	1	21 16 38.2	43 44 32	35	0.0247	0.0042	40.3	7.7	5.8	1.0	0	0.8	H

(21h 17m)

I 6330

(21h 17m)



3CR 430, 3CR RADIO GAL. W/SEYFERT-LIKE OPT. SPECTRA

FIELD CENTER: $21^h 17^m 02.5^s$ $60^\circ 35' 26''$ (B1950)
 $21^h 18^m 18.9^s$ $60^\circ 48' 07''$ (J2000)
 $l: 99.68$ $b: 7.96$

DATE: 1980/ 40 - 1980/ 40
 LIVETIME: 6447.4s
 ROLL ANGLE: -174.1°

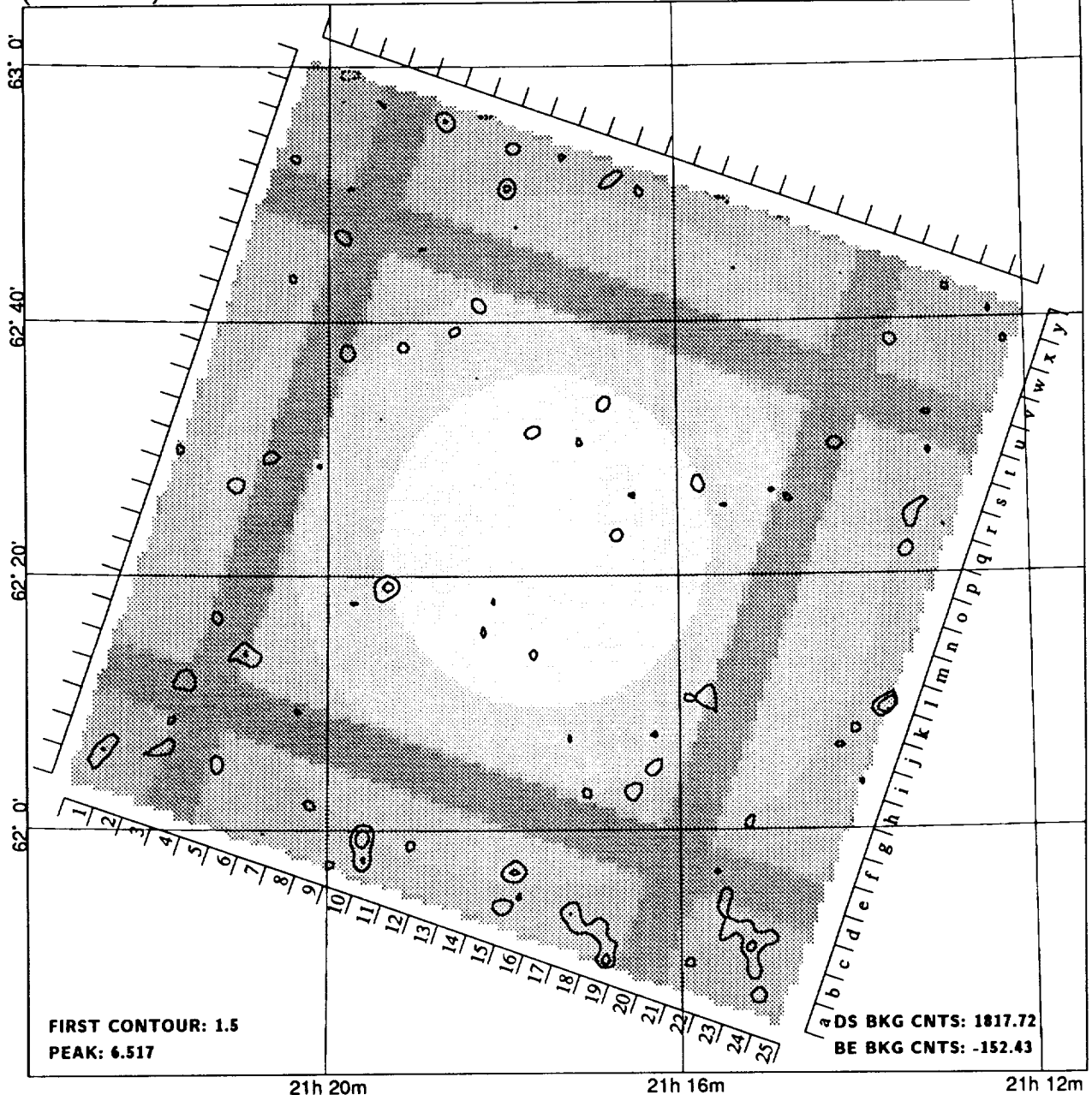
NH: $3.8E+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4462	1	21 15 03.7	60 27 08	50	0.0161	0.0024	59.3	20.7	6.6	0.8	0	16.7		SY

(21h 17m)

I 2242

(21h 17m)



STELLAR SURVEY-EARLY TYPE STARS: HD203280=ALPHA CEP

FIELD CENTER: $21^{\text{h}}17^{\text{m}}23.7^{\text{s}}$ $62^{\circ}22'59''$ (B1950)
 $21^{\text{h}}18^{\text{m}}34.2^{\text{s}}$ $62^{\circ}35'41''$ (J2000)
 $l: 101.01$ $b: 9.18$

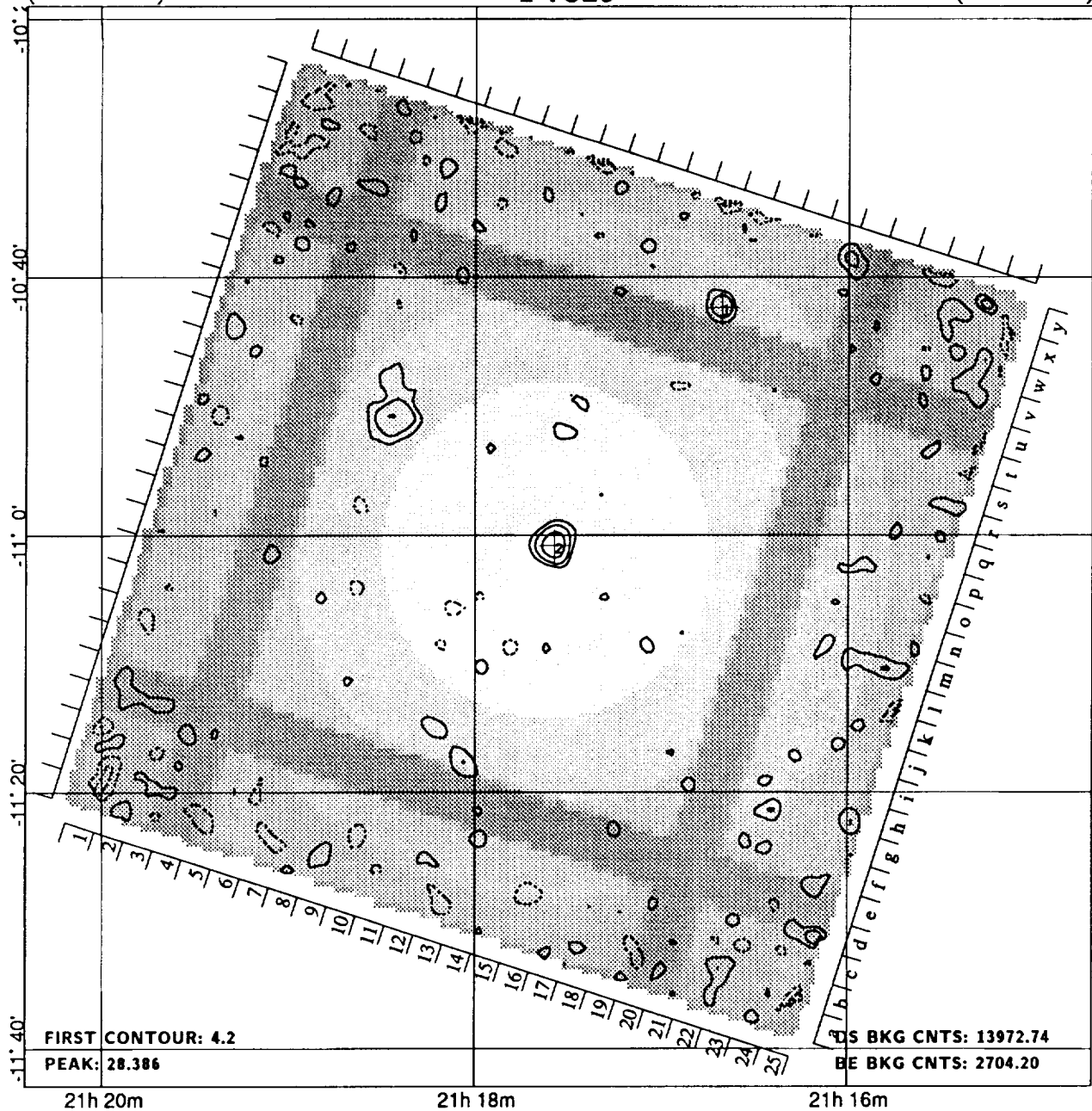
DATE: 1979/144 - 1979/144
 LIVETIME: 1472.9s
 ROLL ANGLE: -70.8°

NH: $3.1\text{E}+21$
 REF/ID: !
 FIELD FLAGS:

(21h 17m)

I 7329

(21h 17m)



RY AQR, ALGOL-LIKE SYSTEM

FIELD CENTER: $21^h 17^m 33.2^s$ $-11^\circ 01' 02''$ (B1950)
 $21^h 20^m 15.3^s$ $-10^\circ 48' 18''$ (J2000)
 $l: 40.50$ $b: -37.88$

DATE: 1980/131 - 1980/133
 LIVETIME: 11729.1s
 ROLL ANGLE: -72.3°

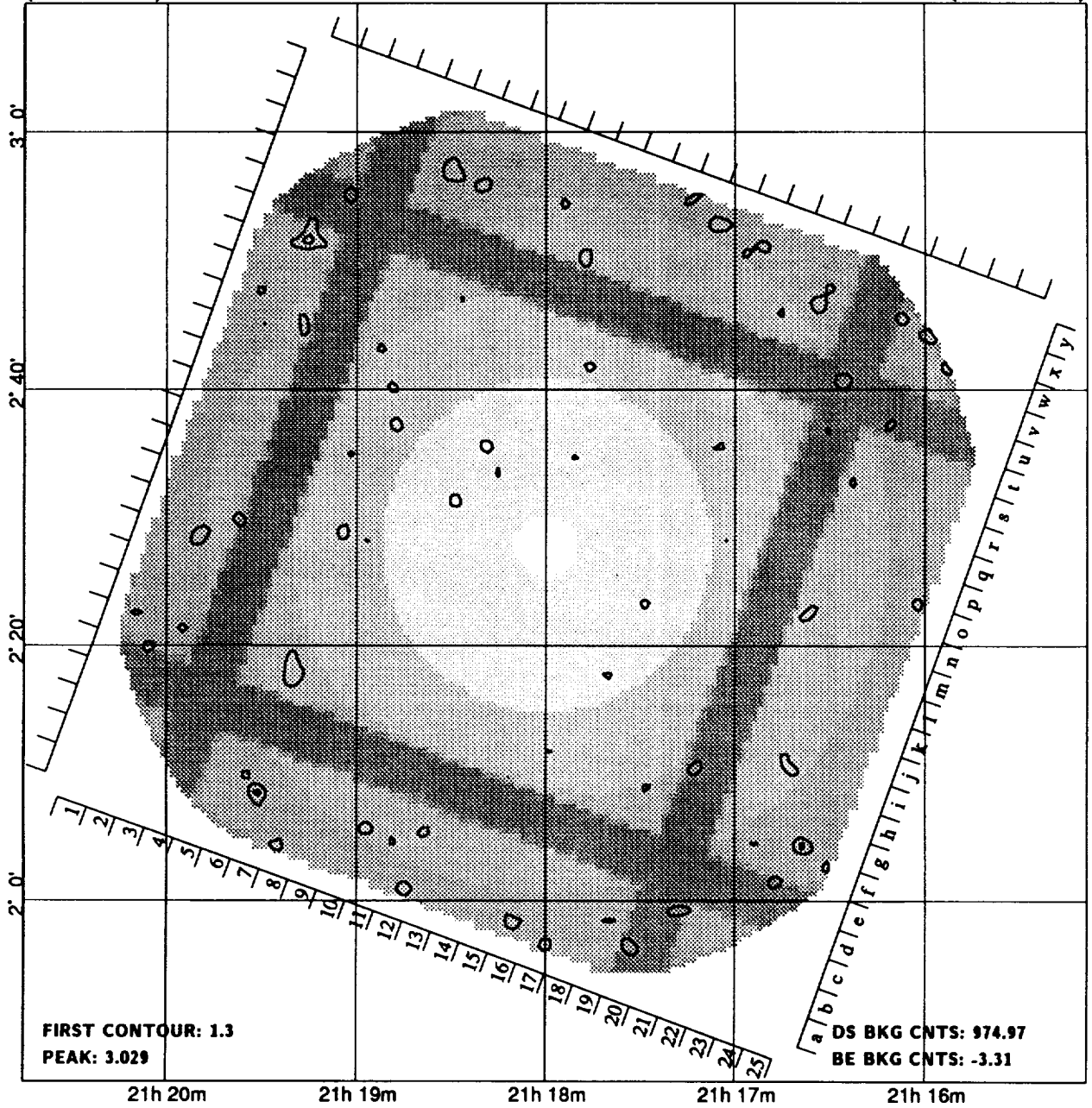
NH: $4.5E+20$
 REF/ID:
 FIELD FLAGS: S

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4464	1	21 16 40.6	-10 42 23	52	*0.0057	0.0014	30.8	24.2	4.1	0.7	601	22.8	H
4465	2	21 17 34.4	-11 00 49	31	0.0136	0.0014	119.1	40.9	9.4	1.0	0	0.6	H S

(21h 17m)

I 552

(21h 17m)

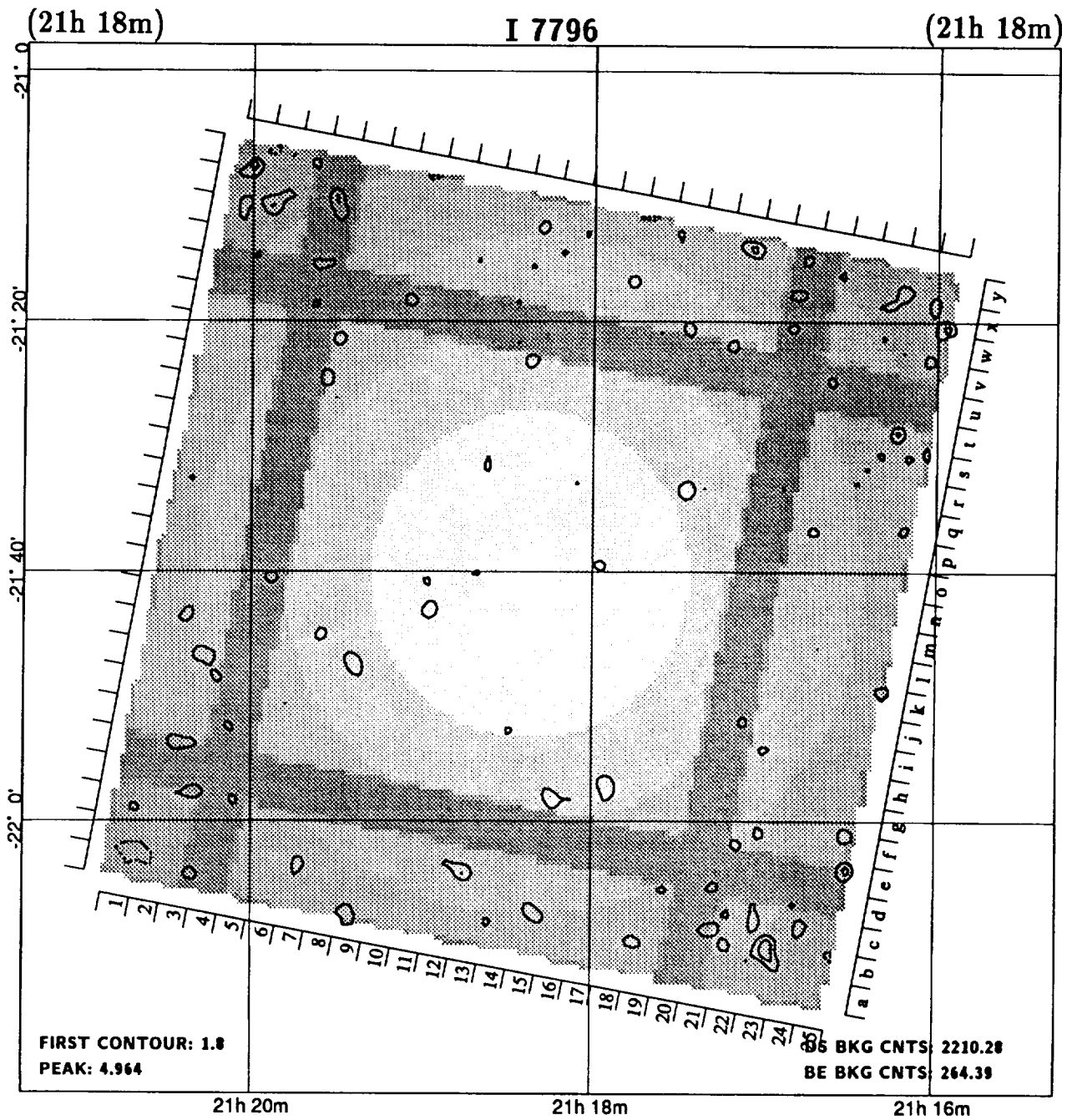


OX 029 QUASAR SURVEY

FIELD CENTER: $21^{\text{h}}17^{\text{m}}56.8^{\text{s}}$ $02^{\circ}27'59''$ (B1950)
 $21^{\text{h}}20^{\text{m}}28.6^{\text{s}}$ $02^{\circ}40'45''$ (J2000)
 $l: 54.69$ $b: -31.13$

DATE: 1979/139 - 1979/139
 LIVETIME: 790.0s
 ROLL ANGLE: -70.2°

NH: $5.7\text{E}+20$
 REF/ID:
 FIELD FLAGS:



A2339, CLUSTERS OF GALAXIES SURVEY

FIELD CENTER: $21^{\text{h}}18^{\text{m}}18.8^{\text{s}}$ $-21^{\circ}39'59''$ (B1950)
 $21^{\text{h}}21^{\text{m}}09.5^{\text{s}}$ $-21^{\circ}27'12''$ (J2000)
 $l: 27.71$ $b: -42.08$

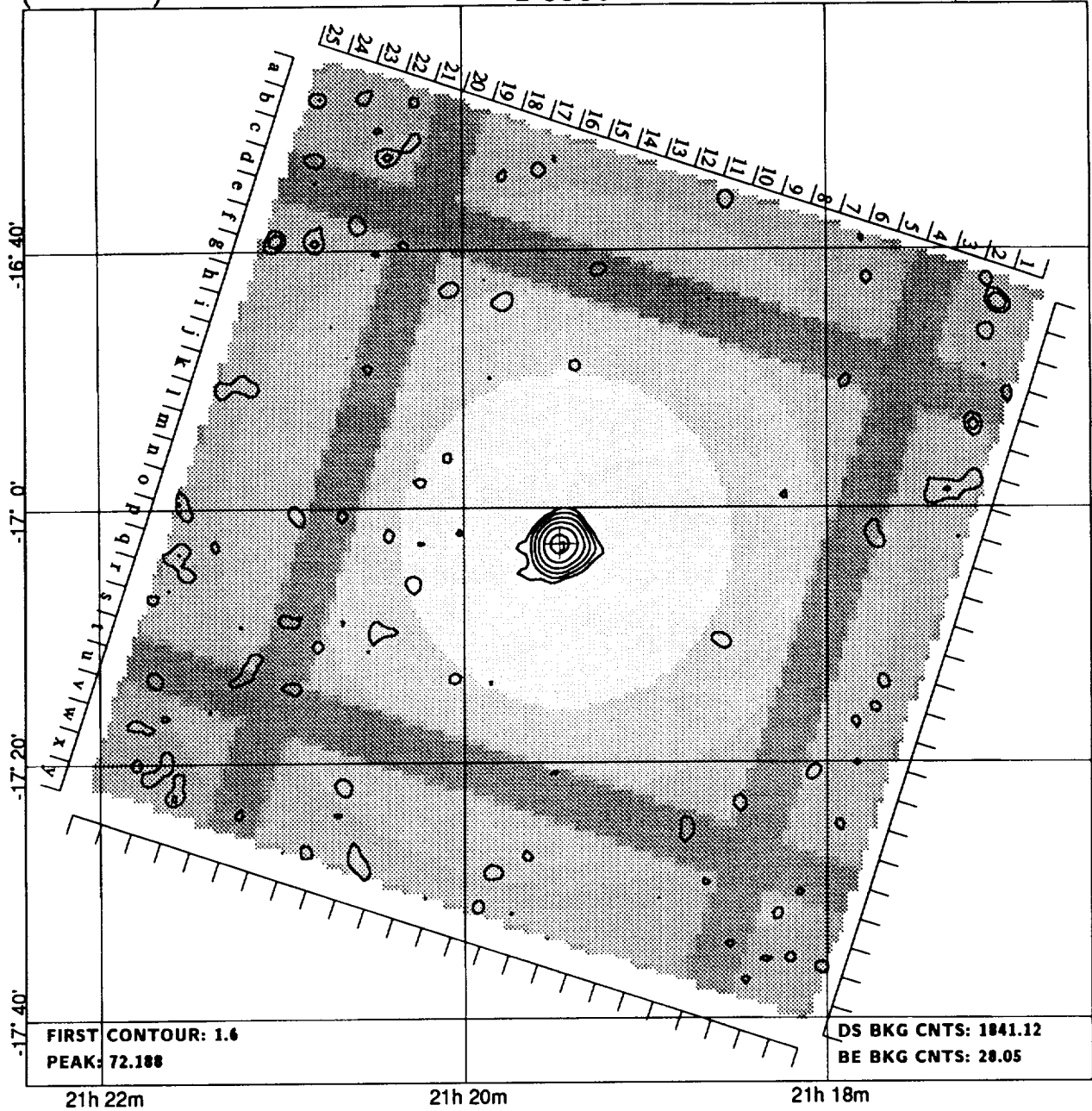
DATE: 1980/132 - 1980/132
 LIVETIME: 1855.4s
 ROLL ANGLE: -79.5°

NH: $3.7\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(21h 19m)

I 3536

(21h 19m)



IOTA KAP, CORONAL ACTIVITY OF F, G, K STARS

FIELD CENTER: 21^h19^m28.6^s -17°02'59" (B1950)
 21^h22^m15.4^s -16°50'09" (J2000)
 $l: 33.62$ $b: -40.77$

DATE: 1979/299 - 1979/299
 LIVETIME: 1491.9s
 ROLL ANGLE: 108.0°

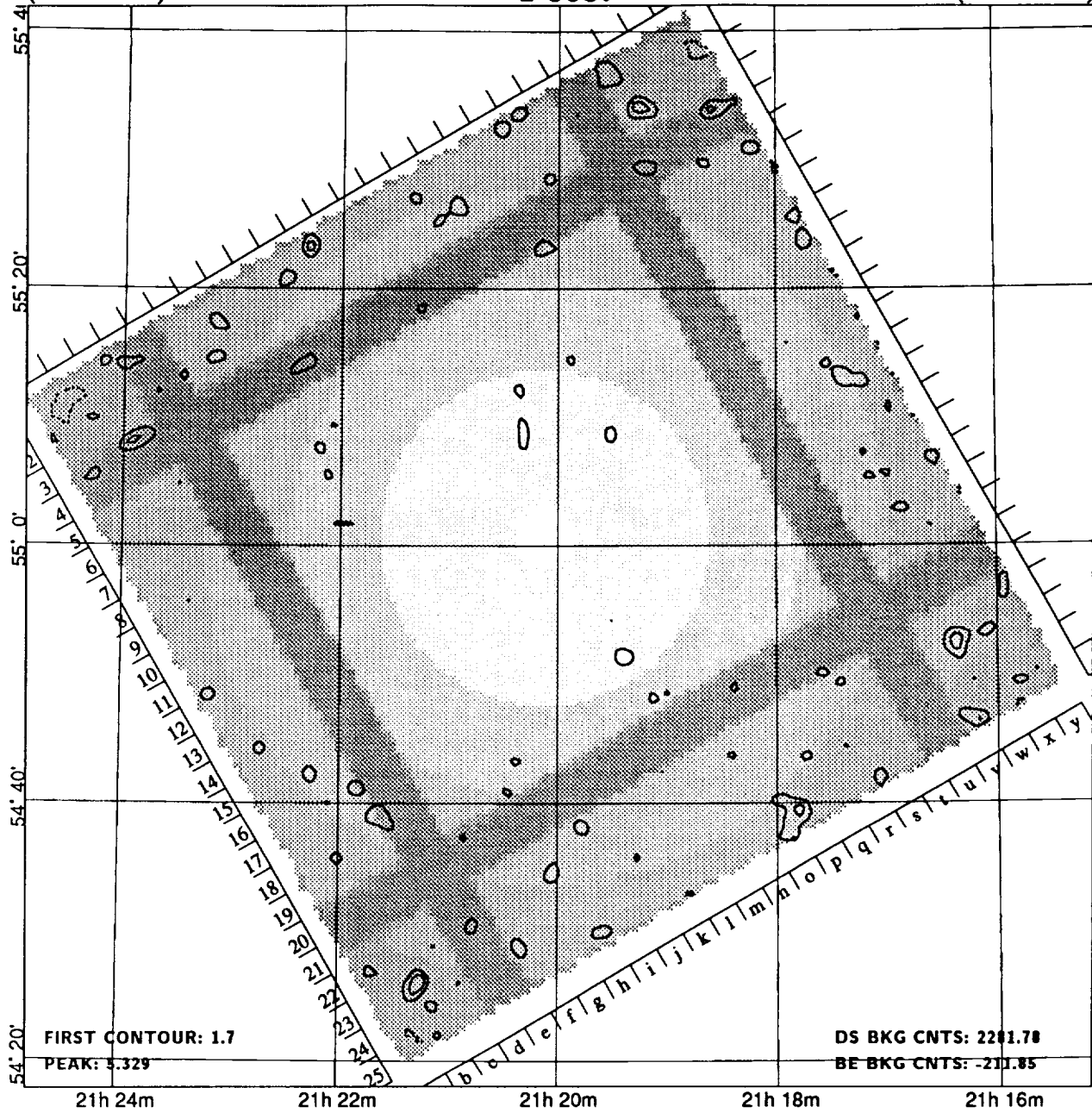
NH: 4.6E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE ±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4466	1	21 19 28.4	-17 02 50	31	0.270 0.016	300.3	4.7	17.2	1.2	0	0.2	H

(21h 19m)

I 8687

(21h 19m)



SOURCE POSITION 4, COS-B GAMMA RAY SOURCES

FIELD CENTER: $21^{\text{h}}19^{\text{m}}59.8^{\text{s}}$ $54^{\circ}59'59''$ (B1950)
 $21^{\text{h}}21^{\text{m}}32.2^{\text{s}}$ $55^{\circ}12'49''$ (J2000)
 $l: 95.97$ $b: 3.74$

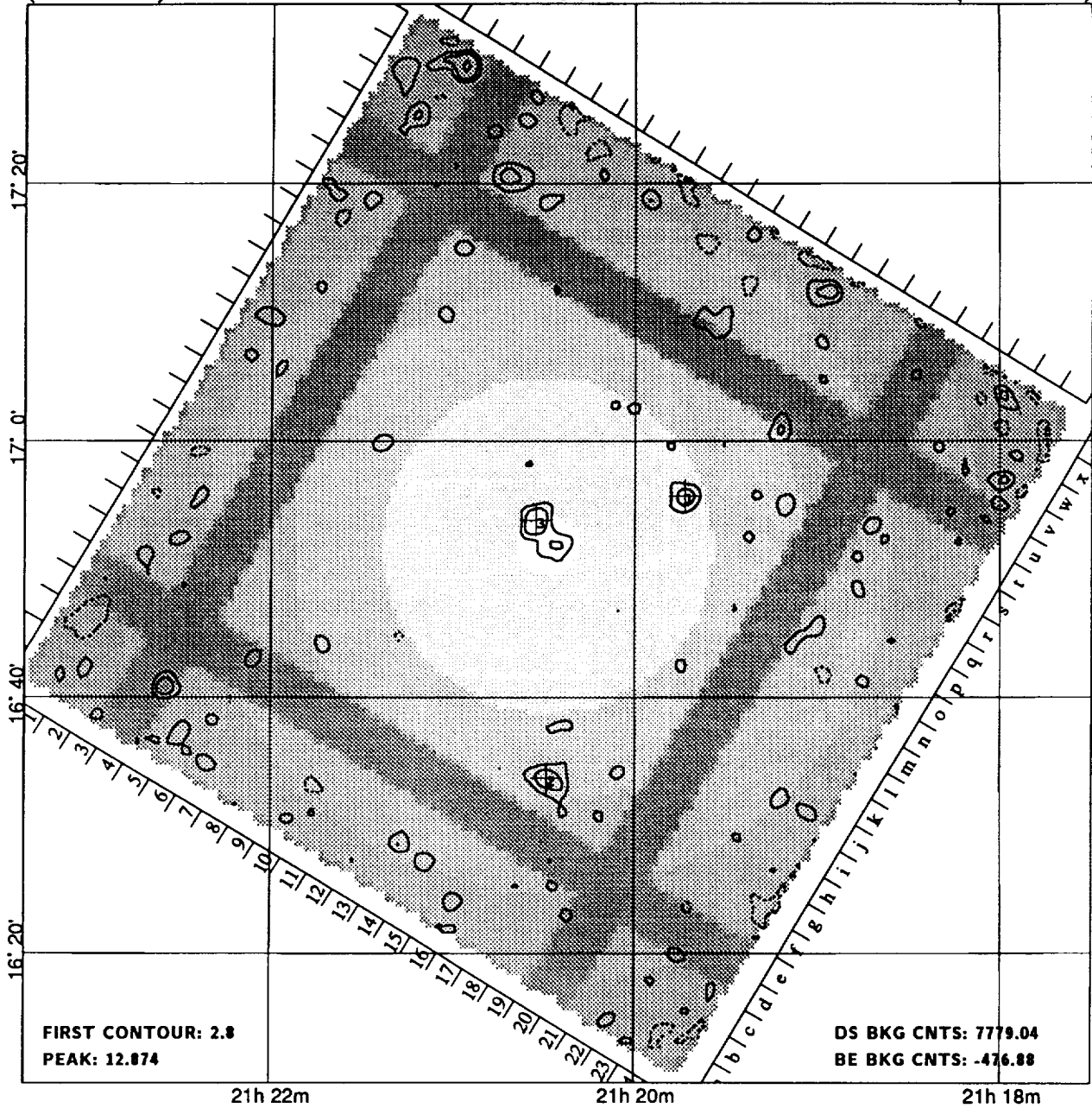
DATE: 1980/194 - 1980/194
 LIVETIME: 1849.0s
 ROLL ANGLE: -30.0°

NH: $9.7\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(21h 20m)

I 504

(21h 20m)



3CR 432 (QSO 2120+168) QUASAR SURVEY

FIELD CENTER: 21^h20^m25.1^s 16°51'57" (B1950)
 21^h22^m45.9^s 17°04'50" (J2000)
 l : 67.94 b : -22.82

DATE: 1980/160 - 1980/161
 LIVETIME: 6303.6s
 ROLL ANGLE: -59.0°

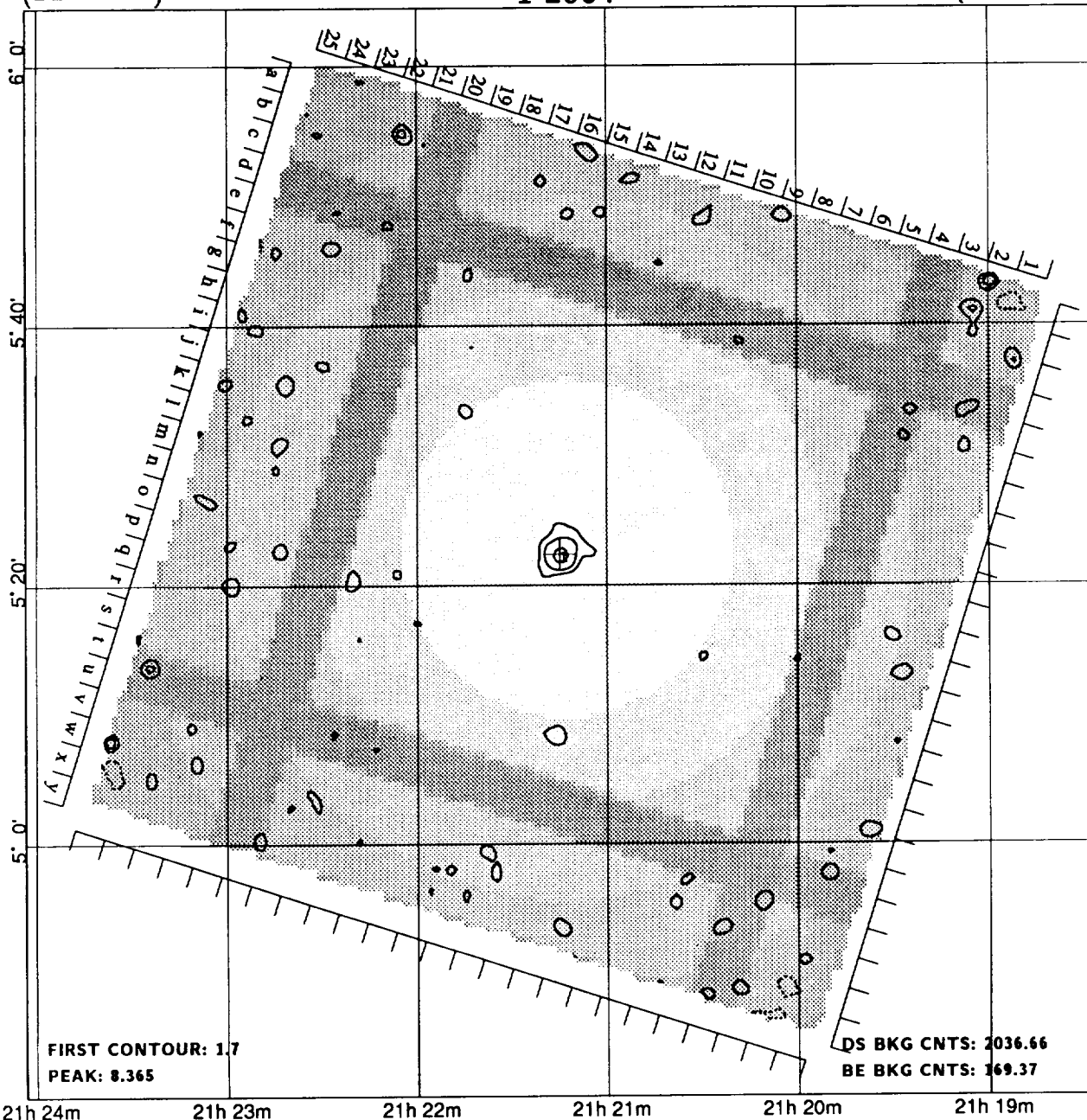
NH: 6.8E+20
 REF/ID: !
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4467	1	21 19 43.5	16 55 46	42	0.0070	0.0016	28.5	15.5	4.3	0.7	0	10.4	
4468	2	21 20 29.0	16 33 42	52	0.0084	0.0019	28.6	14.4	4.4	1.1	0	18.1	H
4469	3	21 20 32.7	16 53 52	35	0.0093	0.0017	43.0	17.0	5.6	1.2	0	2.6	H

(21h 21m)

I 2064

(21h 21m)



FIRST CONTOUR: 1.7
PEAK: 8.365

DS BKG CNTS: 2036.66
BE BKG CNTS: 269.37

21h 24m

21h 23m

21h 22m

21h 21m

21h 20m

21h 19m

X-RAY STUDY OF QUASARS: OX 036

FIELD CENTER: 21^h21^m14.8^s 05°22'26" (B1950)
21^h23^m44.5^s 05°35'21" (J2000)
ℓ: 58.01 b: -30.12

DATE: 1979/317 - 1979/317
LIVETIME: 1650.4s
ROLL ANGLE: 107.5°

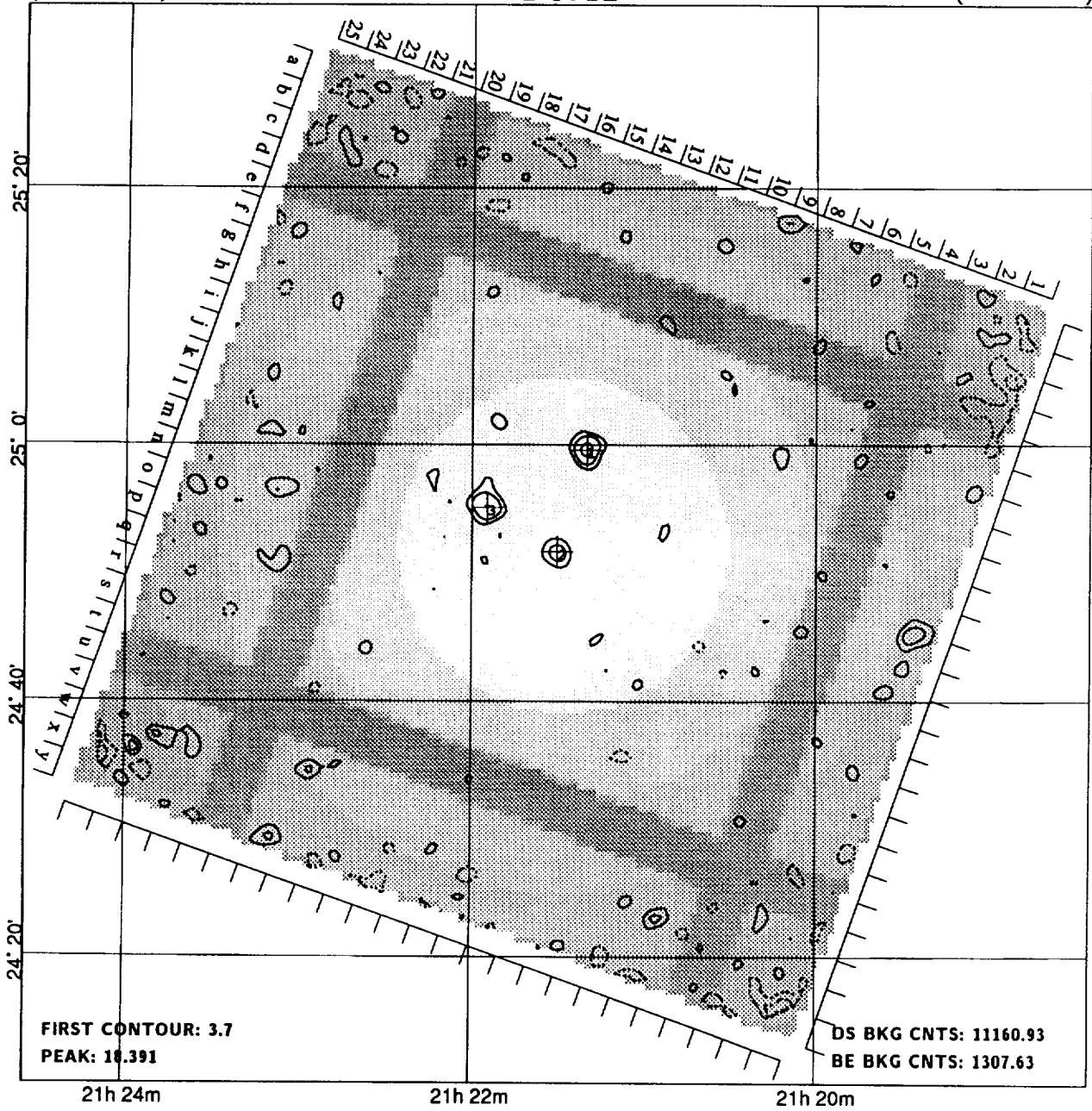
NH: 6.0E+20
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4470	1	21 21 15.0	05 22 23	35	0.0271	0.0051	33.4	5.6	5.3	1.1	0	0.2	H	Q

(21h 21m)

I 5712

(21h 21m)



3C 433: RADIO GALAXY SURVEY

FIELD CENTER: $21^h 21^m 29.8^s$ $24^\circ 52' 15''$ (B1950)
 $21^h 23^m 43.8^s$ $25^\circ 05' 10''$ (J2000)
 $l: 74.49$ $b: -17.68$

DATE: 1979/323 - 1979/324
 LIVETIME: 9044.0s
 ROLL ANGLE: 109.4°

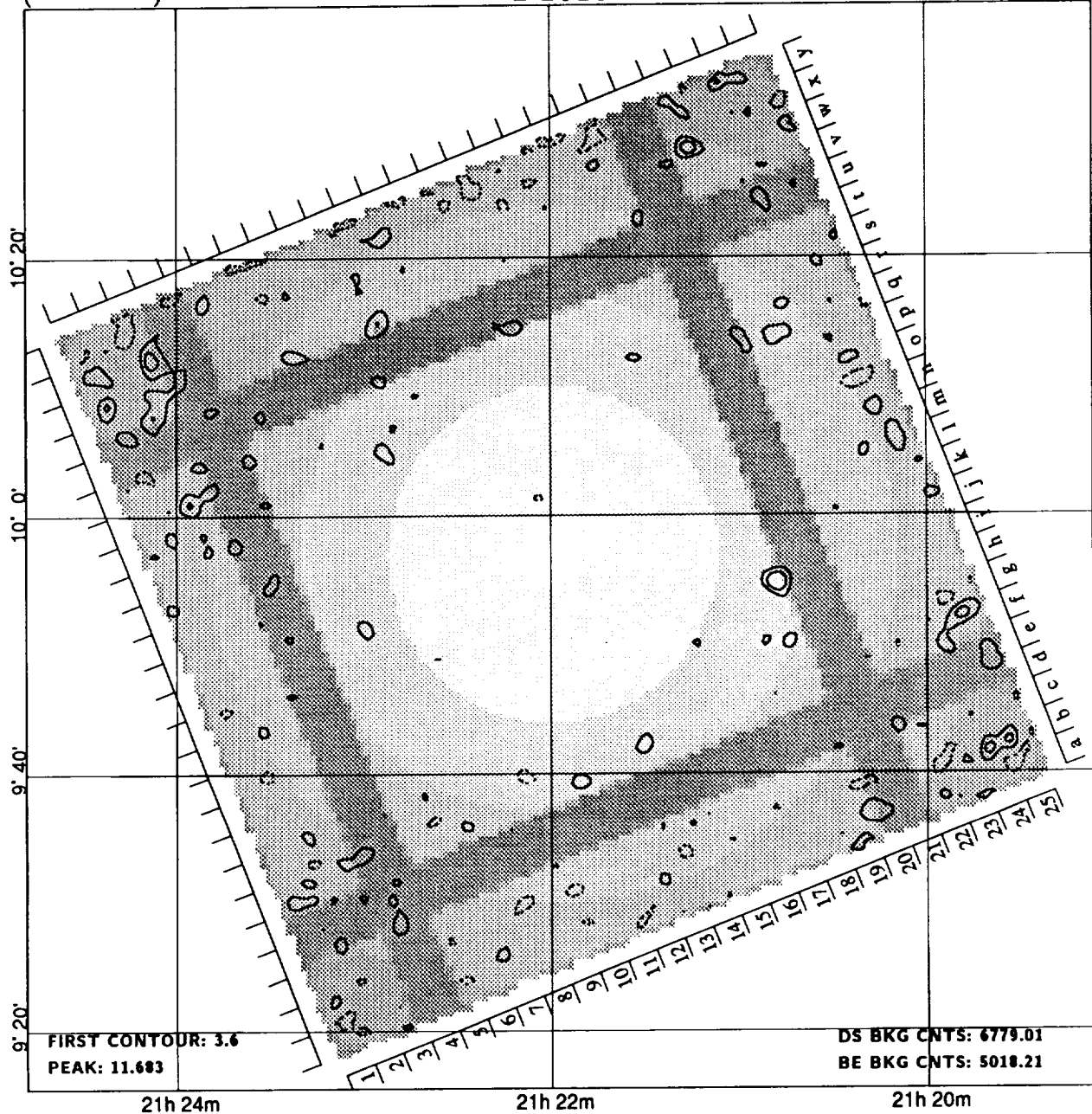
NH: $8.5E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4471	1	21 21 19.8	24 59 36	41	0.0093	0.0016	58.0	37.0	6.0	0.8	0	7.7	
4472	2	21 21 30.2	24 51 44	35	0.0057	0.0012	38.1	31.9	4.6	0.6	0	0.7	G
4473	3	21 21 54.7	24 55 08	41	0.0092	0.0015	58.0	31.0	6.1	0.8	0	6.5	H

(21h 21m)

I 10101

(21h 21m)



HR 8191,HERTZSPRUNG GAP AND RELATED STARS.

FIELD CENTER: $21^{\text{h}}21^{\text{m}}57.7^{\text{s}}$ $09^{\circ}57'28''$ (B1950)
 $21^{\text{h}}24^{\text{m}}23.9^{\text{s}}$ $10^{\circ}10'25''$ (J2000)
 $l: 62.30$ $b: -27.49$

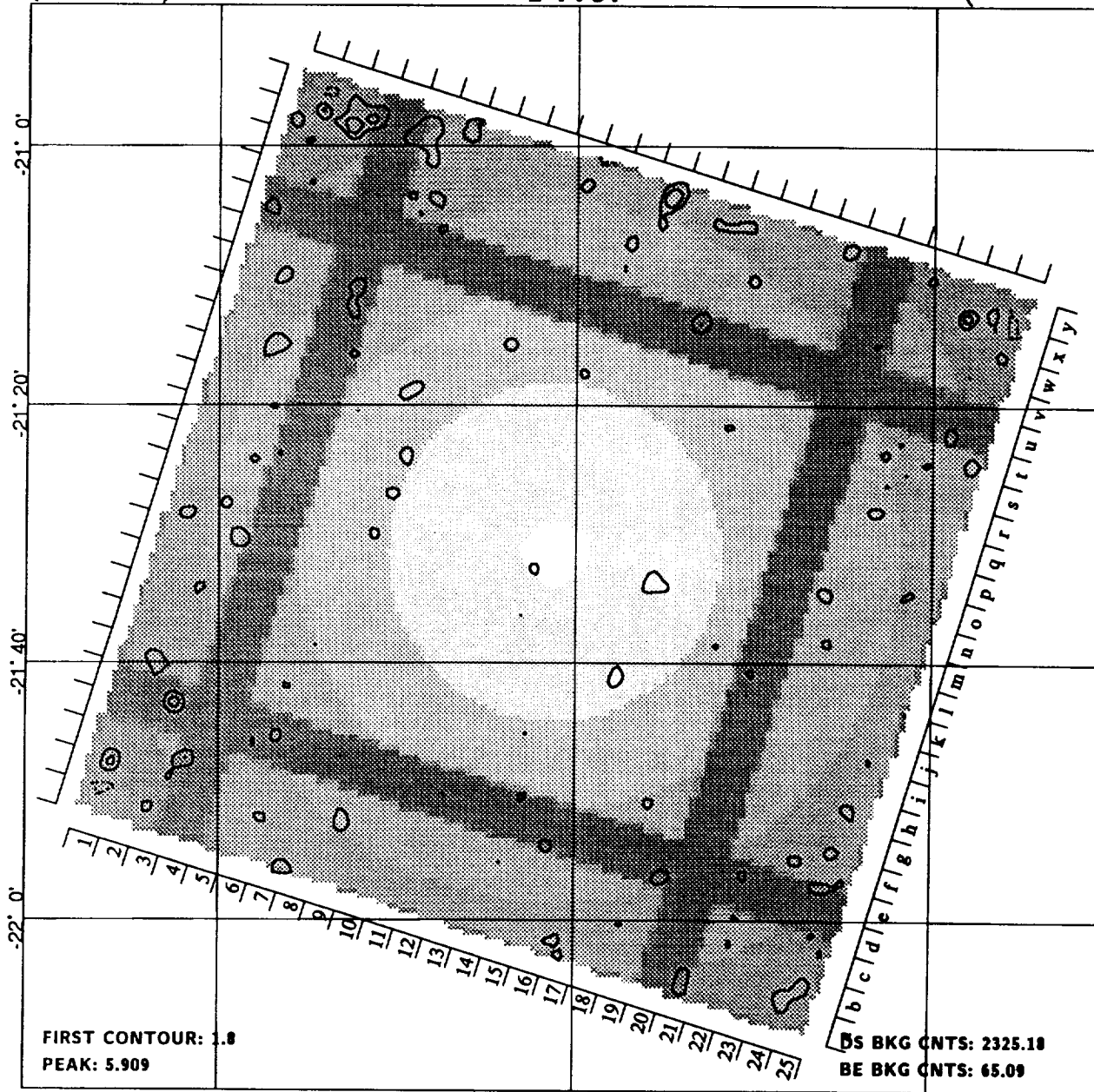
DATE: 1981/110 - 1981/110
 LIVETIME: 5493.3s
 ROLL ANGLE: -111.5°

NH: $4.9\text{E}+20$
 REF/ID:
 FIELD FLAGS: L

(21h 22m)

I 7797

(21h 22m)

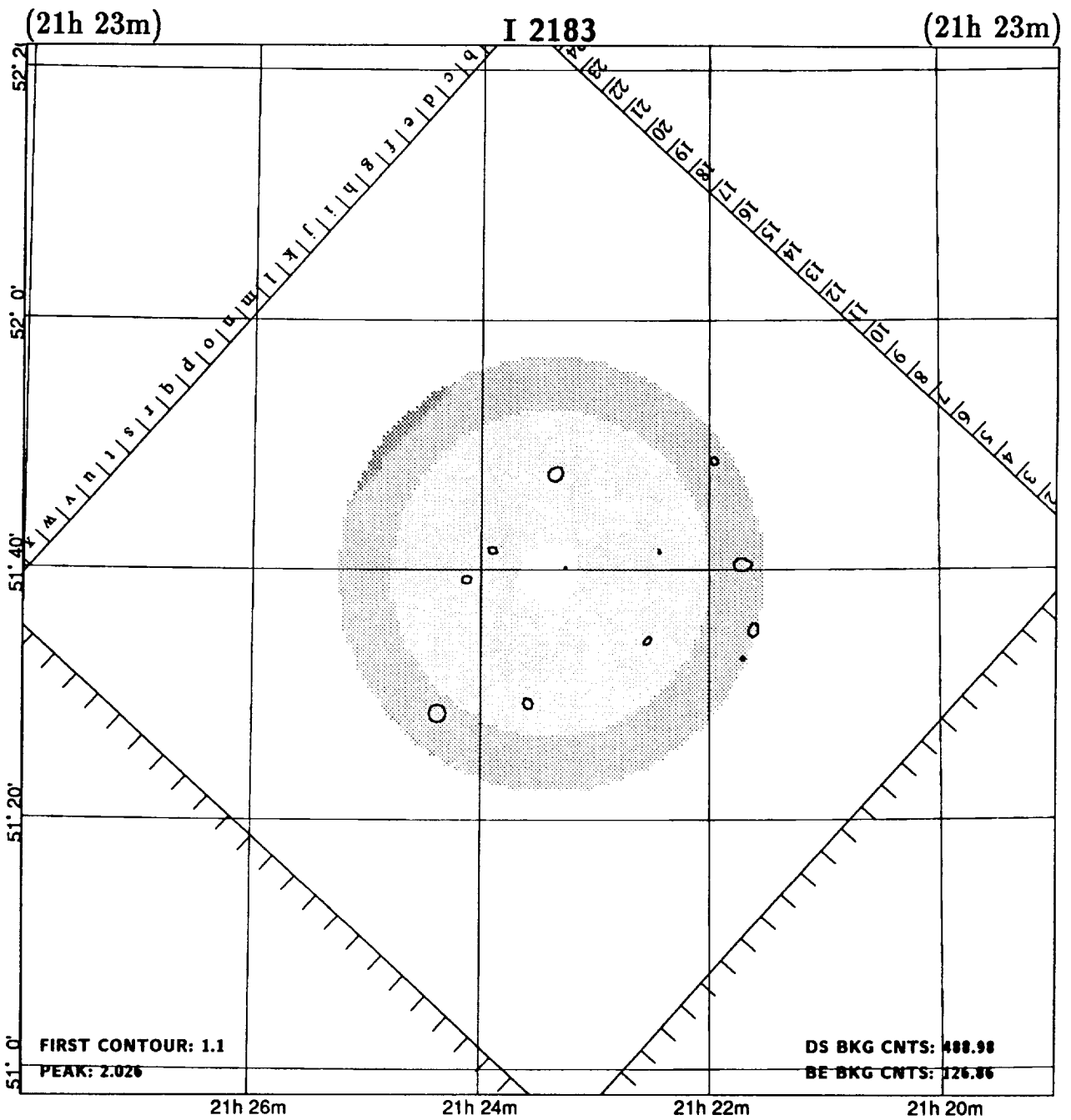


A2399/2344, CLUSTERS OF GALAXIES SURVEY

FIELD CENTER: 21^h22^m03.8^s -21°31'11" (B1950)
 21^h24^m54.1^s -21°18'14" (J2000)
 $l: 28.26$ $b: -42.87$

DATE: 1980/135 - 1980/135
 LIVETIME: 1884.2s
 ROLL ANGLE: -72.9°

NH: 3.6E+20
 REF/ID:
 FIELD FLAGS:



X-RAY STUDY OF SUPERNOVA REMNANTS: G94.0+1.0=3C434.1

FIELD CENTER: 21^h23^m29.8^s 51°39'59" (B1950)
 21^h25^m10.3^s 51°52'59" (J2000)
 l : 94.01 b : 0.99

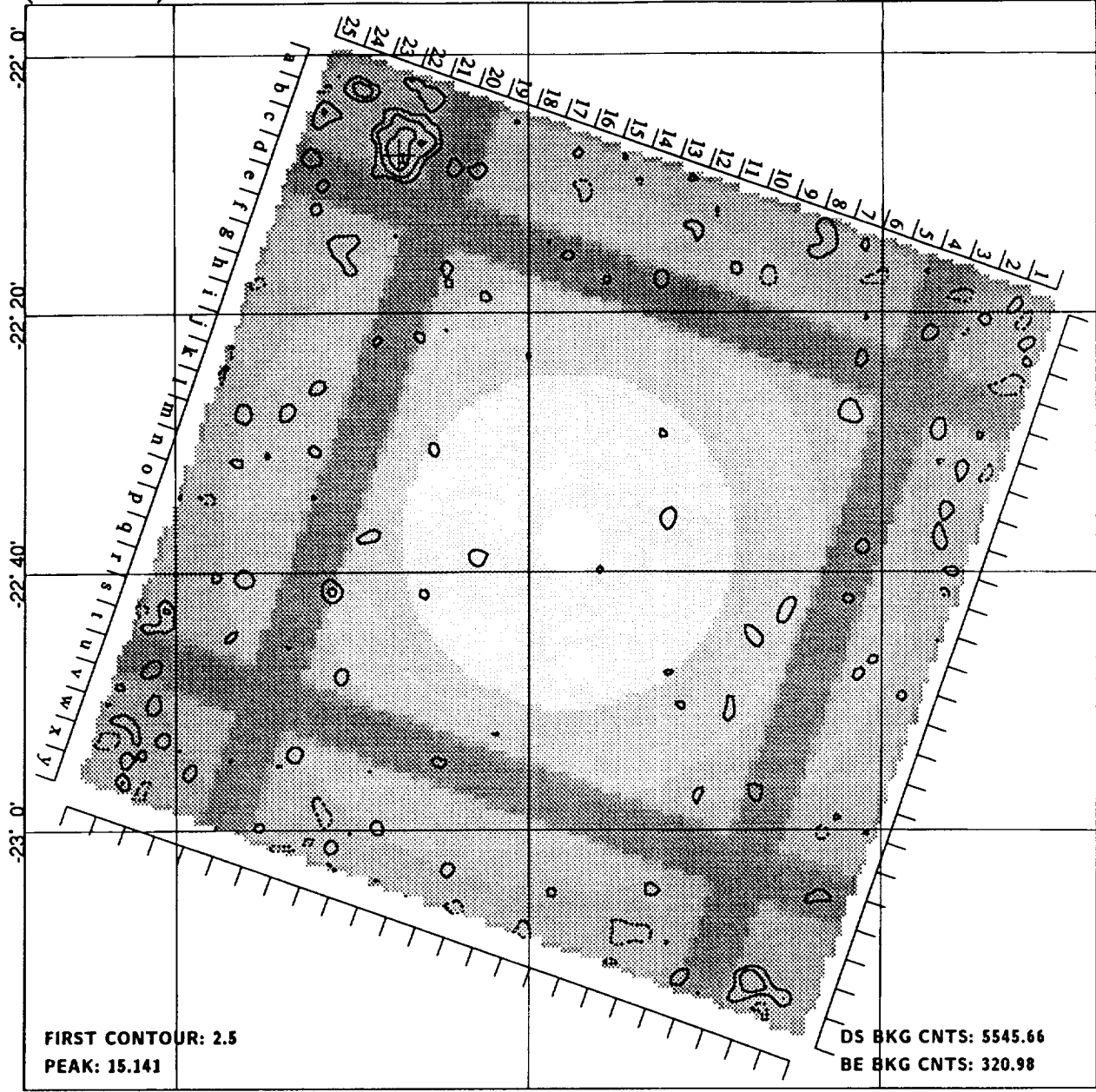
DATE: 1979/353 - 1979/353
 LIVETIME: 396.2s
 ROLL ANGLE: 132.2°

NH: 1.0E+22
 REF/ID:
 FIELD FLAGS:

(21h 23m)

I 5648

(21h 23m)



FIRST CONTOUR: 2.5
PEAK: 15.141

DS BKG CNTS: 5545.66
BE BKG CNTS: 320.98

Zeta CAP

FIELD CENTER: 21^h23^m48.9^s -22°37'59" (B1950)
21^h26^m40.0^s -22°24'57" (J2000)
ℓ: 26.97 b: -43.59

DATE: 1979/303 - 1979/303
LIVETIME: 4493.8s
ROLL ANGLE: 109.3°

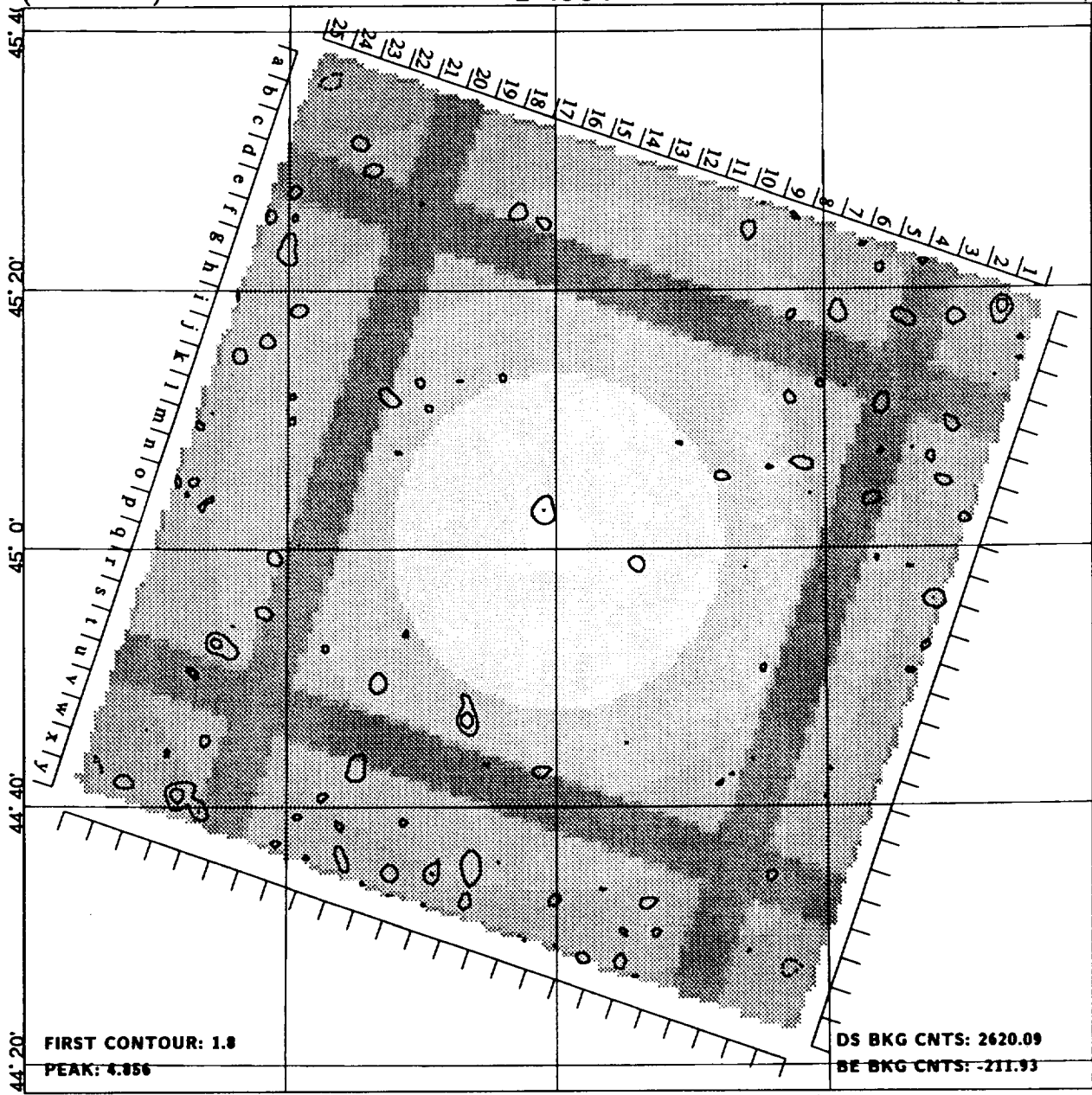
NH: 3.5E+20
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4474	1	21 24 44.2	-22 07 50	53	0.0197	0.0043	27.0	8.0	4.6	1.9	100	33.5	H

(21h 23m)

I 4964

(21h 23m)



21h 26m

21h 24m

21h 22m

CYG X-6 #4

FIELD CENTER: 21^h23^m59.8^s 44°59'59" (B1950)
 21^h25^m51.6^s 45°13'01" (J2000)
 l : 89.45 b : -3.87

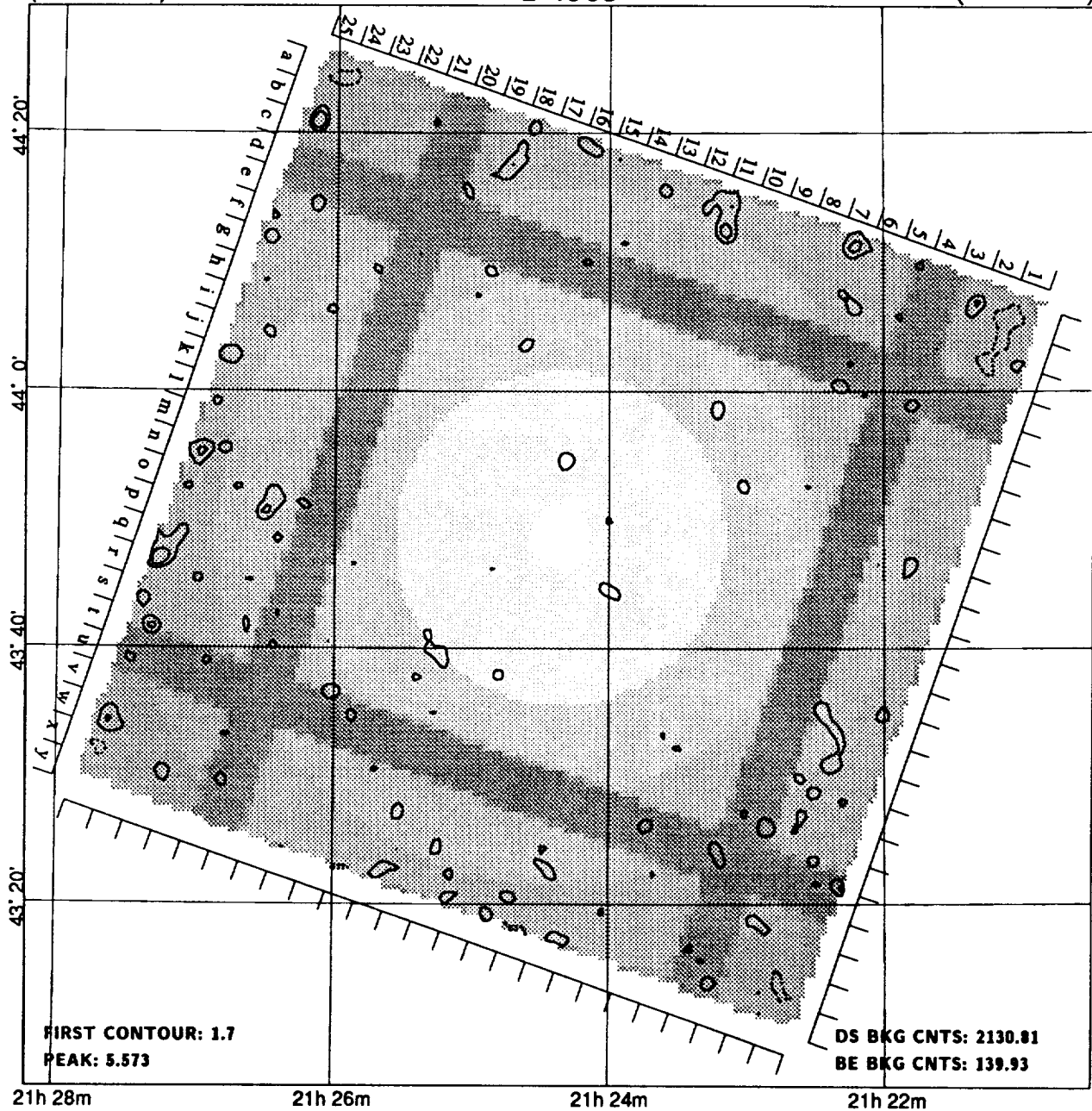
DATE: 1979/326 - 1979/326
 LIVETIME: 2123.1s
 ROLL ANGLE: 108.8°

NH: 3.3E+21
 REF/ID:
 FIELD FLAGS:

(21h 24m)

I 4965

(21h 24m)



CYG X-6 #5

FIELD CENTER: $21^h 24^m 21.5^s$ $43^\circ 47' 59''$ (B1950)
 $21^h 26^m 15.0^s$ $44^\circ 01' 02''$ (J2000)
 $l: 88.66$ $b: -4.78$

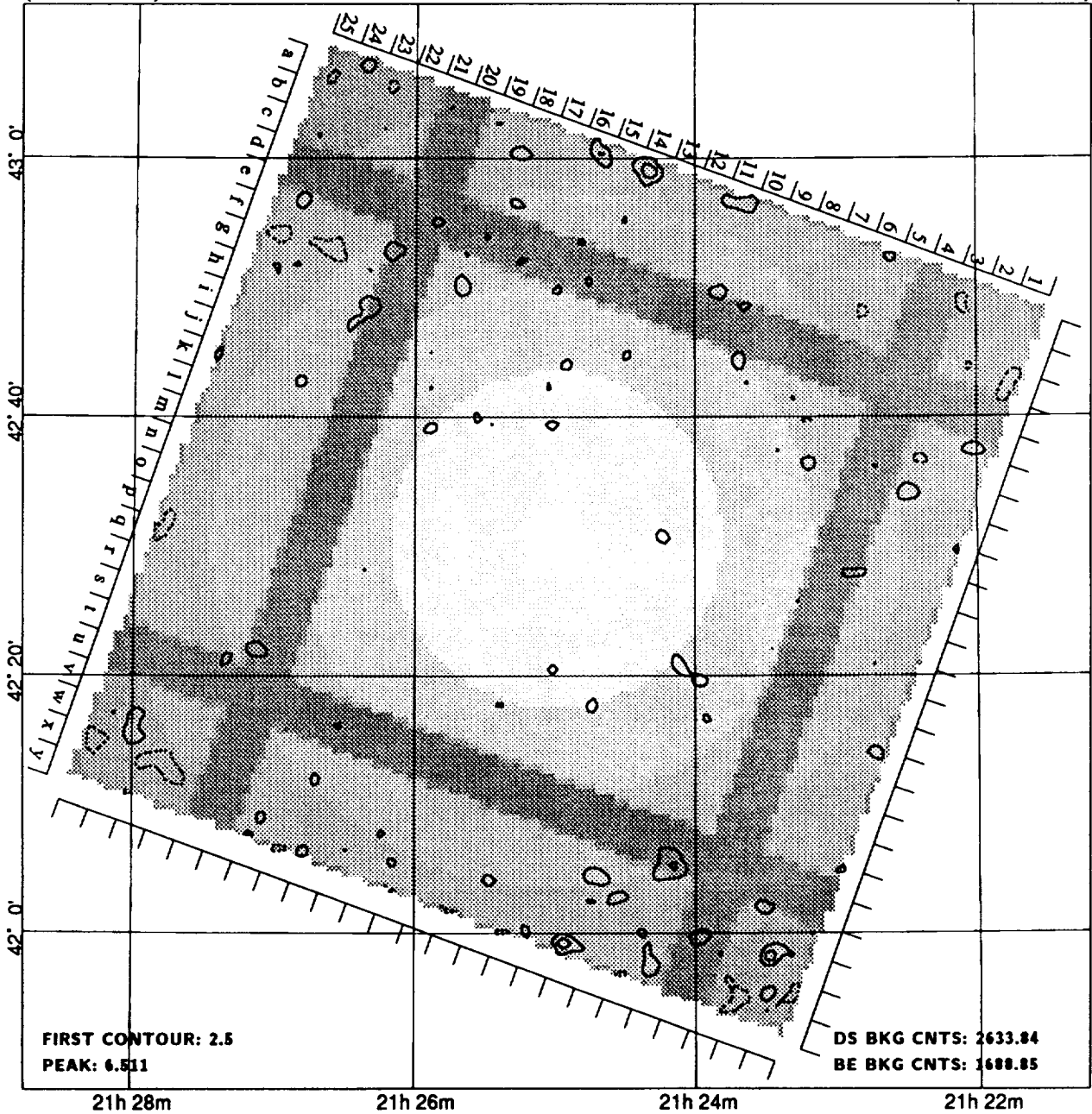
DATE: 1979/326 - 1979/326
 LIVETIME: 1726.7s
 ROLL ANGLE: 109.1°

NH: $3.1E+21$
 REF/ID:
 FIELD FLAGS:

(21h 24m)

I 4966

(21h 24m)



CYG X-6 #6

FIELD CENTER: 21^h24^m59.8^s 42°29'59" (B1950)
 21^h26^m55.3^s 42°43'04" (J2000)
 l : 97.84 b : -5.80

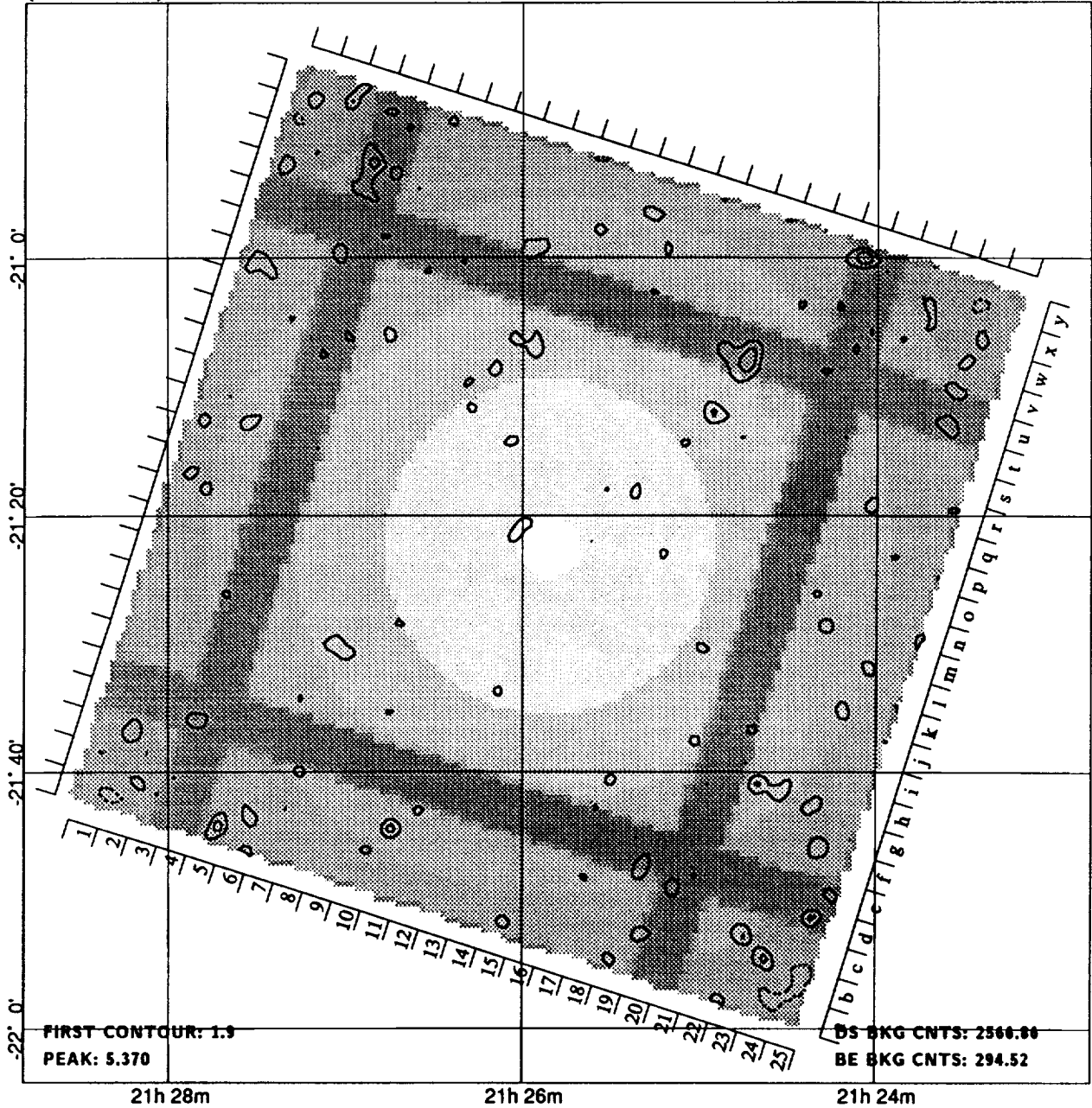
DATE: 1979/327 - 1979/327
 LIVETIME: 2134.3s
 ROLL ANGLE: 109.9°

NH: 2.9E+21
 REF/ID:
 FIELD FLAGS: L

(21h 25m)

I 7798

(21h 25m)



A2344, CLUSTERS OF GALAXIES SURVEY

FIELD CENTER: $21^{\text{h}}25^{\text{m}}47.8^{\text{s}}$ $-21^{\circ}22'11''$ (B1950)
 $21^{\text{h}}28^{\text{m}}37.7^{\text{s}}$ $-21^{\circ}09'03''$ (J2000)
 $l: 28.83$ $b: -43.65$

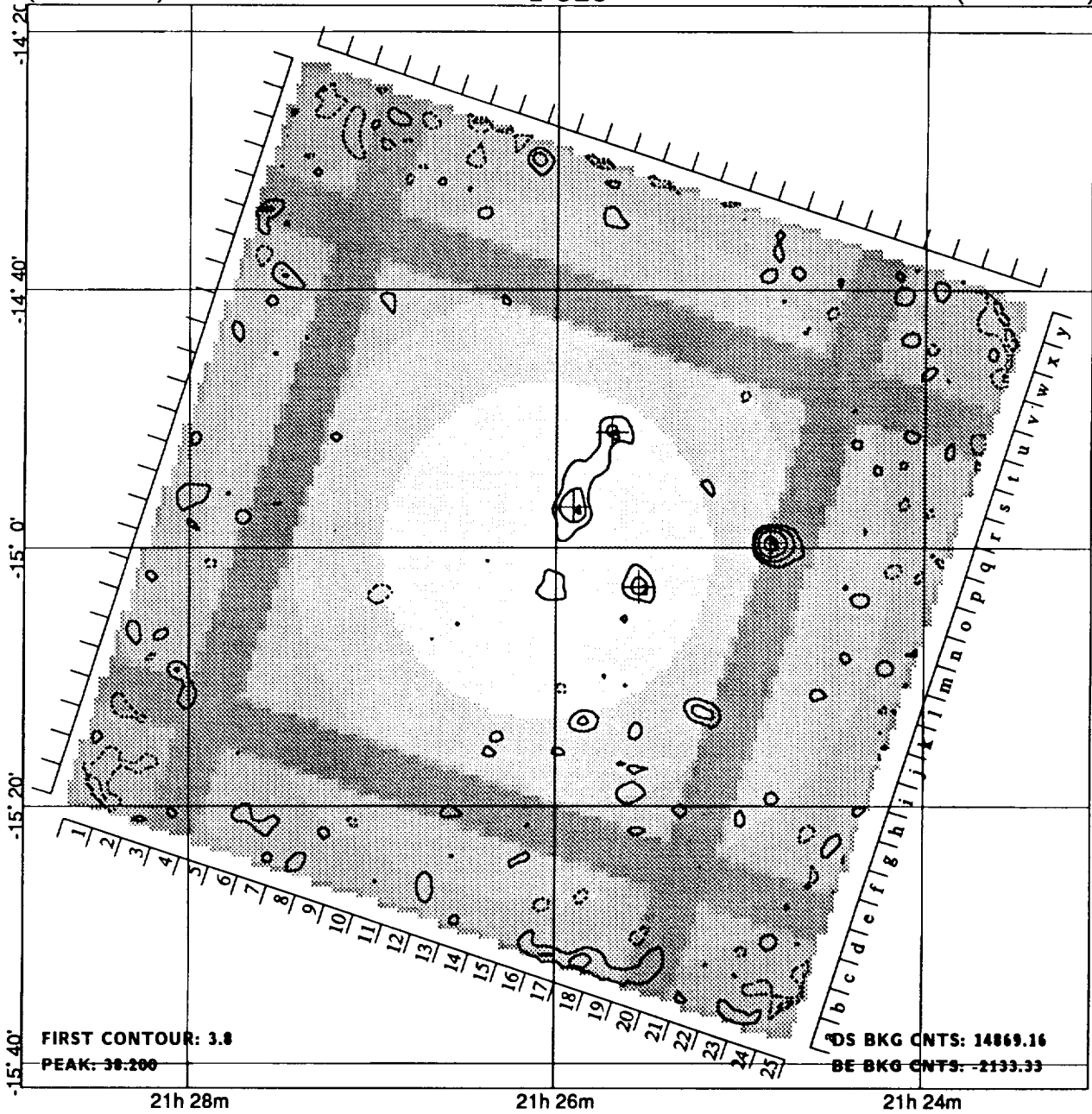
DATE: 1980/134 - 1980/135
 LIVETIME: 2080.0s
 ROLL ANGLE: -72.6°

NH: $3.5E+20$
 REF/ID:
 FIELD FLAGS:

(21h 25m)

I 528

(21h 25m)



2126-150 QUASAR SURVEY

FIELD CENTER: $21^{\text{h}}25^{\text{m}}59.8^{\text{s}}$ $-14^{\circ}59'59''$ (B1950)
 $21^{\text{h}}28^{\text{m}}44.5^{\text{s}}$ $-14^{\circ}46'51''$ (J2000)
 $l: 36.94$ $b: -41.43$

DATE: 1979/139 - 1979/140
 LIVETIME: 12048.9s
 ROLL ANGLE: -71.9°

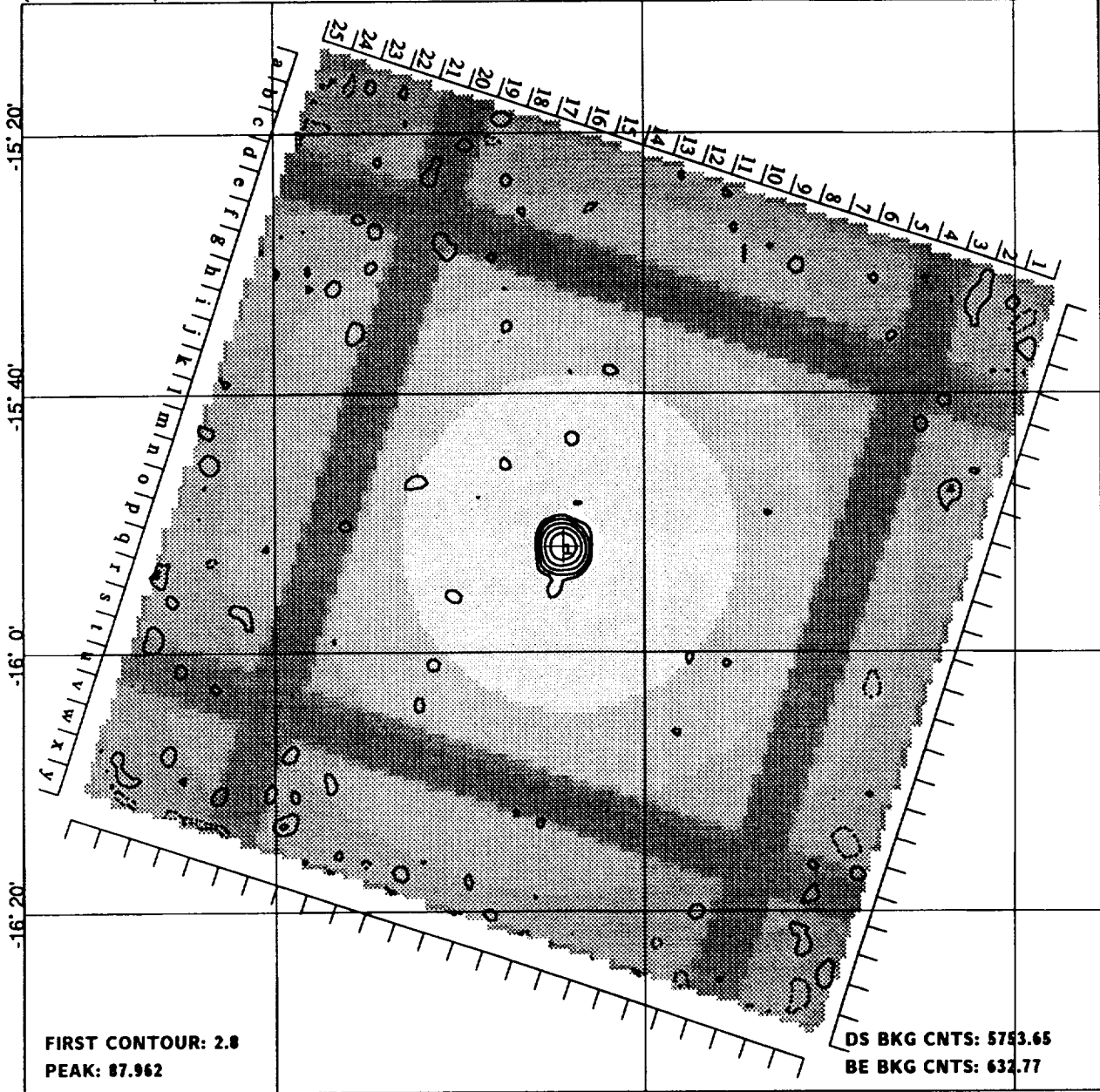
NH: $5.1\text{E}+20$
 REF/ID:
 FIELD FLAGS: D

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4475	1	21 24 50.0	-14 59 36	48	*0.0147	0.0016	97.2	19.8	9.0	0.9	1006	16.9	H	AGN
4476	2	21 25 32.8	-15 03 00	42	0.00427	0.00096	35.4	27.6	4.5	0.8	0	7.5	H	
4477	3	21 25 41.9	-14 50 59	43	0.00345	0.00097	27.4	31.6	3.6	3.8	0	10.1		
4478	4	21 25 54.4	-14 56 48	35	0.0068	0.0011	59.4	32.6	6.2	2.0	0	3.5		AGN

(21h 26m)

I 5280

(21h 26m)



2126-150 QUASAR SURVEY

FIELD CENTER: $21^h 26^m 26.4^s$ $-15^\circ 51' 50''$ (B1950)
 $21^h 29^m 11.8^s$ $-15^\circ 38' 41''$ (J2000)
 $l: 35.93$ $b: -41.87$

DATE: 1979/312 - 1979/312
 LIVETIME: 4662.3s
 ROLL ANGLE: 108.2°

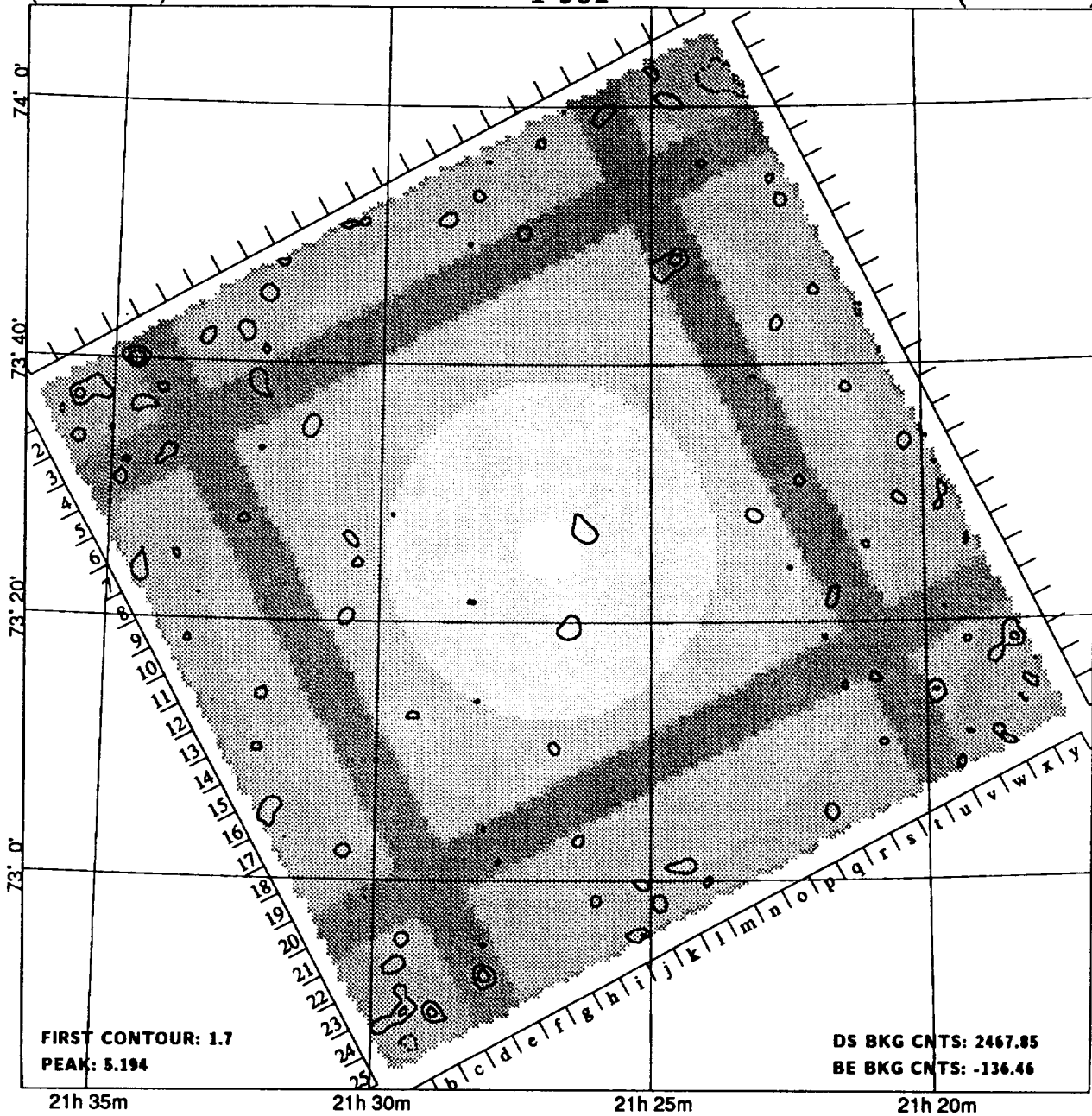
NH: $4.9E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4479	1	21 26 26.4	-15 51 46	31	0.1022	0.0055	355.2	16.8	18.4	1.1	0	0.2	H	Q

(21h 26m)

I 901

(21h 26m)



EG 144 (BD+78-8031) STELLAR OBSERVATIONS, WHITE DWARFS

FIELD CENTER: $21^{\text{h}}26^{\text{m}}42.8^{\text{s}}$ $73^{\circ}25'47''$ (B1950)
 $21^{\text{h}}26^{\text{m}}56.5^{\text{s}}$ $73^{\circ}38'54''$ (J2000)
 $l: 109.73$ $b: 16.28$

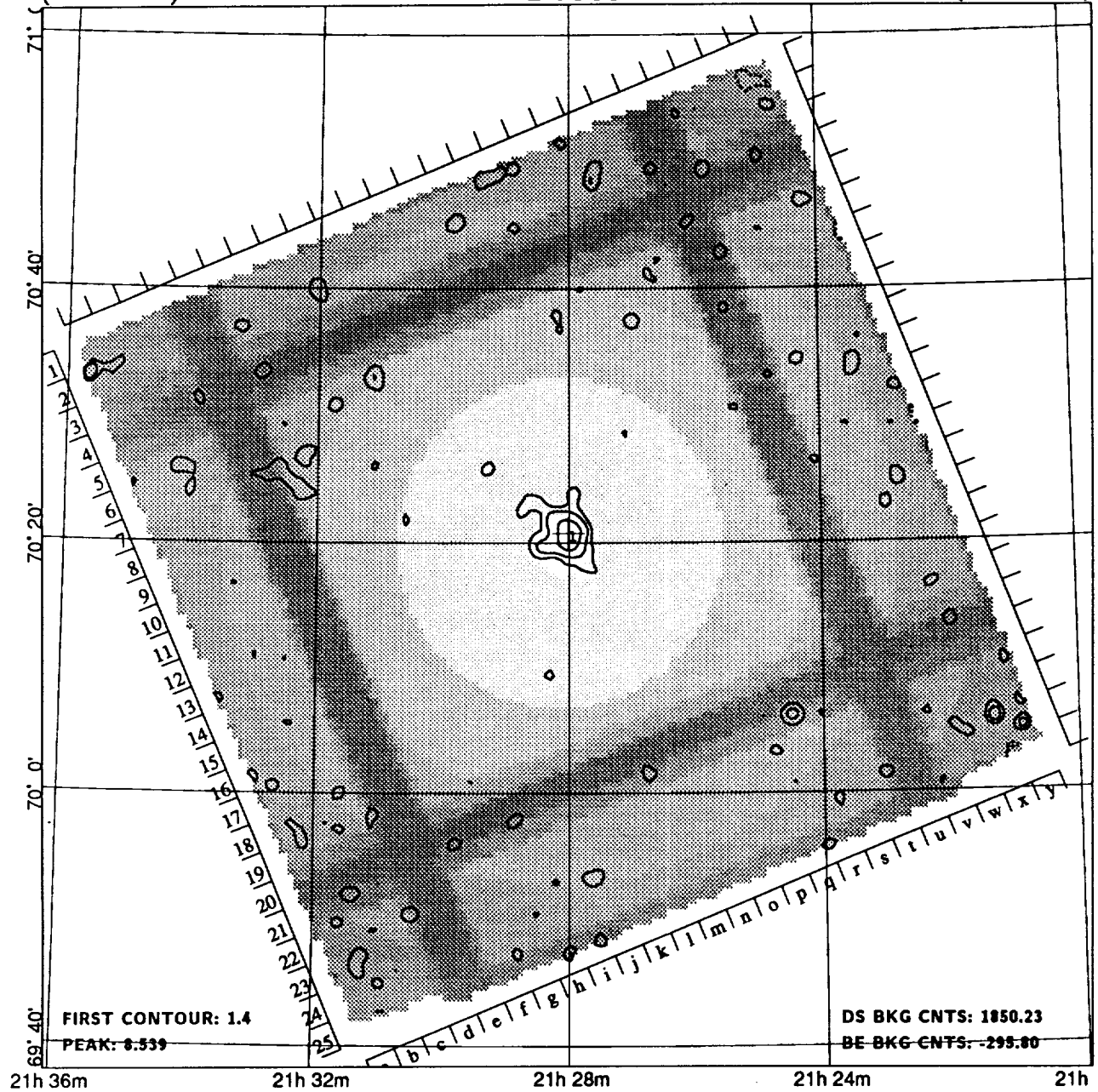
DATE: 1979/193 - 1979/193
LIVETIME: 1999.8s
ROLL ANGLE: -28.1°

NH: $1.9\text{E}+21$
REF/ID:
FIELD FLAGS:

(21h 28m)

I 7903

(21h 28m)



BETA CEP, BETA CEPHEI STARS

FIELD CENTER: $21^h 28^m 01.1^s$ $70^\circ 20' 27''$ (B1950)
 $21^h 28^m 39.3^s$ $70^\circ 33' 38''$ (J2000)
 $l: 107.54$ $b: 14.03$

DATE: 1980/193 - 1980/193
 LIVETIME: 1499.3s
 ROLL ANGLE: -22.3°

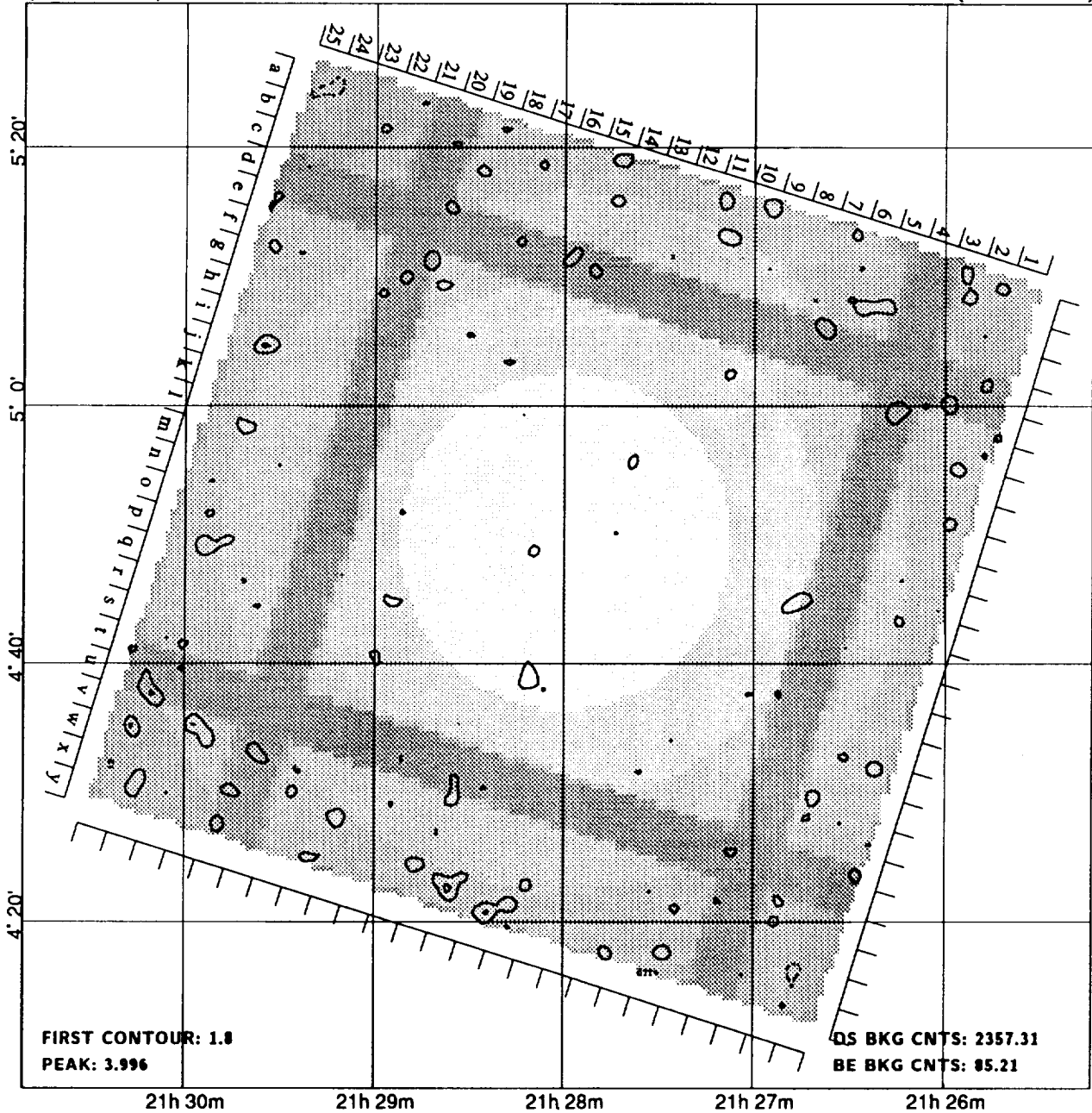
NH: $2.6E+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4480	1	21 28 00.7	70 20 43	35	0.0356	0.0059	39.8	3.2	6.1	1.8	0	0.7	AH S

(21h 28m)

I 3984

(21h 28m)



2128+048, OPTICALLY-QUIET COMPACT RADIO SOURCE

FIELD CENTER: 21^h28^m02.4^s 04°04'49".03" (B1950)
 21^h30^m32.6^s 05°02'17" (J2000)
 l : 58.65 b : -31.81

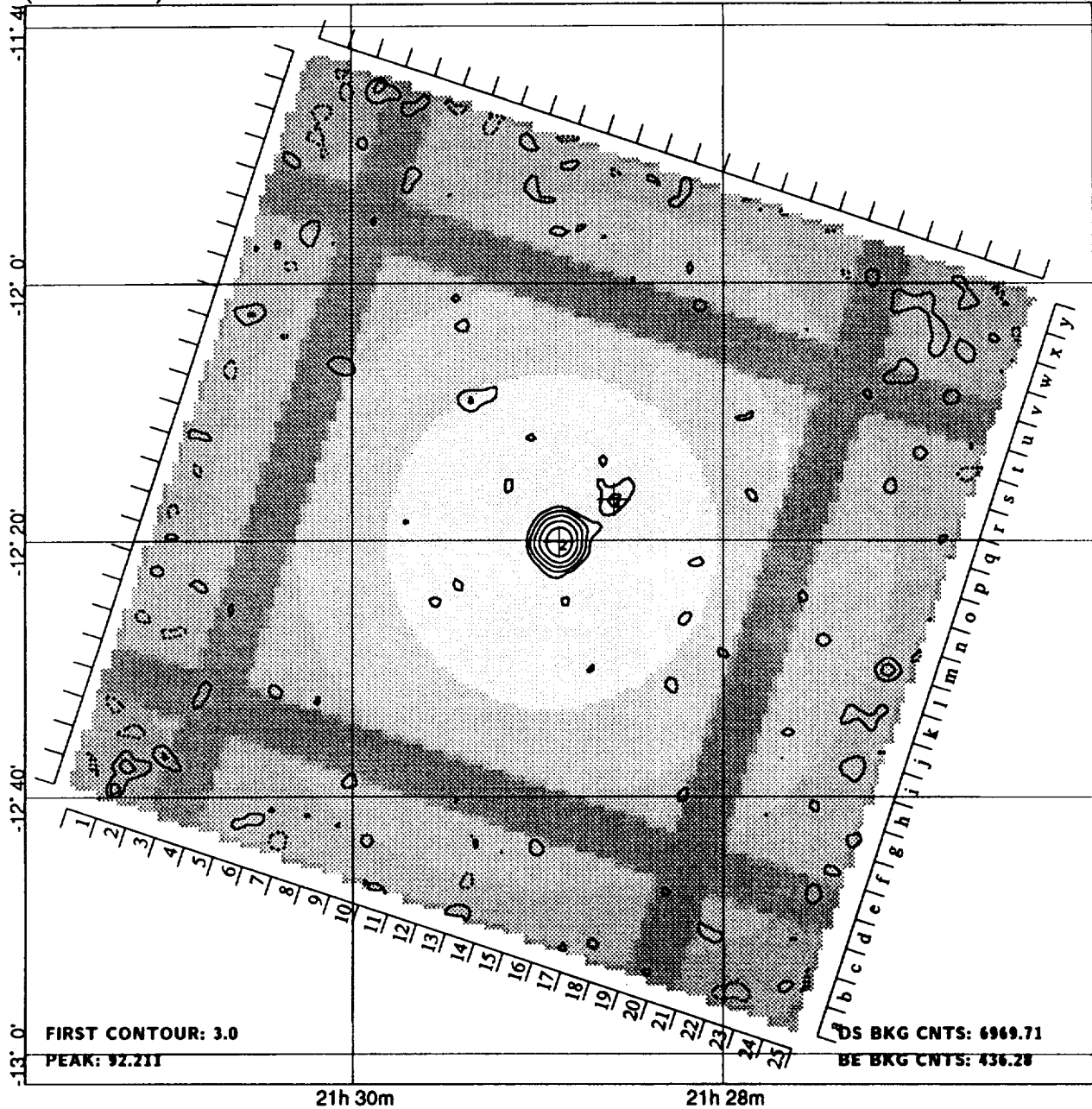
DATE: 1979/316 - 1979/316
 LIVETIME: 1910.2s
 ROLL ANGLE: 107.2°

NH: 4.9E+20
 REF/ID:
 FIELD FLAGS:

(21h 28m)

I 8413

(21h 28m)



PKS 2128-123, OPTICALLY SELECTED QUASARS

FIELD CENTER: $21^h 28^m 52.8^s -12^\circ 20' 19''$ (B1950)
 $21^h 31^m 35.4^s -12^\circ 07' 04''$ (J2000)
 $l: 40.54 \quad b: -40.96$

DATE: 1980/131 - 1980/131
 LIVETIME: 5850.6s
 ROLL ANGLE: -71.8°

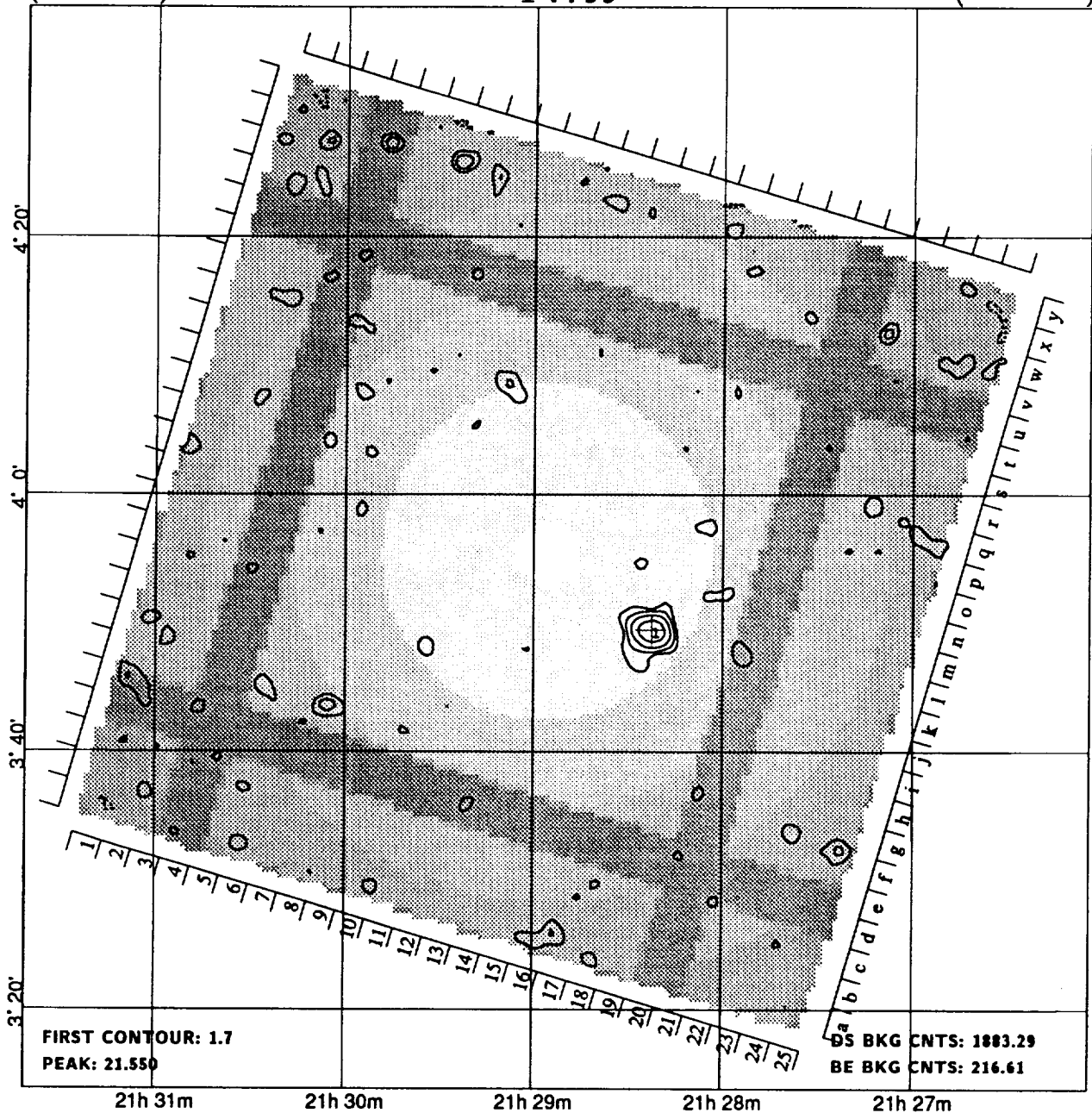
NH: $4.7E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4483	1	21 28 35.4	-12 16 49	45	0.0059	0.0015	24.2	15.8	3.8	0.7	0	6.1	H
4484	2	21 28 53.2	-12 20 08	31	0.0868	0.0046	378.3	18.7	19.0	1.2	0	0.2	H Q

(21h 28m)

I 7799

(21h 28m)



A2349, CLUSTERS OF GALAXIES SURVEY

FIELD CENTER: $21^{\text{h}}28^{\text{m}}52.8^{\text{s}}$ $03^{\circ}55'47''$ (B1950)
 $21^{\text{h}}31^{\text{m}}23.7^{\text{s}}$ $04^{\circ}09'03''$ (J2000)
 $l: 57.95$ $b: -32.51$

DATE: 1980/128 - 1980/128
 LIVETIME: 1580.9s
 ROLL ANGLE: -73.6°

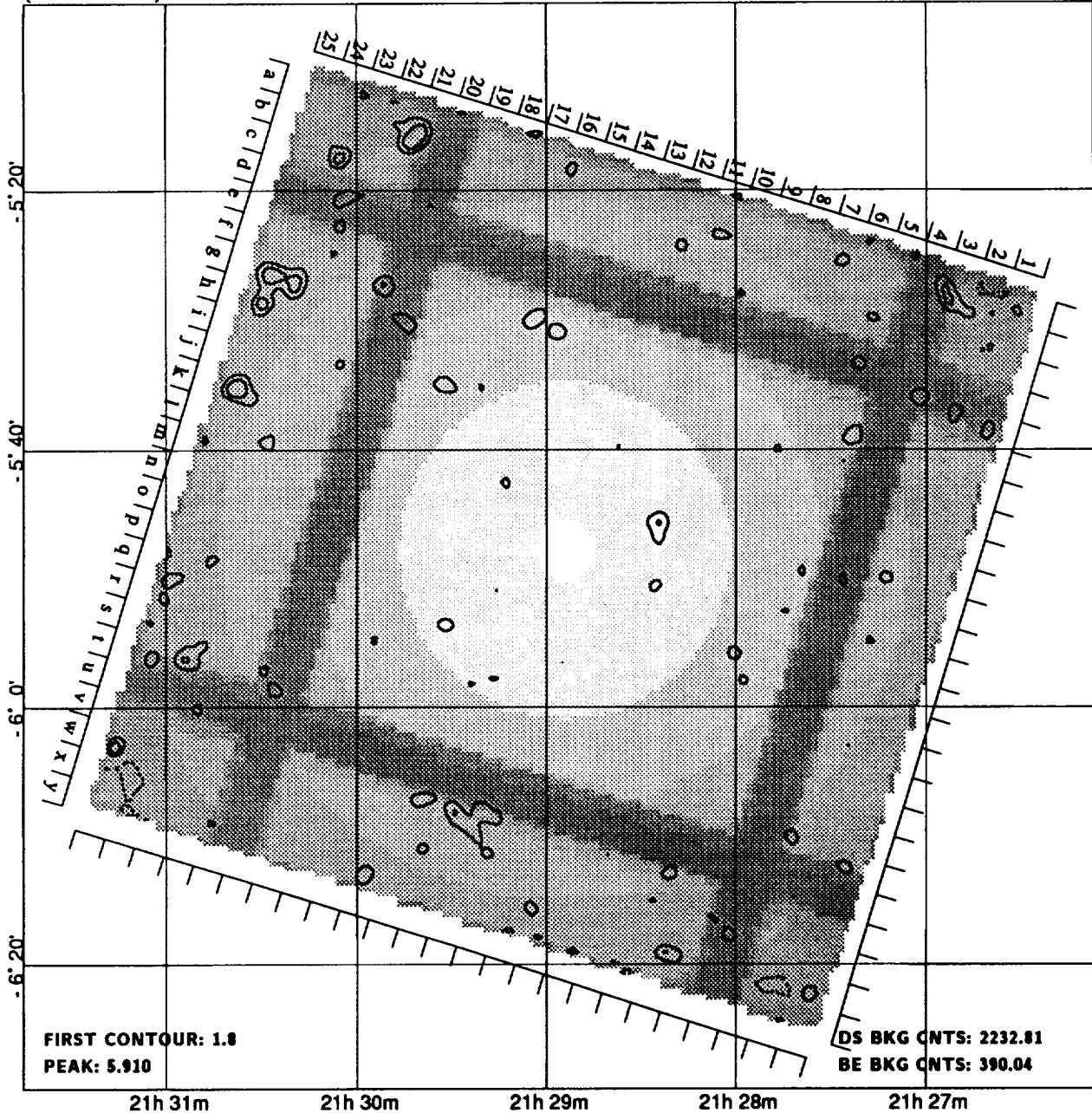
NH: $5.2\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID CLG
4481	1	21 28 22.4	03 49 28	38	0.0798	0.0090	83.5	4.5	8.9	1.2	0	9.9	H	CLG

(21h 28m)

I 4441

(21h 28m)



BETA AQR, CORRELLATION OF X RAYS WITH STELLAR WIND AND ROTATION

FIELD CENTER: 21^h28^m55.8^s -05°47'31" (B1950)
21^h31^m33.7^s -05°34'16" (J2000)
ℓ: 48.02 b: -37.88

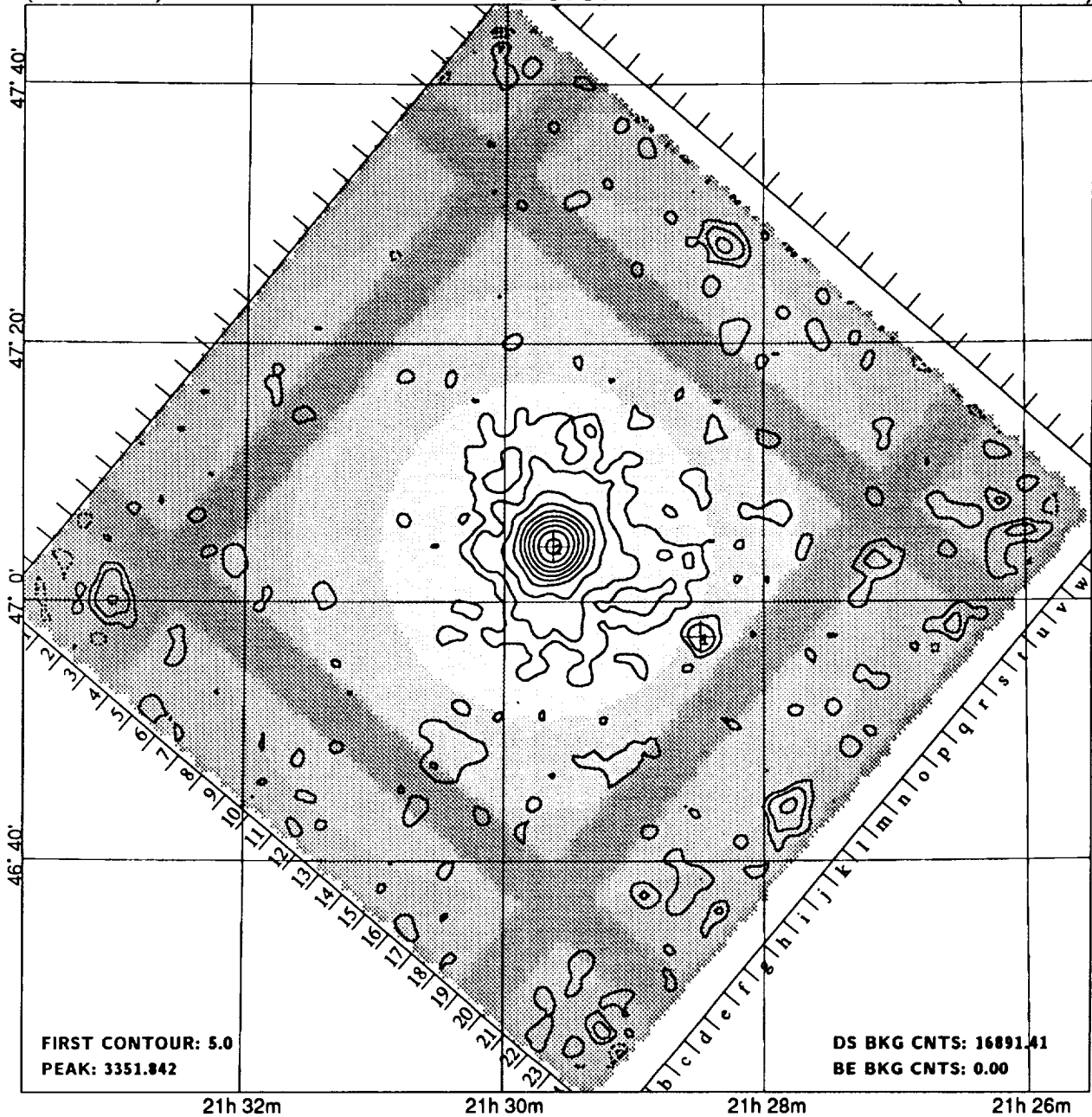
DATE: 1979/311 - 1979/311
LIVETIME: 1809.3s
ROLL ANGLE: 107.2°

NH: 4.2E+20
REF/ID:
FIELD FLAGS:

(21h 29m)

I 6757

(21h 29m)



X-RAY LIGHT CURVE OF 4U2129+47

FIELD CENTER: $21^h 29^m 36.0^s$ $47^\circ 04' 07''$ (B1950)
 $21^h 31^m 26.0^s$ $47^\circ 17' 24''$ (J2000)
 $l: 91.58$ $b: -3.04$

DATE: 1980/165 - 1980/166
 LIVETIME: 13687.5s
 ROLL ANGLE: -50.0°

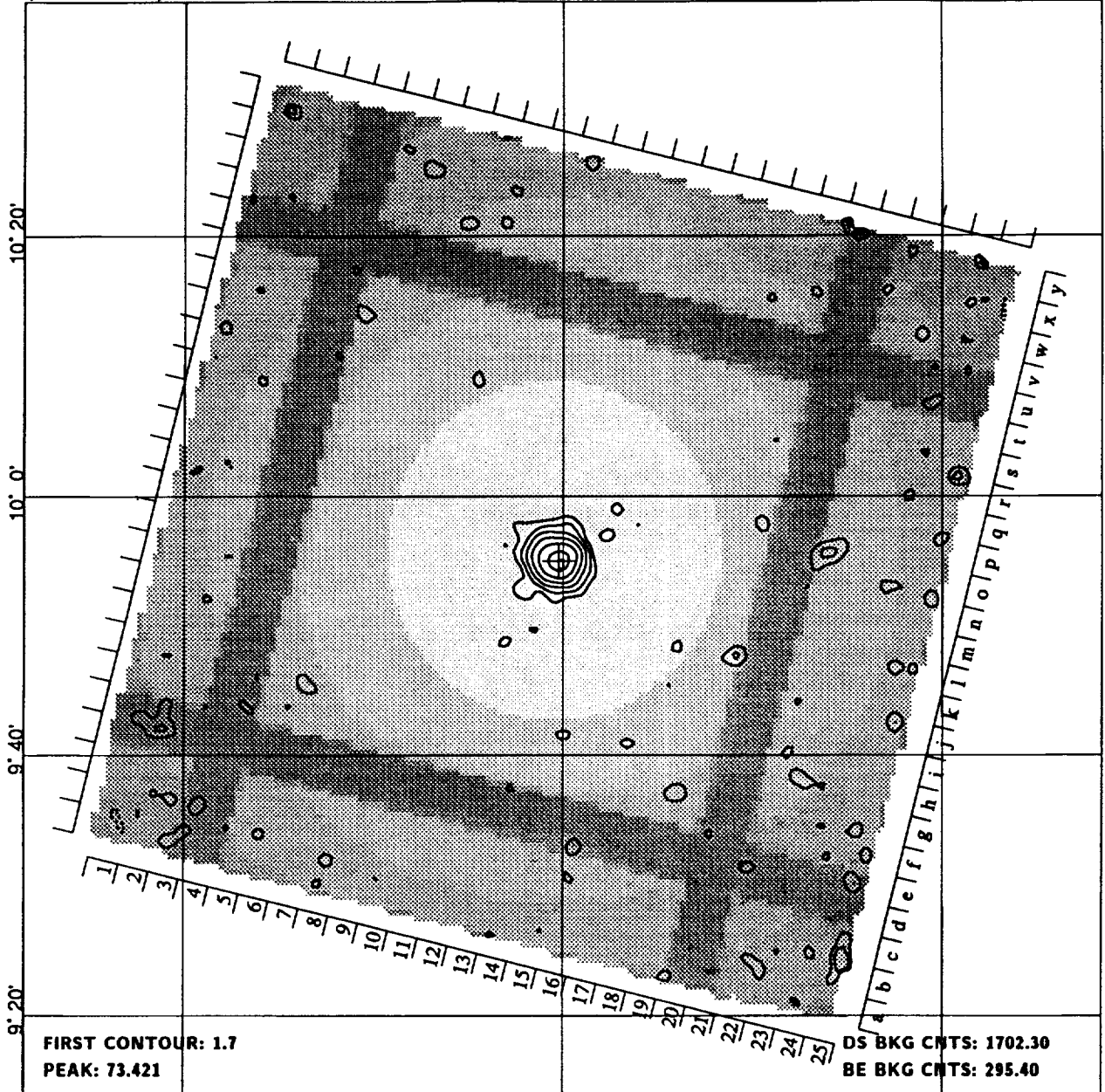
NH: $3.6E+21$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4482	1L	21 28 29.3	46 57 18	41	0.0067	0.0014	56.1	41.9	4.5	0.9	0	13.3	
4485	2L	21 29 37.2	47 04 17	31	1.226	0.013	12513.2	749.8	97.0	1.3	0	0.3	*

(21h 29m)

I 1971

(21h 29m)



II ZW 136: SEYFERT AND N-TYPE GALAXIES

FIELD CENTER: 21^h29^m59.9^s 09°55'59" (B1950)
 21^h32^m26.6^s 10°09'18" (J2000)
 l : 63.68 b : -29.06

DATE: 1980/124 - 1980/124
 LIVETIME: 1429.0s
 ROLL ANGLE: -76.1°

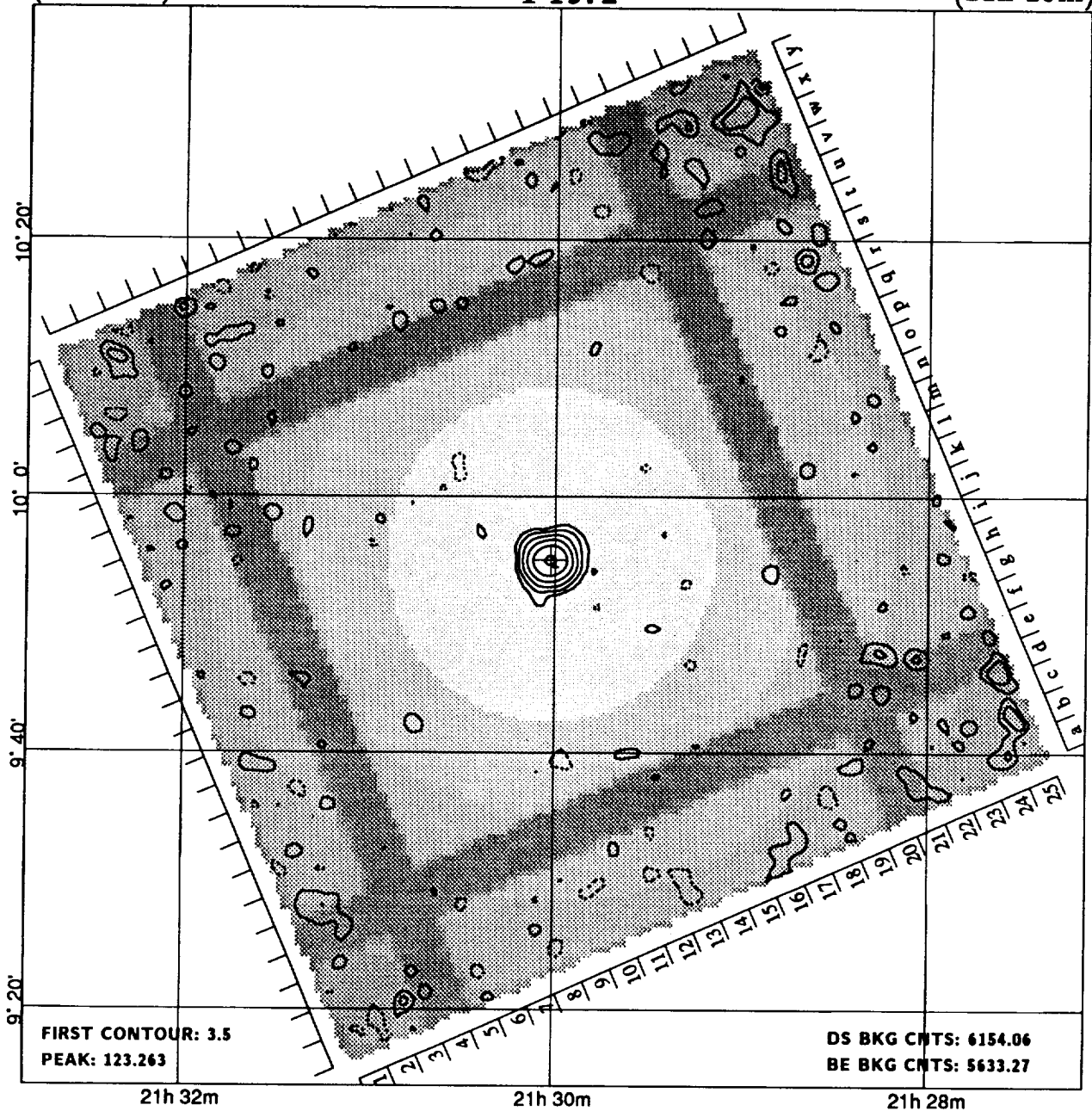
NH: 4.6E+20
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE ±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4486	1	21 30 01.5	09 55 00	31	0.319 0.017	338.8	5.2	18.3	1.3	0	0.9	AH	Q

(21h 29m)

I 1972

(21h 29m)



II ZW 136: SEYFERT AND N-TYPE GALAXIES

FIELD CENTER: $21^{\text{h}}29^{\text{m}}59.9^{\text{s}}$ $09^{\circ}55'59''$ (B1950)
 $21^{\text{h}}32^{\text{m}}26.6^{\text{s}}$ $10^{\circ}09'18''$ (J2000)
 $l: 63.68$ $b: -29.06$

DATE: 1981/110 - 1981/110
 LIVETIME: 4986.9s
 ROLL ANGLE: -113.5°

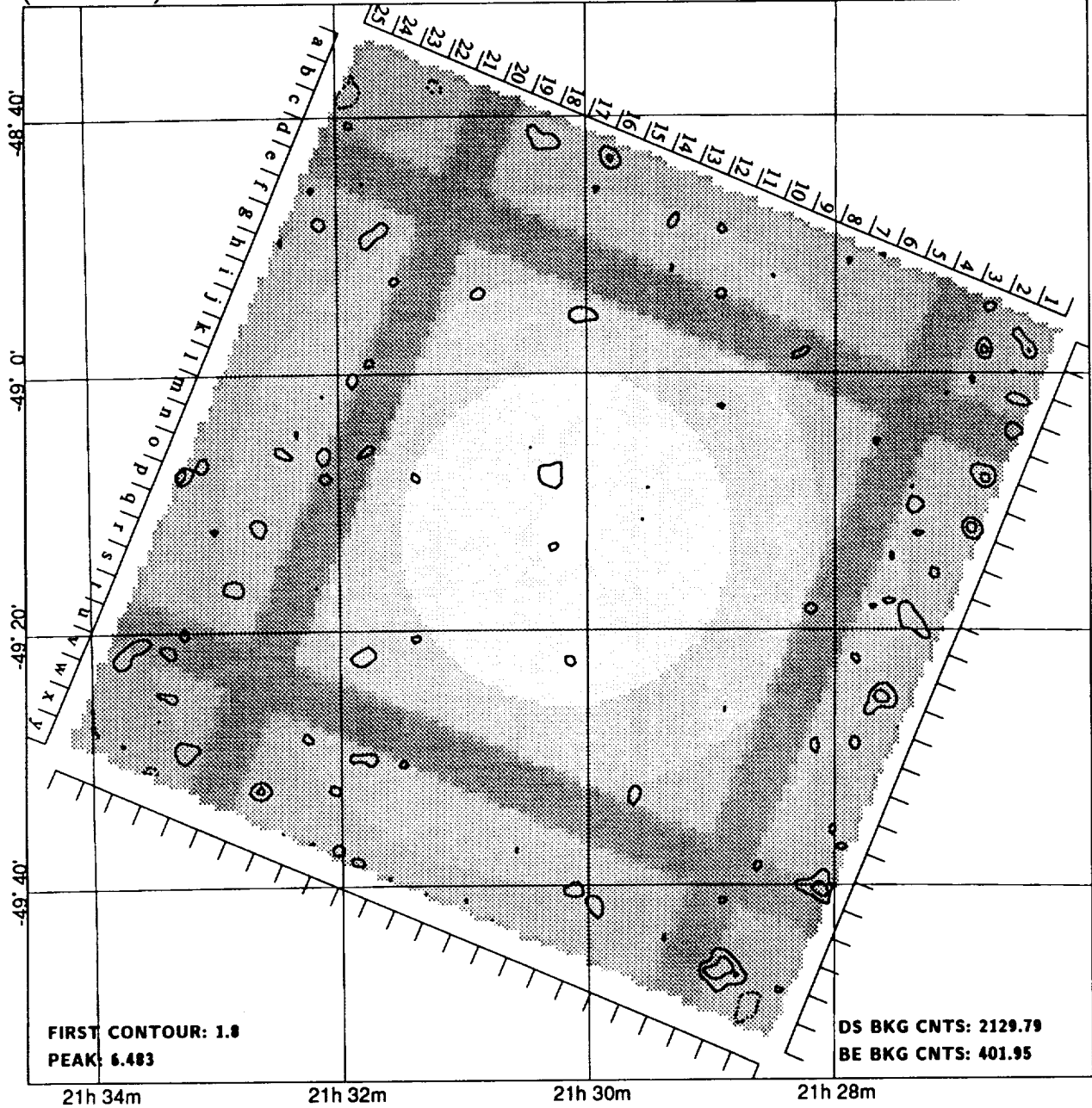
NH: $4.6\text{E}+20$
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4486	1L	21 30 01.4	09 55 04	31	0.1314	0.0076	488.7	109.3	17.2	1.3	0	1.0	A	Q

(21h 30m)

I 5650

(21h 30m)



FIRST CONTOUR: 1.8
PEAK: 6.483

DS BKG CNTS: 2129.79
BE BKG CNTS: 401.95

21h 34m

21h 32m

21h 30m

21h 28m

HD 204961

FIELD CENTER: 21^h30^m13.8^s -49°13'11" (B1950)
21^h33^m34.0^s -48°59'51" (J2000)
ℓ: 349.19 b: -46.35

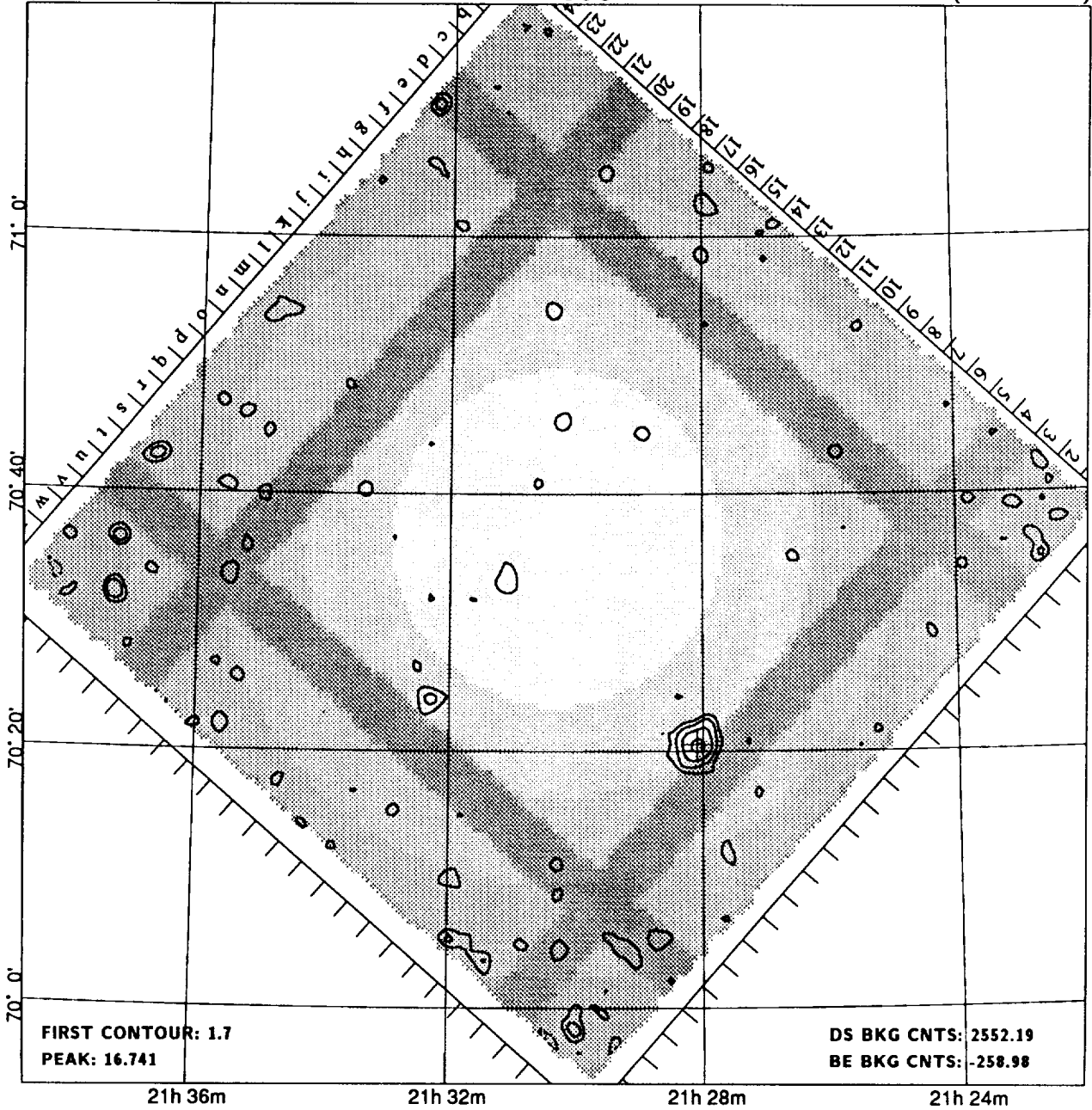
DATE: 1979/303 - 1979/303
LIVETIME: 1725.8s
ROLL ANGLE: 112.0°

NH: 3.3E+20
REF/ID:
FIELD FLAGS:

(21h 30m)

I 4995

(21h 30m)



21h 36m

21h 32m

21h 28m

21h 24m

STAR GK CEP

FIELD CENTER: $21^{\text{h}}30^{\text{m}}20.9^{\text{s}}$ $70^{\circ}36'06''$ (B1950)
 $21^{\text{h}}30^{\text{m}}58.9^{\text{s}}$ $70^{\circ}49'23''$ (J2000)
 $l: 107.87$ $b: 14.08$

DATE: 1979/352 - 1979/352
 LIVETIME: 2068.1s
 ROLL ANGLE: 131.0°

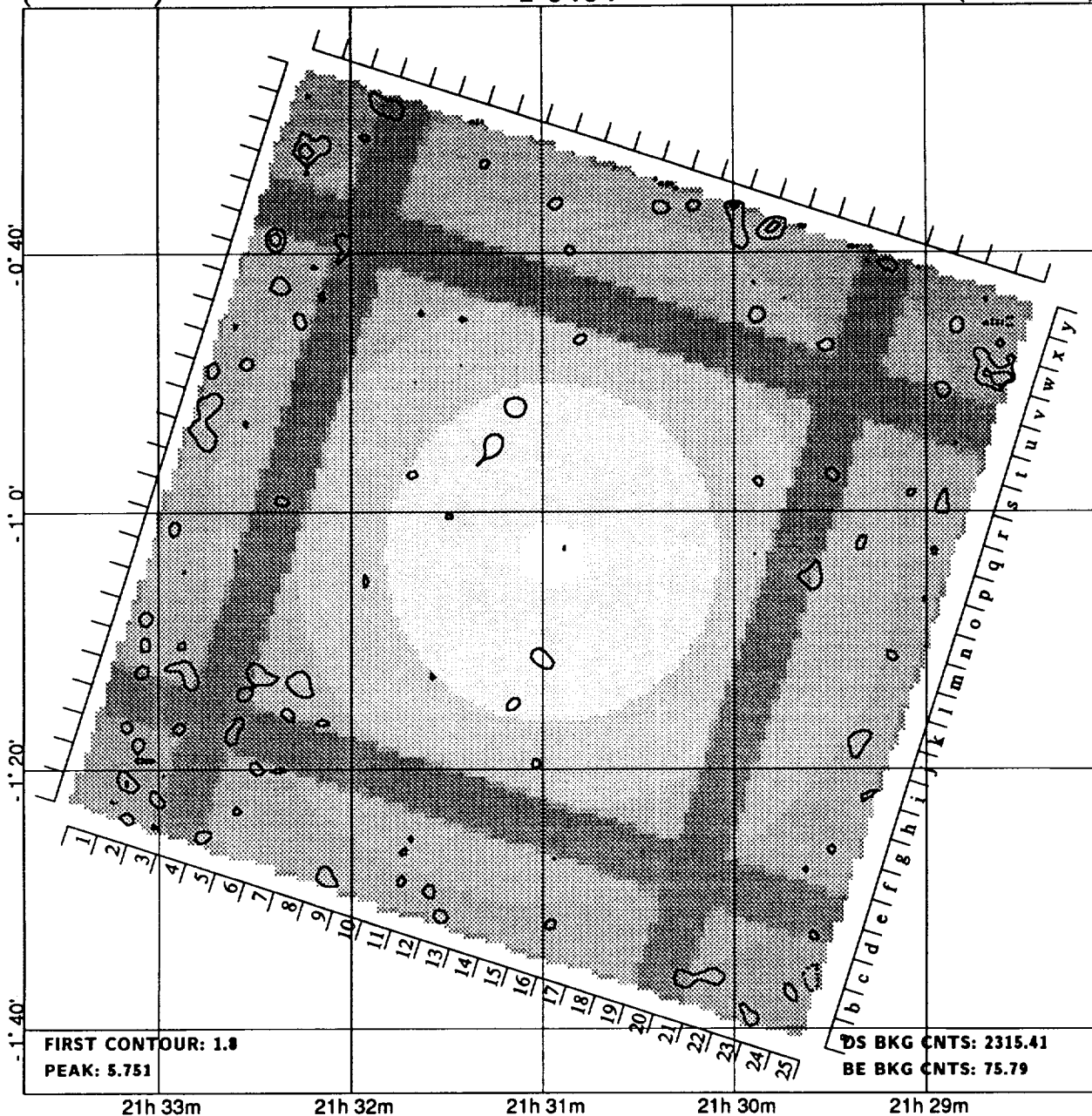
NH: $2.6E+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	ID
4480	1	21 28 05.5	70 20 31	50	*0.0435	0.0066	46.7	3.3	6.6	1.1	602	19.3	AH	S

(21h 30m)

I 6464

(21h 30m)



NGC 7089, GLOBULAR CLUSTER SURVEY

FIELD CENTER: $21^{\text{h}}30^{\text{m}}53.9^{\text{s}} -01^{\circ}02'59''$ (B1950)
 $21^{\text{h}}33^{\text{m}}28.3^{\text{s}} -00^{\circ}49'38''$ (J2000)
 $l: 53.37 \quad b: -35.78$

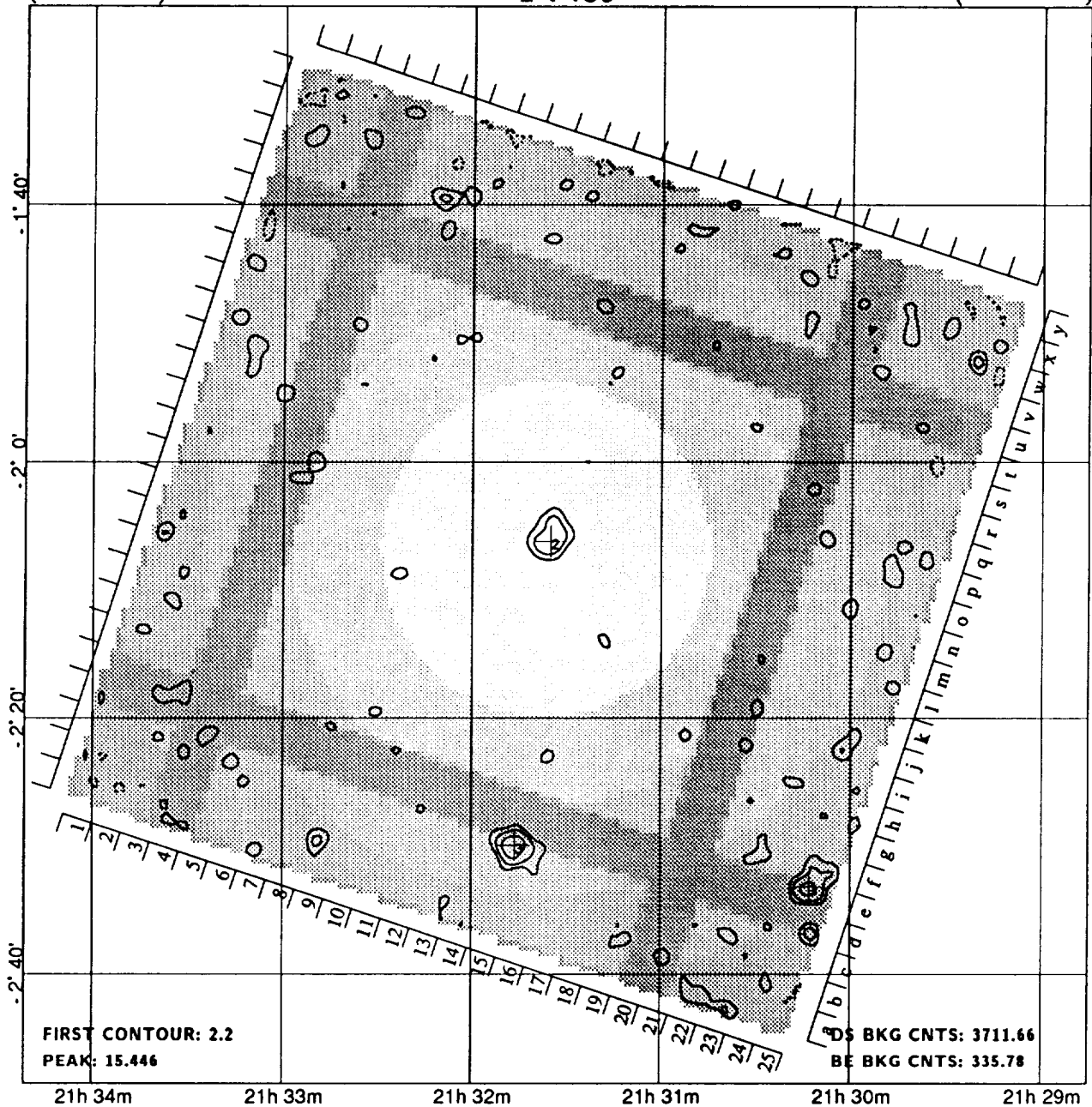
DATE: 1980/130 - 1980/130
 LIVETIME: 1943.6s
 ROLL ANGLE: -72.3°

NH: $4.2\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(21h 31m)

I 7489

(21h 31m)



2131-021,SURVEY OF X-RAY EMISSION FROM BL LAC OBJECTS

FIELD CENTER: $21^{\text{h}}31^{\text{m}}33.3^{\text{s}}$ $-02^{\circ}06'35''$ (B1950)
 $21^{\text{h}}34^{\text{m}}08.5^{\text{s}}$ $-01^{\circ}53'13''$ (J2000)
 $l: 52.39$ $b: -36.50$

DATE: 1980/132 - 1980/132
 LIVETIME: 3115.7s
 ROLL ANGLE: -71.9°

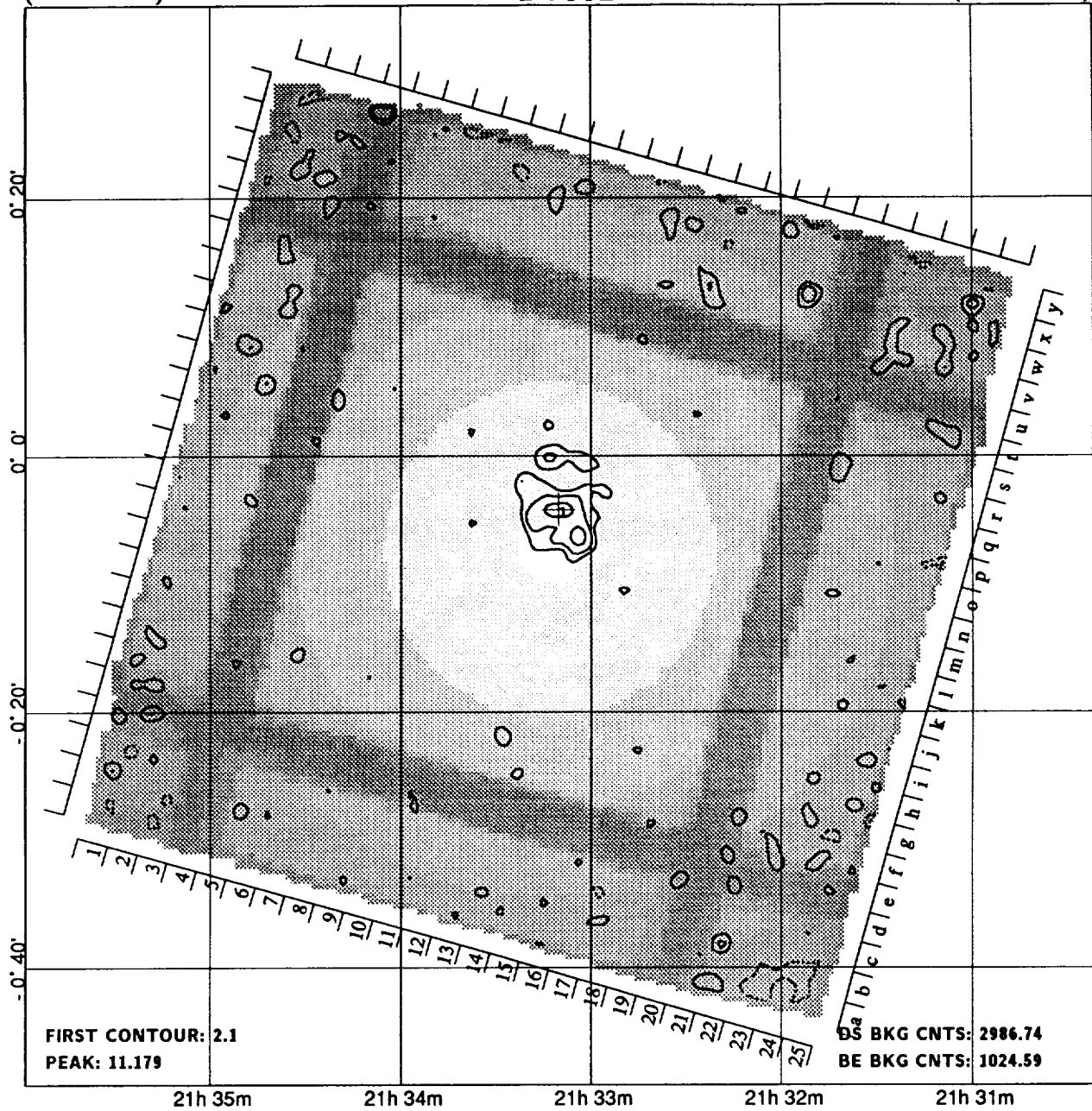
NH: $4.2\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4487	1	21 30 12.9	-02 33 14	56	*0.0188	0.0050	17.1	3.9	3.7	1.1	906	33.5	H	
4488	2	21 31 35.1	-02 06 15	36	0.0151	0.0029	35.1	9.9	5.2	1.1	0	0.6	H	BL
4489	3	21 31 46.3	-02 29 59	51	*0.0232	0.0044	33.1	5.9	5.3	1.1	804	23.6	H	

(21h 33m)

I 7802

(21h 33m)



FIELD CENTER: 21^h33^m09.8^s -00°06'59" (B1950)
21^h35^m43.6^s 00°06'26" (J2000)
ℓ: 54.71 b: -35.72

DATE: 1980/131 - 1980/132
LIVETIME: 2507.2s
ROLL ANGLE: -74.3°

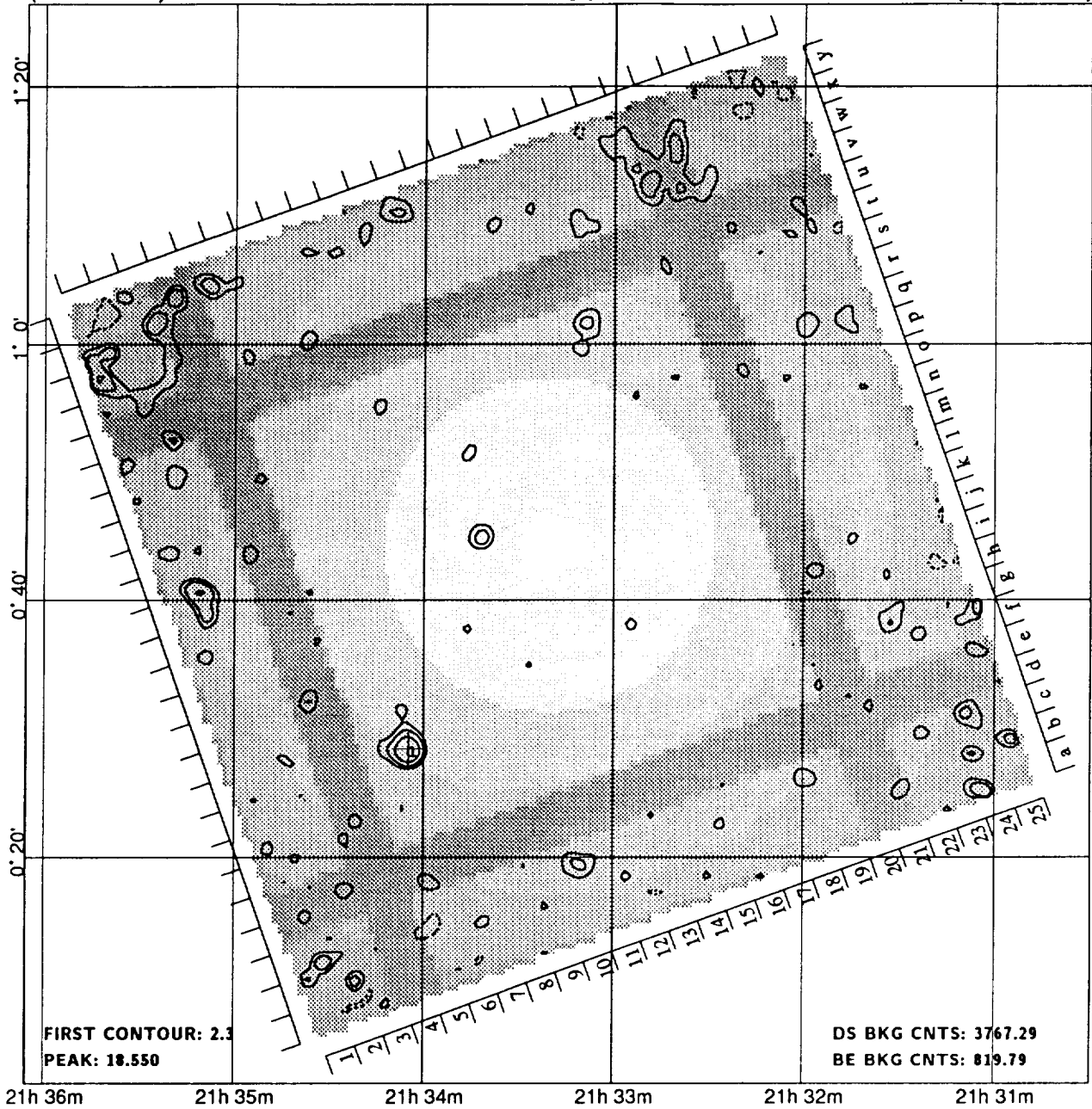
NH: 4.1E+20
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4492	1	21 33 10.3	-00 04 11	35	0.0238	0.0040	43.6	10.4	5.9	2.4	0	2.8	H	CLG

(21h 33m)

I 7801

(21h 33m)



A2355/2356, CLUSTERS OF GALAXIES SURVEY

FIELD CENTER: 21^h33^m17.8^s 00°44'23" (B1950)
 21^h35^m51.0^s 00°57'51" (J2000)
 l : 55.60 b : -35.26

DATE: 1981/112 - 1981/112
 LIVETIME: 3052.8s
 ROLL ANGLE: -109.6°

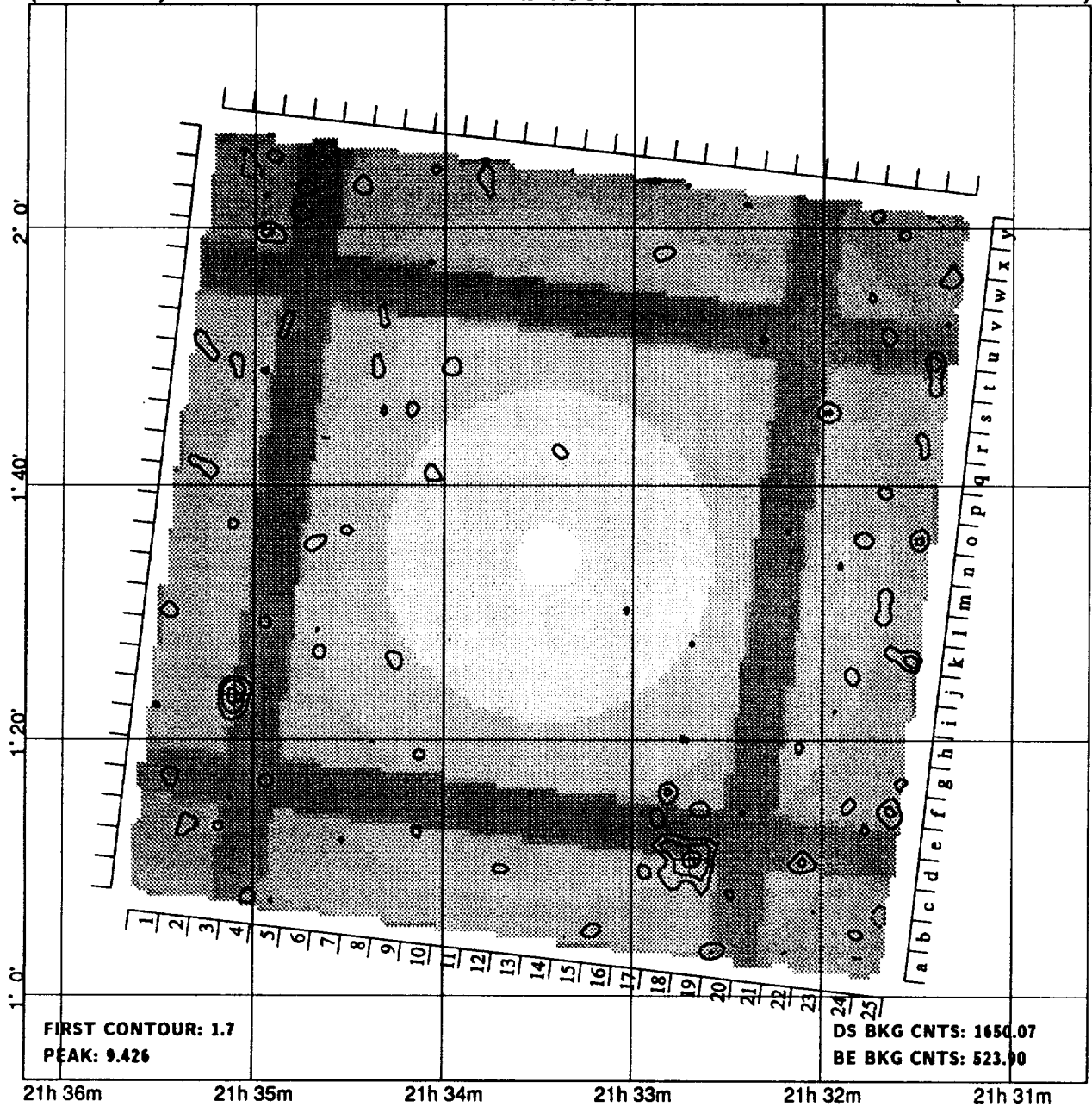
NH: 4.4E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	FLG
4495	1	21 34 04.8	00 28 29	50	0.0294	0.0047	46.8	8.2	6.3	0.9	0	19.8	AH	Q

(21h 33m)

I 7800

(21h 33m)



A2355, CLUSTERS OF GALAXIES SURVEY

FIELD CENTER: $21^{\text{h}}33^{\text{m}}23.7^{\text{s}}$ $01^{\circ}35'23''$ (B1950)
 $21^{\text{h}}35^{\text{m}}56.3^{\text{s}}$ $01^{\circ}48'51''$ (J2000)
 $l: 56.47$ $b: -34.79$

DATE: 1980/126 - 1980/126
 LIVETIME: 1385.1s
 ROLL ANGLE: -83.5°

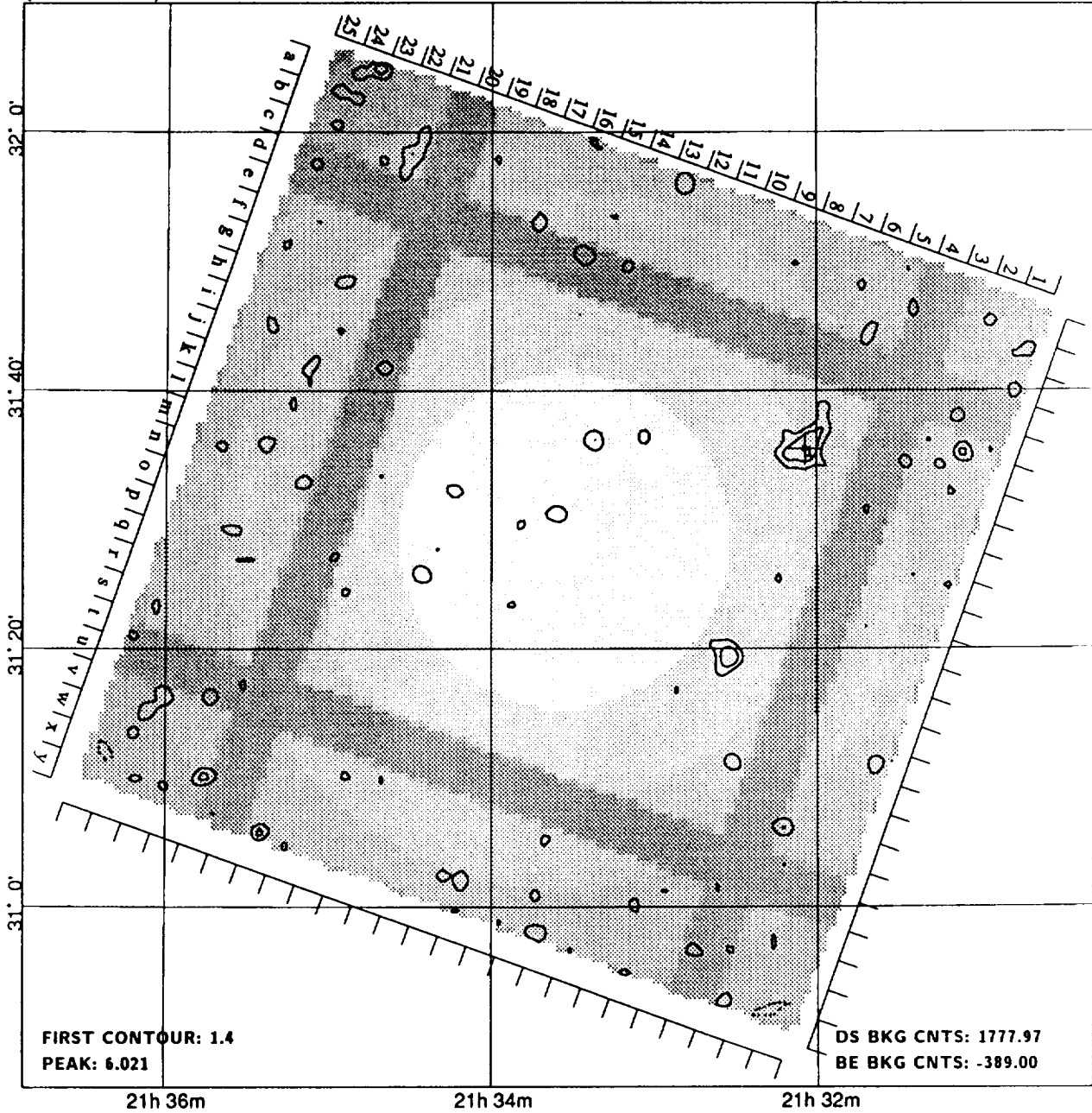
NH: $4.5\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4491	1	21 32 41.6	01 10 42	55	*0.0346	0.0084	19.7	3.3	4.1	1.4	906	26.8	H	CLG
4498	2	21 35 06.1	01 23 32	55	*0.0295	0.0079	16.2	2.8	3.7	1.0	806	28.1	H	

(21h 33m)

I 3025

(21h 33m)



A 78: PLANETARY NEBULAE WITH HOT STARS

FIELD CENTER: 21^h33^m35.8^s 31°27'59" (B1950)
 21^h35^m45.3^s 31°41'27" (J2000)
 l : 81.33 b : -14.96

DATE: 1979/327 - 1979/327
 LIVETIME: 1440.7s
 ROLL ANGLE: 109.6°

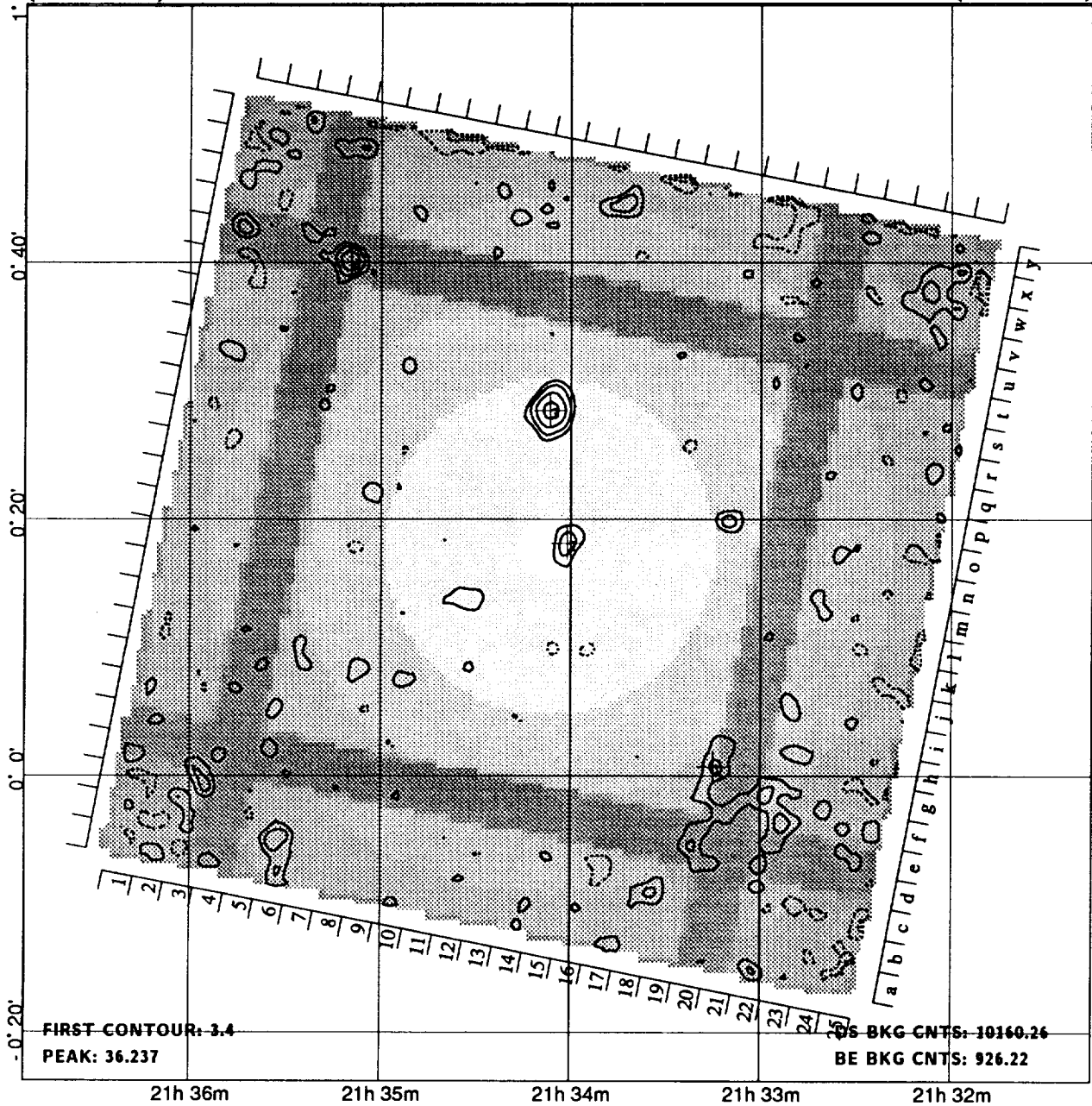
NH: 1.2E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4490	1	21 32 04.2	31 35 28	55	0.0227	0.0059	16.7	2.3	3.8	1.2	0	20.4	H

(21h 34m)

I 543

(21h 34m)



PKS 2134+004 QUASAR SURVEY

FIELD CENTER: $21^{\text{h}}34^{\text{m}}03.8^{\text{s}} \ 00^{\circ}18'11''$ (B1950)
 $21^{\text{h}}36^{\text{m}}37.3^{\text{s}} \ 00^{\circ}31'41''$ (J2000)
 $l: 55.30 \ b: -35.67$

DATE: 1980/130 - 1980/130
 LIVETIME: 8528.8s
 ROLL ANGLE: -79.1°

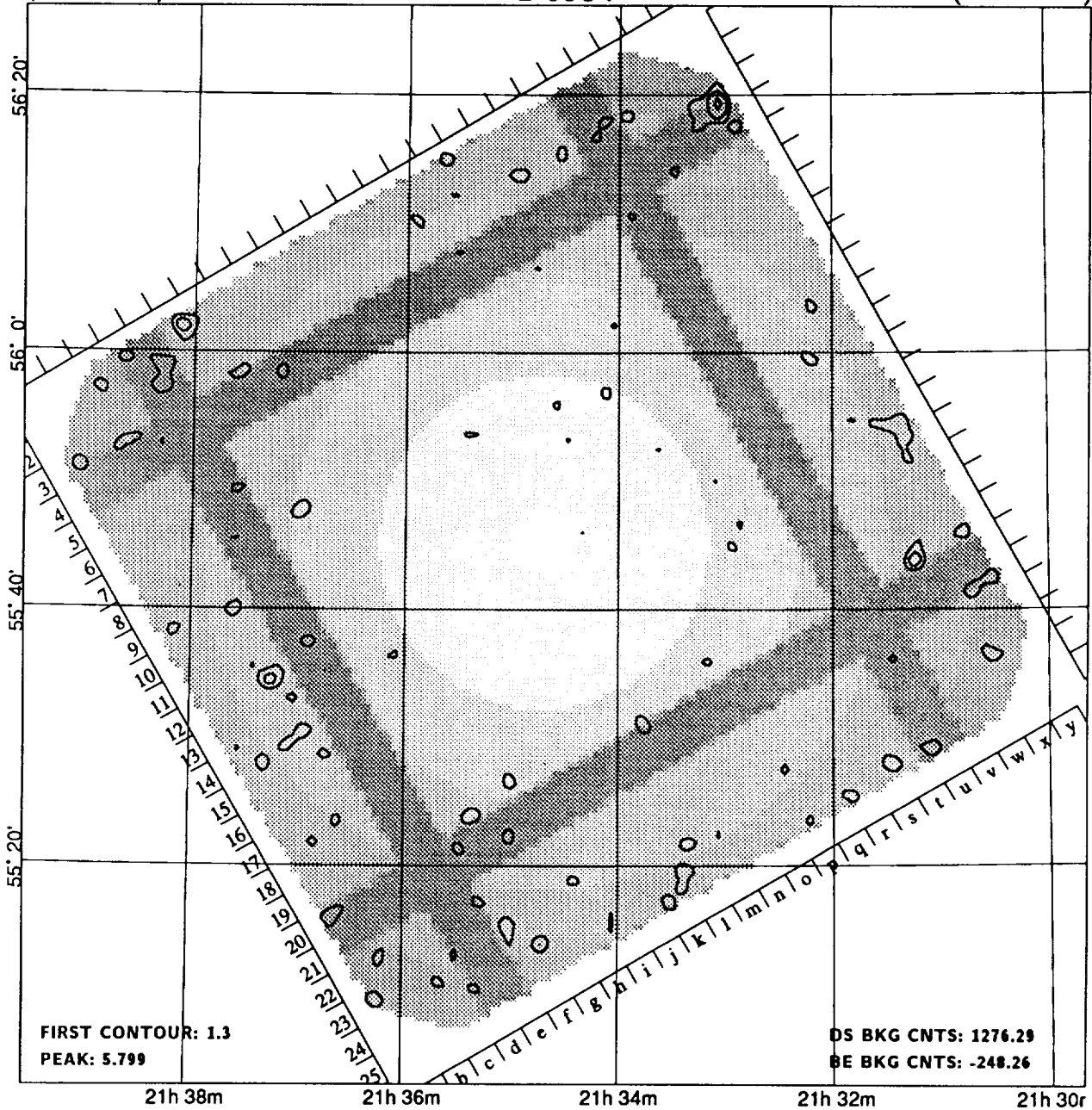
NH: $4.1\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4493	1	21 33 14.9	00 00 42	55	*0.0056	0.0016	23.1	19.9	3.5	3.9	1006	20.7	H	
4494	2	21 34 01.1	00 18 07	35	0.0055	0.0013	34.9	29.1	4.4	0.8	0	0.7	H	S
4495	3	21 34 06.6	00 28 26	38	0.0211	0.0021	118.9	26.1	9.9	1.1	0	10.3	AH	Q
4499	4	21 35 09.4	00 40 03	51	*0.0106	0.0020	35.5	10.5	5.2	0.8	1609	27.4		

(21h 34m)

I 6934

(21h 34m)



4U 2134+55, GALACTIC SOURCE LOCATIONS & SPECTRA I

FIELD CENTER: $21^{\text{h}}34^{\text{m}}35.9^{\text{s}}$ $55^{\circ}44'59''$ (B1950)
 $21^{\text{h}}36^{\text{m}}11.5^{\text{s}}$ $55^{\circ}58'28''$ (J2000)
 $l: 97.99$ $b: 2.86$

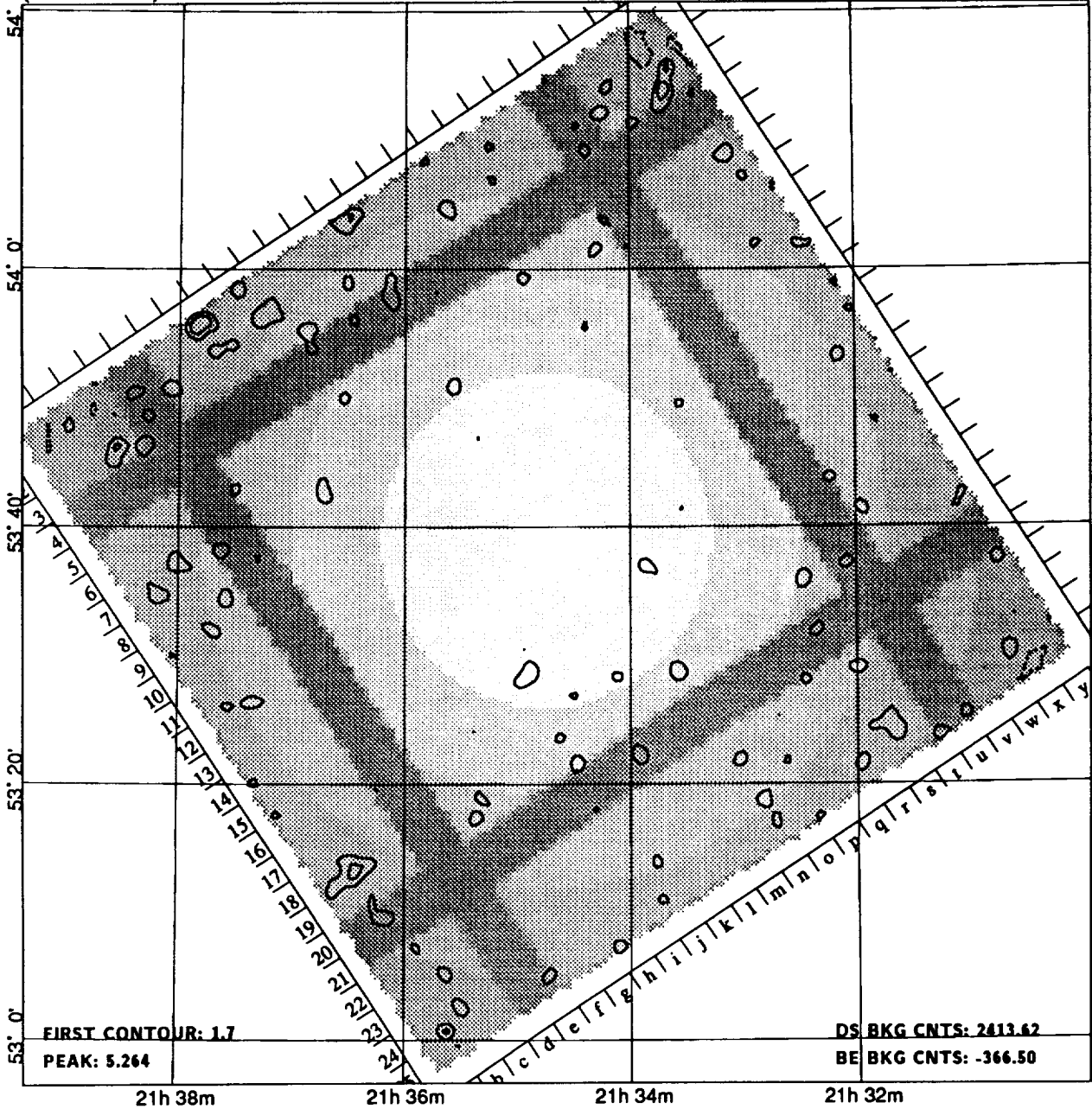
DATE: 1980/193 - 1980/193
 LIVETIME: 1034.2s
 ROLL ANGLE: -30.1°

NH: $9.2\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(21h 34m)

I 8101

(21h 34m)



VARIABLE RADIO SOURCE: GT 2134+536

FIELD CENTER: $21^{\text{h}}34^{\text{m}}39.0^{\text{s}} 53^{\circ}38'45''$ (B1950)
 $21^{\text{h}}36^{\text{m}}19.0^{\text{s}} 53^{\circ}52'15''$ (J2000)
 $l: 96.60 \quad b: 1.29$

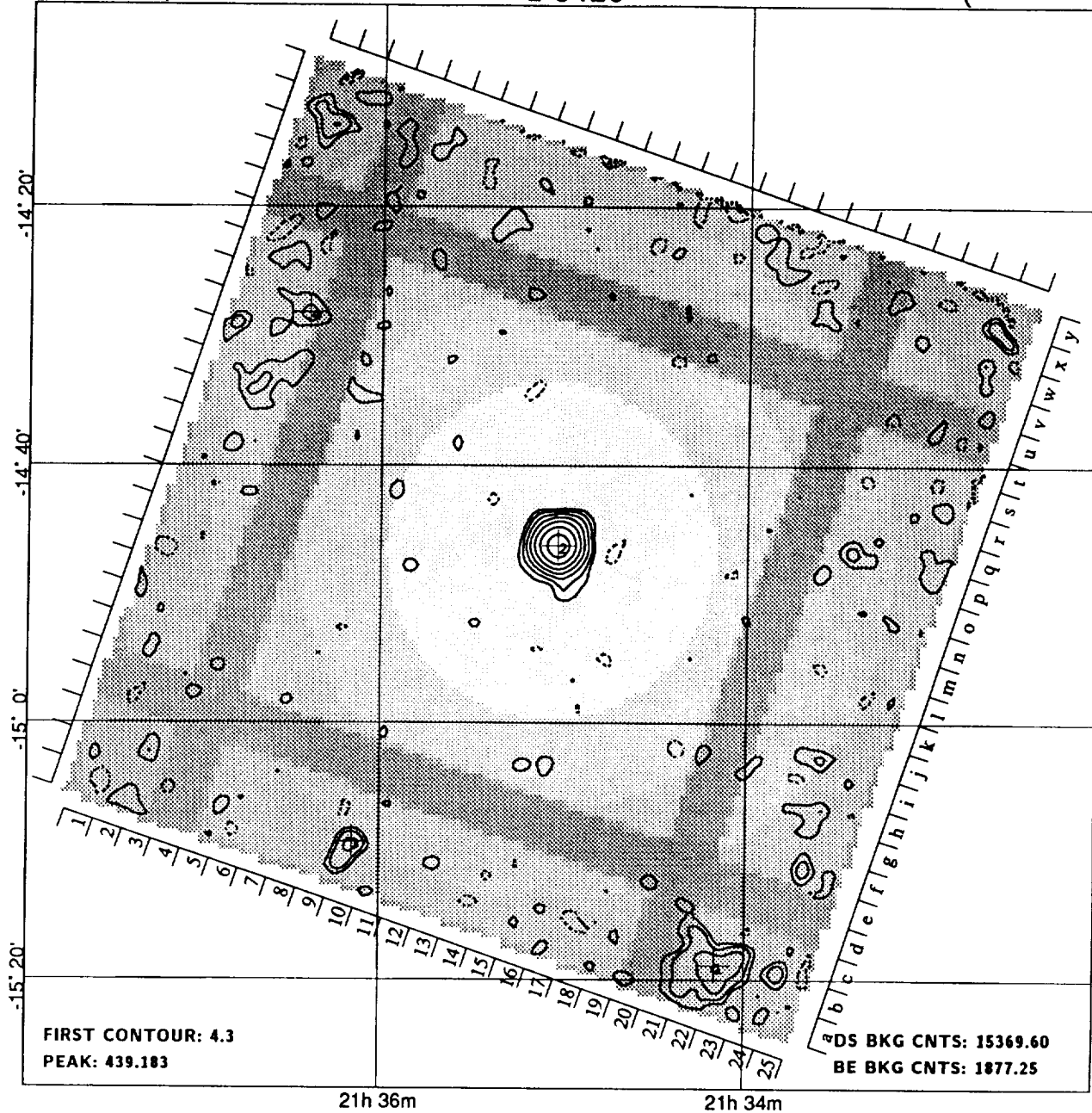
DATE: 1980/190 - 1980/190
 LIVETIME: 1955.8s
 ROLL ANGLE: -33.3°

NH: $9.3\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(21h 35m)

I 5426

(21h 35m)



21h 36m 21h 34m
 PHL 1657, LONG OBS. OF HIGH COUNT QUASARS

FIELD CENTER: $21^{\text{h}}35^{\text{m}}00.9^{\text{s}}$ $-14^{\circ}46'26''$ (B1950)
 $21^{\text{h}}37^{\text{m}}44.9^{\text{s}}$ $-14^{\circ}32'54''$ (J2000)
 $l: 38.40$ $b: -43.33$

DATE: 1980/131 - 1980/134
 LIVETIME: 12901.7s
 ROLL ANGLE: -71.4°

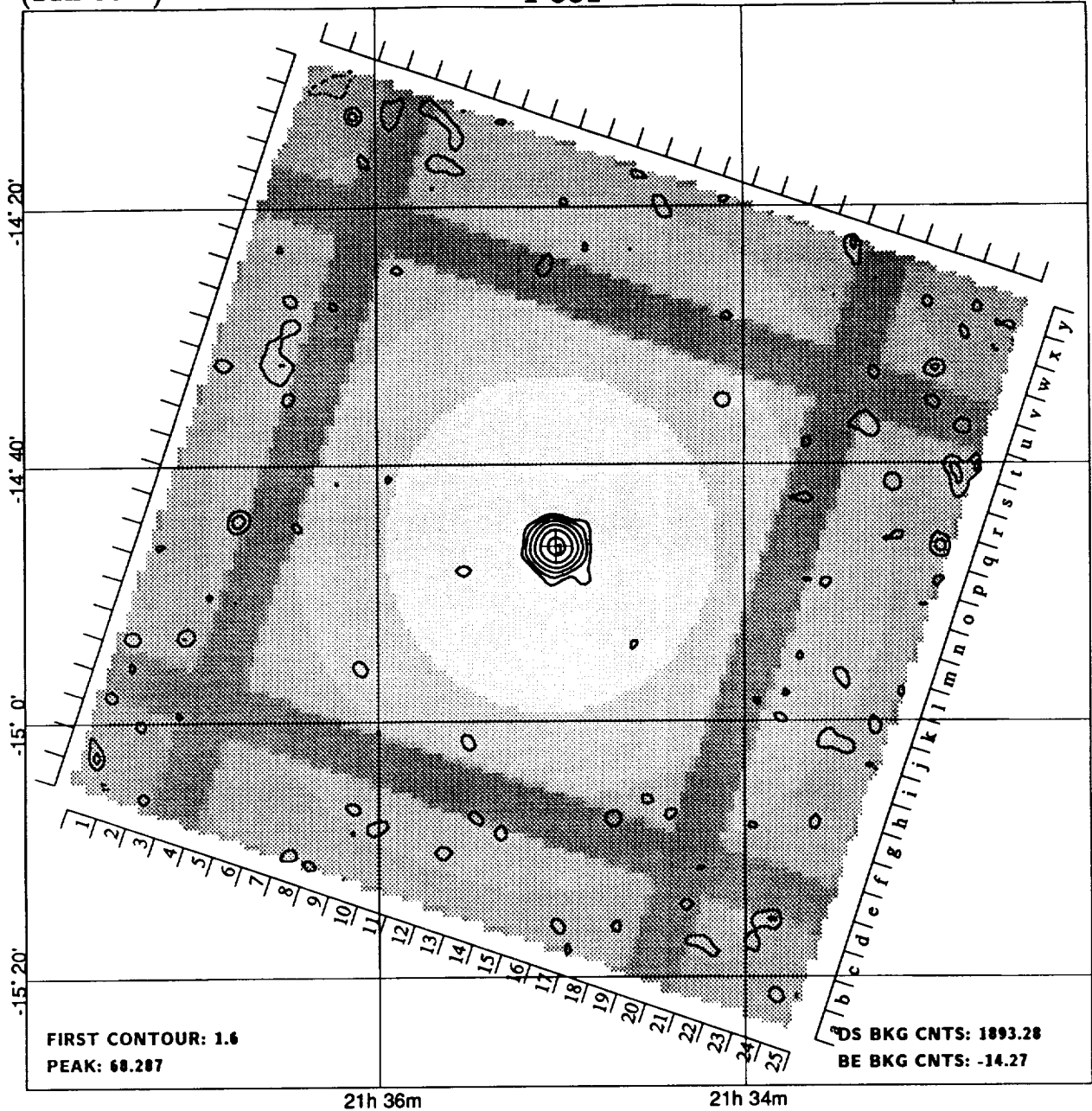
NH: $4.6\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4496	1	21 34 09.7	-15 18 52	51	0.0159	0.0025	56.5	21.5	6.4	2.3	0	34.6	H
4497	2	21 35 01.9	-14 46 19	31	0.1894	0.0045	1819.2	42.8	42.2	1.2	0	0.4	AH Q
4501	3	21 36 08.9	-15 09 19	51	0.0074	0.0016	37.2	27.8	4.6	1.0	0	28.3	H
4503	4	21 36 23.8	-14 28 13	64	*0.0049	0.0014	25.3	24.7	3.6	0.9	601	27.4	H

(21h 35m)

I 531

(21h 35m)



QSO 2135-147 QUASAR SURVEY

FIELD CENTER: 21^h 35^m 01.0^s -14° 46' 26" (B1950)
 21^h 37^m 45.0^s -14° 32' 54" (J2000)
 l : 38.40 b : -43.33

DATE: 1979/139 - 1979/139
 LIVETIME: 1534.2s
 ROLL ANGLE: -71.4°

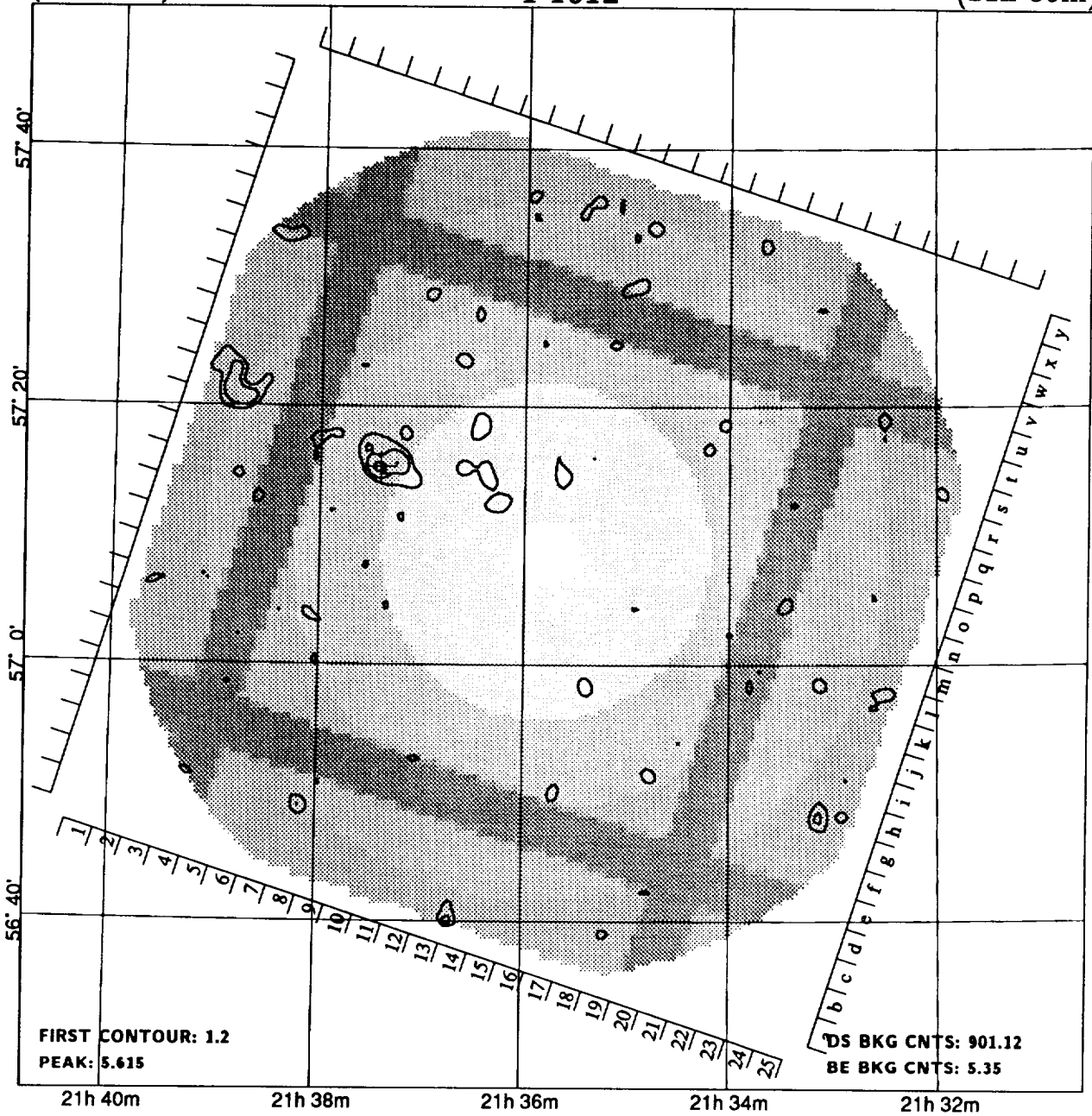
NH: 4.6E+20
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4497	1	21 35 01.7	-14 46 21	31	0.244	0.015	279.4	4.6	16.6	1.2	0	0.4	AH Q

(21h 35m)

I 1012

(21h 35m)



4U 2135+57, GALACTIC SOURCE LOCATION AND SPECTRA

FIELD CENTER: $21^{\text{h}}35^{\text{m}}41.8^{\text{s}}$ $57^{\circ}08'59''$ (B1950)
 $21^{\text{h}}37^{\text{m}}14.7^{\text{s}}$ $57^{\circ}22'31''$ (J2000)
 $l: 99.04$ $b: 3.81$

DATE: 1979/145 - 1979/145
 LIVETIME: 730.2s
 ROLL ANGLE: -72.1°

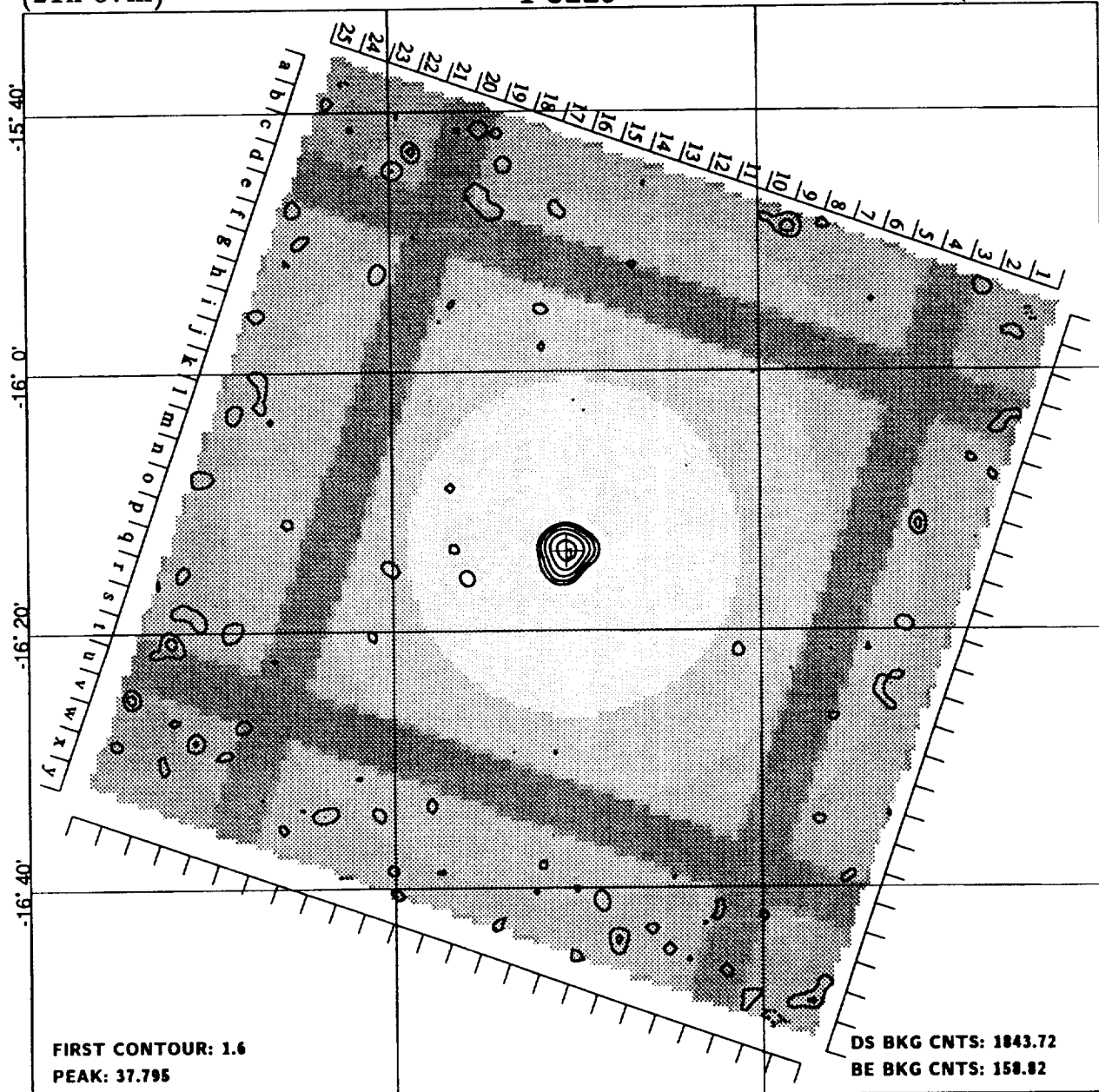
NH: $8.4\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	FLG
4506	1	21 37 24.9	57 15 18	55	0.0331	0.0092	14.3	1.7	3.6	1.5	0	15.3	AH	S

(21h 37m)

I 3229

(21h 37m)



FIRST CONTOUR: 1.6
PEAK: 37.795

DS BKG CNTS: 1843.72
BE BKG CNTS: 158.82

RS CVN SYSTEMS: AD CAP

FIELD CENTER: 21^h37^m03.3^s -16°14'02" (B1950)
21^h39^m48.3^s -16°00'25" (J2000)
l: 36.81 b: -44.36

DATE: 1979/310 - 1979/311
LIVETIME: 1494.0s
ROLL ANGLE: 109.0°

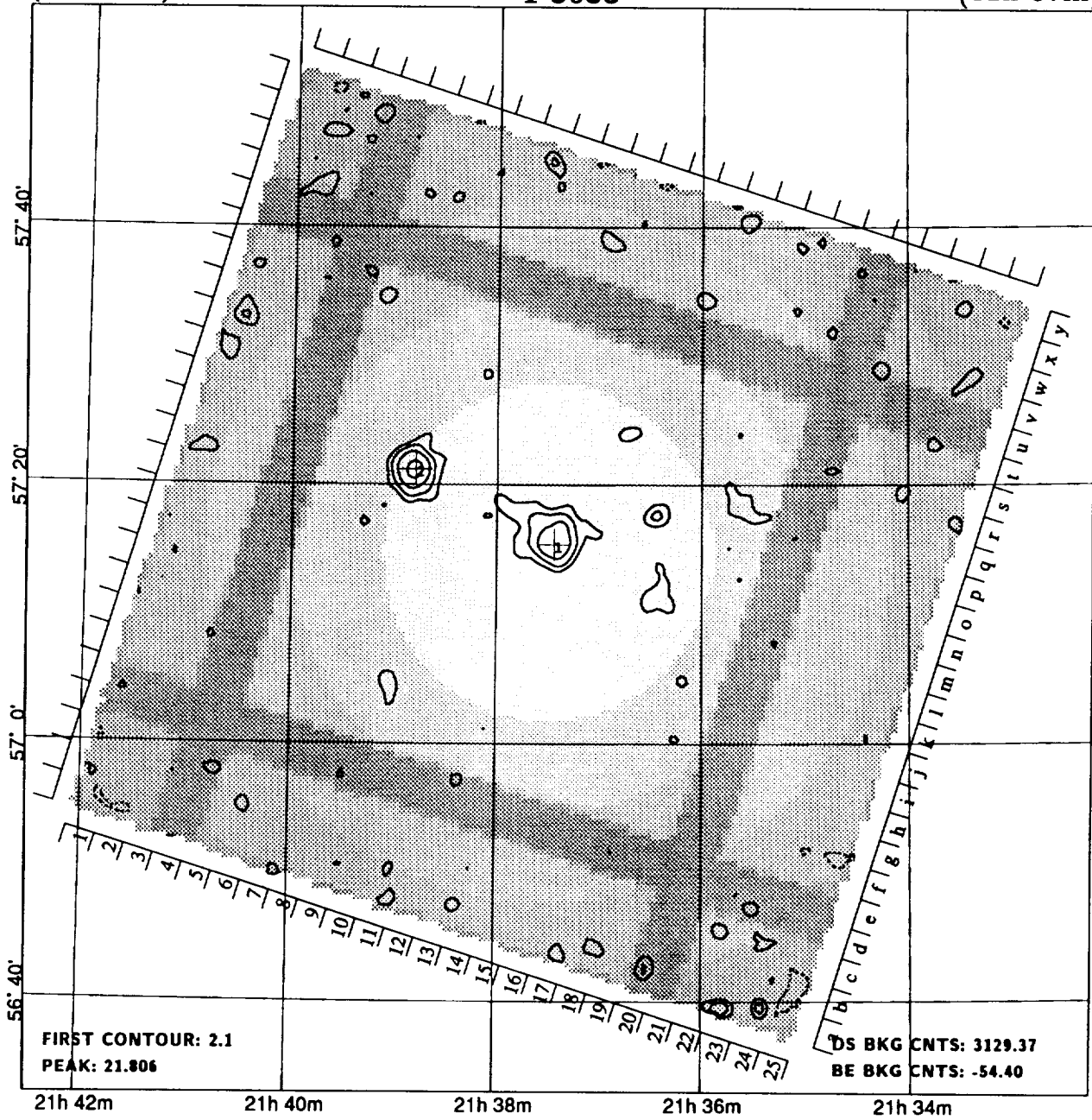
NH: 4.3E+20
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4504	1	21 37 03.3	-16 13 54	31	0.137	0.011	152.9	5.1	12.2	1.1	0	0.2	H	CV

(21h 37m)

I 3055

(21h 37m)



COLLIDING STELLAR WINDS: HD 206267

FIELD CENTER: $21^{\text{h}}37^{\text{m}}23.7^{\text{s}}$ $57^{\circ}14'59''$ (B1950)
 $21^{\text{h}}38^{\text{m}}57.0^{\text{s}}$ $57^{\circ}28'35''$ (J2000)
 $l: 99.28$ $b: 3.73$

DATE: 1979/145 - 1979/145
 LIVETIME: 2535.8s
 ROLL ANGLE: -72.5°

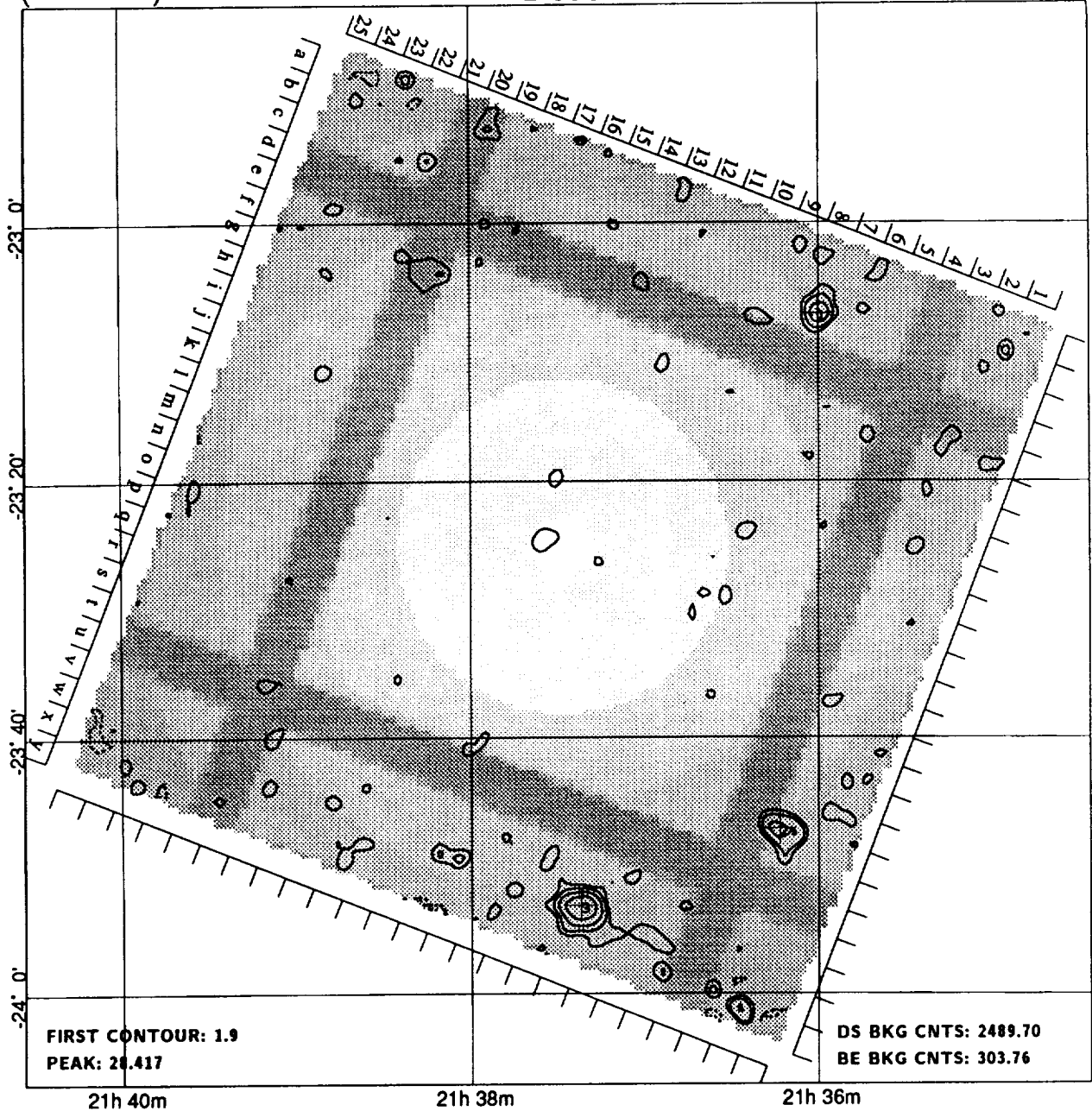
NH: $8.4E+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4506	1	21 37 26.2	57 15 25	33	0.0380	0.0047	71.6	7.4	8.1	1.7	0	0.6	AH	S
4507	2	21 38 48.0	57 21 13	38	0.0480	0.0057	77.1	6.9	8.4	1.2	0	13.0	H	S

(21h 37m)

I 698

(21h 37m)



NGC 7099 GLOBULAR CLUSTER X-RAY EMISSION

FIELD CENTER: 21^h 37^m 29.8^s -23° 24' 59" (B1950)
 21^h 40^m 20.2^s -23° 11' 21" (J2000)
l: 27.16 *b*: -46.83

DATE: 1979/301 - 1979/301
 LIVETIME: 2017.5s
 ROLL ANGLE: 111.3°

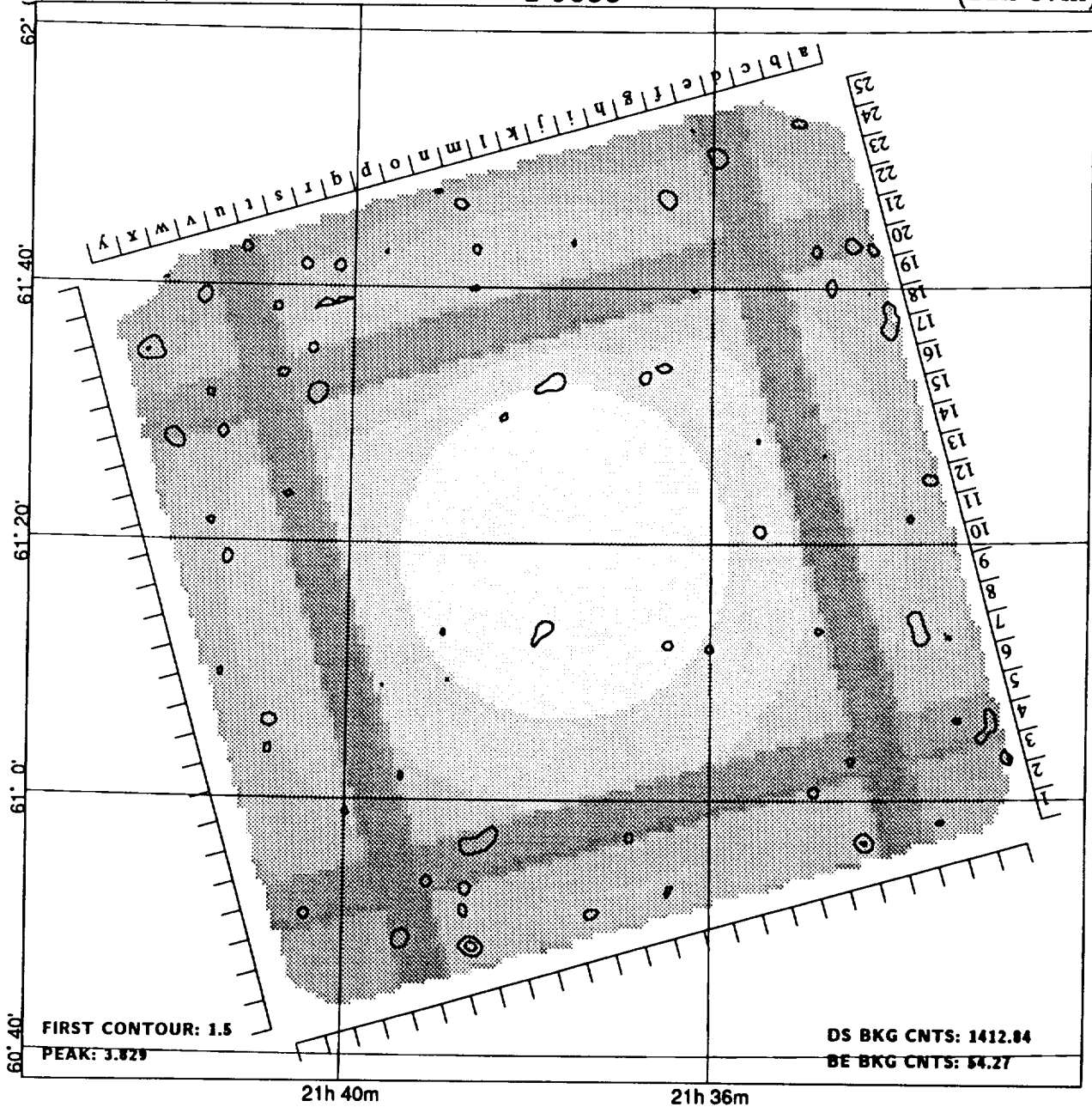
NH: 3.6E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4500	1	21 36 00.3	-23 07 00	51	0.0279	0.0065	22.4	4.6	4.3	0.9	200	27.2	H
4502	2	21 36 13.5	-23 47 10	55	*0.0271	0.0065	20.9	4.1	4.2	1.2	805	28.1	H
4505	3	21 37 22.1	-23 53 06	50	0.074	0.010	57.1	3.9	7.3	1.3	0	28.2	H

(21h 37m)

I 9058

(21h 37m)



21h 40m

21h 36m

MASSIVE RUNAWAY O STARS: 206327

FIELD CENTER: $21^{\text{h}}37^{\text{m}}41.8^{\text{s}}$ $61^{\circ}19'59''$ (B1950)
 $21^{\text{h}}39^{\text{m}}04.4^{\text{s}}$ $61^{\circ}33'36''$ (J2000)
 $l: 102.02$ $b: 6.77$

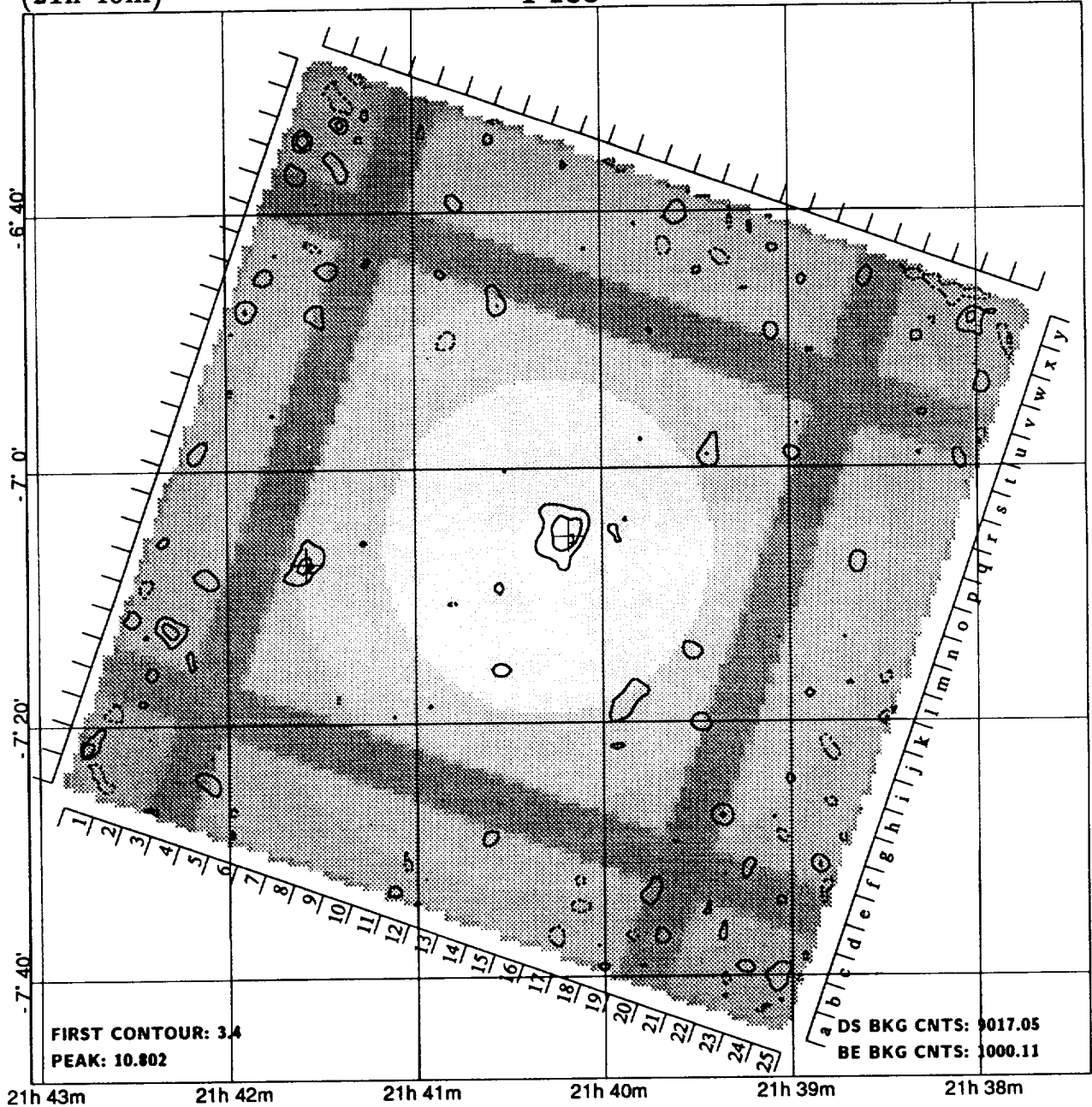
DATE: 1991/ 25 - 1991/ 25
 LIVETIME: 1144.9s
 ROLL ANGLE: 164.4°

NH: 4.6E+21
 REF/ID:
 FIELD FLAGS:

(21h 40m)

I 133

(21h 40m)



A2366 CLUSTER SURFACE BRIGHTNESS

FIELD CENTER: $21^{\text{h}}40^{\text{m}}14.2^{\text{s}}$ $-07^{\circ}05'59''$ (B1950)
 $21^{\text{h}}42^{\text{m}}52.7^{\text{s}}$ $-06^{\circ}52'14''$ (J2000)
 $l: 48.41$ $b: -40.96$

DATE: 1979/139 - 1980/137
 LIVETIME: 7306.8s
 ROLL ANGLE: -70.7°

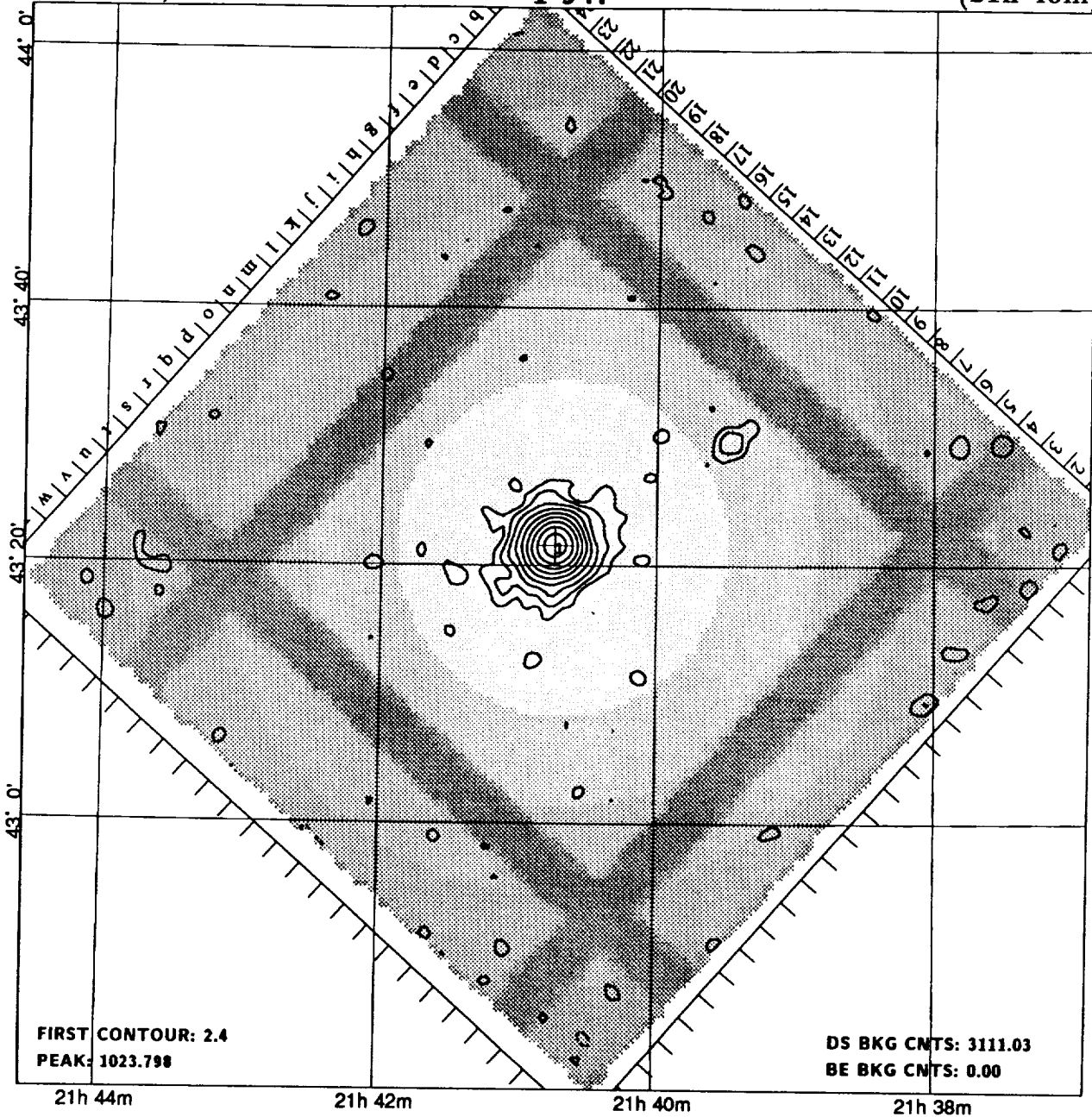
NH: $3.5\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4508	1	21 40 10.8	-07 05 24	35	0.0094	0.0016	50.9	25.1	5.8	1.6	0	0.7	H
4514	2	21 41 34.9	-07 07 25	56	0.0065	0.0017	24.7	18.3	3.8	0.9	400	20.2	H

(21h 40m)

I 947

(21h 40m)



SS CYG DWARF NOVA SOFT X-RAY STUDY

FIELD CENTER: $21^{\text{h}}40^{\text{m}}43.8^{\text{s}}$ $43^{\circ}21'17''$ (B1950)
 $21^{\text{h}}42^{\text{m}}41.6^{\text{s}}$ $43^{\circ}35'02''$ (J2000)
 $l: 90.56$ $b: -7.11$

DATE: 1978/357 - 1978/357
 LIVETIME: 2521.0s
 ROLL ANGLE: 131.4°

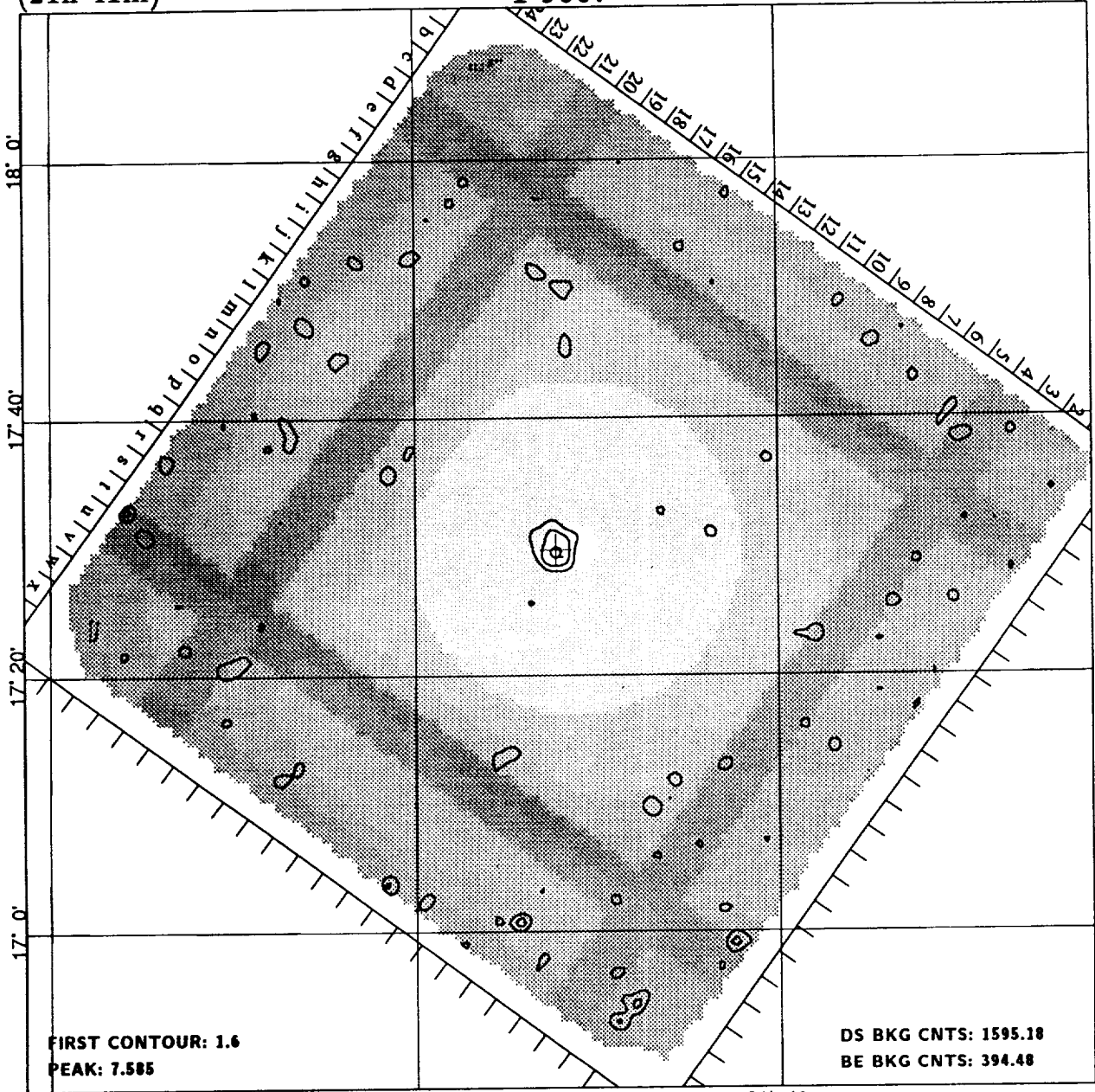
NH: $2.6\text{E}+21$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4511	1L	21 40 44.3	43 21 32	31	2.067	0.039	3883.5	299.5	53.4	1.3	0	0.2	S

(21h 41m)

I 9667

(21h 41m)



QSO OX 169

FIELD CENTER: $21^{\text{h}}41^{\text{m}}12.7^{\text{s}}$ $17^{\circ}29'48''$ (B1950)
 $21^{\text{h}}43^{\text{m}}34.5^{\text{s}}$ $17^{\circ}43'35''$ (J2000)
 $l: 72.11$ $b: -26.08$

DATE: 1980/357 - 1980/357
 LIVETIME: 1292.6s
 ROLL ANGLE: 126.0°

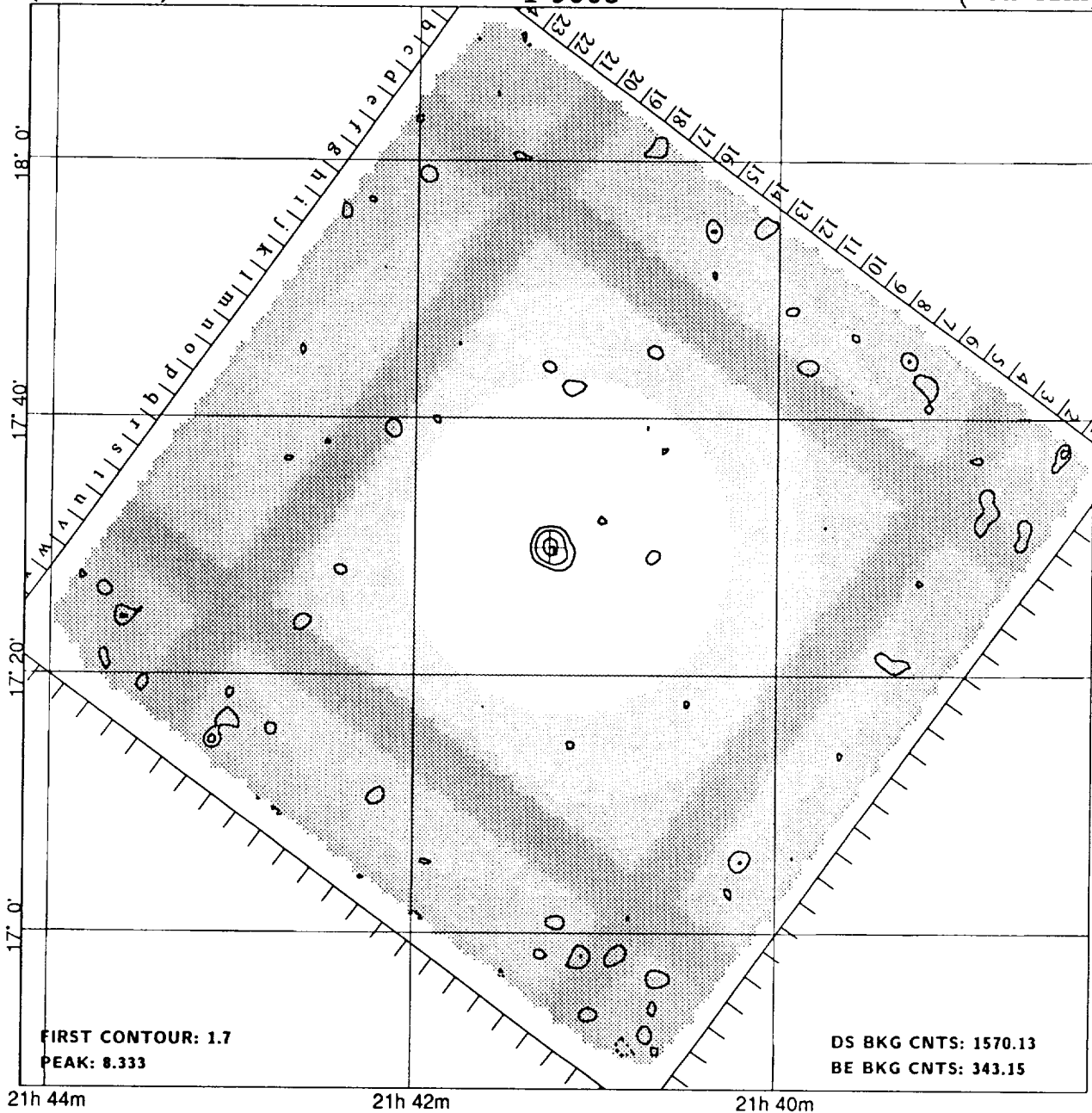
NH: $8.1\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4512	1	21 41 13.5	17 29 42	36	0.0321	0.0062	30.9	5.1	5.1	1.1	0	0.2	AH	Q

(21h 41m)

I 9668

(21h 41m)



21h 44m

21h 42m

21h 40m

QSO OX 169

FIELD CENTER: $21^{\text{h}}41^{\text{m}}12.7^{\text{s}}$ $17^{\circ}29'48''$ (B1950)
 $21^{\text{h}}43^{\text{m}}34.5^{\text{s}}$ $17^{\circ}43'35''$ (J2000)
 $l: 72.11$ $b: -26.08$

DATE: 1980/357 - 1980/357
 LIVETIME: 1272.3s
 ROLL ANGLE: 126.1°

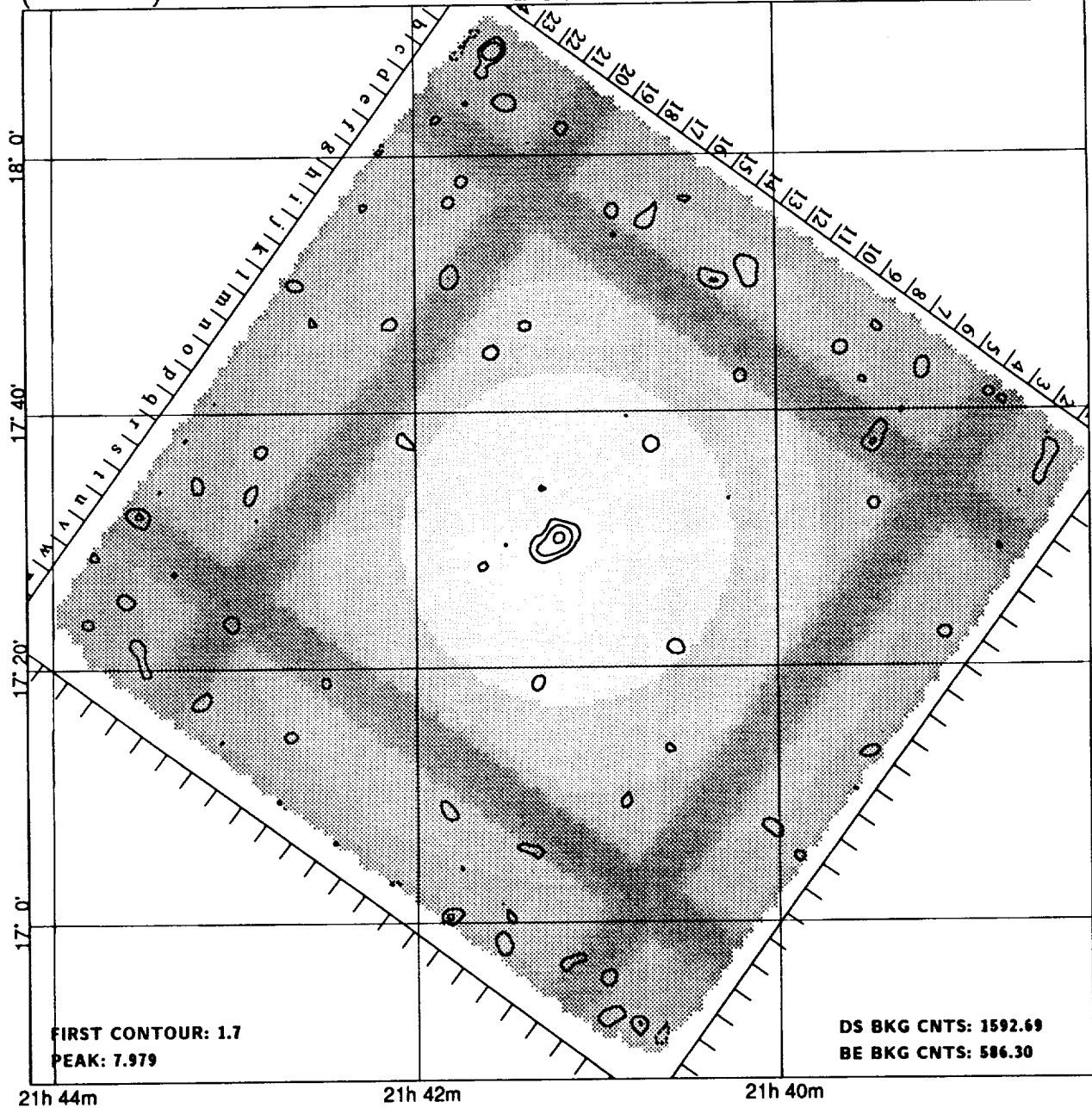
NH: $8.1\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4512	1	21 41 15.3	17 30 00	35	0.0391	0.0069	36.9	5.1	5.7	1.0	0	0.6	AH	Q

(21h 41m)

I 9672

(21h 41m)



FIRST CONTOUR: 1.7
PEAK: 7.979

DS BKG CNTS: 1592.69
BE BKG CNTS: 586.30

21h 44m

21h 42m

21h 40m

QSO OX 169

FIELD CENTER: 21^h41^m12.7^s 17°29'48" (B1950)
21^h43^m34.5^s 17°43'35" (J2000)
l: 72.11 b: -26.08

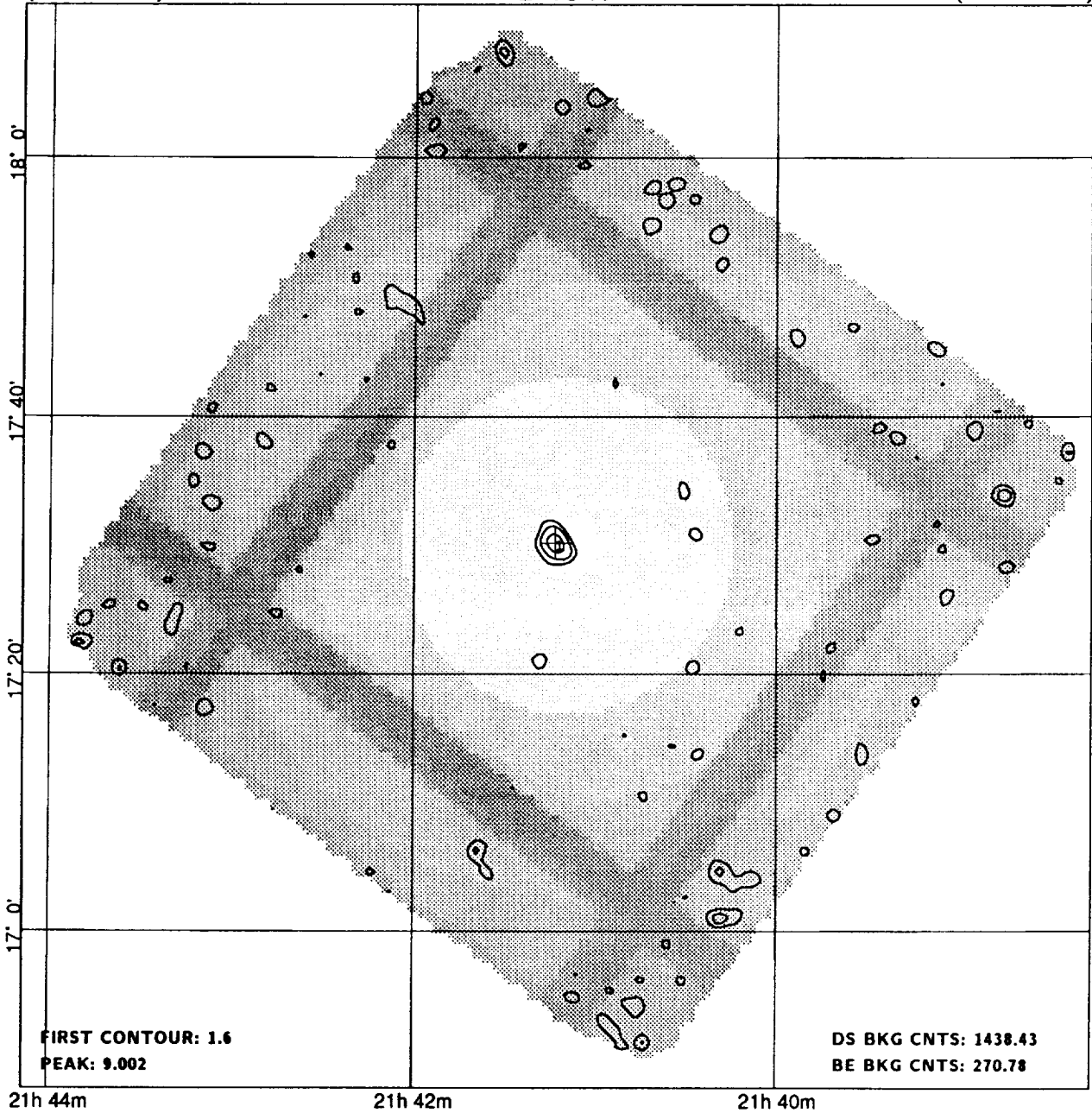
DATE: 1980/358 - 1980/358
LIVETIME: 1290.6s
ROLL ANGLE: 126.1°

NH: 8.1E+20
REF/ID:
FIELD FLAGS: CLS

(21h 41m)

I 4647

(21h 41m)



FIRST CONTOUR: 1.6
PEAK: 9.002

DS BKG CNTS: 1438.43
BE BKG CNTS: 270.78

21h 44m

21h 42m

21h 40m

QSO OX 169

FIELD CENTER: 21^h41^m12.8^s 17°29'48" (B1950)
21^h43^m34.6^s 17°43'35" (J2000)
l: 72.11 *b*: -26.08

DATE: 1980/357 - 1980/357
LIVETIME: 1165.6s

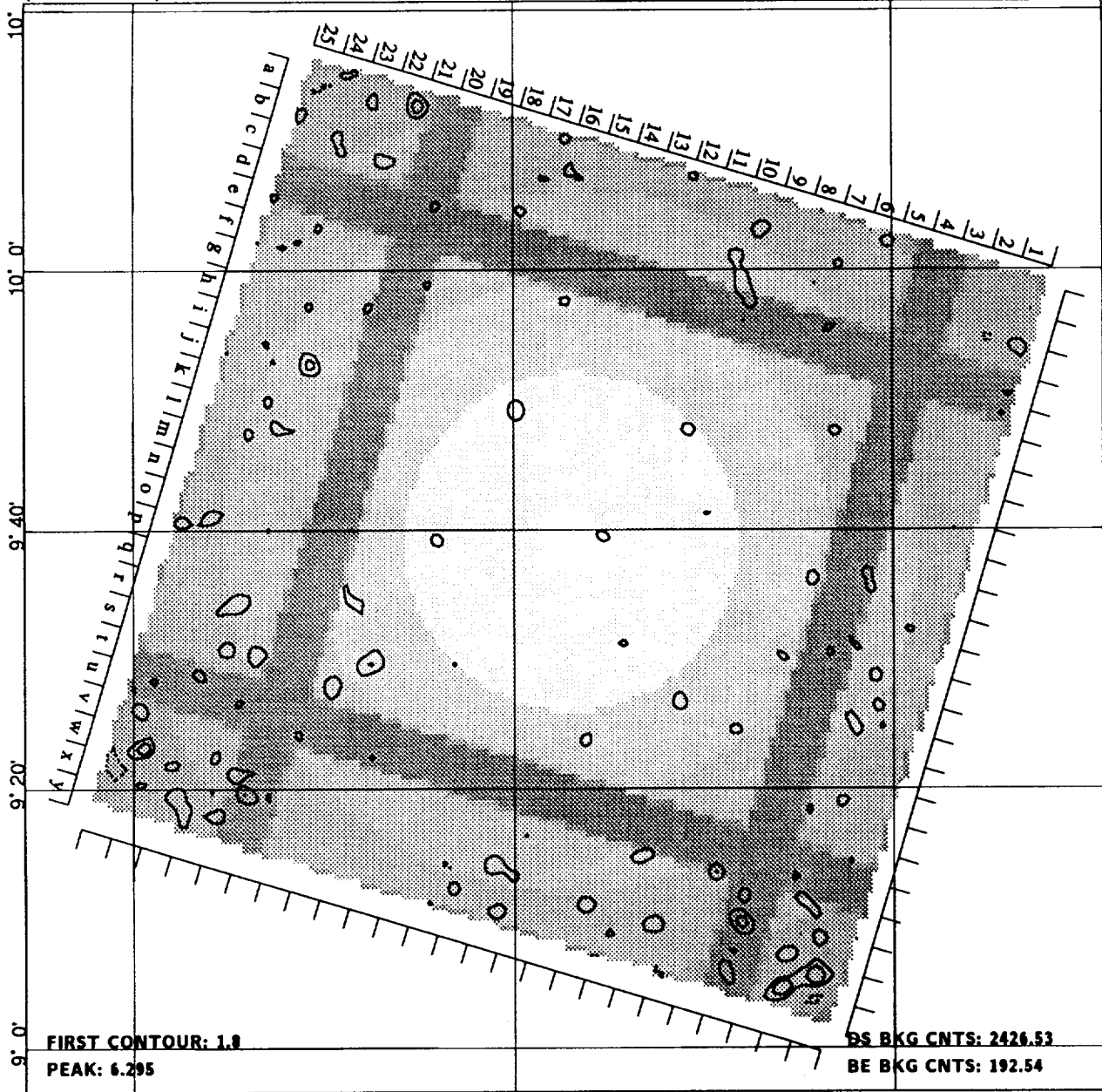
NH: 8.1E+20
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4512	1	21 41 13.2	17 30 09	35	0.0352	0.0068	30.5	4.5	5.2	0.9	0	0.4	AH	Q

(21h 41m)

I 4443

(21h 41m)



EPSILON PEG, CORRELLATION OF X RAYS WITH STELLAR WIND AND ROTATION

FIELD CENTER: 21^h41^m43.8^s 09°38'40" (B1950)
 21^h44^m11.1^s 09°52'29" (J2000)
 l : 65.57 b : -31.46

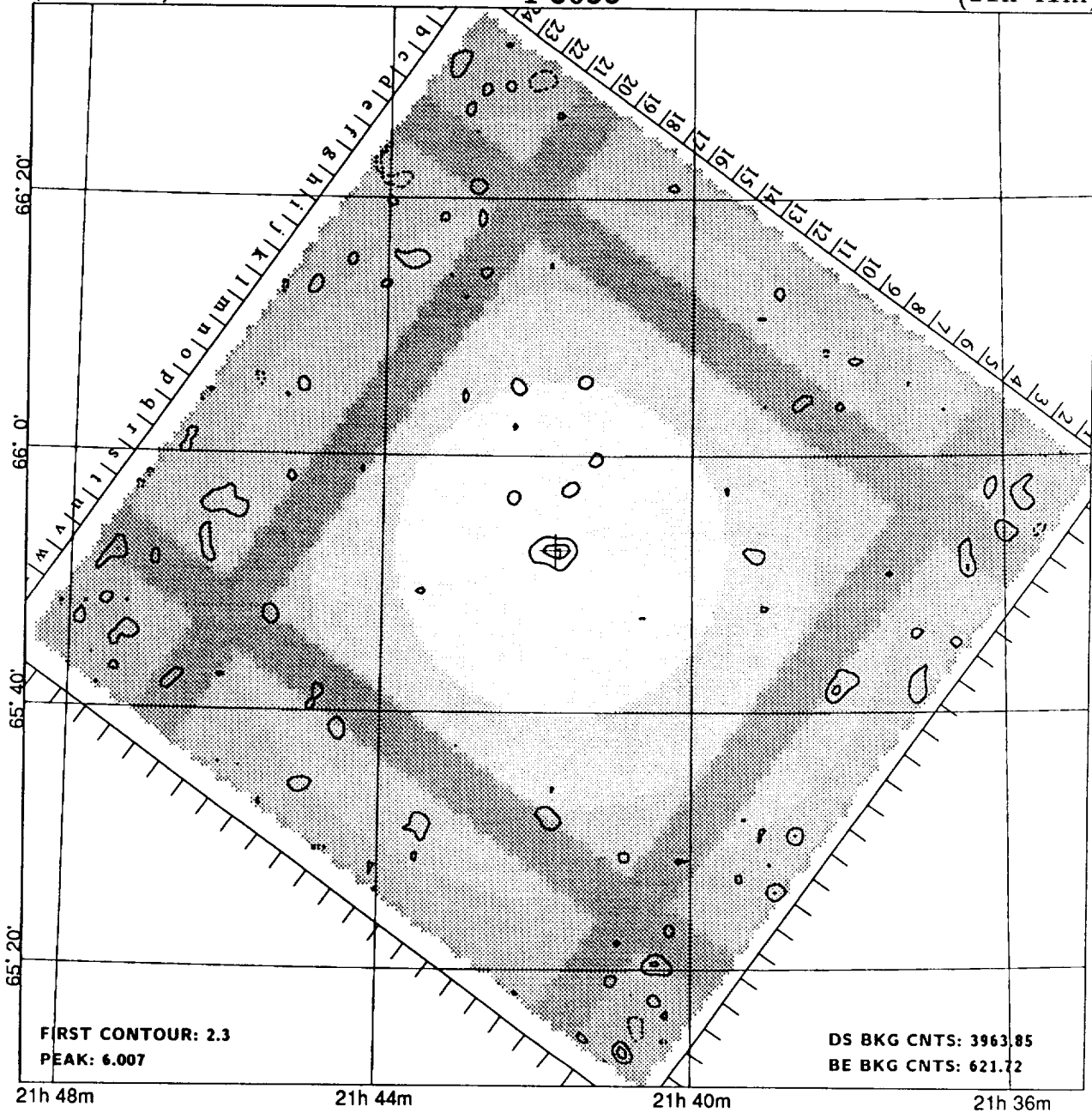
DATE: 1979/317 - 1979/317
 LIVETIME: 1966.3s
 ROLL ANGLE: 106.7°

NH: 5.1E+20
 REF/ID:
 FIELD FLAGS:

(21h 41m)

I 5038

(21h 41m)



BD+65D 1637,AE/BE STARS

FIELD CENTER: $21^{\text{h}}41^{\text{m}}44.7^{\text{s}}$ $65^{\circ}52'53''$ (B1950)
 $21^{\text{h}}42^{\text{m}}53.7^{\text{s}}$ $66^{\circ}06'40''$ (J2000)
 $l: 105.40$ $b: 9.89$

DATE: 1979/352 - 1979/352
 LIVETIME: 3212.0s
 ROLL ANGLE: 125.8°

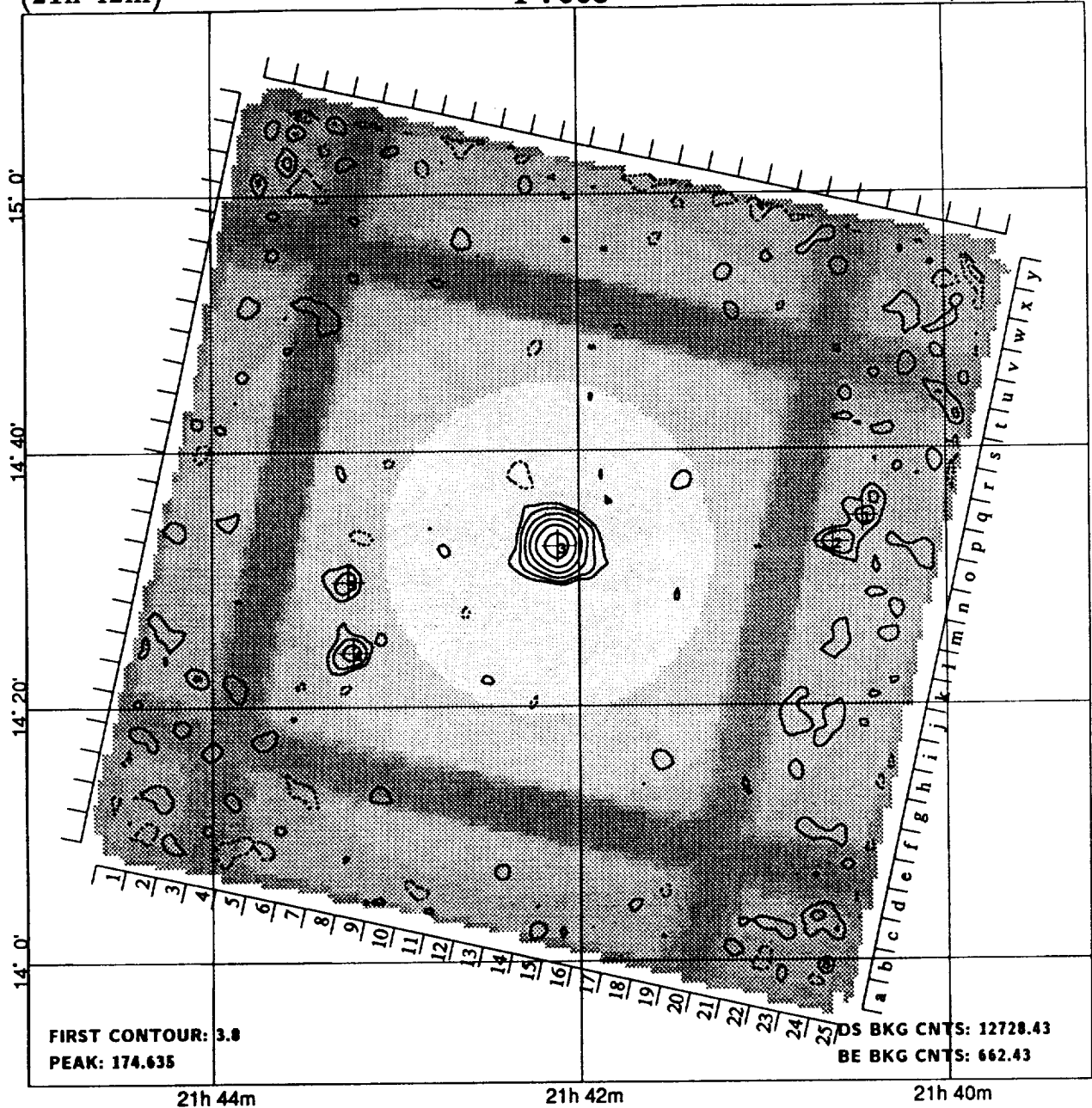
NH: $3.4\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4516	1	21 41 45.7	65 52 44	37	0.0090	0.0024	21.4	11.6	3.7	0.9	0	0.8	H

(21h 42m)

I 7605

(21h 42m)



HD 206860, VARIABILITY OF SELECTED LATE-TYPE STARS

FIELD CENTER: 21^h42^m06.8^s 14°32'35" (B1950)
 21^h44^m30.7^s 14°46'25" (J2000)
 $l: 69.86$ $b: -28.27$

DATE: 1980/128 - 1980/129
 LIVETIME: 10314.2s
 ROLL ANGLE: -77.6°

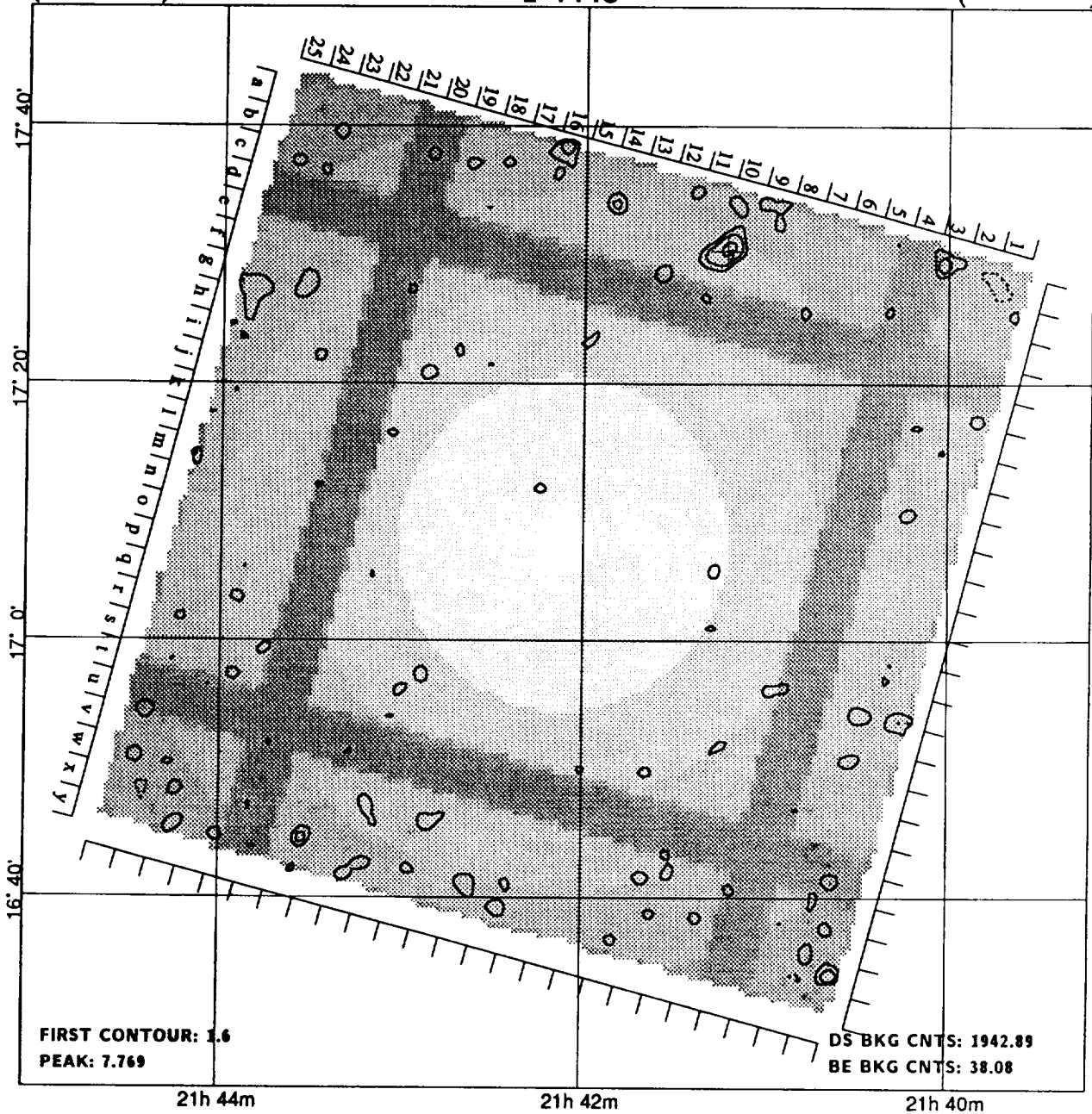
NH: 7.0E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4509	1	21 40 27.3	14 34 48	56	0.0054	0.0015	24.1	20.9	3.6	2.1	0	24.0	H
4510	2	21 40 36.9	14 32 45	52	0.0071	0.0015	34.6	21.4	4.6	1.7	300	21.7	
4518	3	21 42 07.0	14 32 34	31	0.1083	0.0038	831.6	33.4	28.3	1.5	0	0.2	H S
4521	4	21 43 14.1	14 24 19	50	0.0104	0.0016	58.9	26.1	6.4	1.0	0	18.3	H
4523	5	21 43 15.7	14 29 49	52	0.0056	0.0013	33.1	25.9	4.3	0.8	0	17.2	H

(21h 42m)

I 4445

(21h 42m)



9 PEG, CORRELLATION OF X RAYS WITH STELLAR WIND AND ROTATION

FIELD CENTER: 21^h42^m08.7^s 17°07'10" (B1950)
 21^h44^m30.9^s 17°21'00" (J2000)
 l : 71.98 b : -26.51

DATE: 1979/316 - 1979/316
 LIVETIME: 1574.4s
 ROLL ANGLE: 104.9°

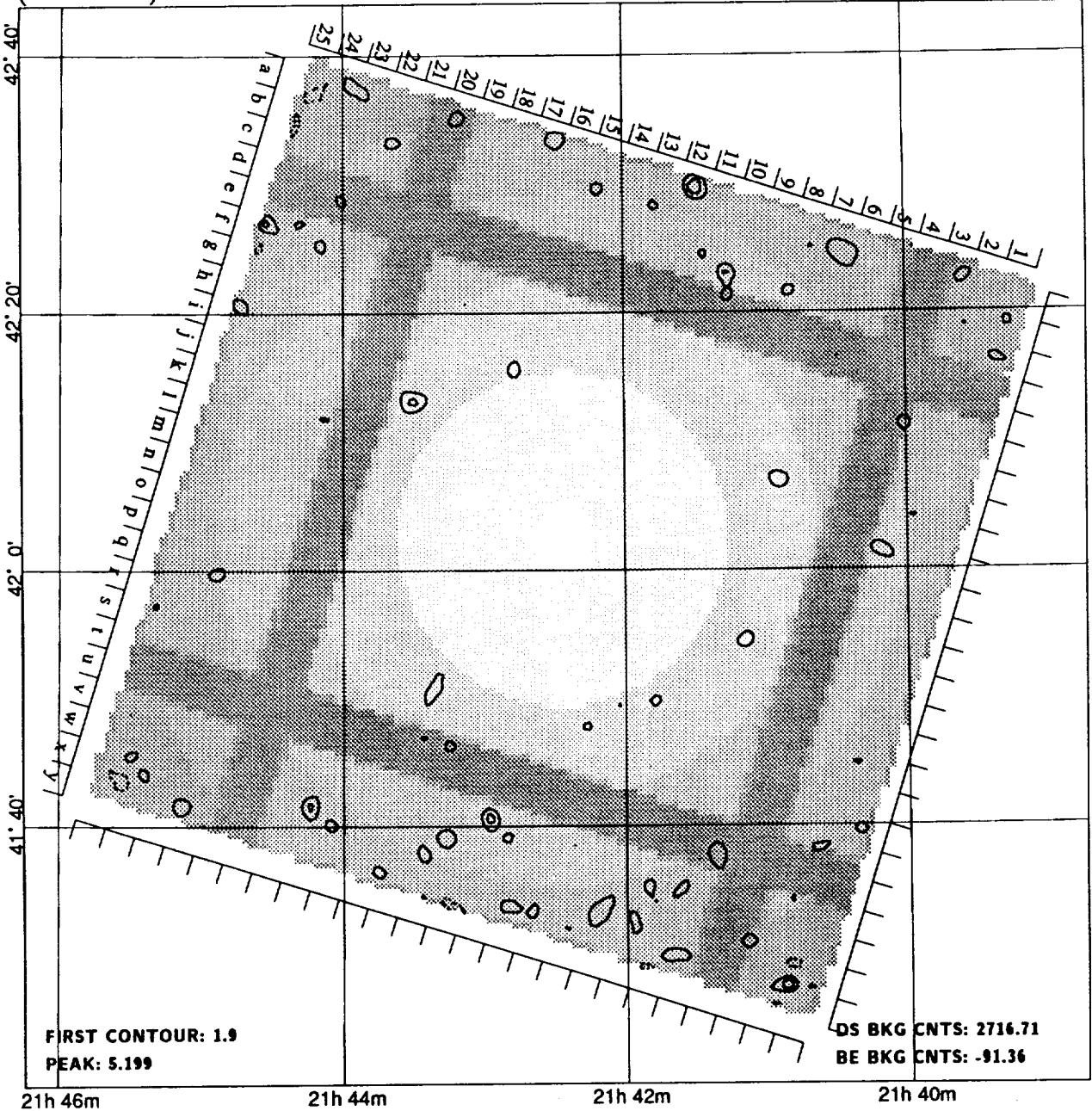
NH: 8.0E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC	ID
4512	1	21 41 13.0	17 30 10	55	0.0258	0.0068	16.9	3.1	3.8	1.0	0	26.2	AH	Q

(21h 42m)

I 5671

(21h 42m)



NOVA CYG 1978, X-RAYS FROM RECENT NOVAE

FIELD CENTER: 21^h42^m29.8^s 42°01'59" (B1950)
 21^h44^m29.6^s 42°15'49" (J2000)
 l : 89.93 b : -8.32

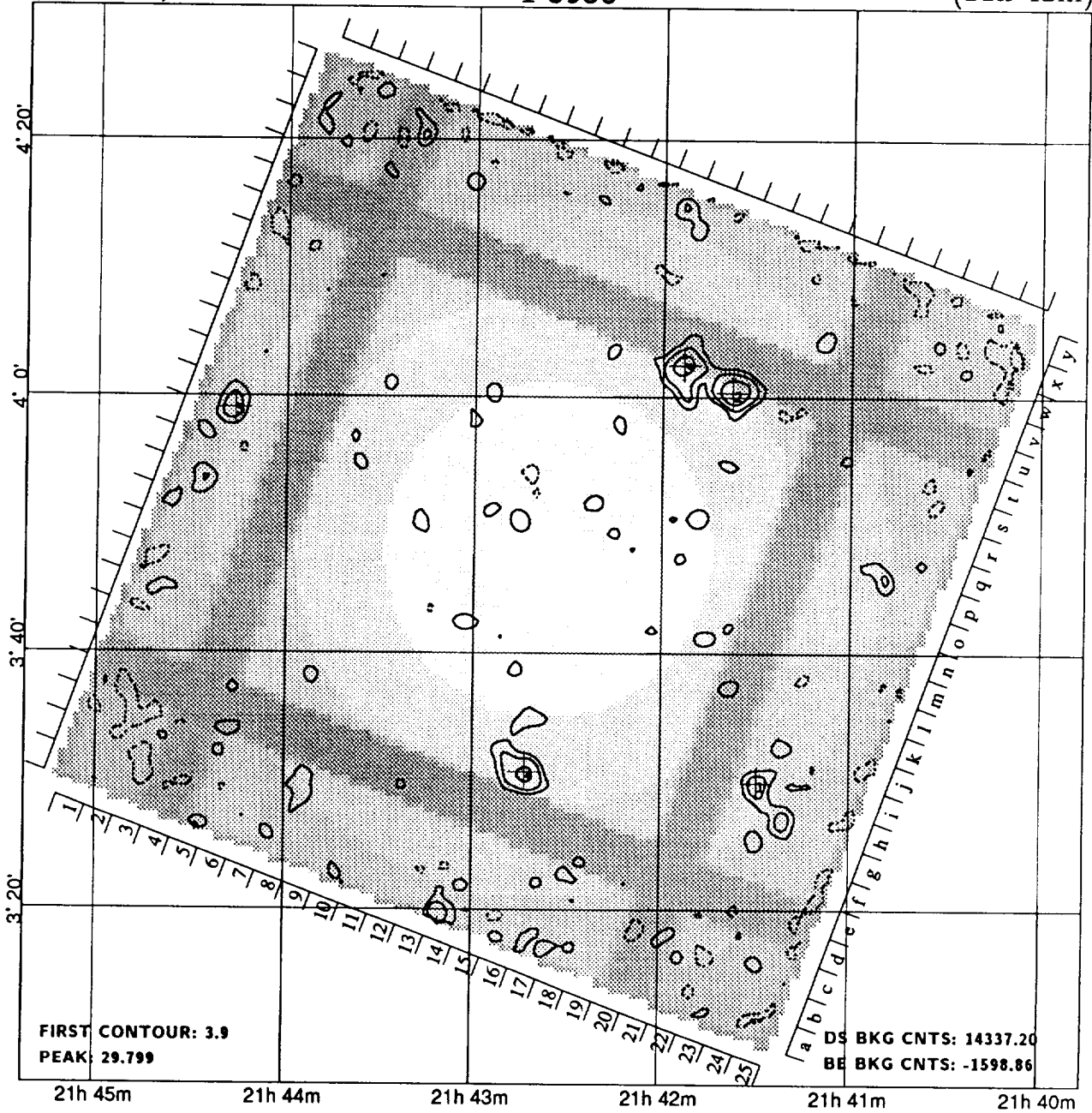
DATE: 1979/327 - 1979/327
 LIVETIME: 2201.4s
 ROLL ANGLE: 107.3°

NH: 2.6E+21
 REF/ID:
 FIELD FLAGS:

(21h 42m)

I 3958

(21h 42m)



CLUSTER EVOLUTION (Z=0.55)

FIELD CENTER: $21^h 42^m 34.4^s$ $03^{\circ} 48' 18''$ (B1950)
 $21^h 45^m 05.6^s$ $04^{\circ} 02' 09''$ (J2000)
 $l: 60.31$ $b: -35.31$

DATE: 1979/141 - 1979/142
 LIVETIME: 11617.8s
 ROLL ANGLE: -69.7°

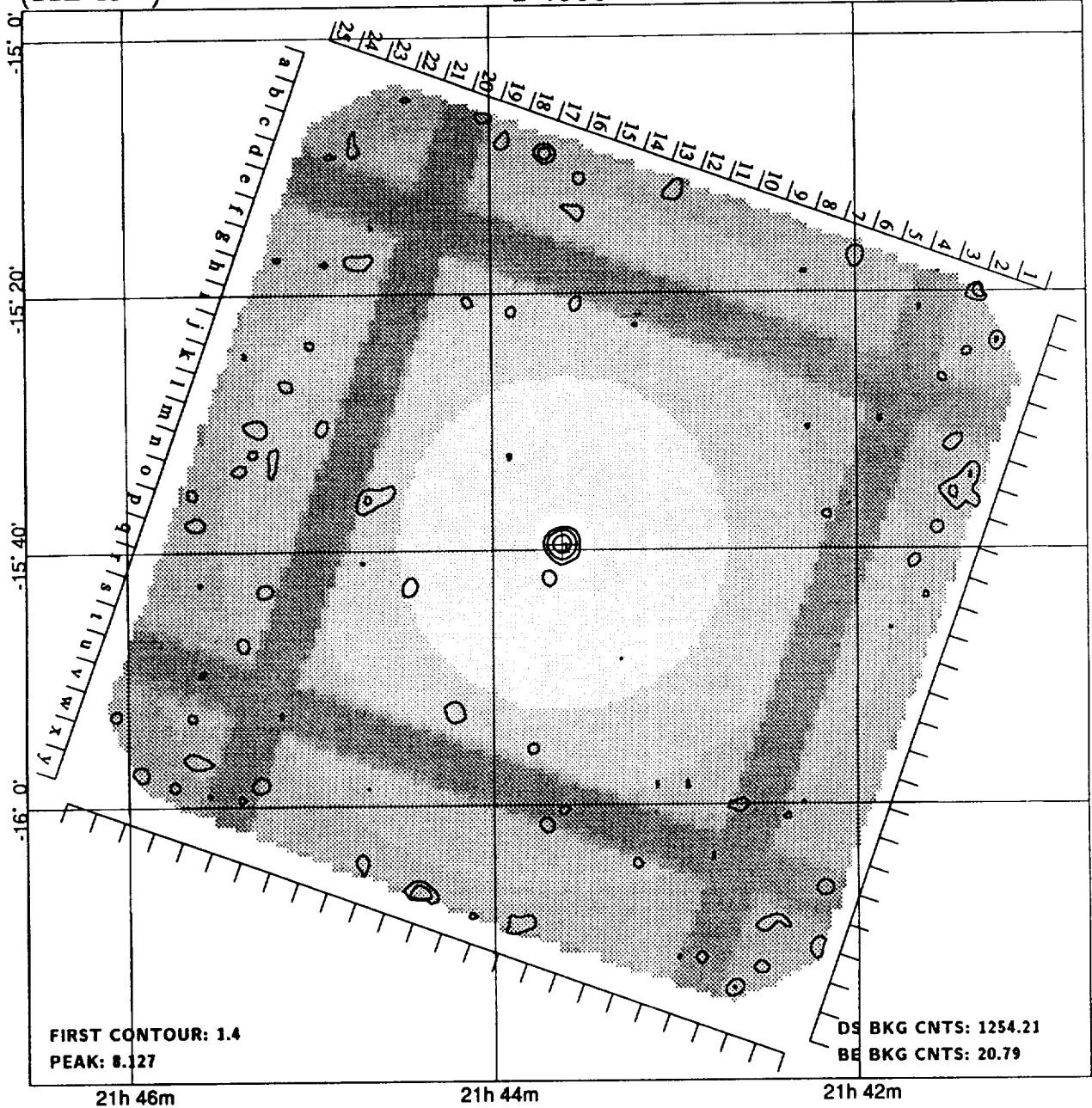
NH: $5.4E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE ±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4513	1	21 41 29.2	03 29 53	55	0.0052 0.0013	26.3	17.7	4.0	1.4	400	24.4	H	
4515	2	21 41 37.8	04 00 20	50	*0.0126 0.0016	76.8	20.2	7.8	2.2	703	18.5	H	AGN
4517	3	21 41 53.4	04 02 28	50	*0.0109 0.0015	68.9	23.1	7.2	2.9	907	17.6	H	Q
4519	4	21 42 43.2	03 30 43	50	0.0096 0.0014	61.7	20.3	6.8	1.2	300	17.6	H	
4526	5	21 44 16.5	03 59 06	57	0.0062 0.0015	28.2	19.8	4.1	0.8	0	27.7	H	

(21h 43m)

I 4000

(21h 43m)



2143-156, OPTICALLY-QUIET COMPACT RADIO SOURCE

FIELD CENTER: $21^{\text{h}}43^{\text{m}}38.6^{\text{s}}$ $-15^{\circ}39'34''$ (B1950)
 $21^{\text{h}}46^{\text{m}}22.7^{\text{s}}$ $-15^{\circ}25'41''$ (J2000)
 $l: 38.44$ $b: -45.59$

DATE: 1979/311 - 1979/311
 LIVETIME: 1016.3s
 ROLL ANGLE: 109.5°

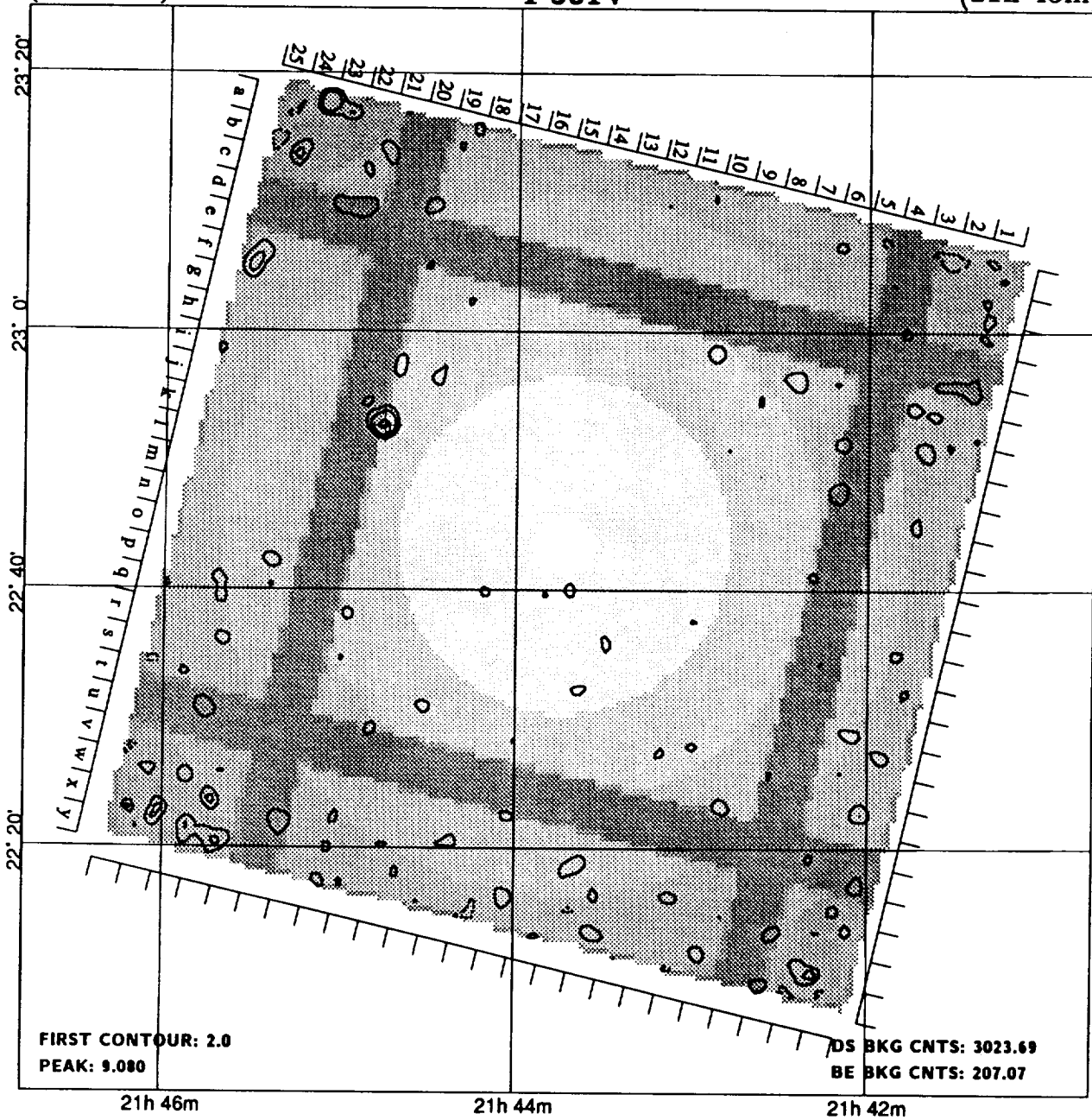
NH: $4.2\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4525	1	21 43 37.2	-15 39 36	35	0.0368	0.0073	28.0	3.0	5.0	0.8	0	0.2	H	

(21h 43m)

I 3814

(21h 43m)



21h 46m

21h 44m

21h 42m

12 PEG CORONA

FIELD CENTER: $21^{\text{h}}43^{\text{m}}45.8^{\text{s}}$ $22^{\circ}42'59''$ (B1950)
 $21^{\text{h}}46^{\text{m}}04.0^{\text{s}}$ $22^{\circ}56'53''$ (J2000)
 $l: 76.64$ $b: -22.83$

DATE: 1979/316 - 1979/316
 LIVETIME: 2450.2s
 ROLL ANGLE: 103.1°

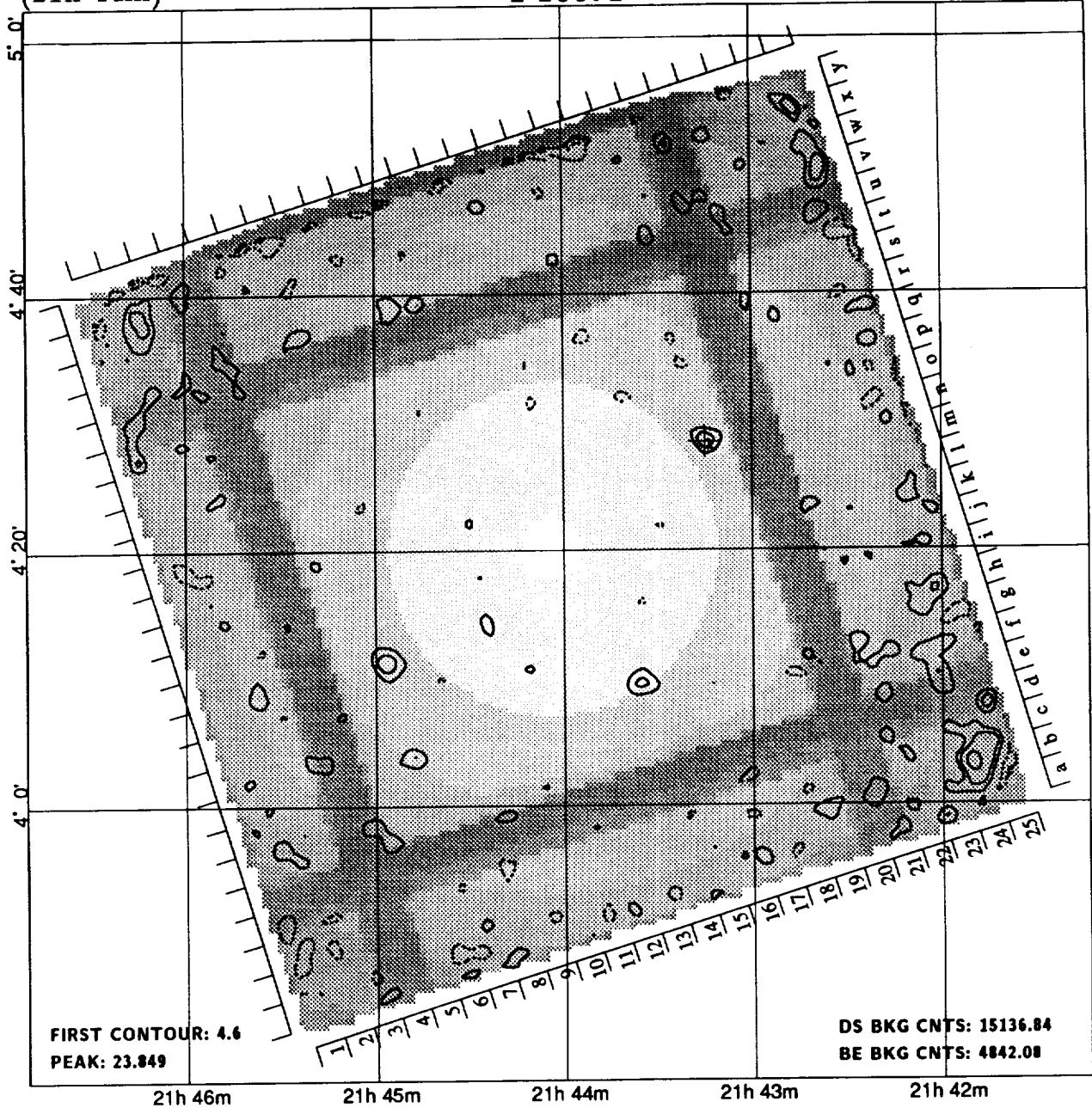
NH: $6.4\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	ID
4527	1	21 44 45.4	22 52 43	51	*0.0144	0.0037	19.7	5.3	3.9	0.7	806	16.8		

(21h 44m)

I 10671

(21h 44m)



FIRST CONTOUR: 4.6
PEAK: 23.849

DS BKG CNTS: 15136.84
BE BKG CNTS: 4842.08

HIGH Z CLUSTERS: SUBSTITUTE TARGET

FIELD CENTER: $21^{\text{h}}44^{\text{m}}01.8^{\text{s}}$ $04^{\circ}20'30''$ (B1950)
 $21^{\text{h}}46^{\text{m}}32.7^{\text{s}}$ $04^{\circ}34'25''$ (J2000)
 $l: 61.10$ $b: -35.27$

DATE: 1981/111 - 1981/111
 LIVETIME: 12265.8s
 ROLL ANGLE: -107.3°

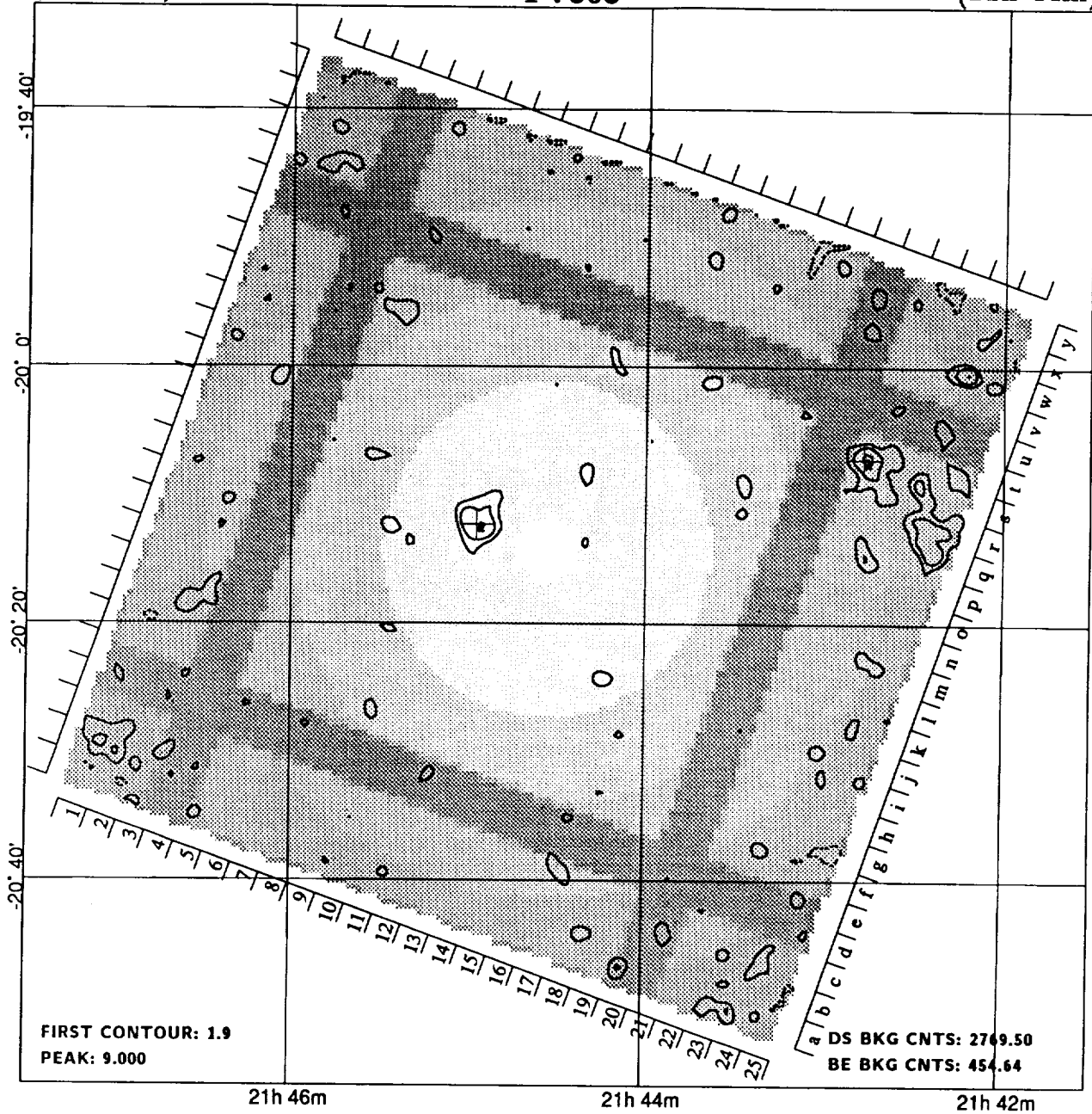
NH: $5.4\text{E}+20$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4522	1L	21 43 14.9	04 28 29	42	0.0061	0.0015	44.5	34.5	4.0	0.6	100	14.1	

(21h 44m)

I 7803

(21h 44m)



A2378, CLUSTERS OF GALAXIES SURVEY

FIELD CENTER: $21^{\text{h}}44^{\text{m}}29.8^{\text{s}}$ $-20^{\circ}13'59''$ (B1950)
 $21^{\text{h}}47^{\text{m}}17.1^{\text{s}}$ $-20^{\circ}00'04''$ (J2000)
 $l: 32.34$ $b: -47.43$

DATE: 1980/131 - 1980/131
 LIVETIME: 2324.8s
 ROLL ANGLE: -70.5°

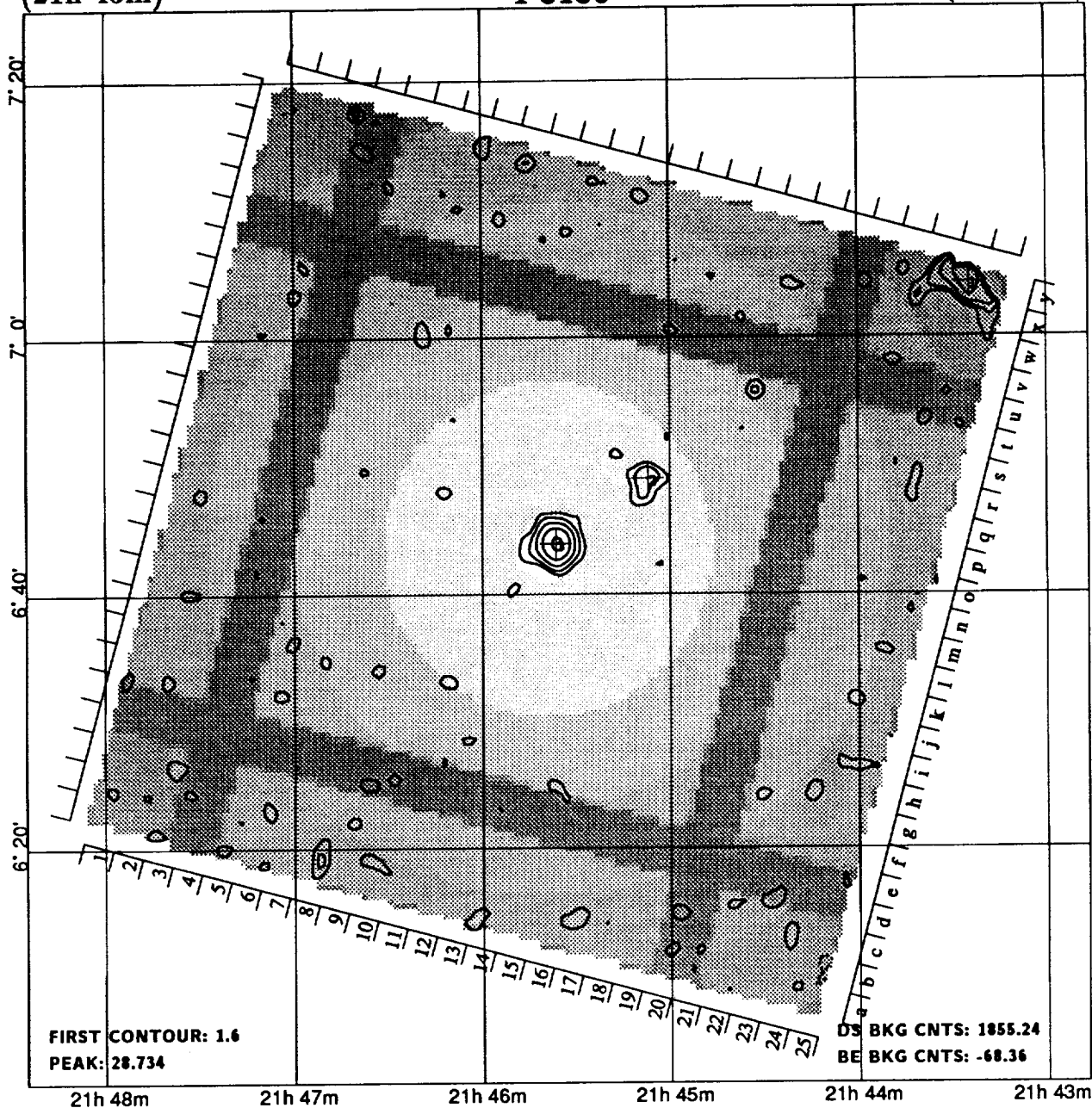
NH: $3.0\text{E}+20$
 REF/ID: !
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4520	1	21 42 46.7	-20 07 10	55	*0.0191	0.0050	18.5	4.5	3.8	1.3	702	25.1	H	
4528	2	21 44 57.2	-20 12 15	41	0.0235	0.0042	38.5	8.5	5.6	1.3	0	6.8	H	CLG

(21h 45m)

I 5130

(21h 45m)



FIRST CONTOUR: 1.6
PEAK: 28.734

DS BKG CNTS: 1855.24
BE BKG CNTS: -68.36

21h 48m

21h 47m

21h 46m

21h 45m

21h 44m

21h 43m

QSO PKS2145+067

FIELD CENTER: 21^h45^m35.9^s 06°43'40" (B1950)
21^h48^m05.2^s 06°57'38" (J2000)
 l : 63.66 b : -34.07

DATE: 1980/126 - 1980/126
LIVETIME: 1557.3s
ROLL ANGLE: -75.0°

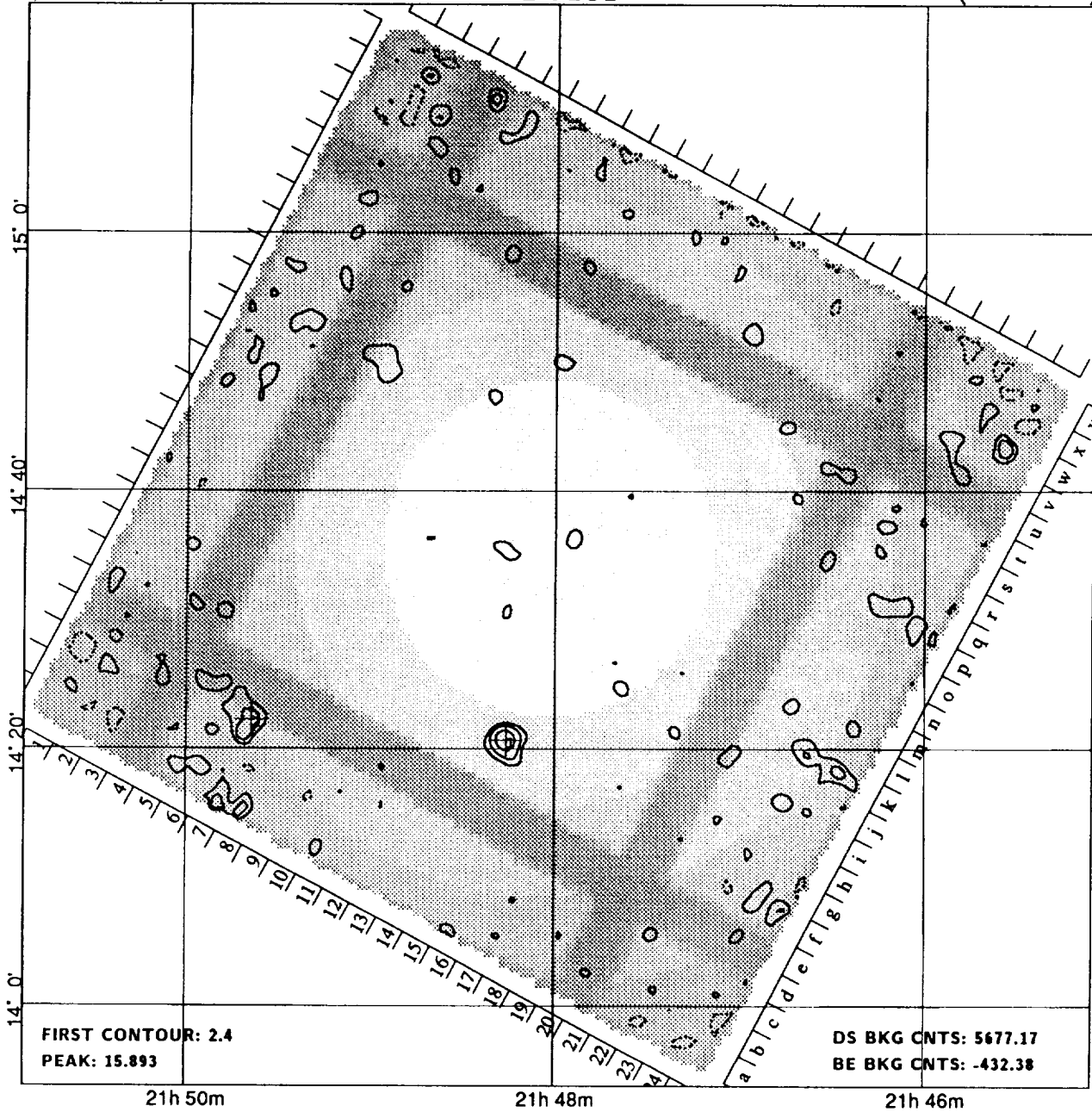
NH: 4.8E+20
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4524	1	21 43 24.5	07 04 11	51	0.081	0.017	24.8	2.2	4.8	1.5	600	38.4	EH
4529	2	21 45 06.9	06 48 57	43	0.0183	0.0046	19.0	4.0	4.0	1.0	0	8.7	H
4530	3	21 45 36.4	06 43 54	31	0.1017	0.0095	117.8	4.2	10.7	1.2	0	0.4	H Q

(21h 47m)

I 7181

(21h 47m)



2147+14, BURSTING RADIO SOURCE

FIELD CENTER: $21^h 47^m 59.3^s$ $14^\circ 35' 42''$ (B1950)
 $21^h 50^m 23.6^s$ $14^\circ 49' 46''$ (J2000)
 $l: 71.01$ $b: -29.27$

DATE: 1980/159 - 1980/162
 LIVETIME: 4600.4s
 ROLL ANGLE: -62.0°

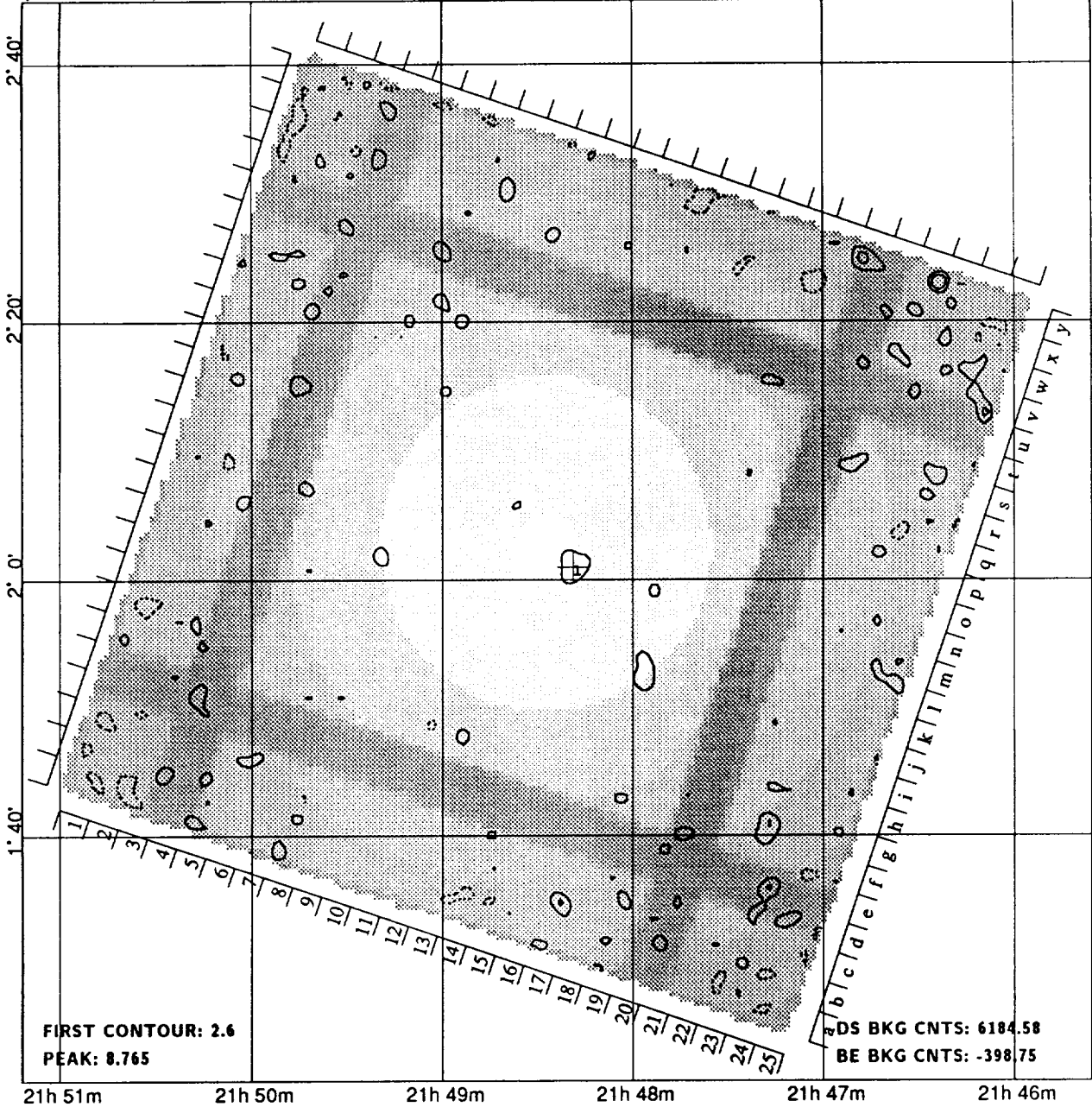
NH: $6.5E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4531	1	21 48 15.8	14 20 40	50	0.0161	0.0027	43.6	9.4	6.0	1.0	0	15.6	H
4535	2	21 49 38.8	14 22 13	56	*0.0110	0.0029	20.1	7.9	3.8	1.3	905	27.4	H

(21h 48m)

I 6044

(21h 48m)



A2381,RICH CLUSTERS WITH DOMINANT GALAXIES

FIELD CENTER: 21^h48^m23.7^s 02°02'59" (B1950)
 21^h50^m56.2^s 02°17'04" (J2000)
 $l: 59.68$ $b: -37.54$

DATE: 1980/133 - 1980/137
 LIVETIME: 5011.5s
 ROLL ANGLE: -71.4°

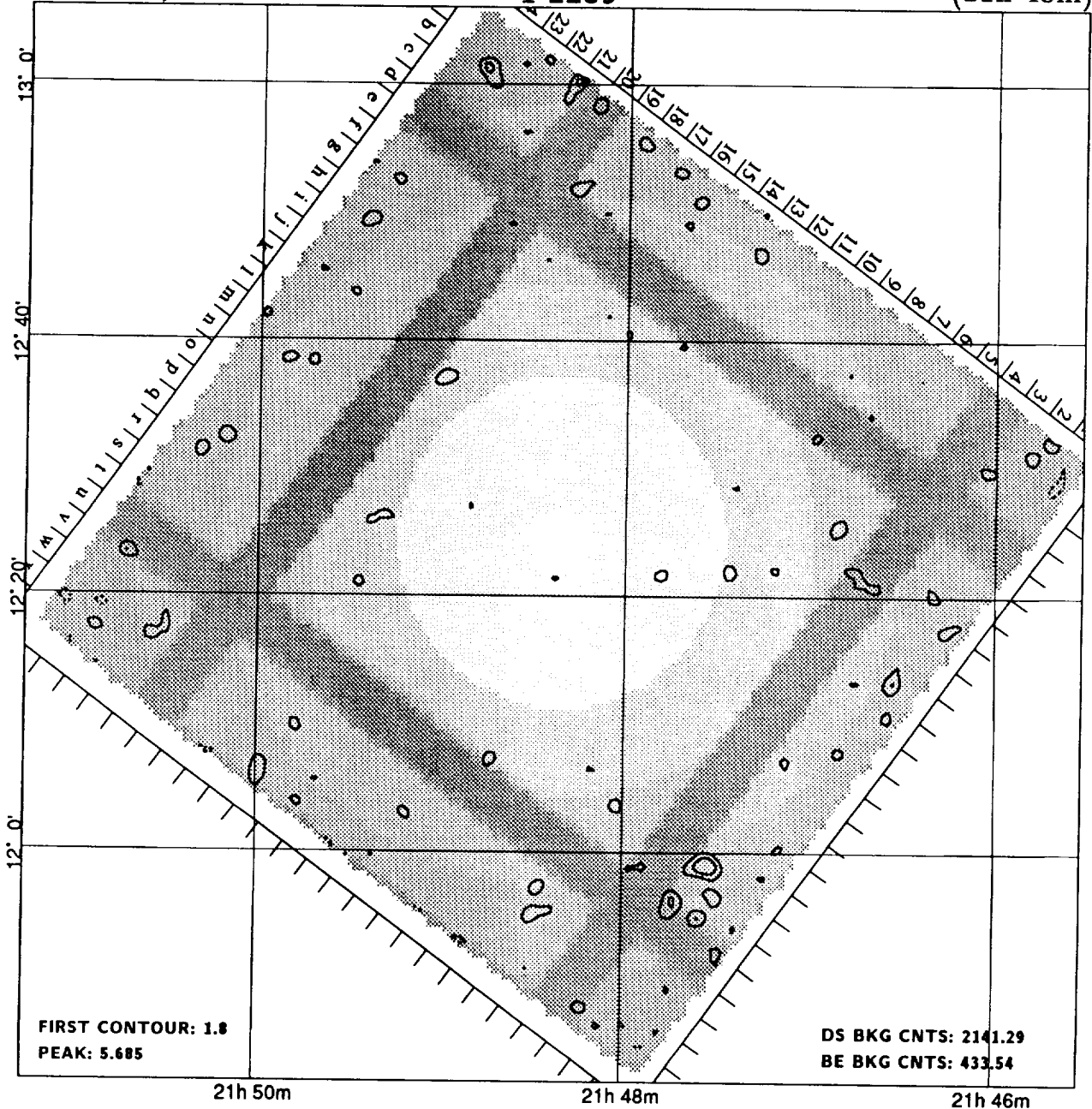
NH: 5.4E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4532	1	21 48 18.8	02 00 57	41	0.0064	0.0017	23.4	14.6	3.8	0.7	0	2.8	H

(21h 48m)

I 2289

(21h 48m)



STELLAR SURVEY-SYMBIOTIC STARS: AG PEG

FIELD CENTER: $21^{\text{h}}48^{\text{m}}23.7^{\text{s}}$ $12^{\circ}23'59''$ (B1950)
 $21^{\text{h}}50^{\text{m}}49.5^{\text{s}}$ $12^{\circ}38'04''$ (J2000)
 $l: 69.25$ $b: -30.84$

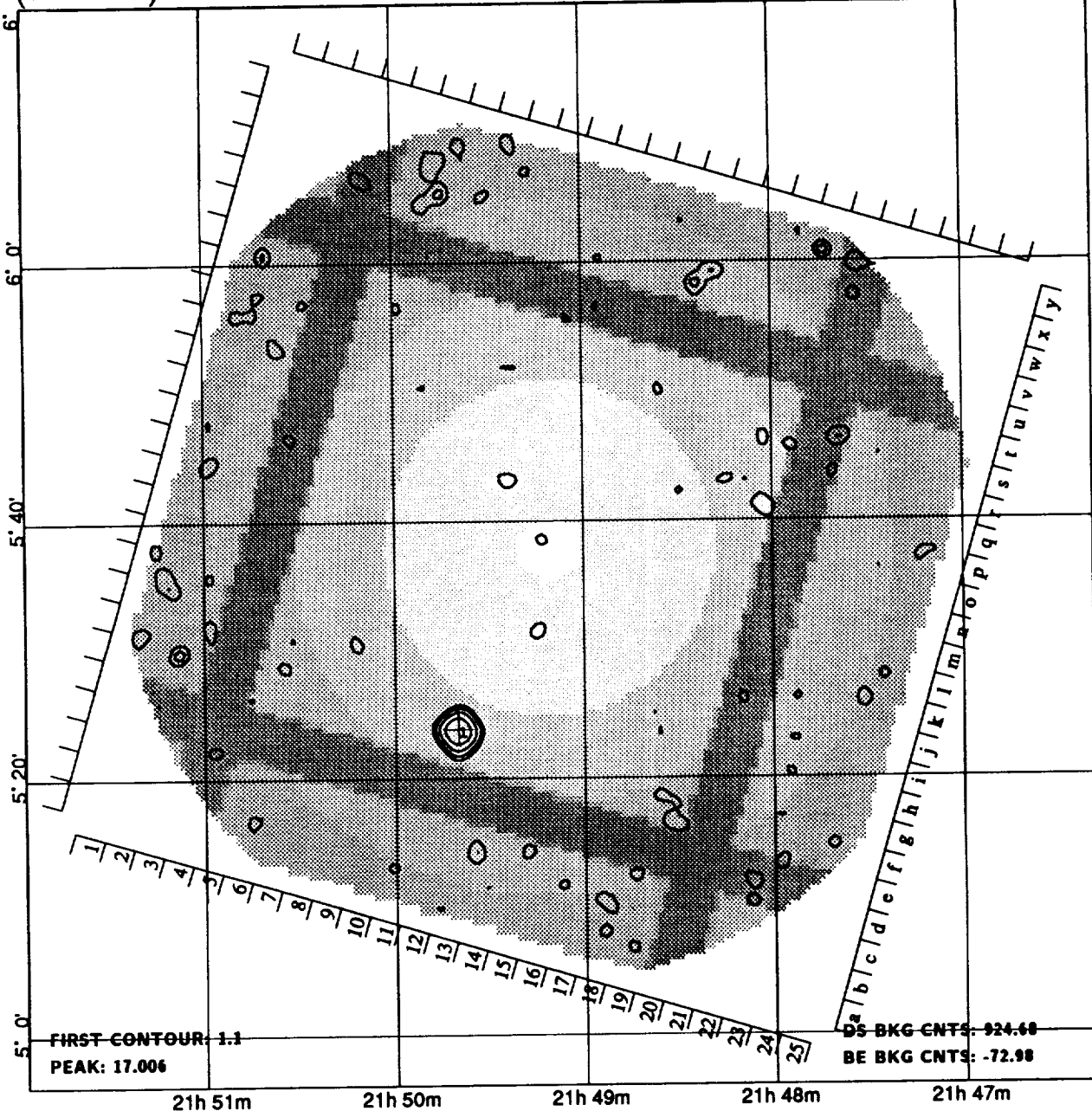
DATE: 1980/358 - 1980/358
 LIVETIME: 1735.1s
 ROLL ANGLE: 126.1°

NH: $6.3\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(21h 49m)

I 3990

(21h 49m)



2149+056, OPTICALLY-QUIET COMPACT RADIO SOURCE

FIELD CENTER: 21^h49^m07.6^s 05°38'05" (B1950)
 21^h51^m37.7^s 05°52'12" (J2000)
 l : 63.31 b : -35.44

DATE: 1979/139 - 1979/139
 LIVETIME: 749.3s
 ROLL ANGLE: -73.7°

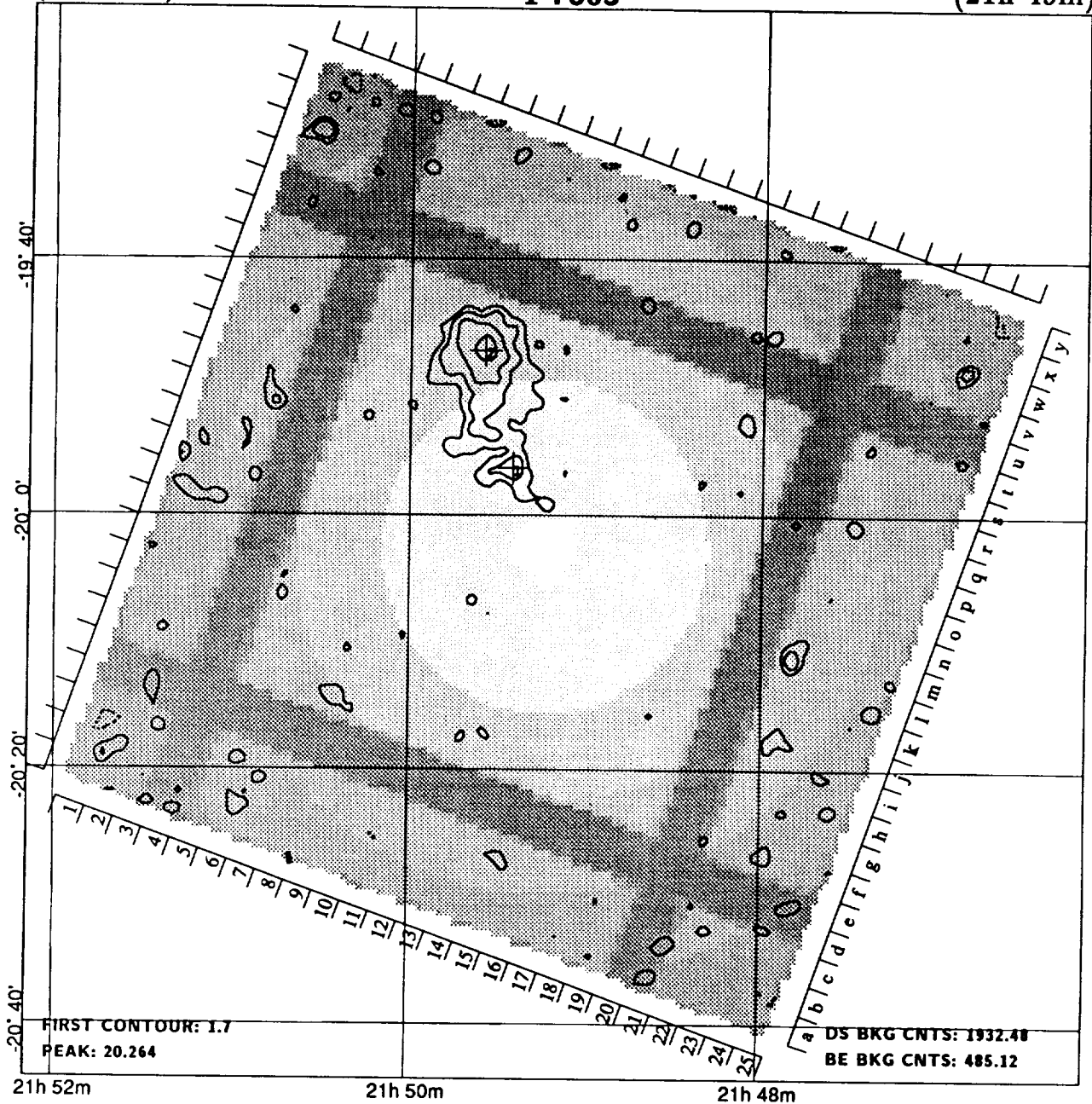
NH: 4.9E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4536	1	21 49 40.1	05 23 49	50	0.121	0.017	52.2	1.8	7.1	1.0	0	16.6	H

(21h 49m)

I 7805

(21h 49m)



A2384, CLUSTERS OF GALAXIES SURVEY

FIELD CENTER: $21^{\text{h}}49^{\text{m}}09.9^{\text{s}}$ $-20^{\circ}02'23''$ (B1950)
 $21^{\text{h}}51^{\text{m}}56.6^{\text{s}}$ $-19^{\circ}48'16''$ (J2000)
 $l: 33.15$ $b: -48.41$

DATE: 1980/134 - 1980/134
 LIVETIME: 1565.9s
 ROLL ANGLE: -70.4°

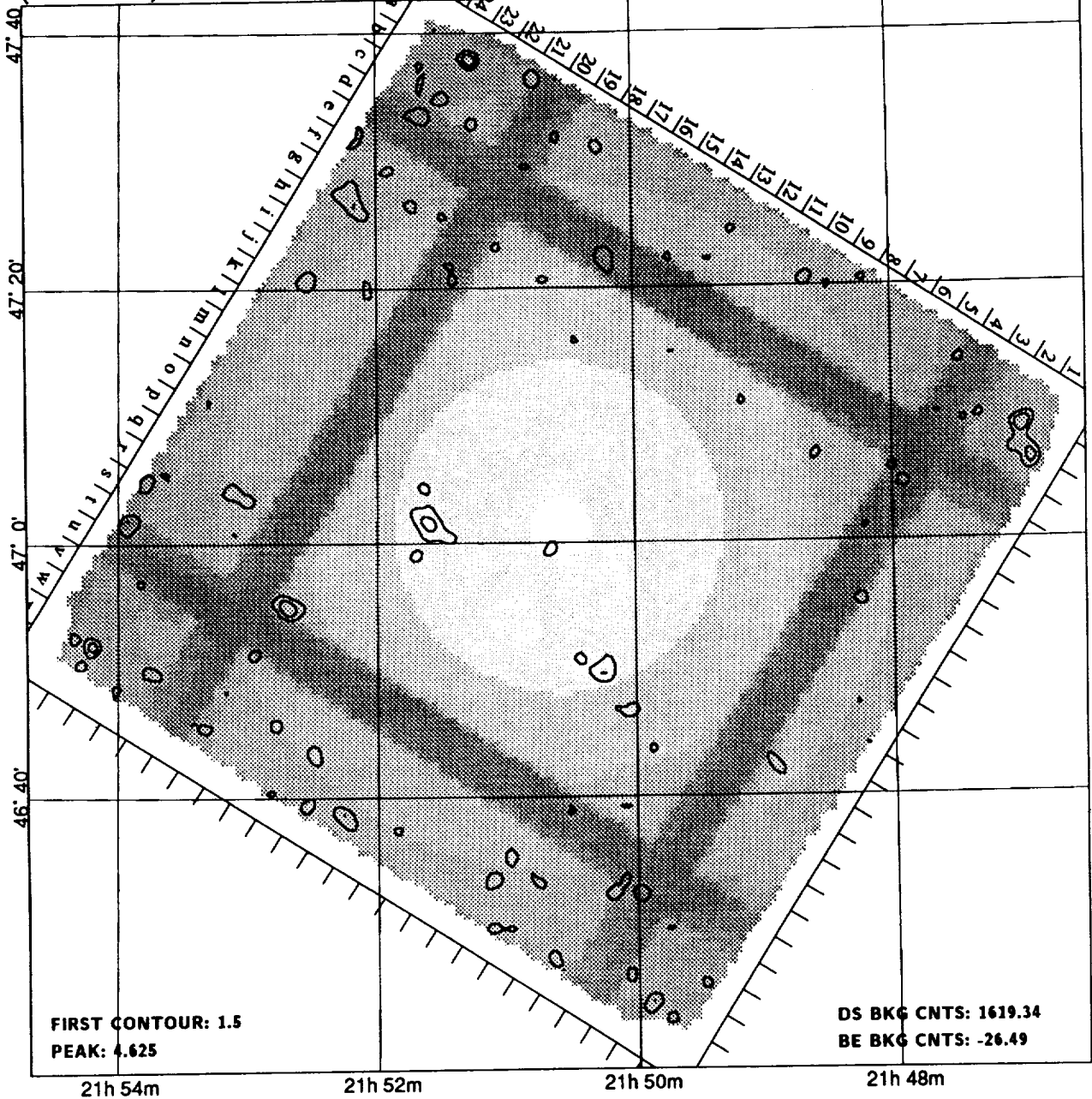
NH: $2.9\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4533	1	21 49 25.0	-19 56 18	42	0.0188	0.0048	20.5	6.5	3.9	14.3	0	7.2		
4534	2	21 49 34.7	-19 47 12	50	0.0697	0.0091	62.5	4.5	7.6	3.6	0	16.2	H	CLG

(21h 50m)

I 5039

(21h 50m)



FIRST CONTOUR: 1.5
PEAK: 4.625

DS BKG CNTS: 1619.34
BE BKG CNTS: -26.49

BD+46D 3471, AE/BE STARS

FIELD CENTER: 21^h50^m36.5^s 47°00'42" (B1950)
21^h52^m32.0^s 47°14'51" (J2000)
l: 94.26 b: -5.42

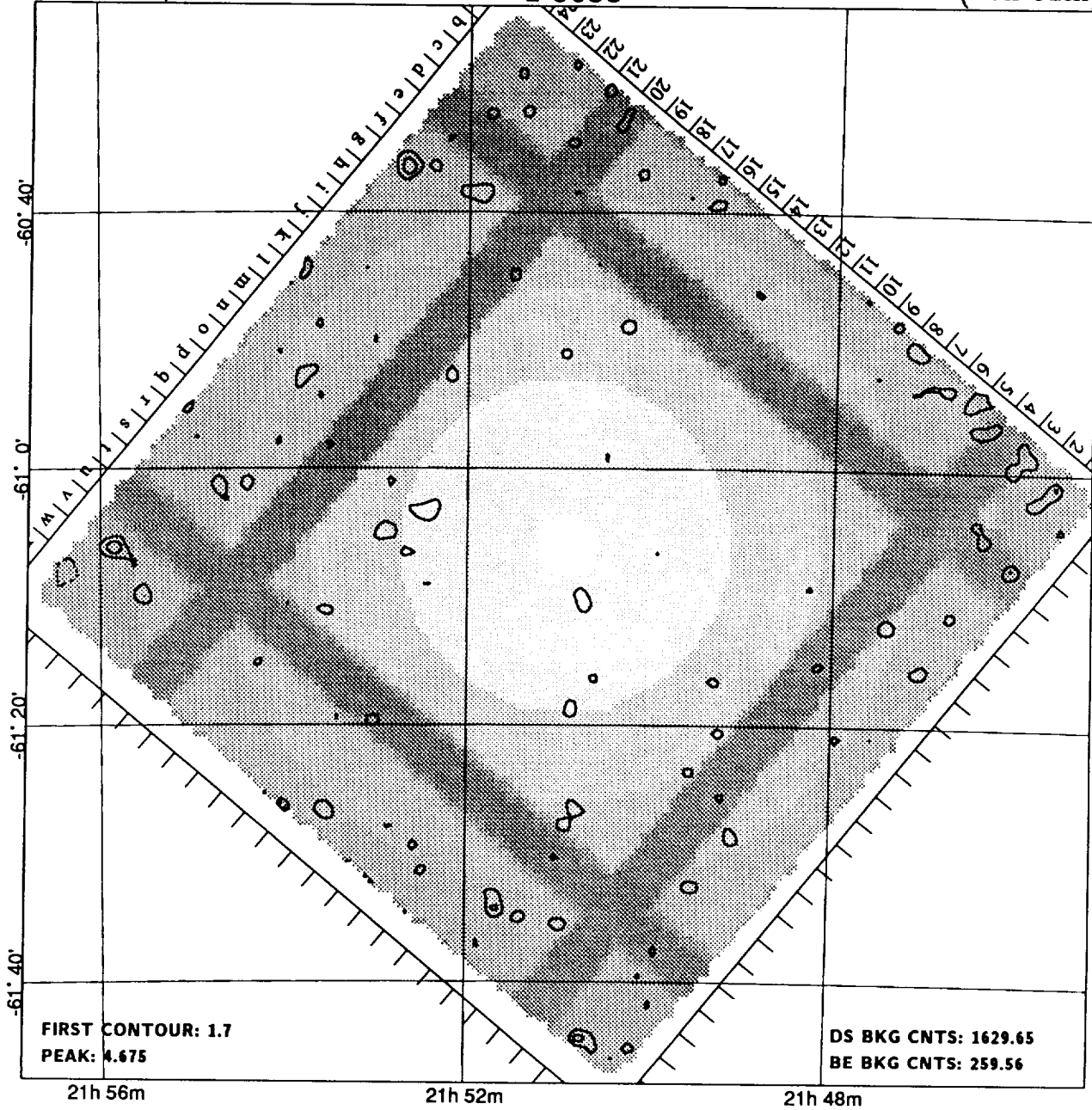
DATE: 1979/352 - 1979/352
LIVETIME: 1312.2s
ROLL ANGLE: 122.1°

NH: 2.9E+21
REF/ID:
FIELD FLAGS:

(21h 51m)

I 3638

(21h 51m)



2A 2155-609, UNIDENTIFIED HIGH LATITUDE SOURCE

FIELD CENTER: 21^h51^m00.0^s -61°05'59" (B1950)
 21^h54^m37.2^s -60°51'47" (J2000)
 l : 331.70 b : -45.15

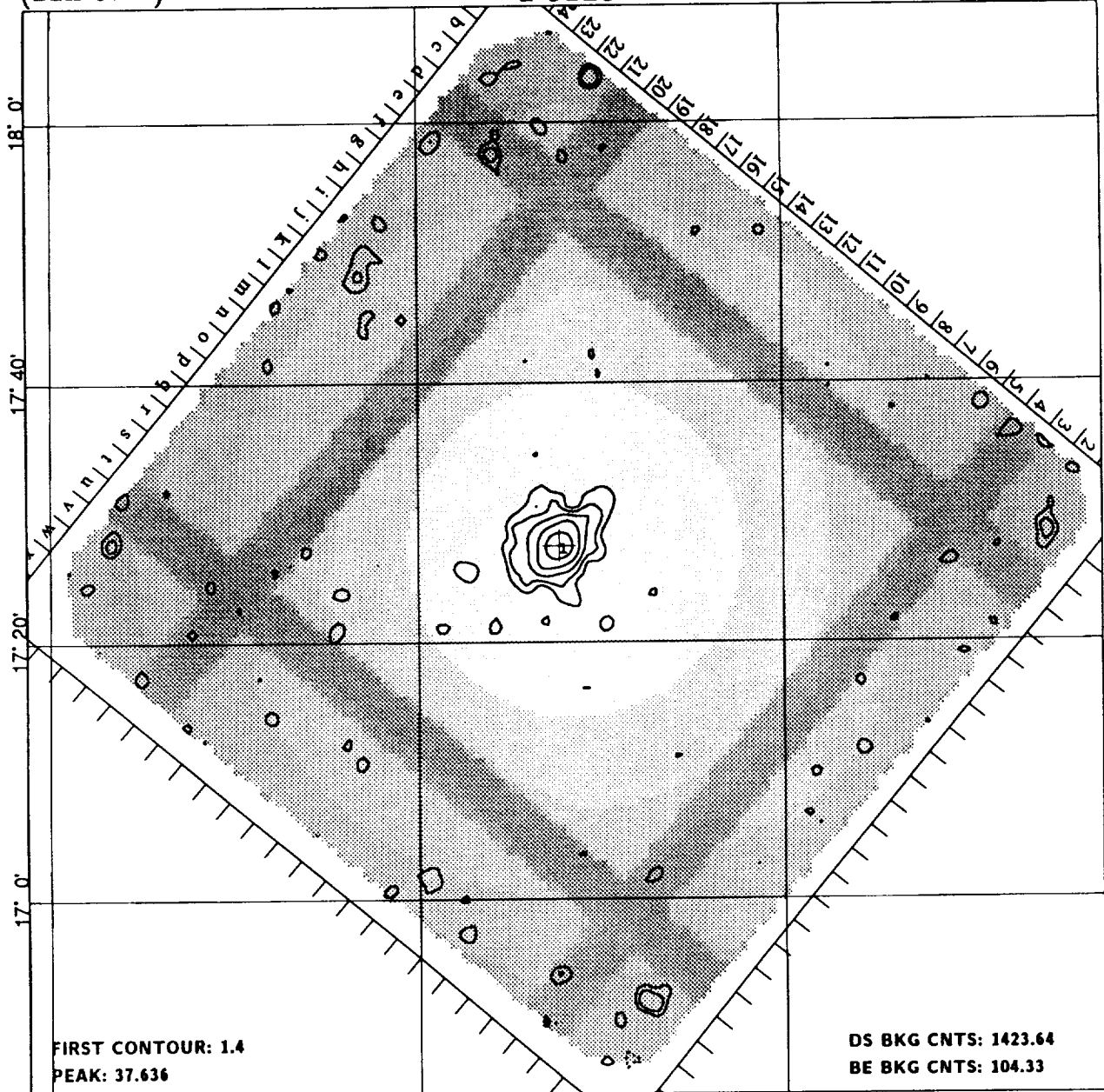
DATE: 1979/281 - 1979/281
 LIVETIME: 1320.6s
 ROLL ANGLE: 129.3°

NH: 2.4E+20
 REF/ID:
 FIELD FLAGS:

(21h 51m)

I 9125

(21h 51m)



FIRST CONTOUR: 1.4
PEAK: 37.636

DS BKG CNTS: 1423.64
BE BKG CNTS: 104.33

21h 54m

21h 52m

21h 50m

CLUSTER OF GALAXY SURVEY: A2390d

FIELD CENTER: $21^{\text{h}}51^{\text{m}}11.8^{\text{s}}$ $17^{\circ}26'59''$ (B1950)
 $21^{\text{h}}53^{\text{m}}34.4^{\text{s}}$ $17^{\circ}41'10''$ (J2000)
 $l: 73.95$ $b: -27.81$

DATE: 1980/358 - 1980/358
 LIVETIME: 1153.6s
 ROLL ANGLE: 129.6°

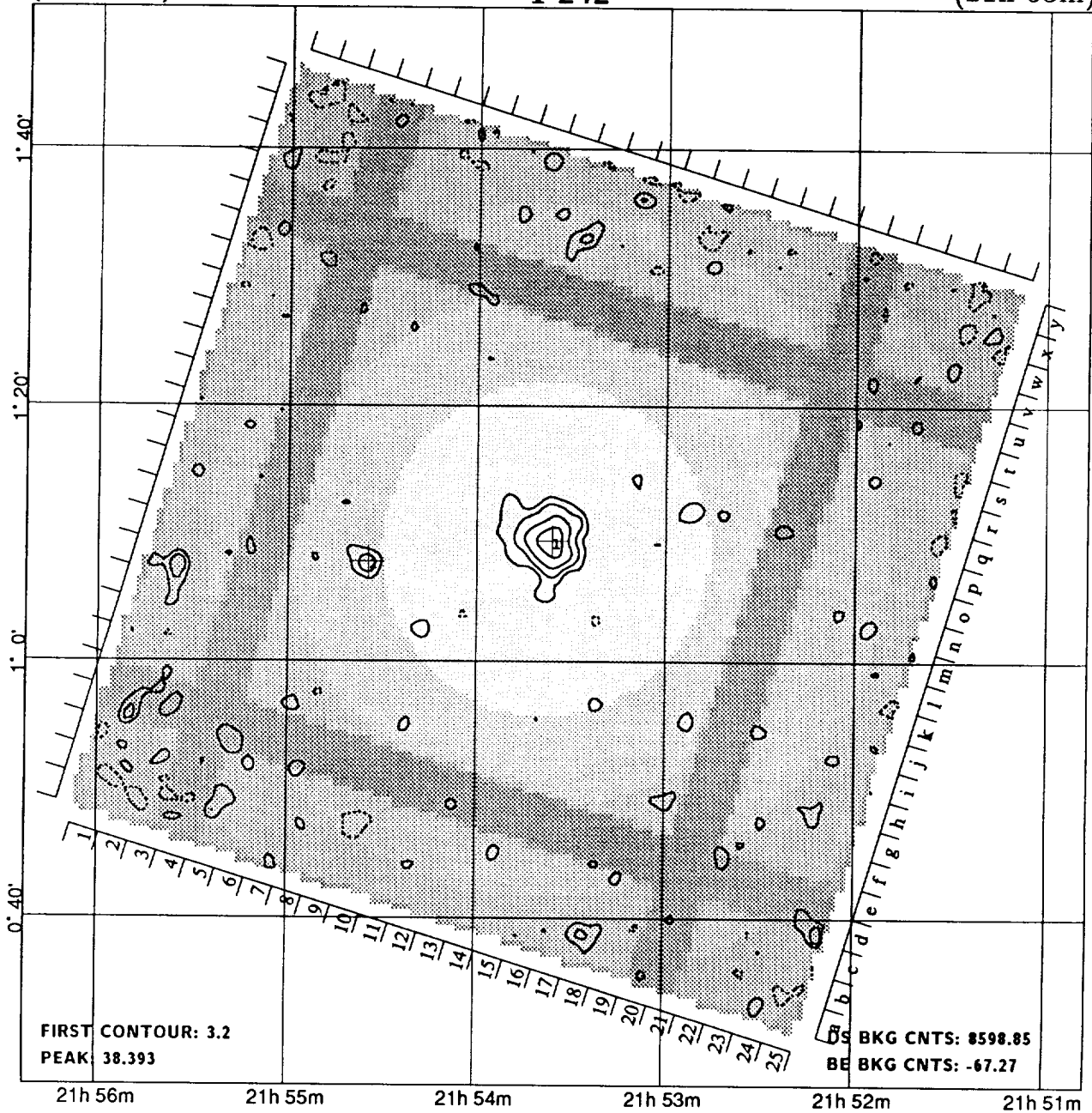
NH: $6.8\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4537	1	21 51 13.7	17 27 22	31	0.194	0.015	165.9	4.1	12.7	1.9	0	0.8	H	CLG

(21h 53m)

I 242

(21h 53m)



A 2397 CLUSTER EVOLUTION

FIELD CENTER: $21^h 53^m 34.9^s$ $01^{\circ} 08' 59''$ (B1950)
 $21^h 56^m 07.9^s$ $01^{\circ} 23' 16''$ (J2000)
 $l: 59.78$ $b: -39.11$

DATE: 1979/139 - 1980/127
 LIVETIME: 6967.9s
 ROLL ANGLE: -73.1°

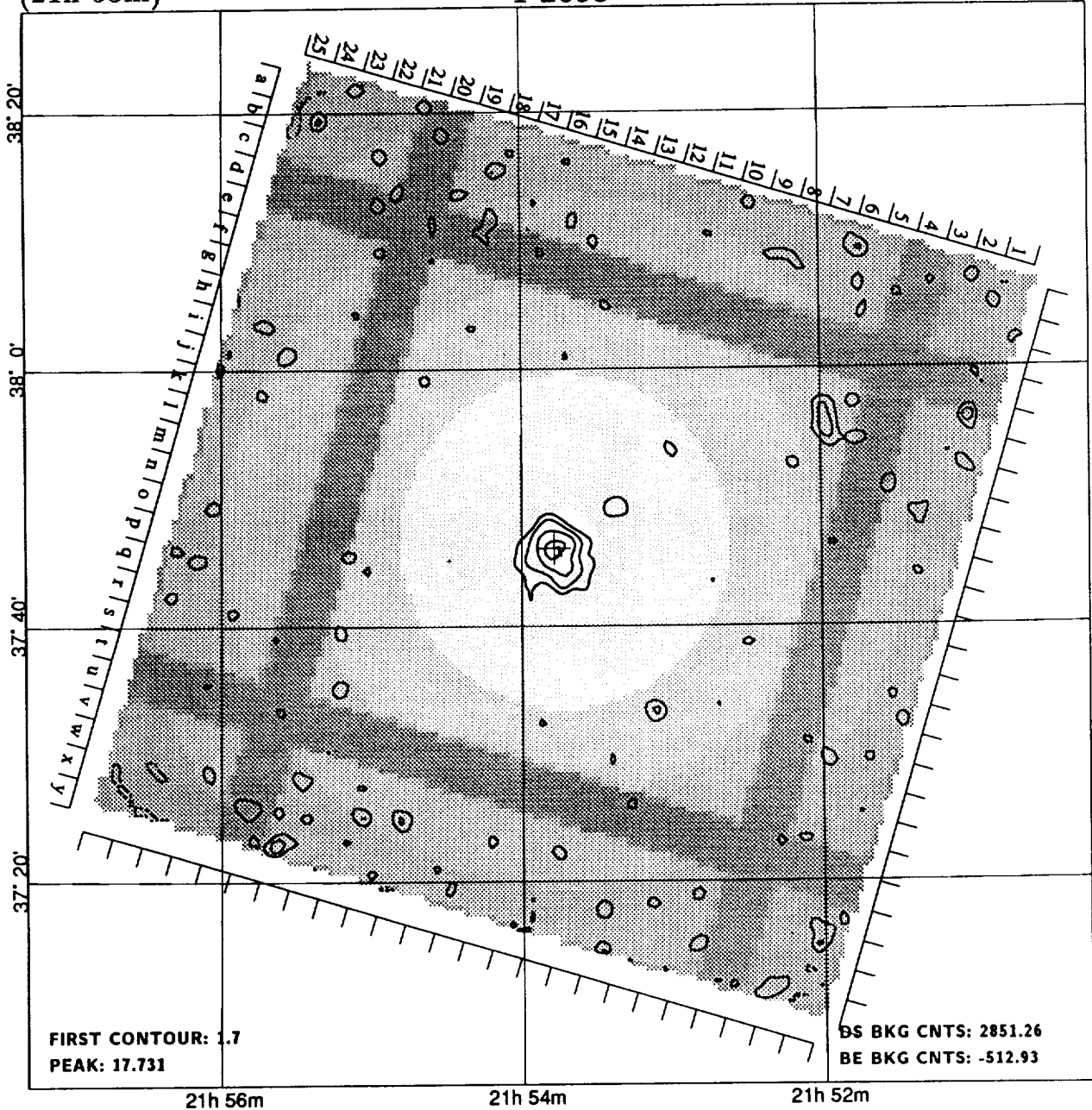
NH: $6.1E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4538	1	21 53 36.1	01 09 25	31	0.0353	0.0027	183.1	19.9	12.9	1.9	0	0.6	H
4541	2	21 54 34.5	01 07 48	52	0.0067	0.0016	28.3	16.7	4.2	0.7	0	15.1	

(21h 53m)

I 2695

(21h 53m)



3C 438: BRIGHT X-GALACTIC RADIO SOURCES

FIELD CENTER: 21^h53^m45.4^s 37°46'12" (B1950)
 21^h55^m52.1^s 38°00'29" (J2000)
 $l: 88.84$ $b: -12.98$

DATE: 1979/327 - 1979/327
 LIVETIME: 2310.5s
 ROLL ANGLE: 106.5°

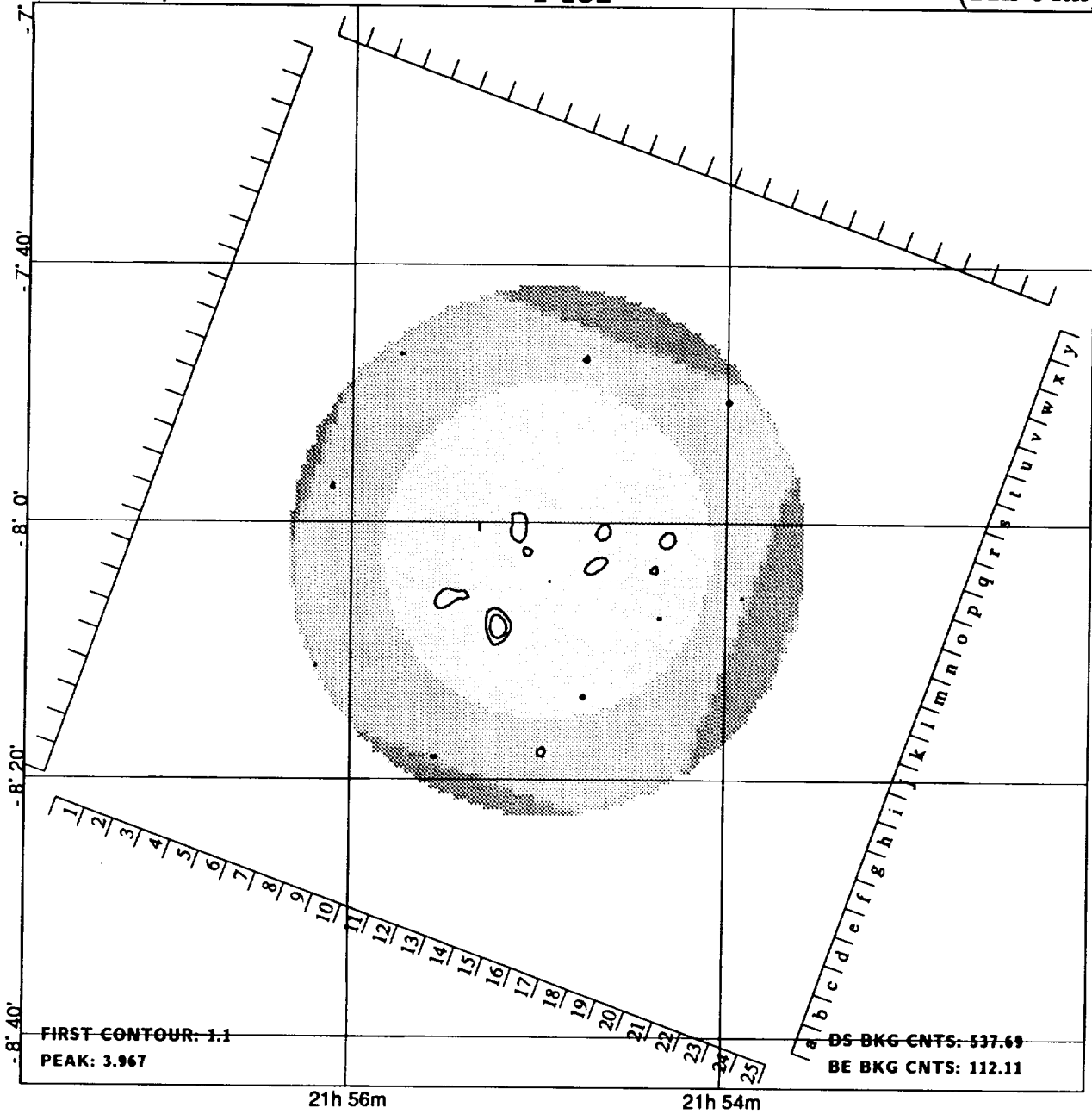
NH: 1.7E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4540	1	21 53 47.0	37 46 03	32	0.0439	0.0052	75.3	5.7	8.4	1.7	0	0.4	H	G

(21h 54m)

I 132

(21h 54m)



A2399 CLUSTER SURFACE BRIGHTNESS

FIELD CENTER: $21^{\text{h}}54^{\text{m}}53.9^{\text{s}}$ $-08^{\circ}01'58''$ (B1950)
 $21^{\text{h}}57^{\text{m}}32.5^{\text{s}}$ $-07^{\circ}47'39''$ (J2000)
 $l: 49.83$ $b: -44.57$

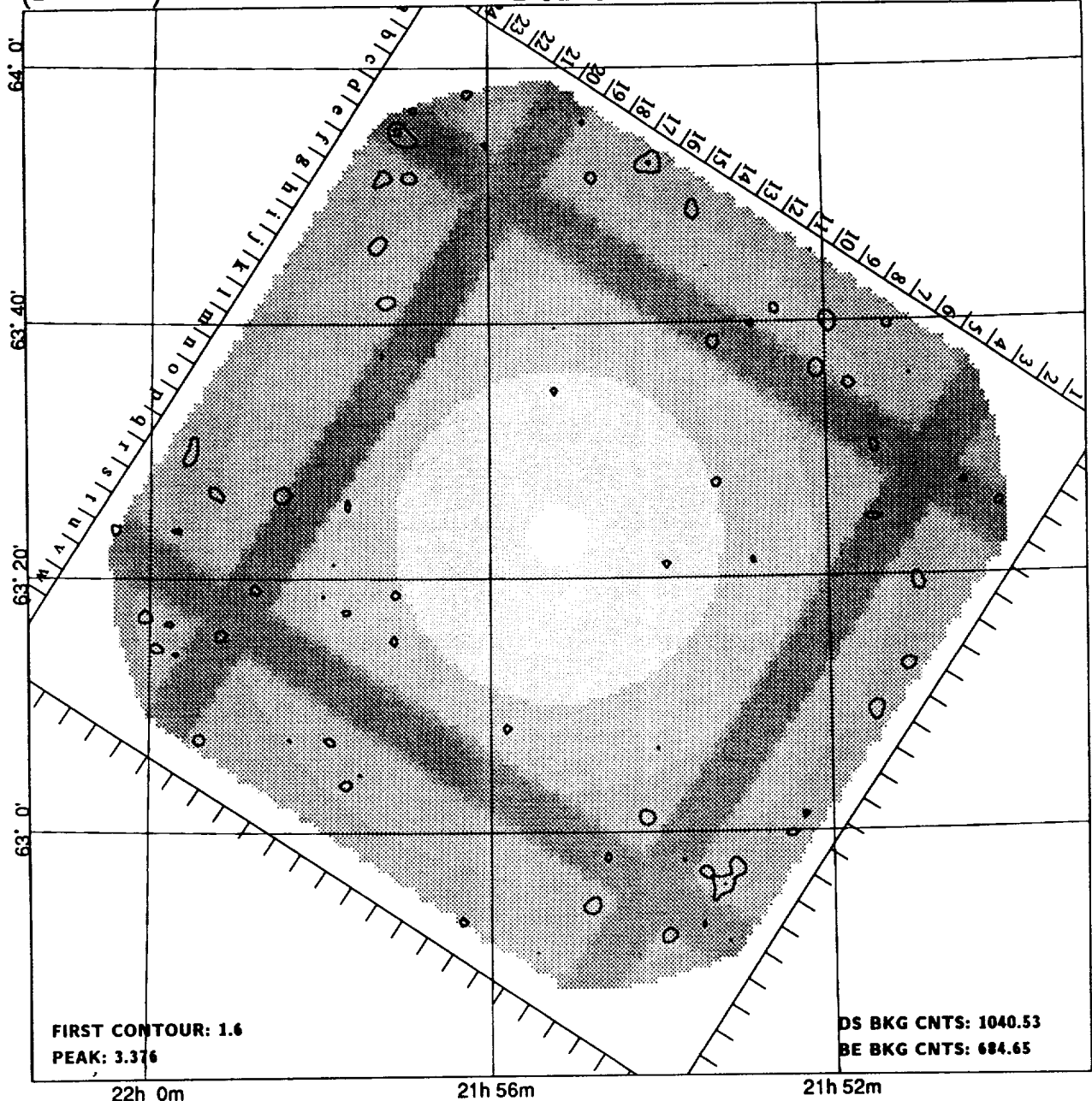
DATE: 1979/139 - 1979/139
 LIVETIME: 435.7e
 ROLL ANGLE: -70.1°

NH: $3.5\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(21h 55m)

I 5216

(21h 55m)



FIRST CONTOUR: 1.6
 PEAK: 3.376

DS BKG CNTS: 1040.53
 BE BKG CNTS: 684.65

22h 0m

21h 56m

21h 52m

STAR VV CEP, X-RAYS FROM BINARY O STARS

FIELD CENTER: $21^{\text{h}}55^{\text{m}}11.8^{\text{s}}$ $63^{\circ}22'58''$ (B1950)
 $21^{\text{h}}56^{\text{m}}36.5^{\text{s}}$ $63^{\circ}37'16''$ (J2000)
 $l: 104.91$ $b: 7.05$

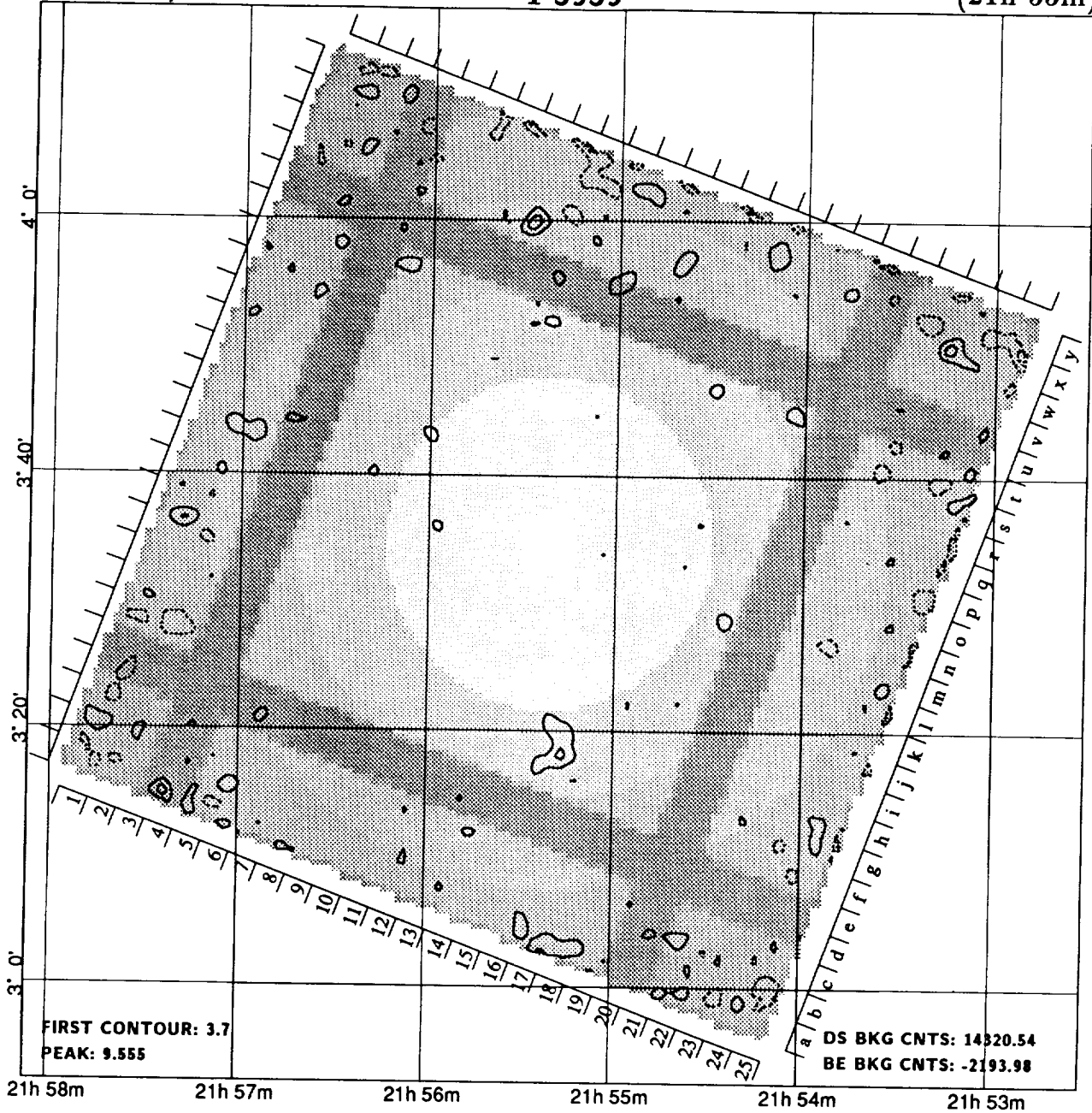
DATE: 1979/352 - 1979/352
 LIVETIME: 843.2s
 ROLL ANGLE: 123.3°

NH: $4.8\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(21h 55m)

I 3959

(21h 55m)



FIRST CONTOUR: 3.7
 PEAK: 9.555

DS BKG CNTS: 14920.54
 BE BKG CNTS: -2193.98

CLUSTER EVOLUTION (Z=0.66)

FIELD CENTER: 21^h55^m18.9^s 03°34'23" (B1950)
 21^h57^m50.5^s 03°48'44" (J2000)
 l : 62.55 b : -37.94

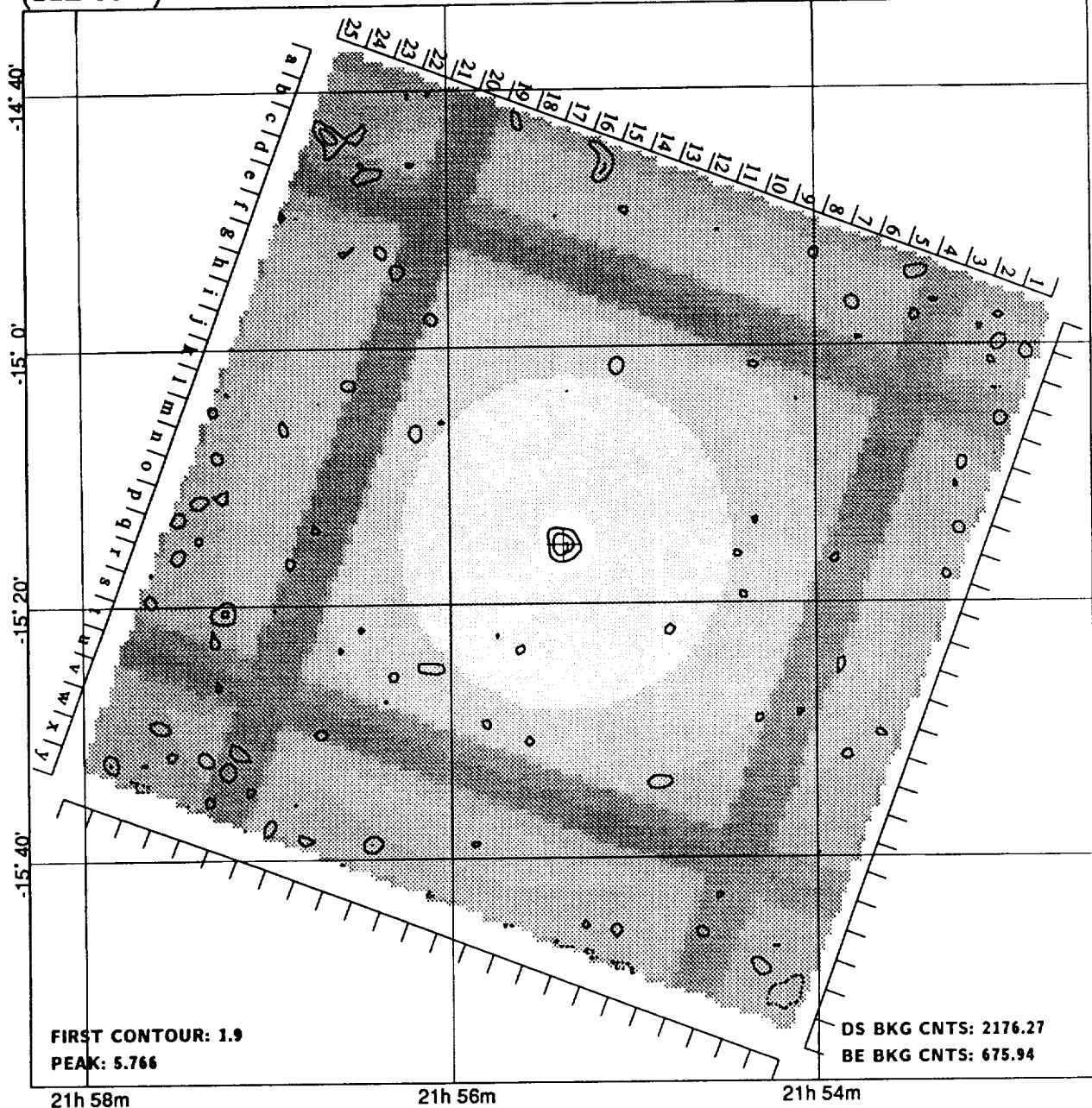
DATE: 1979/142 - 1979/143
 LIVETIME: 11604.3s
 ROLL ANGLE: -69.6°

NH: 5.1E+20
 REF/ID: !
 FIELD FLAGS:

(21h 55m)

I 2006

(21h 55m)



X-RAY STUDY OF BL LAC OBJECTS: OX 192

FIELD CENTER: 21^h55^m23.7^s -15°15'20'' (B1950)
 21^h58^m06.8^s -15°00'59'' (J2000)
 l : 40.64 b : -48.02

DATE: 1979/312 - 1979/312
 LIVETIME: 1763.5s
 ROLL ANGLE: 110.3°

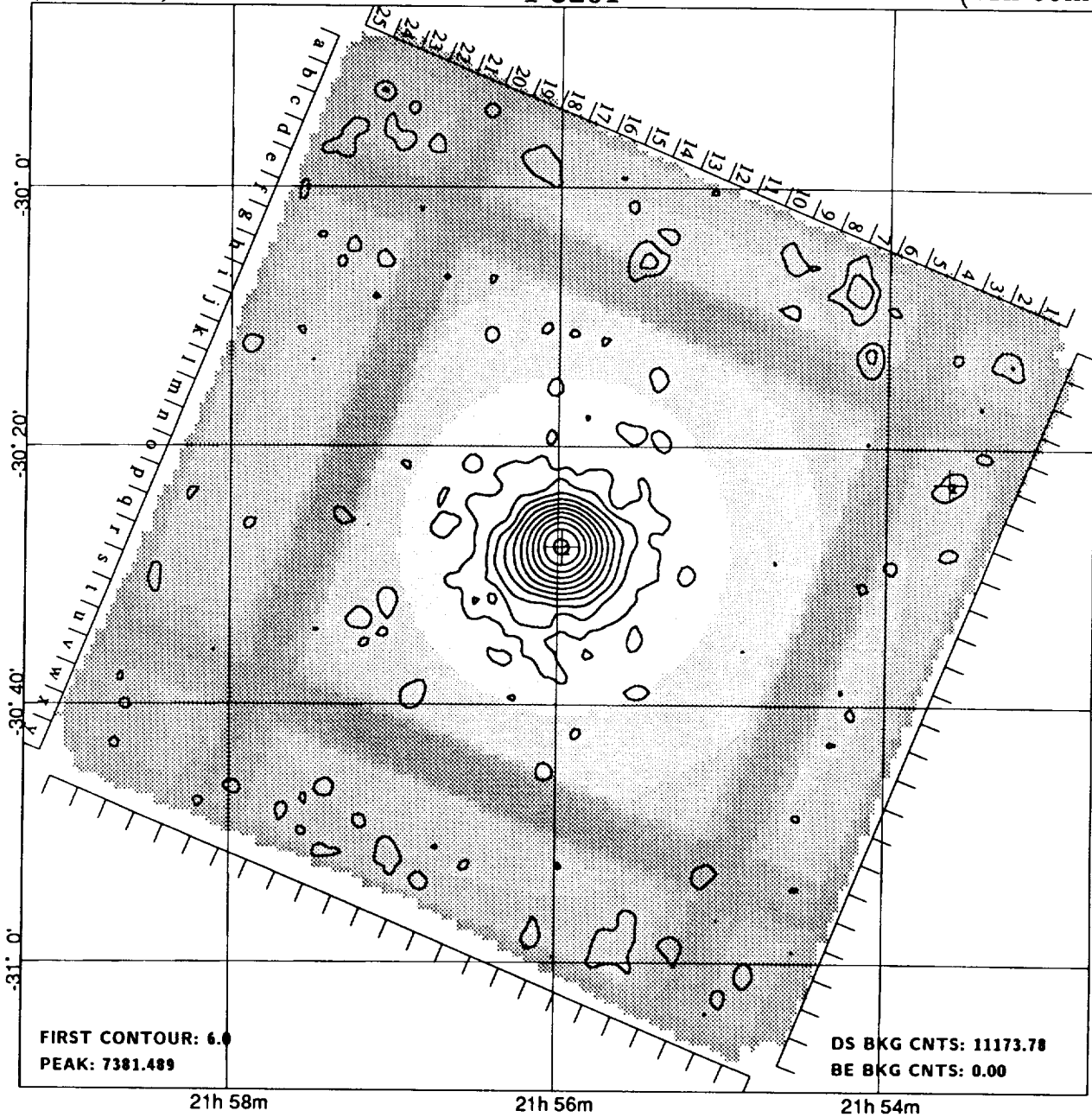
NH: 3.8E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± ''	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4542	1	21 55 22.9	-15 15 27	36	0.0180	0.0042	23.7	7.3	4.3	0.8	0	0.2	H

(21h 55m)

I 5201

(21h 55m)



PKS2155-304, SIMULTANEOUS X-RAY AND RADIO OBS. OF BL LAC OBJECTS

FIELD CENTER: $21^{\text{h}}55^{\text{m}}59.8^{\text{s}}$ $-30^{\circ}27'59''$ (B1950)
 $21^{\text{h}}58^{\text{m}}53.5^{\text{s}}$ $-30^{\circ}13'37''$ (J2000)
 $l: 17.73$ $b: -52.25$

DATE: 1979/309 - 1979/317
 LIVETIME: 9054.4s
 ROLL ANGLE: 112.5°

NH: $1.7\text{E}+20$
 REF/ID:
 FIELD FLAGS: CL

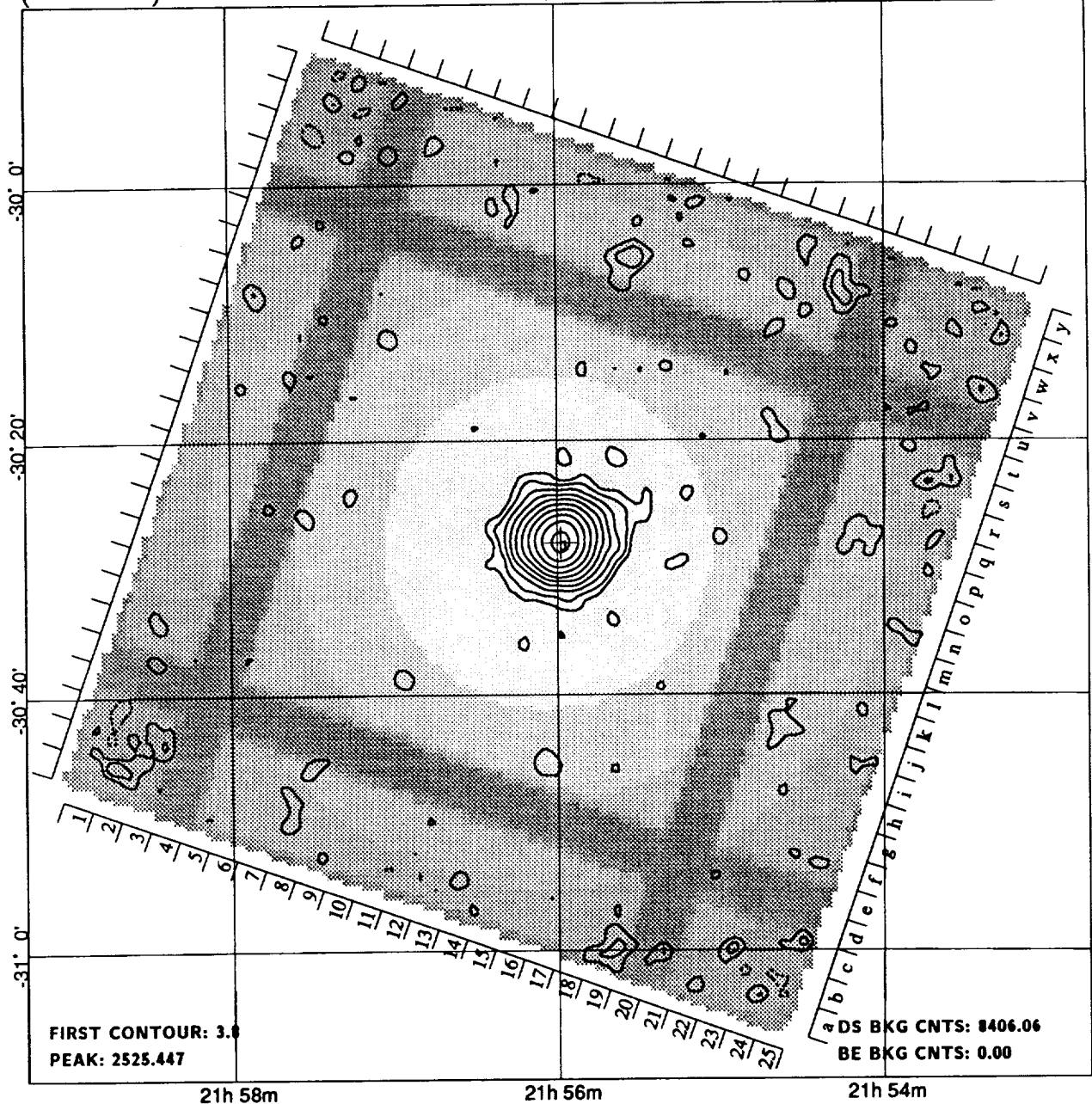
CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4539	1L	21 53 37.5	-30 22 46	62	0.0093	0.0025	28.7	13.3	3.5	0.7	200	31.1		
4544	2L	21 55 58.5	-30 27 46	31	4.081	0.031	27569.5	5706.5	131.4	1.5	0	0.3	A	BL

C-4

(21h 55m)

I 5202

(21h 55m)



PKS2155-304, SIMULTANEOUS X-RAY AND RADIO OBS. OF BL LAC OBJECTS

FIELD CENTER: $21^{\text{h}}55^{\text{m}}59.8^{\text{s}}$ $-30^{\circ}27'59''$ (B1950)
 $21^{\text{h}}58^{\text{m}}53.5^{\text{s}}$ $-30^{\circ}13'37''$ (J2000)
 $l: 17.73$ $b: -52.25$

DATE: 1980/136 - 1980/138
 LIVETIME: 6811.7s
 ROLL ANGLE: -70.8°

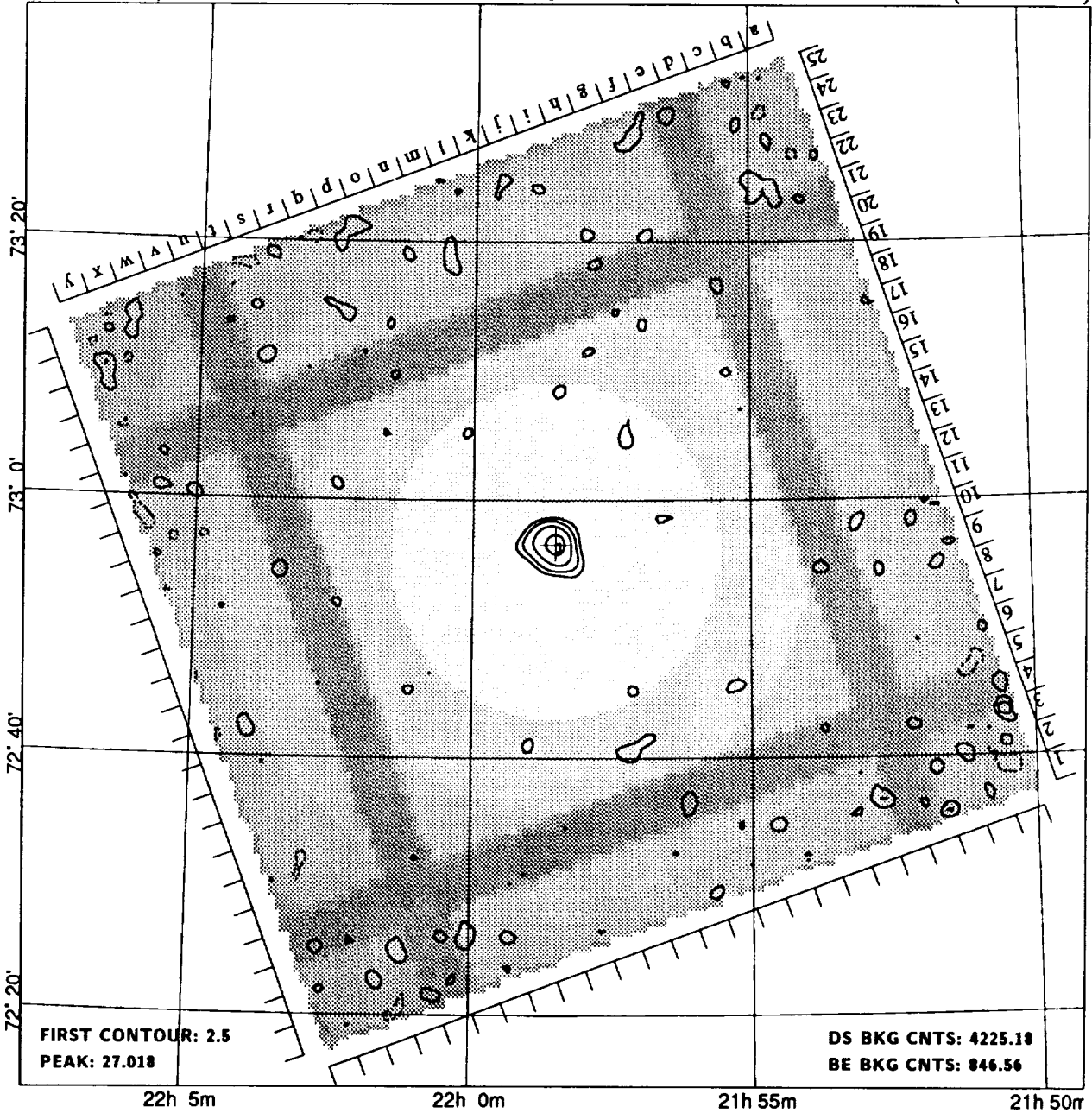
NH: $1.7E+20$
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4544	1L	21 55 58.7	-30 27 57	31	1.778	0.025	9009.0	2474.0	72.3	1.6	0	0.3	A	BL

(21h 58m)

I 9711

(21h 58m)



F0-G5 STARS: HR 8400

FIELD CENTER: $21^{\text{h}}58^{\text{m}}32.3^{\text{s}}$ $72^{\circ}56'29''$ (B1950)
 $21^{\text{h}}59^{\text{m}}15.5^{\text{s}}$ $73^{\circ}10'54''$ (J2000)
 $l: 111.17$ $b: 14.38$

DATE: 1981/ 26 - 1981/ 26
 LIVETIME: 3423.8s
 ROLL ANGLE: 159.9°

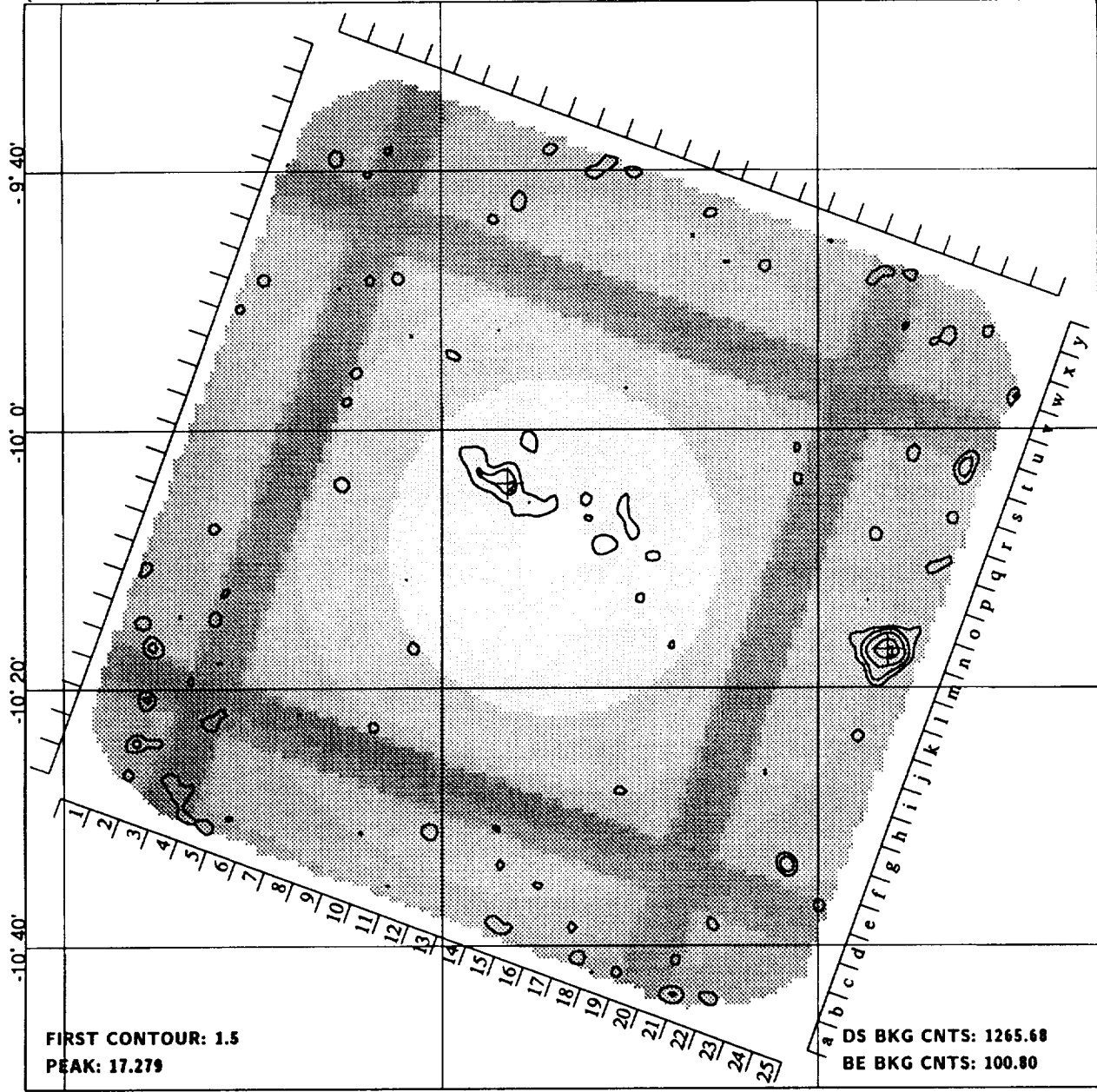
NH: $2.6\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4546	1	21 58 30.8	72 56 35	31	0.0463	0.0045	118.2	13.8	10.3	1.4	0	0.2	H S

(21h 59m)

I 131

(21h 59m)



A2410 CLUSTER SURFACE BRIGHTNESS

FIELD CENTER: 21^h59^m21.4^s -10°08'59" (B1950)
 22^h02^m01.0^s -09°54'30" (J2000)
 l : 48.01 b : -46.58

DATE: 1979/141 - 1979/141
 LIVETIME: 1025.6s
 ROLL ANGLE: -69.9°

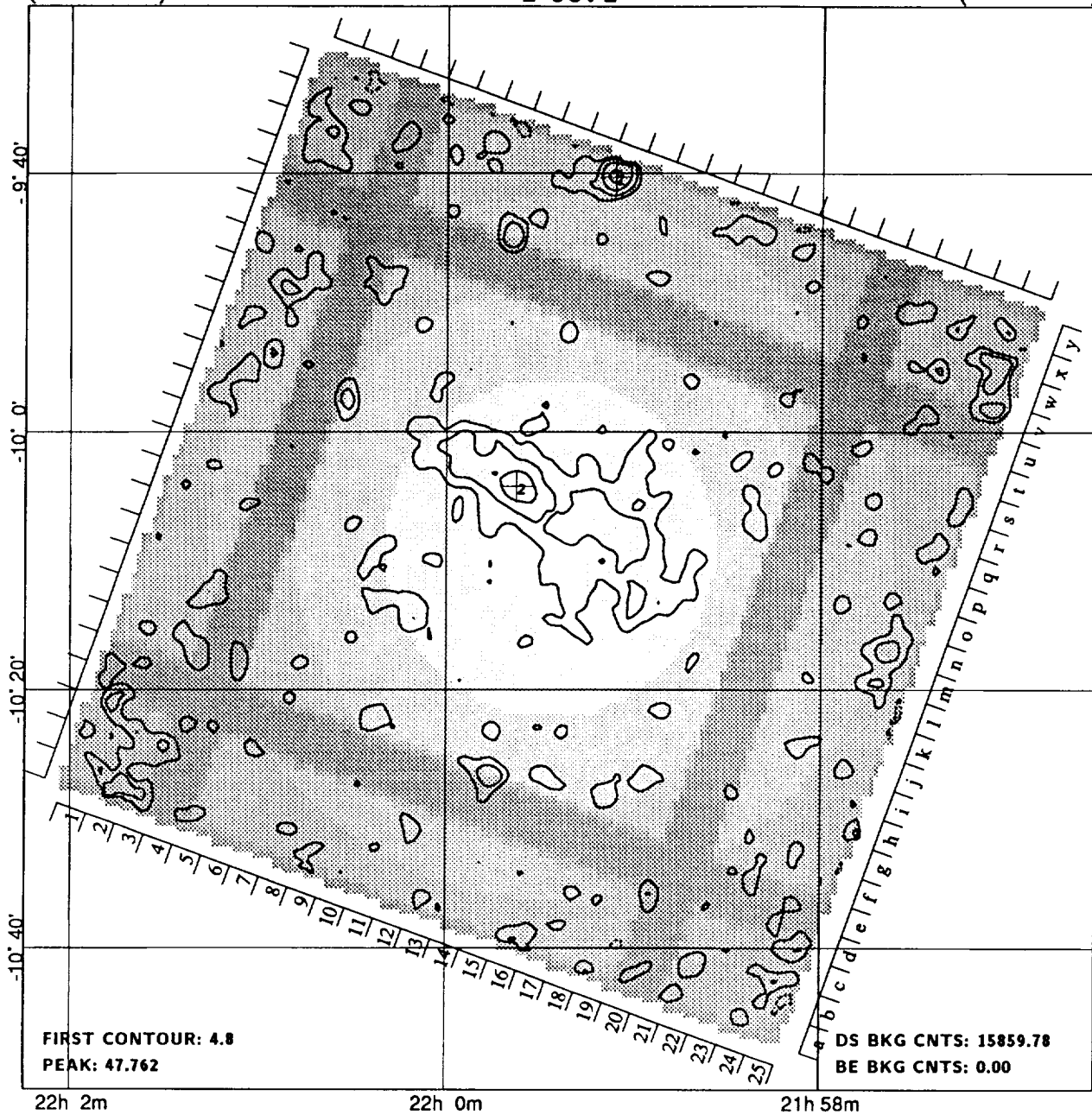
NH: 3.6E+20
 REF/ID: CLG
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4545	1	21 57 37.9	-10 16 58	50	0.094	0.016	37.8	2.2	6.0	1.2	0	26.7	H
4553	2	21 59 39.0	-10 04 08	45	0.0215	0.0060	15.5	3.5	3.6	1.8	0	6.2	AH

(21h 59m)

I 6071

(21h 59m)



A2410, DETAILED STUDY OF CLUSTER EXTENTS

FIELD CENTER: 21^h59^m23.7^s -10°08'59" (B1950)
 22^h02^m03.4^s -09°54'30" (J2000)
 l : 48.02 b : -46.59

DATE: 1980/132 - 1980/132
 LIVETIME: 12851.6s
 ROLL ANGLE: -70.2°

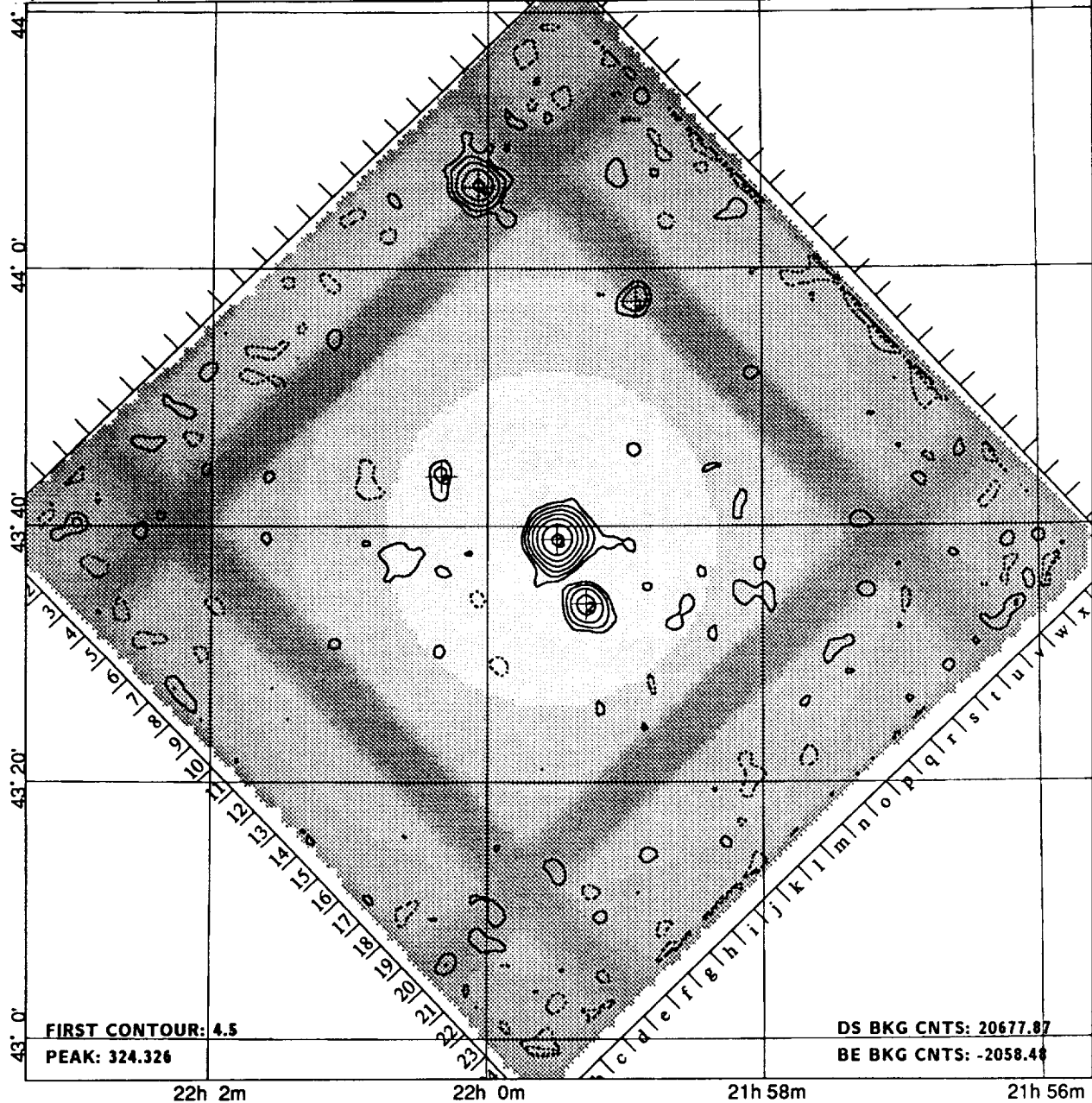
NH: 3.6E+20
 REF/ID: CLG
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE ±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4548	1L	21 59 06.1	-09 40 18	50	*0.0190 0.0029	94.6	31.4	6.5	1.2	501	29.1	I
4553	2L	21 59 37.5	-10 04 10	38	0.0098 0.0019	89.9	104.1	5.1	9.0	0	5.9	A

(21h 59m)

I 3153

(21h 59m)



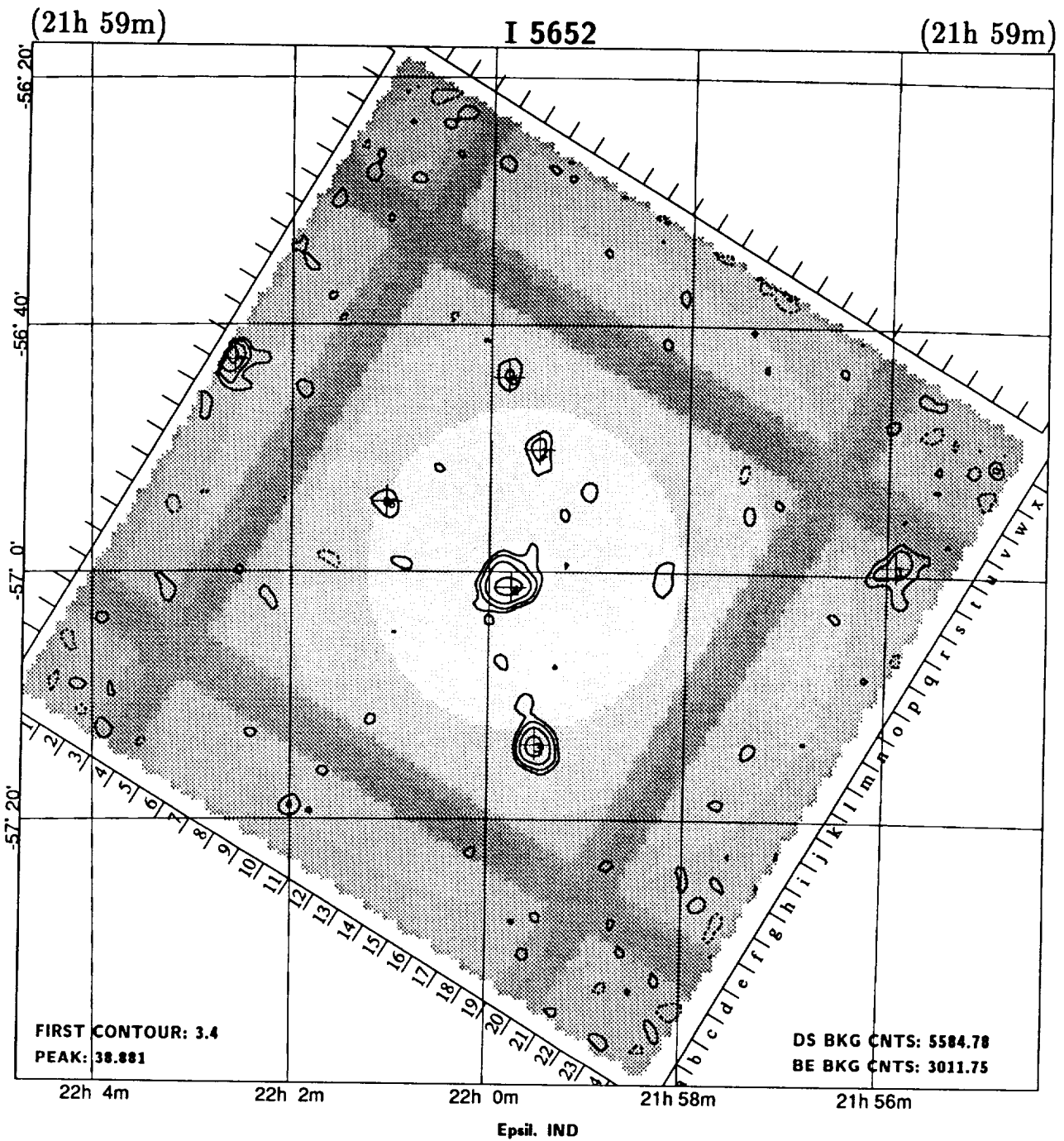
CORONA OF RT LACERTAE, SIZE AND STRUCTURE

FIELD CENTER: 21^h59^m28.5^s 43°38'54" (B1950)
 22^h01^m30.4^s 43°53'23" (J2000)
 $l: 93.41$ $b: -9.03$

DATE: 1979/178 - 1979/182
 LIVETIME: 16755.8s
 ROLL ANGLE: -43.7°

NH: 2.2E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4547	1	21 58 55.1	43 57 28	51	*0.00483	0.00097	41.9	29.1	5.0	0.8	1108	19.7	H
4549	2	21 59 16.9	43 34 00	38	0.0162	0.0013	192.3	46.7	12.4	1.0	0	5.1	H
4550	3	21 59 29.7	43 38 58	31	0.1105	0.0030	1380.5	43.5	36.6	1.2	0	0.2	H
4556	4	22 00 04.2	44 06 19	48	*0.0276	0.0022	177.9	28.1	12.4	1.2	803	28.4	H
4557	5	22 00 20.2	43 43 52	42	0.00273	0.00074	30.6	37.4	3.7	0.7	0	10.7	H



FIELD CENTER: $21^{\text{h}}59^{\text{m}}32.8^{\text{s}}$ $-56^{\circ}59'33''$ (B1950)
 $22^{\text{h}}02^{\text{m}}57.3^{\text{s}}$ $-56^{\circ}45'02''$ (J2000)
 $l: 336.28$ $b: -48.01$

DATE: 1980/114 - 1980/114
 LIVETIME: 4688.0s
 ROLL ANGLE: -59.1°

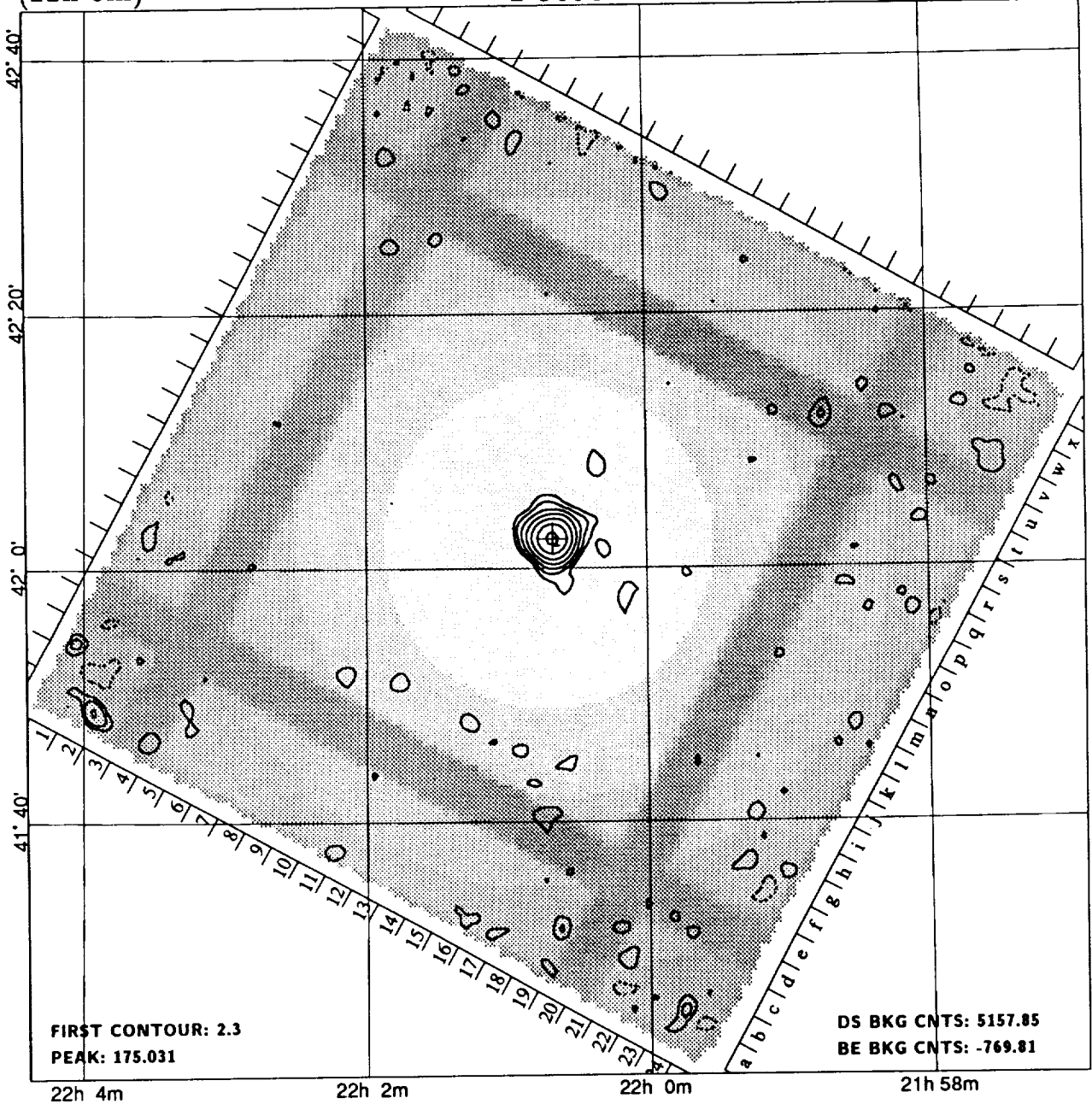
NH: 2.6E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT ± RATE	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4543	1	21 55 54.8	-56 59 14	62	*0.0144 0.0037	23.2	12.8	3.9	1.3	401	29.7	H	
4551	2	21 59 30.3	-56 50 04	42	0.0094 0.0023	29.4	21.6	4.1	0.8	0	9.7	H	
4552	3	21 59 31.2	-57 13 59	38	0.0455 0.0043	129.1	18.9	10.6	1.2	0	14.3	H	AGN
4554	4	21 59 46.7	-57 01 16	31	0.0462 0.0039	160.1	22.9	11.8	1.5	0	2.3	H	
4555	5	21 59 49.4	-56 44 14	55	0.0091 0.0024	24.8	17.2	3.8	0.7	0	15.6	H	
4560	6	22 01 02.6	-56 54 18	46	0.0080 0.0022	23.7	18.3	3.7	0.6	0	13.6	H	
4565	7	22 02 34.3	-56 42 47	50	*0.0325 0.0052	46.1	7.9	6.3	1.0	703	30.0	EH	

(22h 0m)

I 5693

(22h 0m)



STUDY OF VARIABILITY: BL LAC

FIELD CENTER: 22^h00^m38.7^s 42°02'07" (B1950)
 22^h02^m42.7^s 42°16'39" (J2000)
 l : 92.59 b : -10.44

DATE: 1980/160 - 1980/162
 LIVETIME: 4179.5s
 ROLL ANGLE: -61.3°

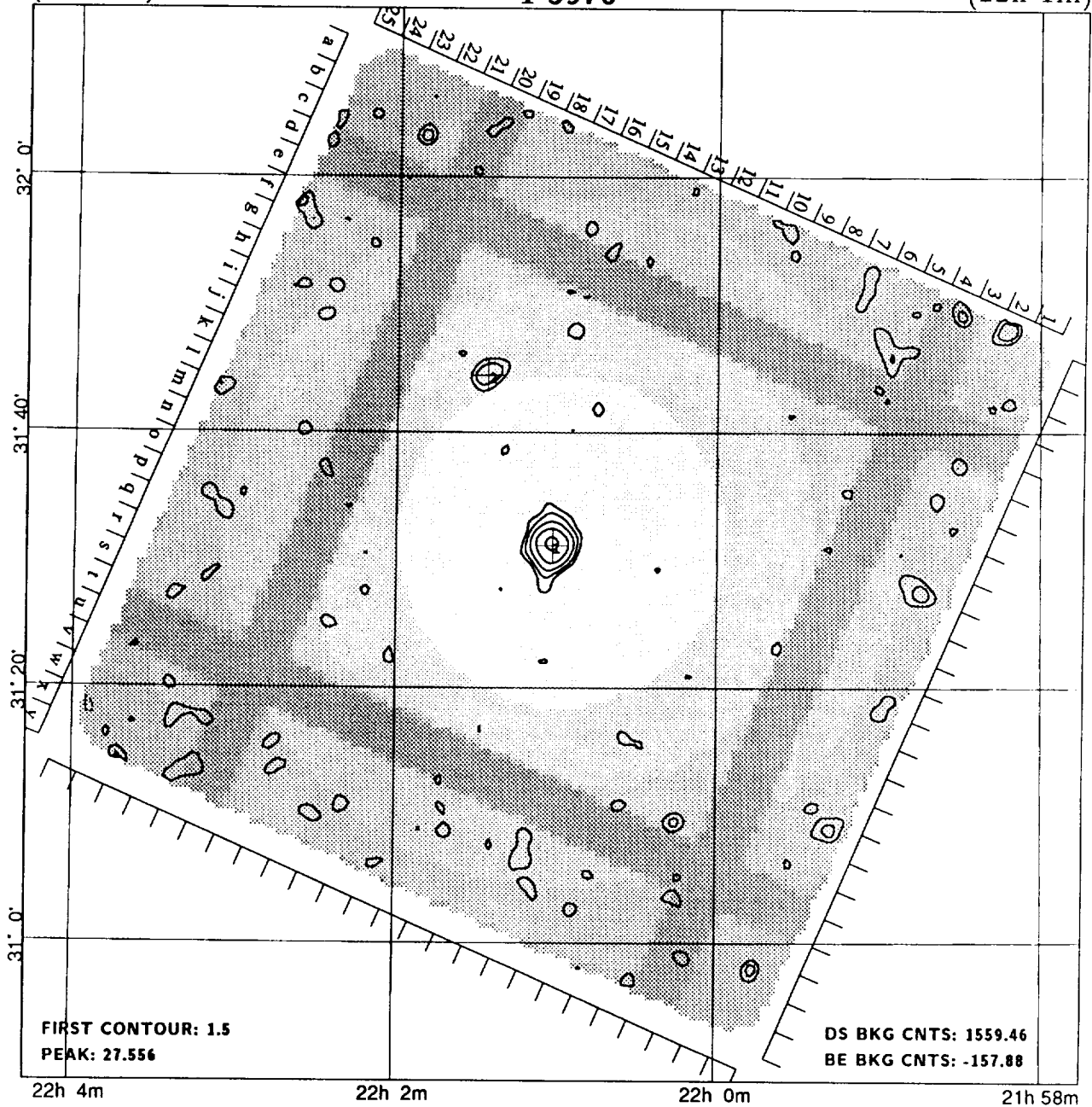
NH: 1.9E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE ±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4558	1	22 00 40.3	42 02 16	31	0.2285 0.0086	712.0	10.0	26.5	1.2	0	0.4	H	BL

(22h 1m)

I 3976

(22h 1m)



2201+315, BRIGHT NEARBY QUASAR

FIELD CENTER: $22^{\text{h}}01^{\text{m}}00.8^{\text{s}}$ $31^{\circ}31'08''$ (B1950)
 $22^{\text{h}}03^{\text{m}}14.4^{\text{s}}$ $31^{\circ}45'40''$ (J2000)
 $l: 85.96$ $b: -18.78$

DATE: 1979/337 - 1979/337
 LIVETIME: 1263.7s
 ROLL ANGLE: 113.5°

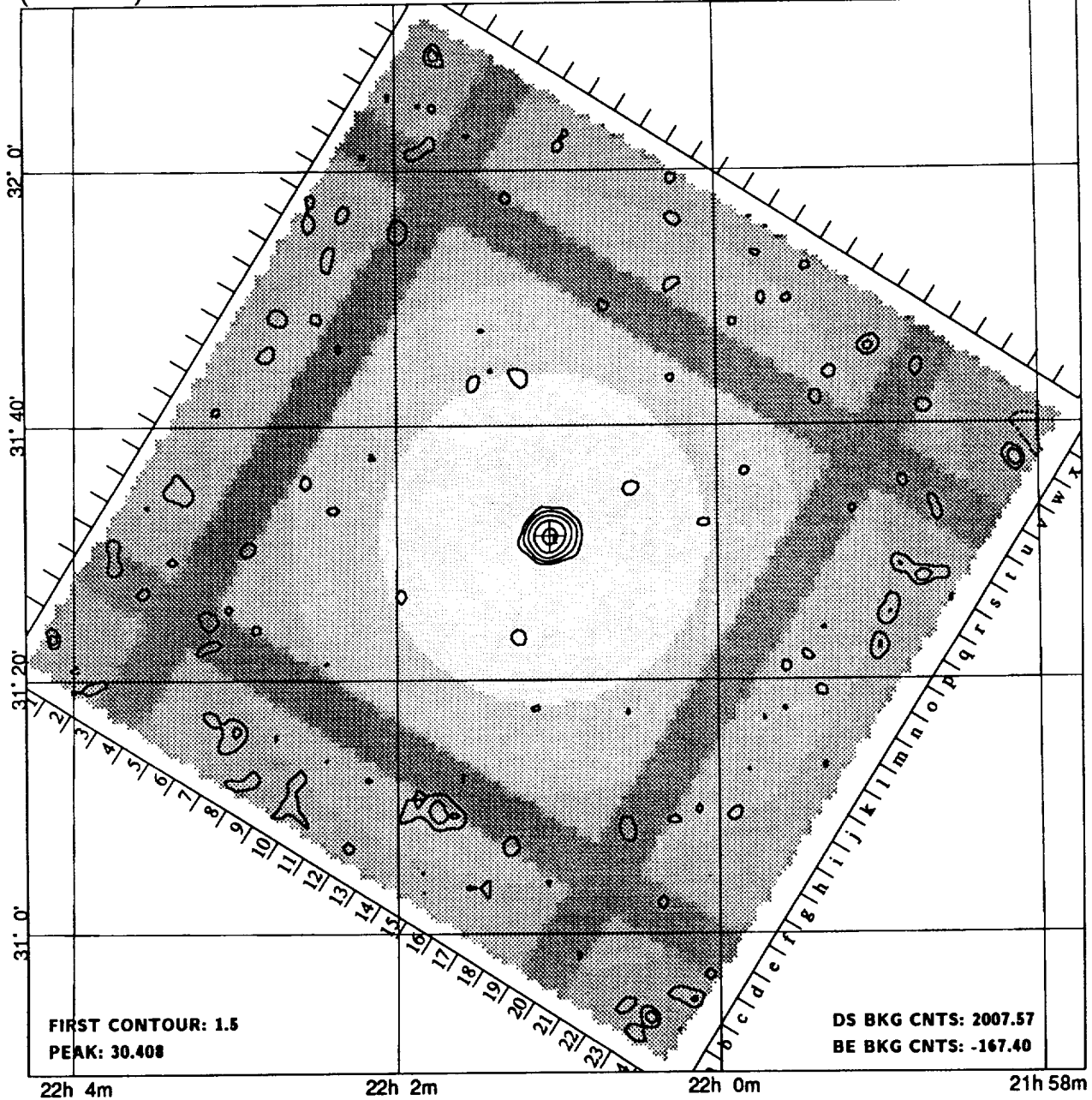
NH: $8.8\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4561	1	22 01 01.4	31 31 07	31	0.130	0.012	122.6	3.4	10.9	1.2	0	0.2	AH Q
4562	2	22 01 26.1	31 44 26	45	0.0218	0.0057	16.6	2.4	3.8	0.8	0	14.3	H

(22h 1m)

I 7182

(22h 1m)



4C 31.63, BURSTING RADIO SOURCE

FIELD CENTER: 22^h01^m01.0^s 31°31'11" (B1950)
 22^h03^m14.5^s 31°45'44" (J2000)
 l : 85.96 b : -18.78

DATE: 1980/167 - 1980/167
 LIVETIME: 1626.8s
 ROLL ANGLE: -58.1°

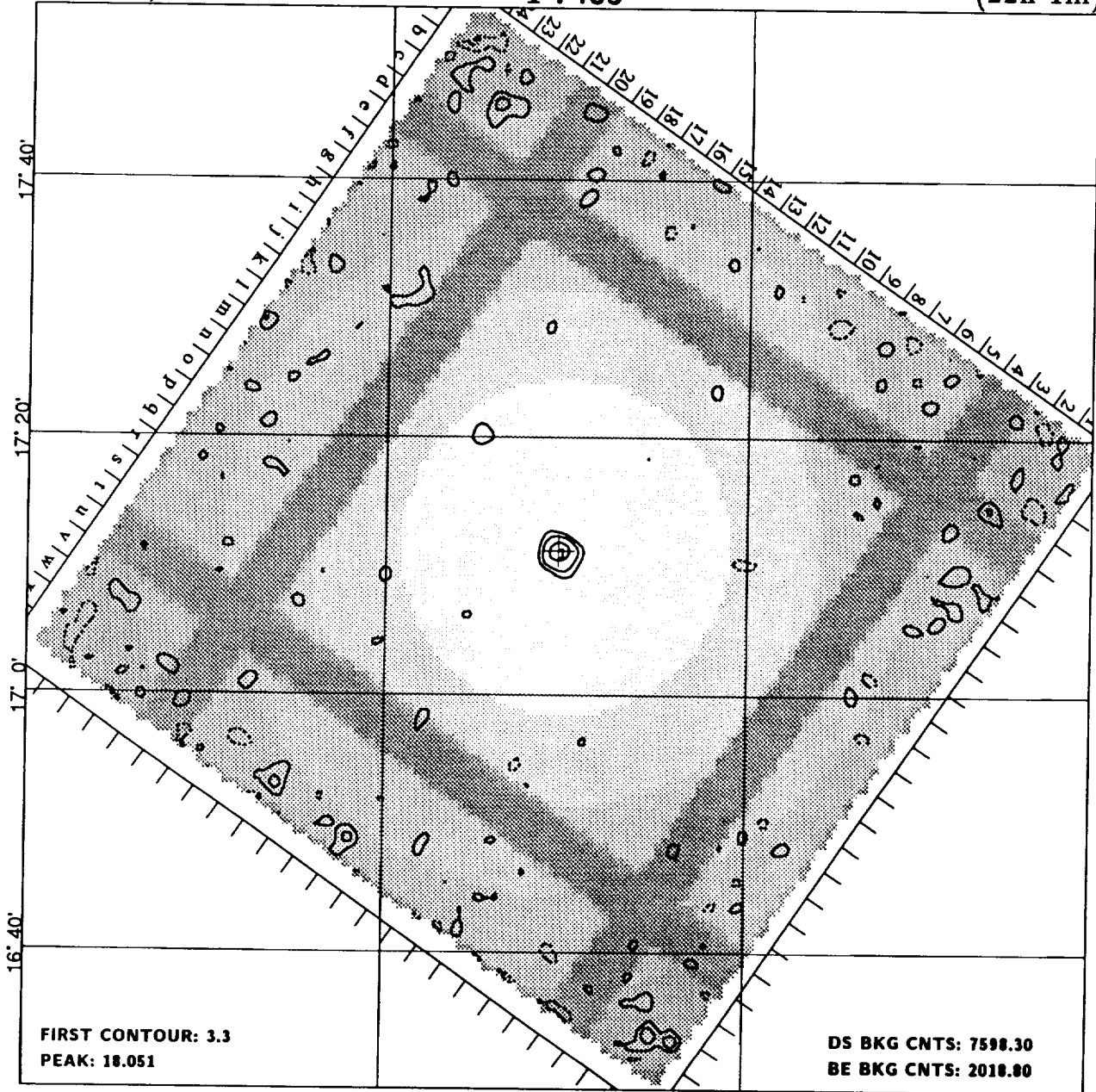
NH: 8.8E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4561	1	22 01 02.8	31 31 19	31	0.1069	0.0095	129.7	4.3	11.2	1.2	0	0.4	AH Q

(22h 1m)

I 7483

(22h 1m)



2201+171, EMISSION FROM HIGHLY POLARIZED BL LAC OBJECTS

FIELD CENTER: 22^h01^m02.6^s 17°11'18" (B1950)
 22^h03^m26.2^s 17°25'51" (J2000)
 $l: 75.67$ $b: -29.63$

DATE: 1980/360 - 1980/360
 LIVETIME: 6157.1s
 ROLL ANGLE: 124.6°

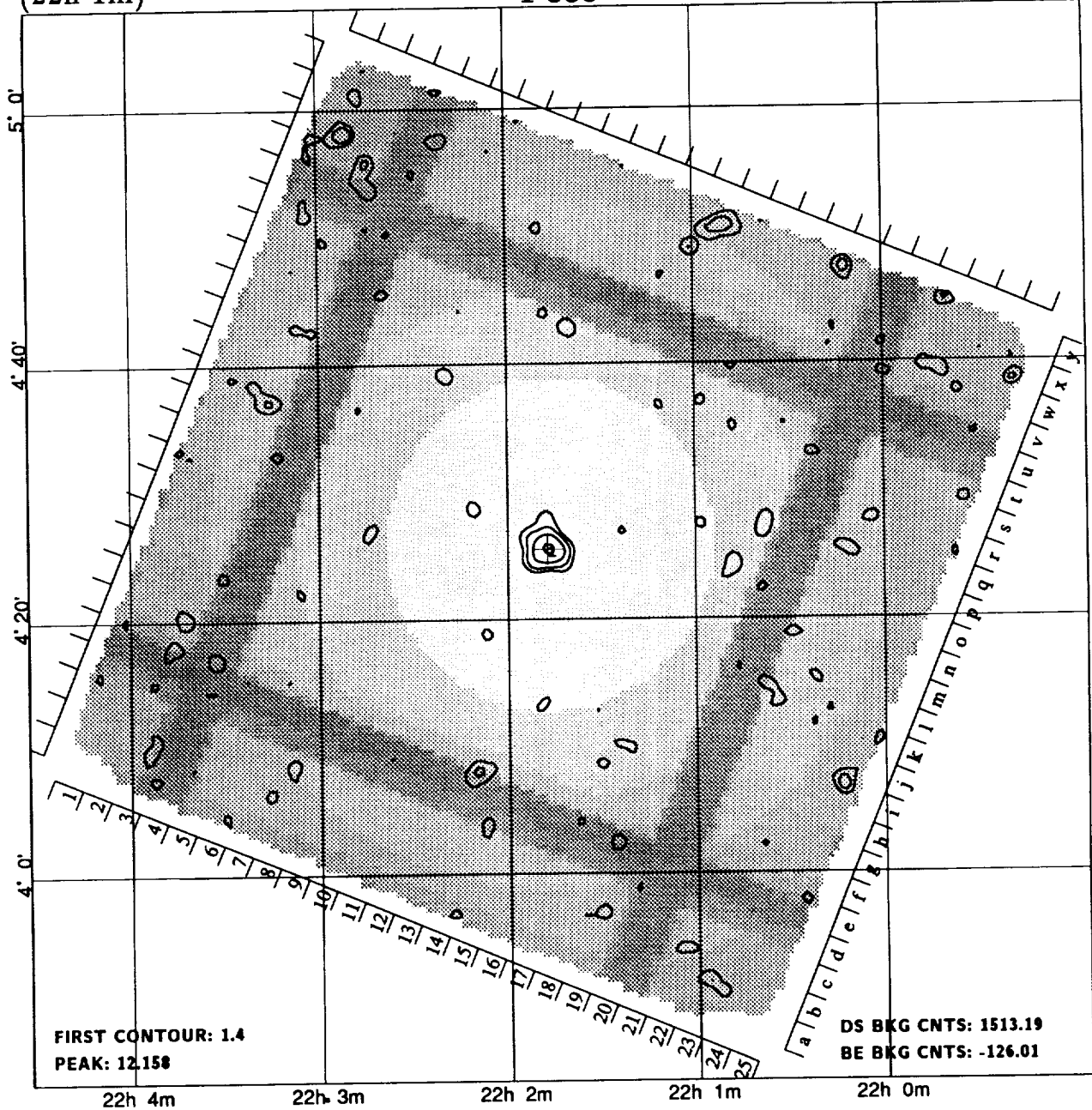
NH: 5.3E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4559	1	22 01 02.6	17 11 12	33	0.0161	0.0022	73.8	25.2	7.4	1.0	0	0.2	H	BL

(22h 1m)

I 553

(22h 1m)



PKS 2201+04 QUASAR SURVEY

FIELD CENTER: $22^h 01^m 43.8^s$ $04^{\circ} 25' 51''$ (B1950)
 $22^h 04^m 15.0^s$ $04^{\circ} 40' 26''$ (J2000)
 $l: 64.70$ $b: -38.62$

DATE: 1979/139 - 1979/139
 LIVETIME: 1226.2s
 ROLL ANGLE: -67.7°

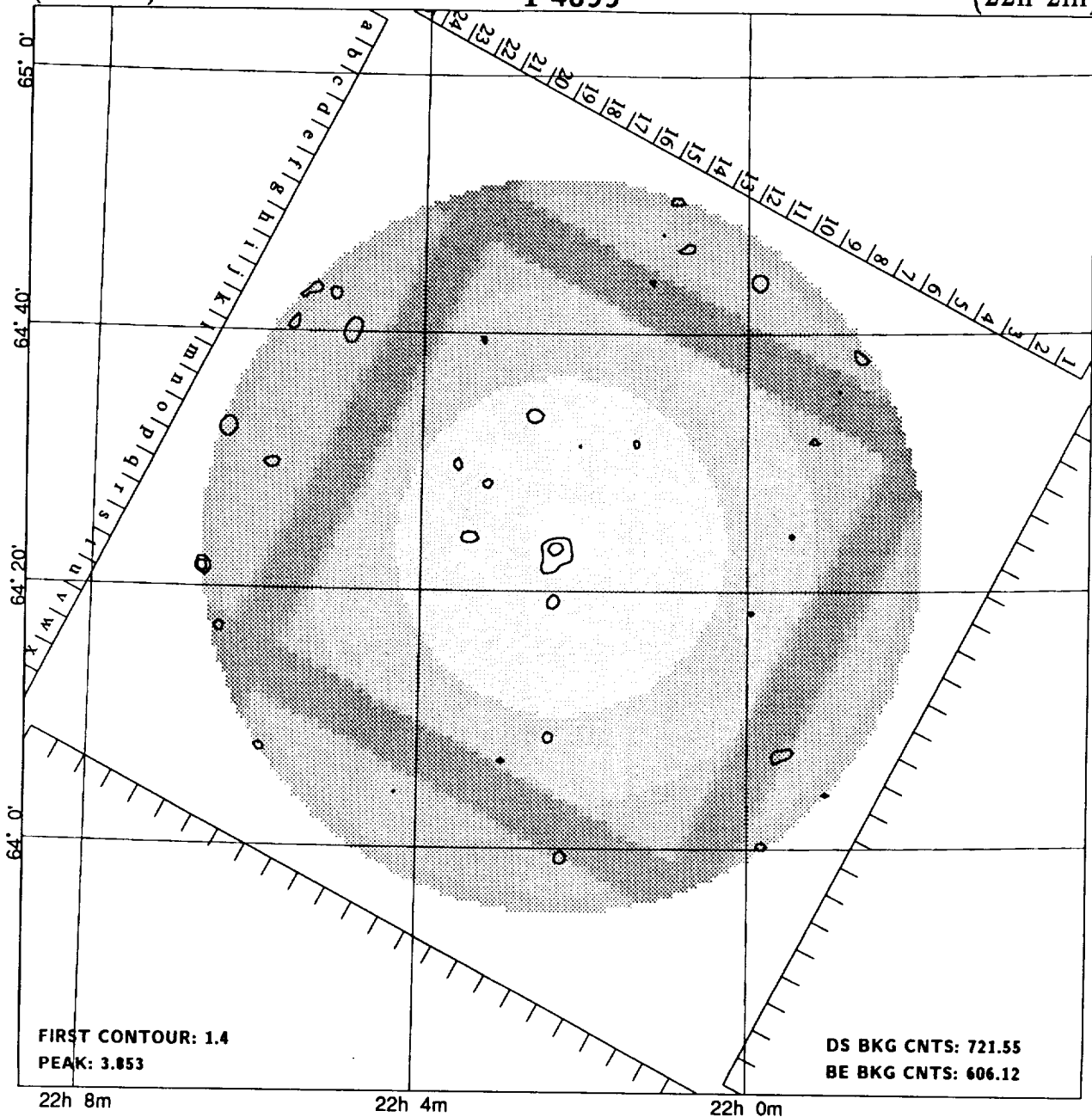
NH: $5.0E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4563	1	22 01 47.3	04 25 30	35	0.0577	0.0082	52.8	3.2	7.0	1.1	0	0.9	H	BL

(22h 2m)

I 4899

(22h 2m)



FIRST CONTOUR: 1.4
PEAK: 3.853

DS BKG CNTS: 721.55
BE BKG CNTS: 606.12

22h 8m

22h 4m

22h 0m

STAR XI CEP A (HD 209791), AP STARS

FIELD CENTER: $22^h 02^m 20.2^s$ $64^\circ 23' 01''$ (B1950)
 $22^h 03^m 45.5^s$ $64^\circ 37' 36''$ (J2000)
 $l: 106.15$ $b: 7.37$

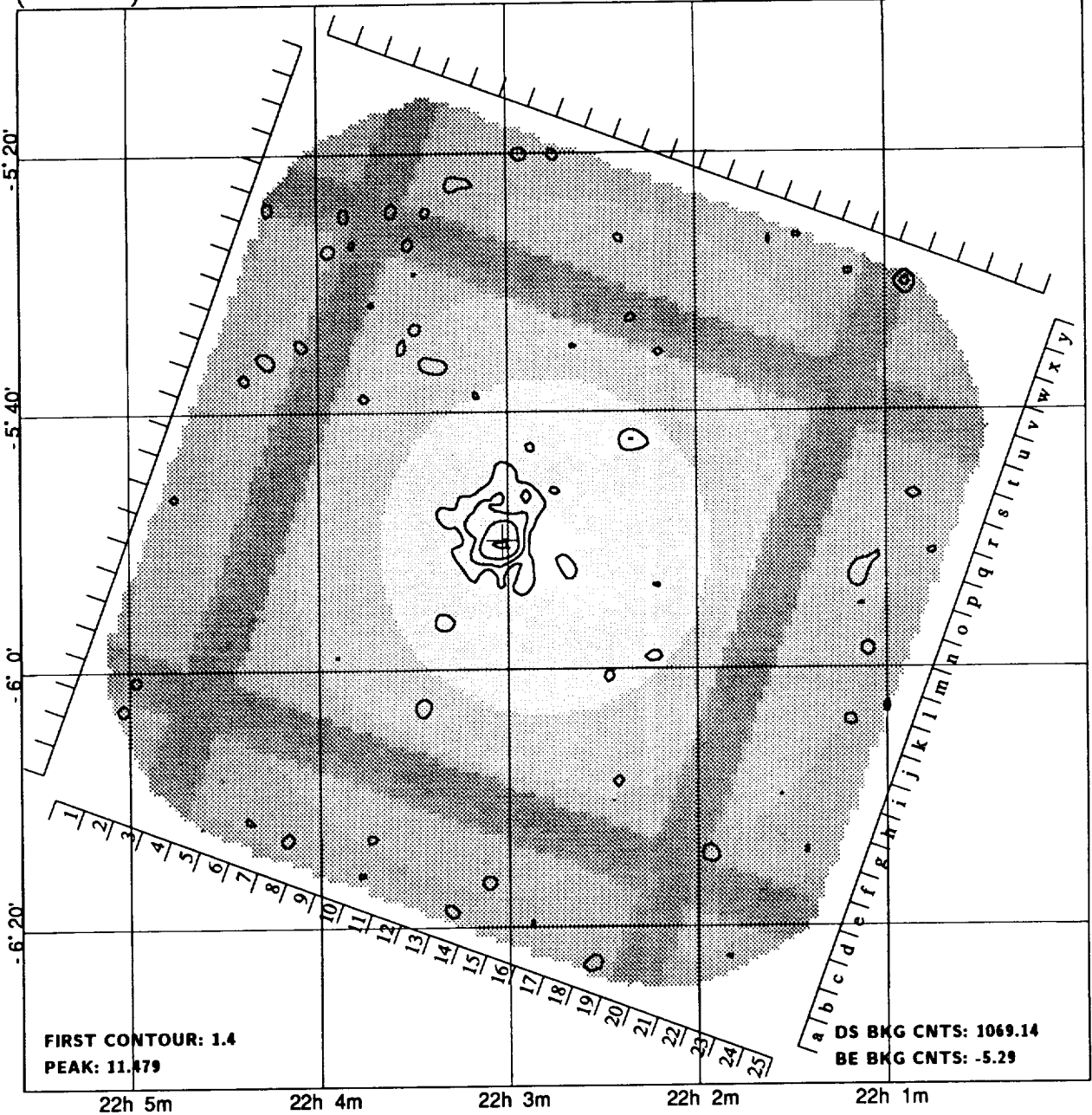
DATE: 1979/348 - 1979/348
LIVETIME: 584.7s
ROLL ANGLE: 117.8°

NH: $4.8E+21$
REF/ID: !
FIELD FLAGS:

(22h 2m)

I 130

(22h 2m)



A2415 CLUSTER SURFACE BRIGHTNESS

FIELD CENTER: $22^{\text{h}}02^{\text{m}}45.4^{\text{s}}$ $-05^{\circ}50'23''$ (B1950)
 $22^{\text{h}}05^{\text{m}}22.4^{\text{s}}$ $-05^{\circ}35'47''$ (J2000)
 $l: 53.92$ $b: -45.05$

DATE: 1979/140 - 1979/140
 LIVETIME: 866.4s
 ROLL ANGLE: -69.9°

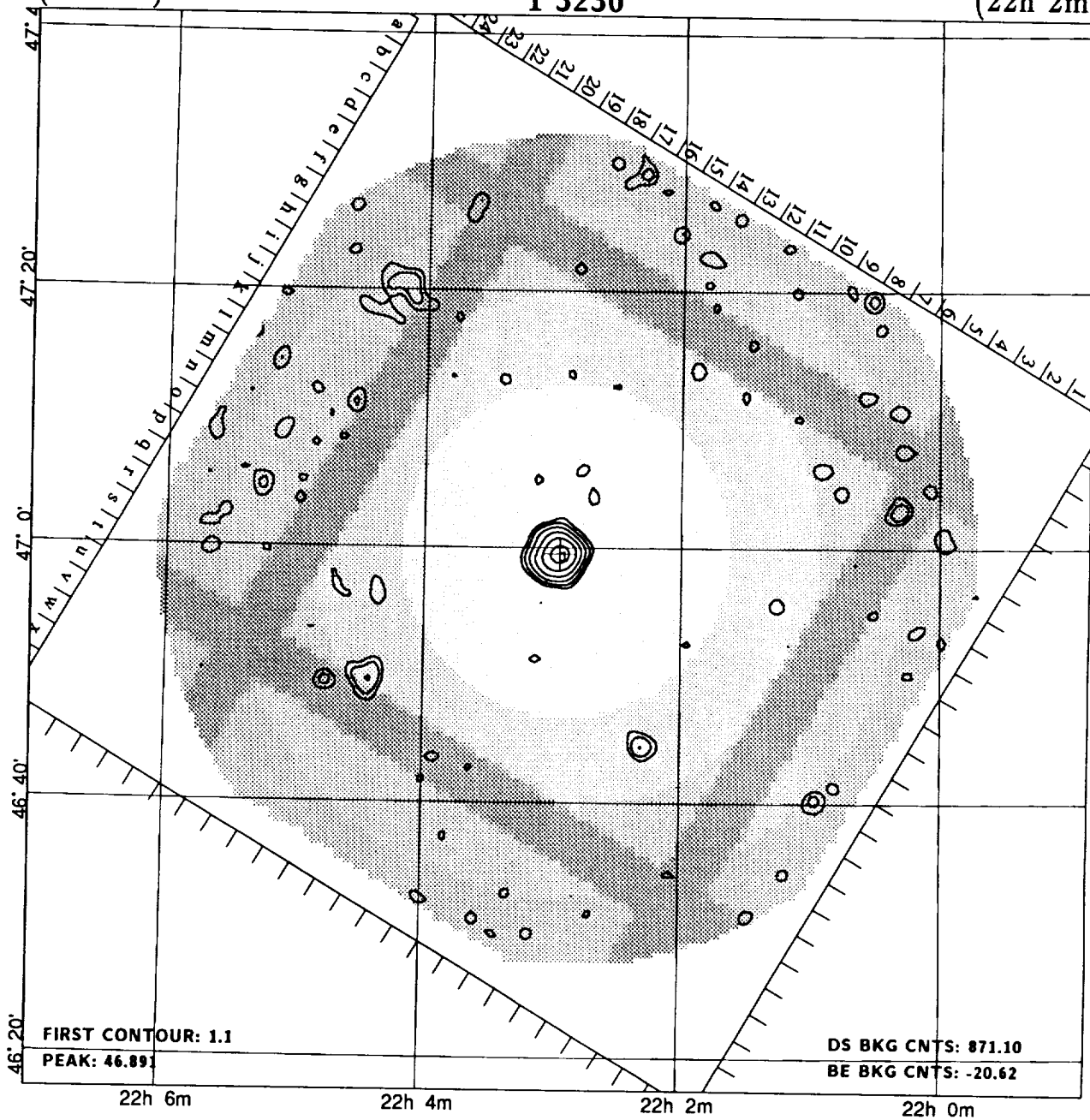
NH: $4.8\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID CLG
4568	1	22 03 01.7	-05 49 57	35	0.095	0.013	60.0	3.0	7.6	2.5	0	4.7	H	CLG

(22h 2m)

I 3230

(22h 2m)



RS CVN SYSTEMS: HK LAC

FIELD CENTER: $22^{\text{h}}02^{\text{m}}57.1^{\text{s}}$ $46^{\circ}59'26''$ (B1950)
 $22^{\text{h}}04^{\text{m}}56.0^{\text{s}}$ $47^{\circ}14'03''$ (J2000)
 $l: 95.92$ $b: -6.72$

DATE: 1979/348 - 1979/348
 LIVETIME: 705.9s
 ROLL ANGLE: 120.5°

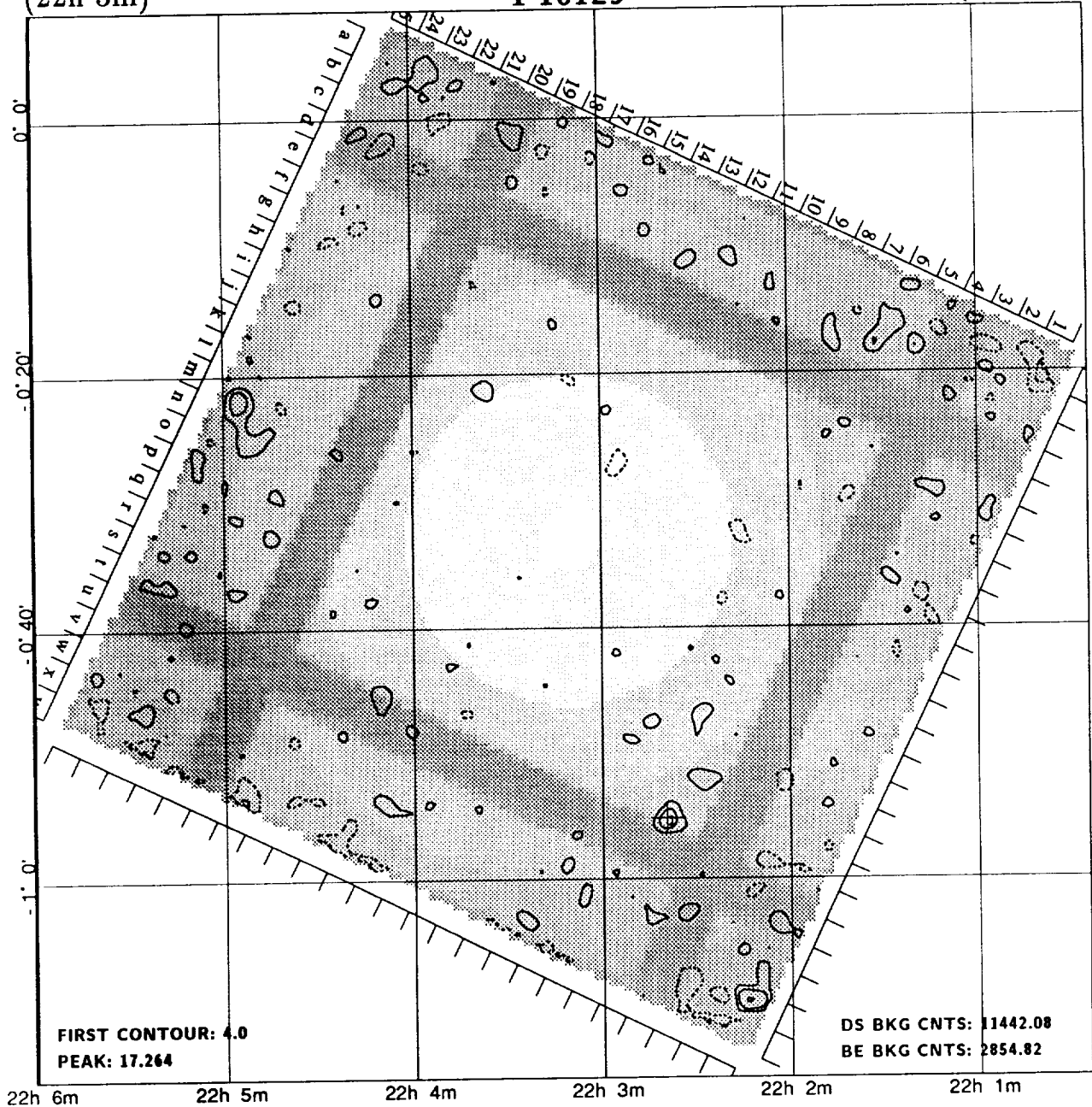
NH: $2.3\text{E}+21$
 REF/ID: !
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4567	1	22 02 56.6	46 59 29	31	0.357	0.026	187.9	2.1	13.6	1.2	0	0.2	H	CV

(22h 3m)

I 10129

(22h 3m)



ALPHA AQR, SEARCH FOR CORONAL EMISSION IN SUPERGIANTS

FIELD CENTER: $22^h 03^m 12.7^s$ $-00^\circ 33' 28''$ (B1950)
 $22^h 05^m 46.7^s$ $-00^\circ 18' 51''$ (J2000)
 $l: 59.93$ $b: -42.06$

DATE: 1980/355 - 1980/355
 LIVETIME: 9271.8s
 ROLL ANGLE: 115.8°

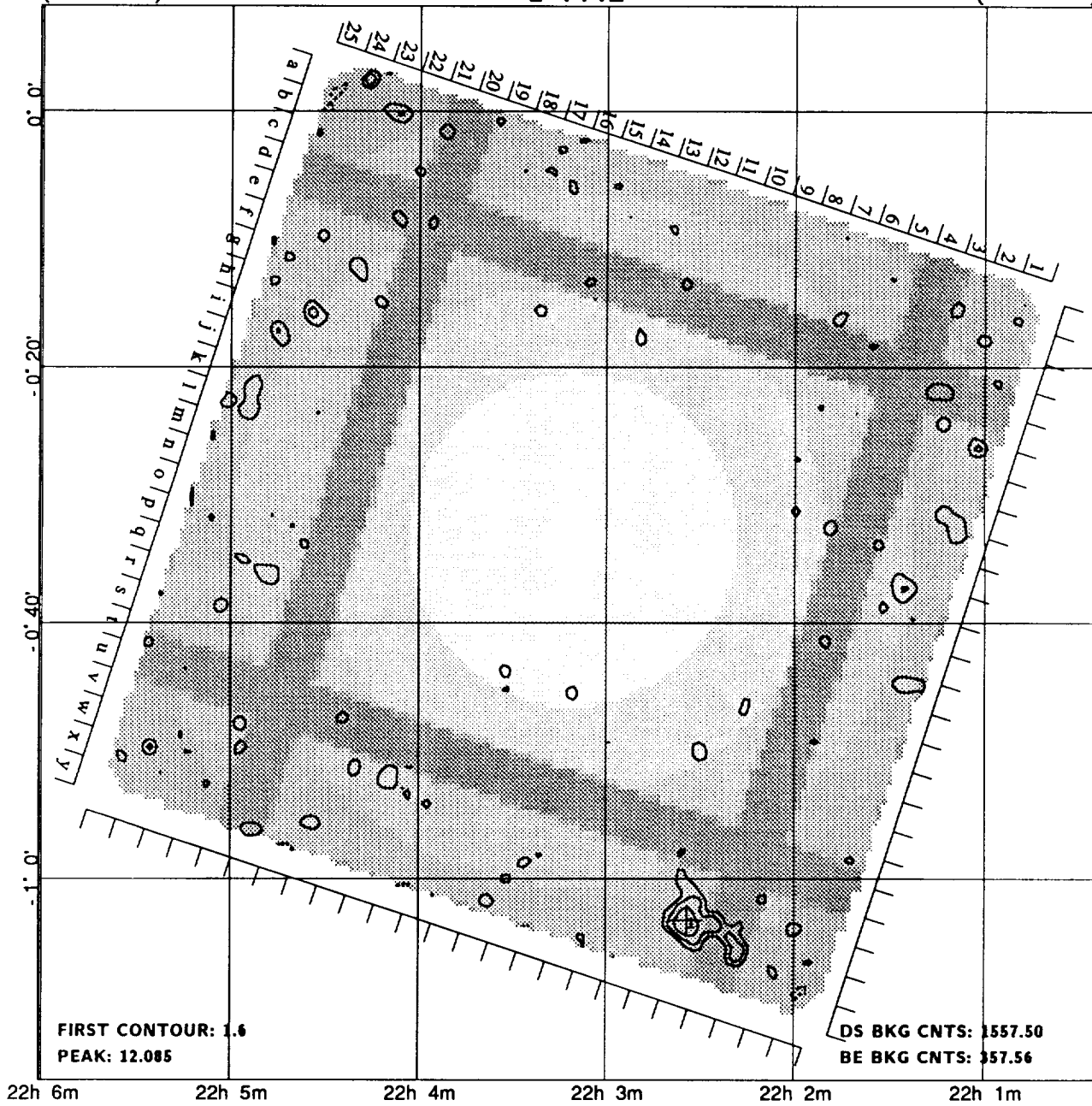
NH: $3.5E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4566	1	22 02 39.5	-00 55 09	55	*0.0060	0.0016	25.4	22.6	3.7	0.7	702	23.0	H

(22h 3m)

I 4442

(22h 3m)



ALPHA AQR, CORRELATION OF X RAYS WITH STELLAR WIND AND ROTATION

FIELD CENTER: 22^h03^m12.8^s -00°33'48" (B1950)
 22^h05^m46.9^s -00°19'11" (J2000)
l: 59.93 *b*: -42.07

DATE: 1979/316 - 1979/316
 LIVETIME: 1262.1s
 ROLL ANGLE: 108.1°

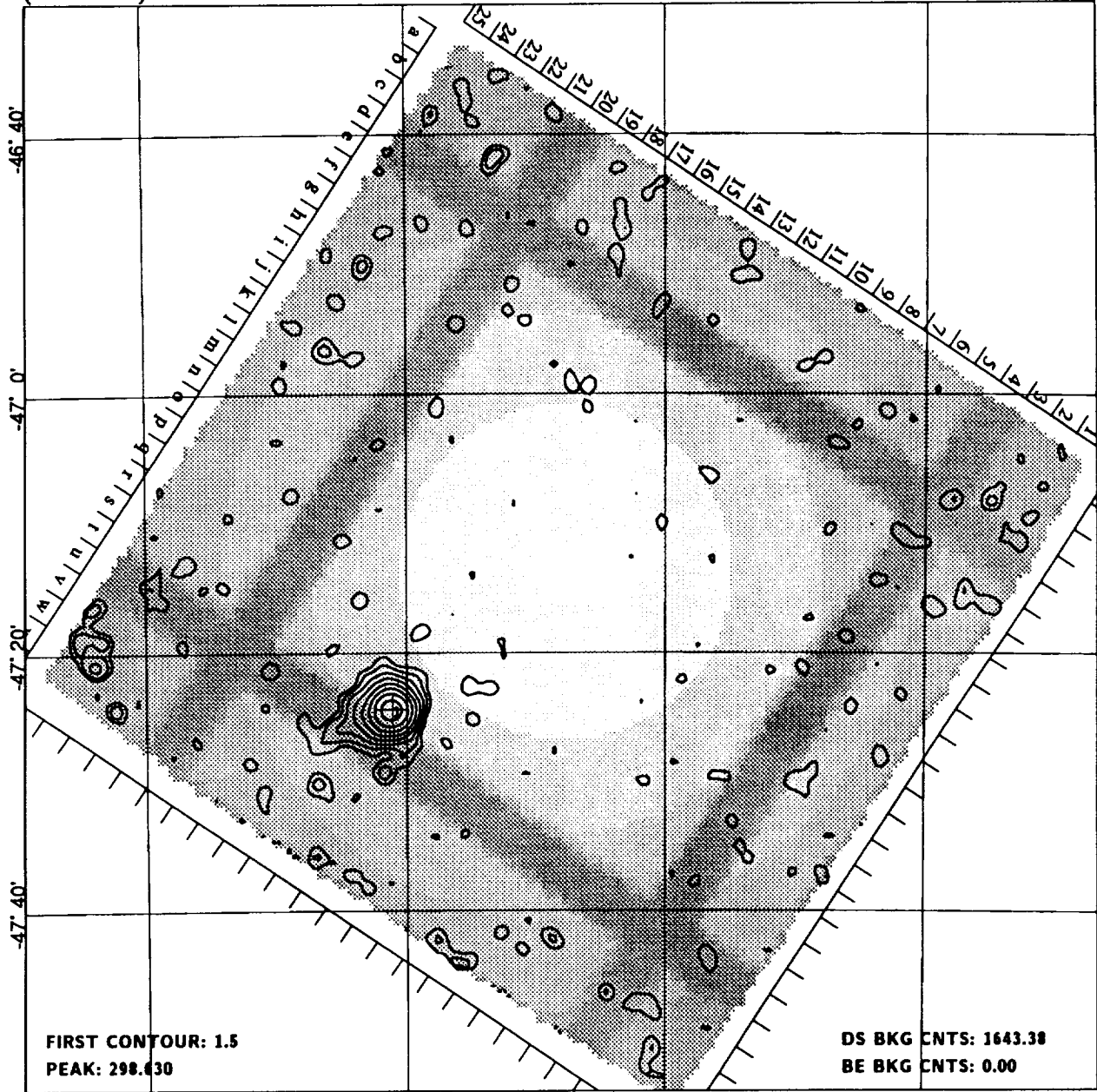
NH: 3.5E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4564	1	22 02 34.1	-01 03 17	52	0.042	0.011	17.6	2.4	3.9	1.6	300	30.9	H

(22h 4m)

I 2236

(22h 4m)



FIRST CONTOUR: 1.5
PEAK: 298.630

DS BKG CNTS: 1643.38
BE BKG CNTS: 0.00

STELLAR SURVEY-EARLY TYPE STARS: HD209952=ALPHA GRU

FIELD CENTER: $22^{\text{h}}04^{\text{m}}47.8^{\text{s}}$ $-47^{\circ}11'59''$ (B1950)
 $22^{\text{h}}07^{\text{m}}55.8^{\text{s}}$ $-46^{\circ}57'18''$ (J2000)
 $l: 350.03$ $b: -52.43$

DATE: 1979/295 - 1979/295
 LIVETIME: 1331.7s
 ROLL ANGLE: 123.6°

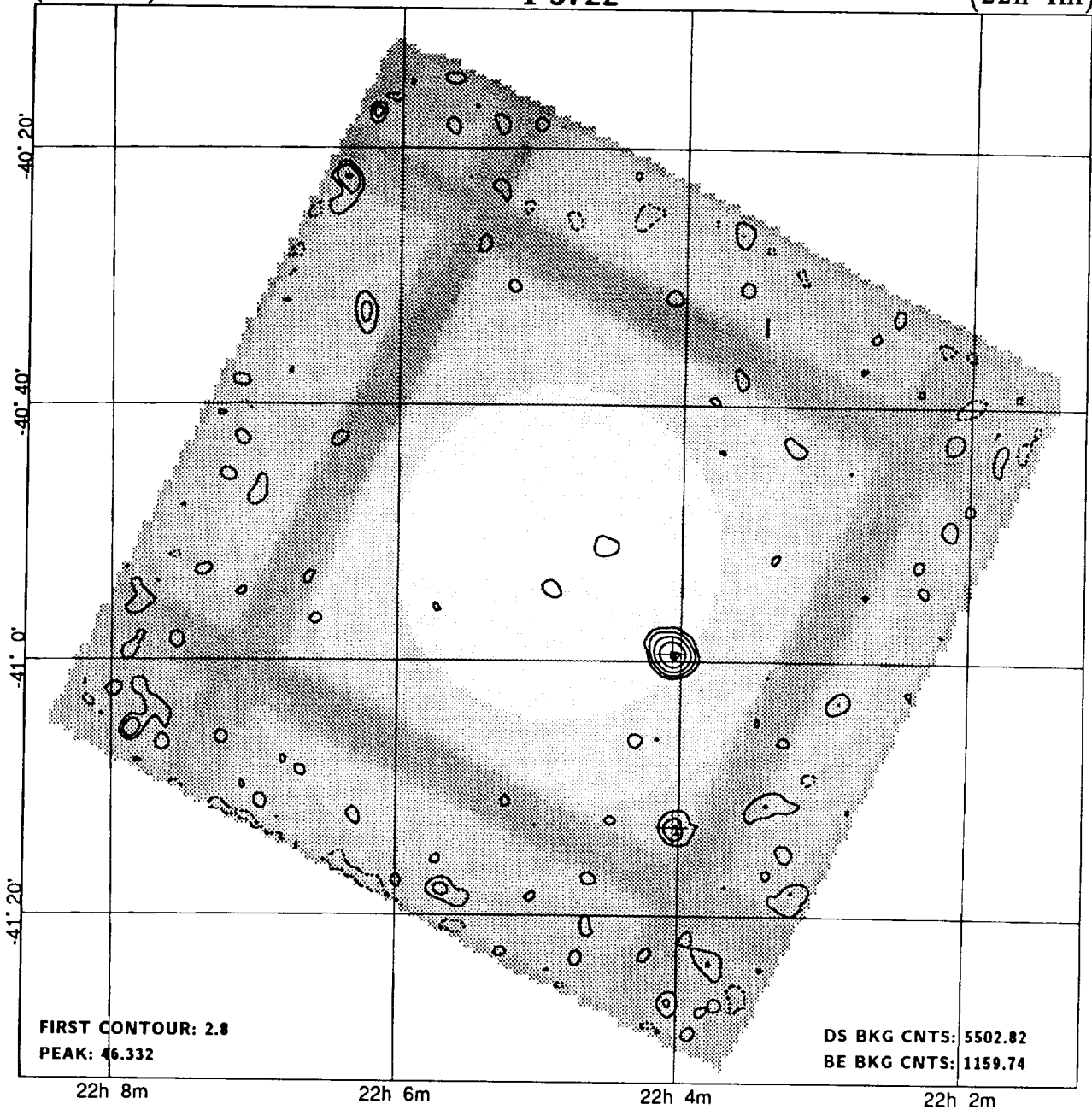
NH: $2.0E+20$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4571	1L	22 06 06.7	-47 24 29	47	*1.201	0.051	885.4	15.9	23.2	1.2	602	18.3	A	AGN

(22h 4m)

I 3722

(22h 4m)



2204-408 ,QUASAR SURVEY

FIELD CENTER: 22^h04^m53.9^s -40°50'59" (B1950)
 22^h07^m55.1^s -40°36'17" (J2000)
 l : 0.35 b : -53.87

DATE: 1979/300 - 1979/300
 LIVETIME: 4459.1s

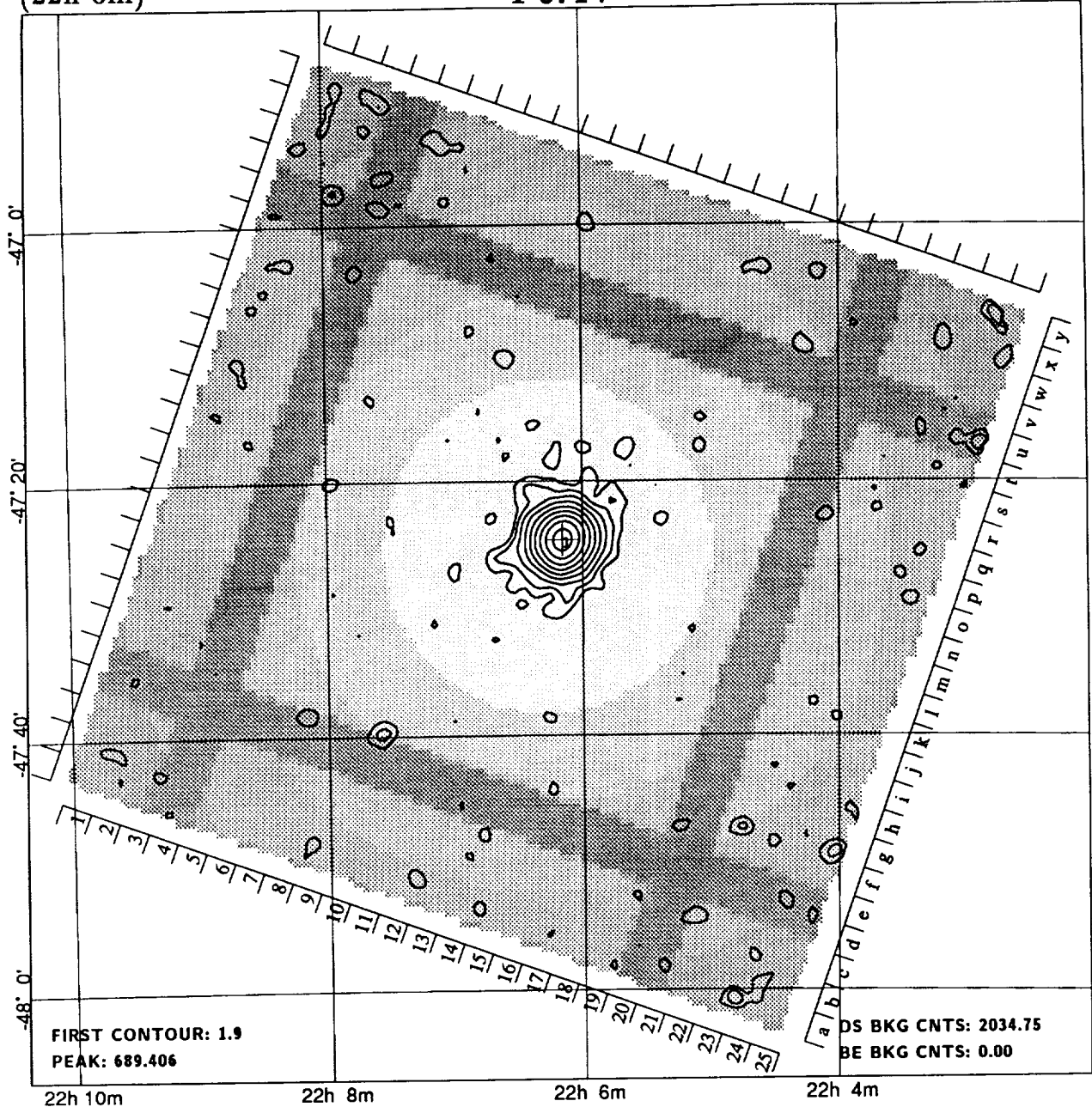
NH: 1.3E+20
 REF/ID: !
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4569	1	22 04 02.5	-41 13 01	55	0.0105	0.0028	21.4	10.6	3.8	0.8	600	24.2	H
4570	2	22 04 03.6	-40 59 23	38	0.0534	0.0045	152.5	14.5	11.8	1.0	0	12.7	H *

(22h 6m)

I 6714

(22h 6m)



SEYFERT SURVEY: NGC 7213

FIELD CENTER: 22^h06^m11.8^s -47°24'59" (B1950)
 22^h09^m19.6^s -47°10'15" (J2000)
 $l: 349.58$ $b: -52.59$

DATE: 1980/136 - 1980/136
 LIVETIME: 1648.8s
 ROLL ANGLE: -70.4°

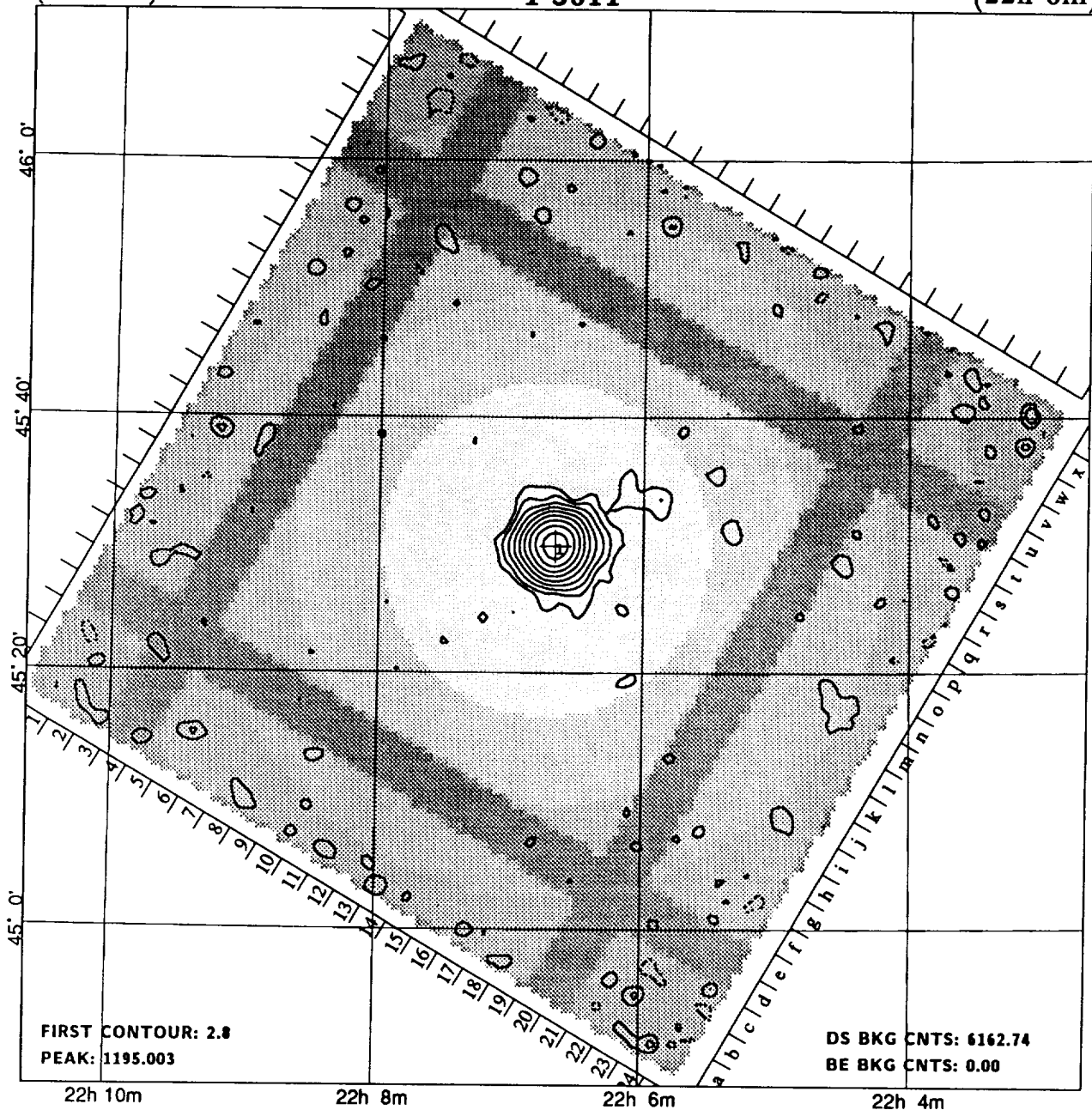
NH: 1.9E+20
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4571	1L	22 06 09.5	-47 24 36	31	2.137	0.051	2611.8	353.2	42.1	1.3	0	0.6	A	AGN

(22h 6m)

I 5011

(22h 6m)



AR LAC

FIELD CENTER: 22^h06^m39.3^s 45°29'43" (B1950)
 22^h08^m40.9^s 45°44'27" (J2000)
 $l: 95.56$ $b: -8.30$

DATE: 1980/165 - 1980/165
 LIVETIME: 4993.8s
 ROLL ANGLE: -59.8°

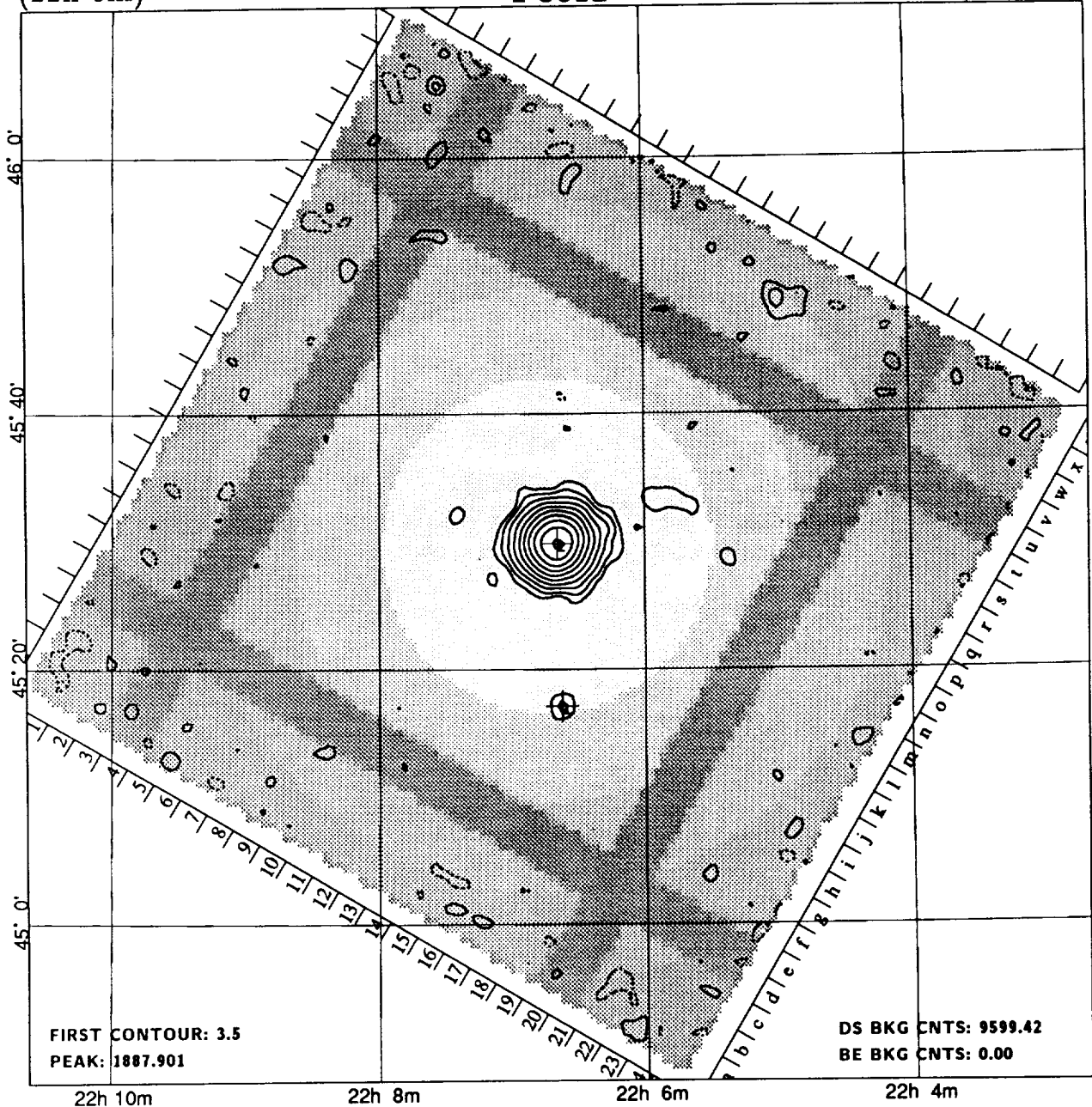
NH: 2.1E+21
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4573	1L	22 06 40.0	45 29 51	31	1.230	0.022	4574.8	722.1	55.0	1.4	0	0.3	A S

(22h 6m)

I 5012

(22h 6m)



FIRST CONTOUR: 3.5
PEAK: 1887.901

DS BKG CNTS: 9599.42
BE BKG CNTS: 0.00

22h 10m

22h 8m

22h 6m

22h 4m

AR LAC

FIELD CENTER: $22^{\text{h}}06^{\text{m}}39.3^{\text{s}}$ $45^{\circ}29'43''$ (B1950)
 $22^{\text{h}}08^{\text{m}}40.9^{\text{s}}$ $45^{\circ}44'27''$ (J2000)
 $l: 95.56$ $b: -0.30$

DATE: 1980/165 - 1980/165
 LIVETIME: 7778.7s
 ROLL ANGLE: -59.6°

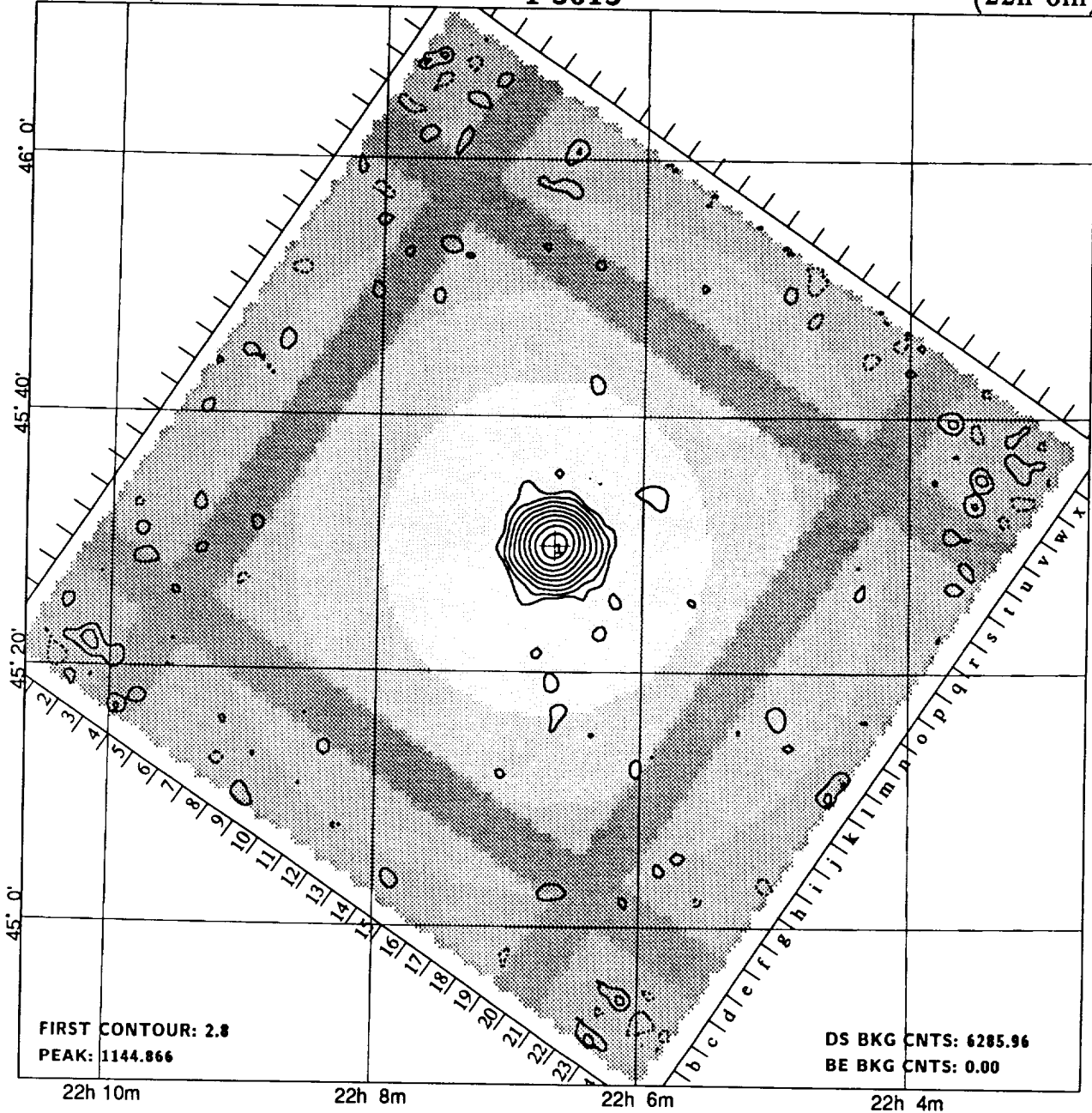
NH: $2.1\text{E}+21$
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4572	1L	22 06 37.6	45 17 07	43	0.0071	0.0017	34.7	14.3	4.1	0.6	0	12.6	
4573	2L	22 06 39.7	45 29 53	31	1.268	0.018	7343.4	1292.6	69.0	1.4	0	0.3	A S

(22h 6m)

I 5013

(22h 6m)



FIRST CONTOUR: 2.8
PEAK: 1144.866

DS BKG CNTS: 6285.96
BE BKG CNTS: 0.00

22h 10m

22h 8m

22h 6m

22h 4m

AR LAC

FIELD CENTER: 22^h06^m39.3^s 45°29'43" (B1950)
22^h08^m40.9^s 45°44'27" (J2000)
l: 95.56 *b*: -8.30

DATE: 1980/166 - 1980/166
LIVETIME: 5093.7s
ROLL ANGLE: -56.0°

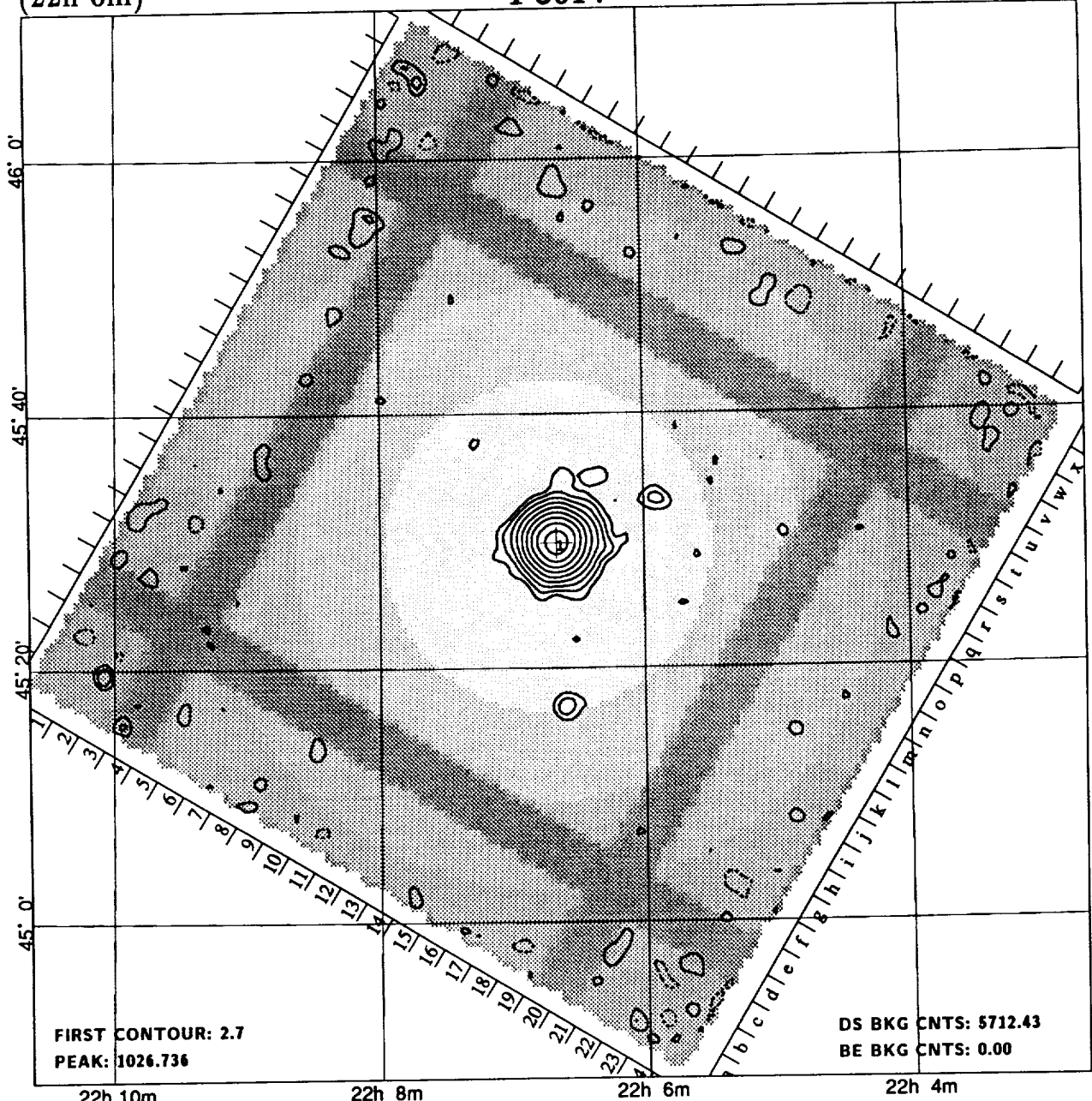
NH: 2.1E+21
REF/ID:
FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4573	1L	22 06 40.0	45 29 50	31	1.160	0.022	4400.0	756.0	53.5	1.4	0	0.2	A	S

(22h 6m)

I 5014

(22h 6m)



FIRST CONTOUR: 2.7
 PEAK: 1026.736

DS BKG CNTS: 5712.43
 BE BKG CNTS: 0.00

AR LAC

FIELD CENTER: 22^h06^m39.3^s 45°29'43" (B1950)
 22^h08^m40.9^s 45°44'27" (J2000)
 l : 95.56 b : -8.30

DATE: 1980/166 - 1980/166
 LIVETIME: 4628.9s
 ROLL ANGLE: -59.1°

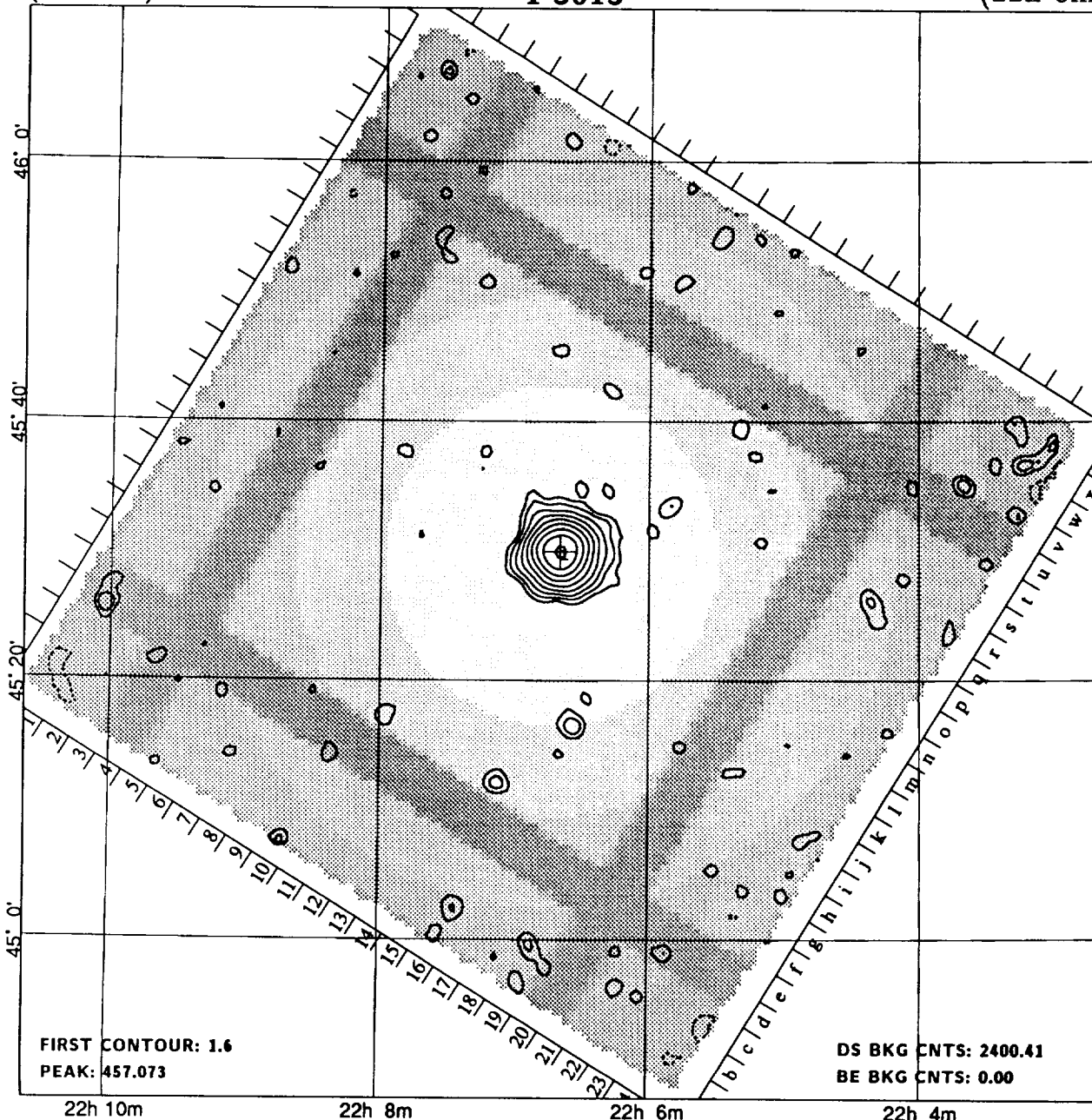
NH: 2.1E+21
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4573	1L	22 06 40.0	45 29 51	31	1.172	0.023	4039.4	663.6	51.5	1.4	0	0.2	A	S

(22h 6m)

I 5015

(22h 6m)



FIRST CONTOUR: 1.6
 PEAK: 457.073

DS BKG CNTS: 2400.41
 BE BKG CNTS: 0.00

22h 10m

22h 8m

22h 6m

22h 4m

AR LAC

FIELD CENTER: $22^{\text{h}}06^{\text{m}}39.3^{\text{s}}$ $45^{\circ}29'43''$ (B1950)
 $22^{\text{h}}08^{\text{m}}40.9^{\text{s}}$ $45^{\circ}44'27''$ (J2000)
 $l: 95.56$ $b: -8.30$

DATE: 1980/167 - 1980/167

NH: $2.1\text{E}+21$

LIVETIME: 1945.1s

REF/ID:

ROLL ANGLE: -58.5°

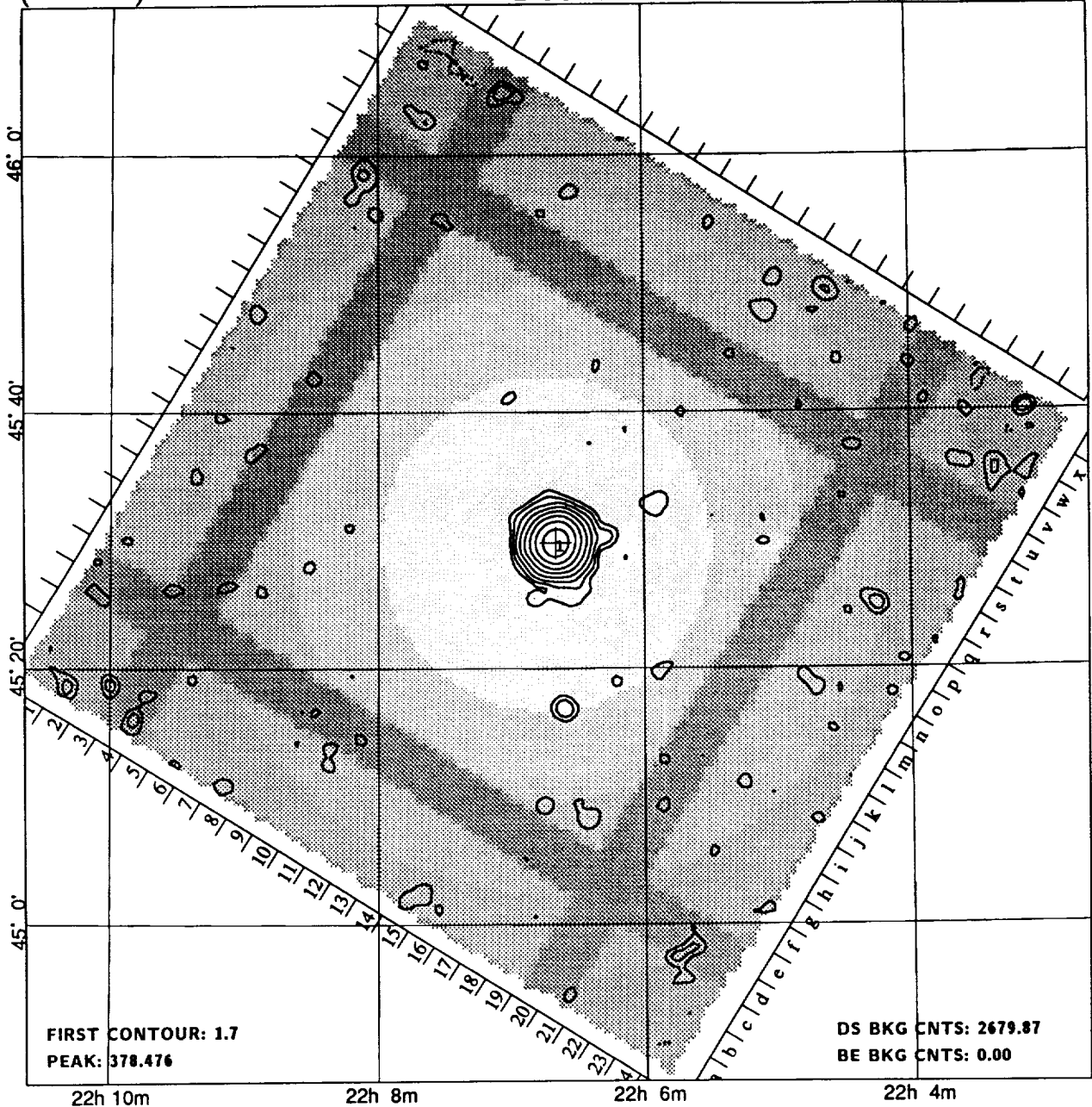
FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4573	1L	22 06 39.8	45 29 56	31	1.261	0.037	1826.7	322.3	34.3	1.4	0	0.2	A S

(22h 6m)

I 5016

(22h 6m)



FIRST CONTOUR: 1.7
PEAK: 378.476

DS BKG CNTS: 2679.87
BE BKG CNTS: 0.00

AR LAC

FIELD CENTER: $22^{\text{h}}06^{\text{m}}39.3^{\circ}$ $45^{\circ}29'43''$ (B1950)
 $22^{\text{h}}08^{\text{m}}40.9^{\circ}$ $45^{\circ}44'27''$ (J2000)
 $l: 95.56$ $b: -8.30$

DATE: 1980/167 - 1980/167
 LIVETIME: 2171.6s
 ROLL ANGLE: -58.3°

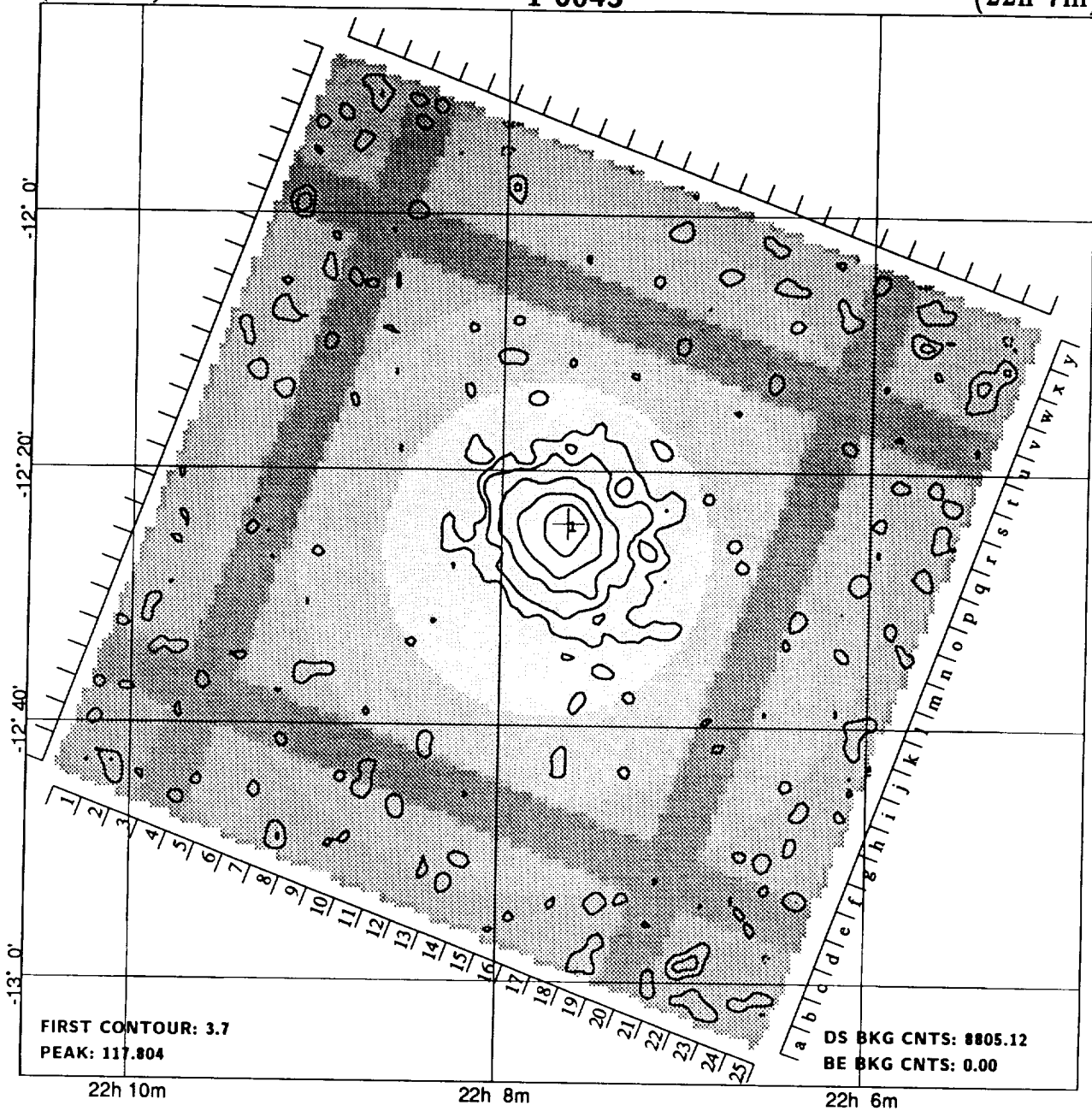
NH: $2.1\text{E}+21$
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4573	1L	22 06 39.9	45 29 51	31	0.884	0.029	1429.3	264.7	30.2	1.4	0	0.2	A S

(22h 7m)

I 6045

(22h 7m)



A2420,RICH CLUSTERS WITH DOMINANT GALAXIES

FIELD CENTER: $22^{\text{h}}07^{\text{m}}41.8^{\text{s}}$ $-12^{\circ}25'59''$ (B1950)
 $22^{\text{h}}10^{\text{m}}22.4^{\text{s}}$ $-12^{\circ}11'12''$ (J2000)
 $l: 46.48$ $b: -49.47$

DATE: 1980/130 - 1980/131
 LIVETIME: 7135.0s
 ROLL ANGLE: -69.4°

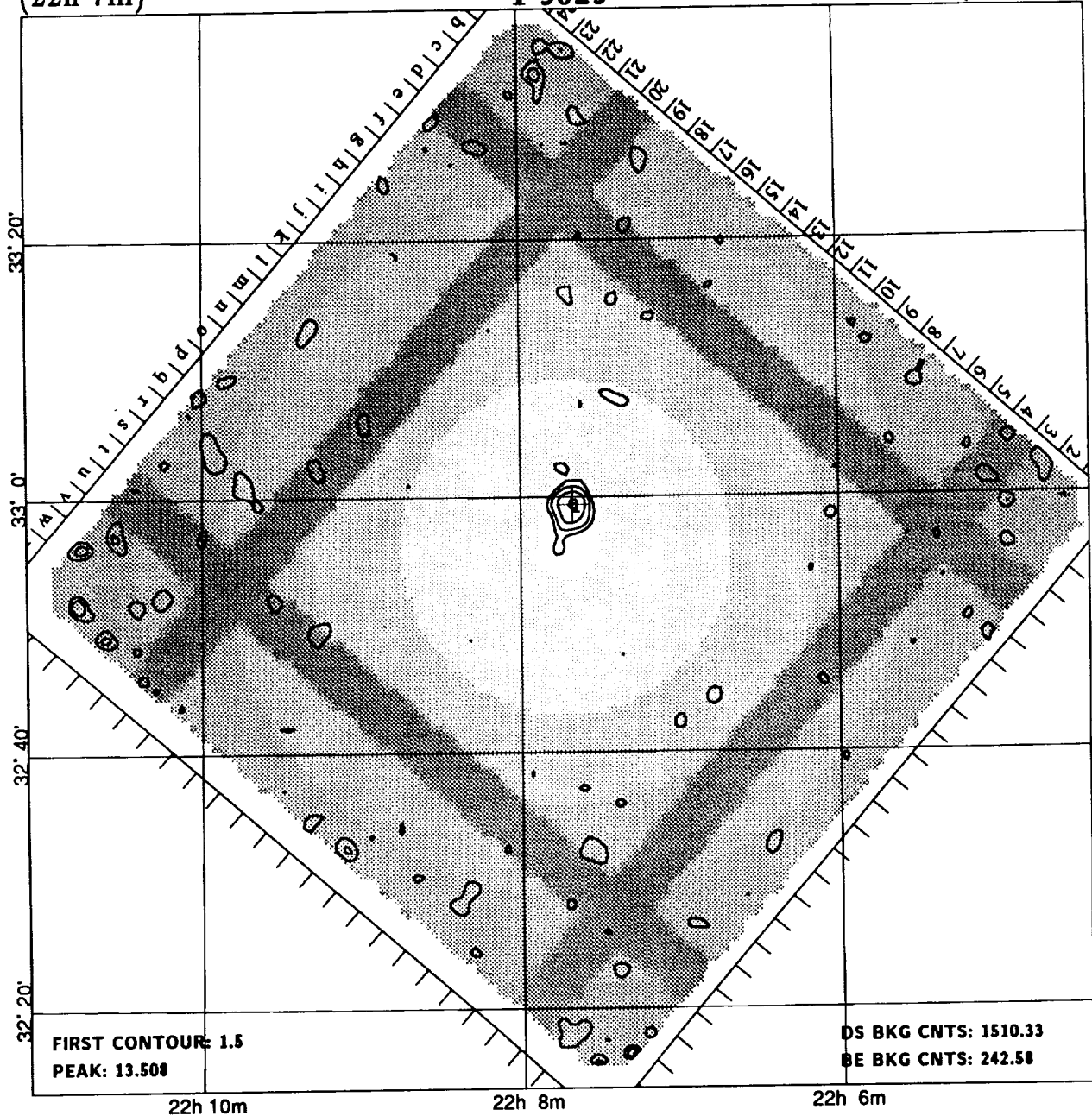
NH: $3.7E+20$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	CCUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4575	1L	22 07 38.3	-12 24 08	31	0.0578	0.0058	302.1	295.9	9.9	4.9	0	2.2	

(22h 7m)

I 9029

(22h 7m)



THE FK COMAE STARS: PI Peg

FIELD CENTER: $22^{\text{h}}07^{\text{m}}45.6^{\text{s}}$ $32^{\circ}55'55''$ (B1950)
 $22^{\text{h}}09^{\text{m}}59.1^{\text{s}}$ $33^{\circ}10'42''$ (J2000)
 $l: 88.06$ $b: -18.54$

DATE: 1980/364 - 1980/364
 LIVETIME: 1223.9s
 ROLL ANGLE: 130.8°

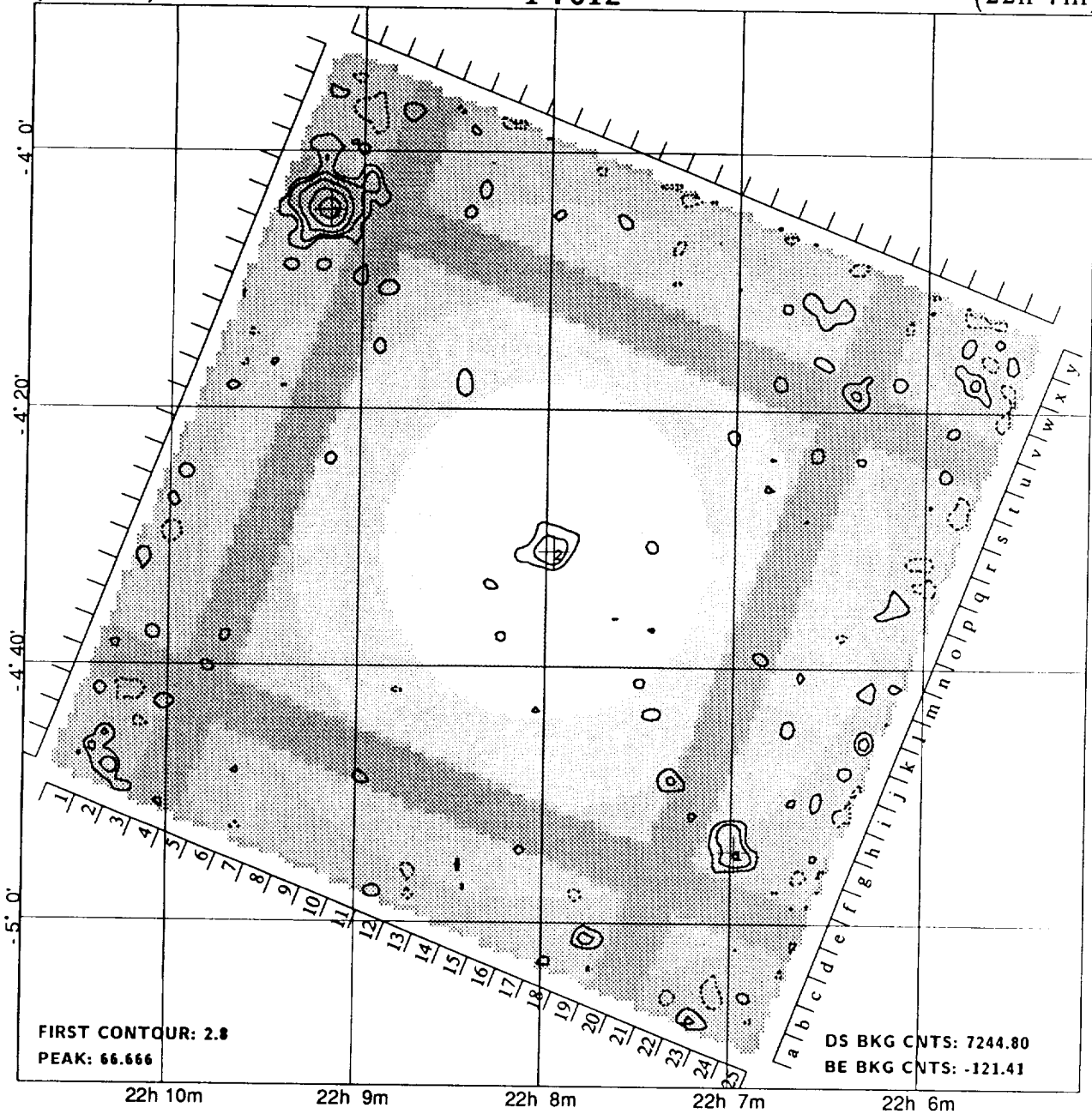
NH: $8.8\text{E}+20$
 REF/ID: CV
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4576	1	22 07 40.4	32 59 23	35	0.0538	0.0082	47.9	5.1	6.6	1.1	0	3.5	H

(22h 7m)

I 7612

(22h 7m)



HD 210434, SELECTED LATE-TYPE STARS W/CHROMOSPHERIC ACTIVITY

FIELD CENTER: $22^h 07^m 57.1^s$ $-04^{\circ} 30' 48''$ (B1950)
 $22^h 10^m 33.2^s$ $-04^{\circ} 16' 01''$ (J2000)
 $l: 56.51$ $b: -45.37$

DATE: 1980/152 - 1980/152
 LIVETIME: 5870.7s
 ROLL ANGLE: -68.5°

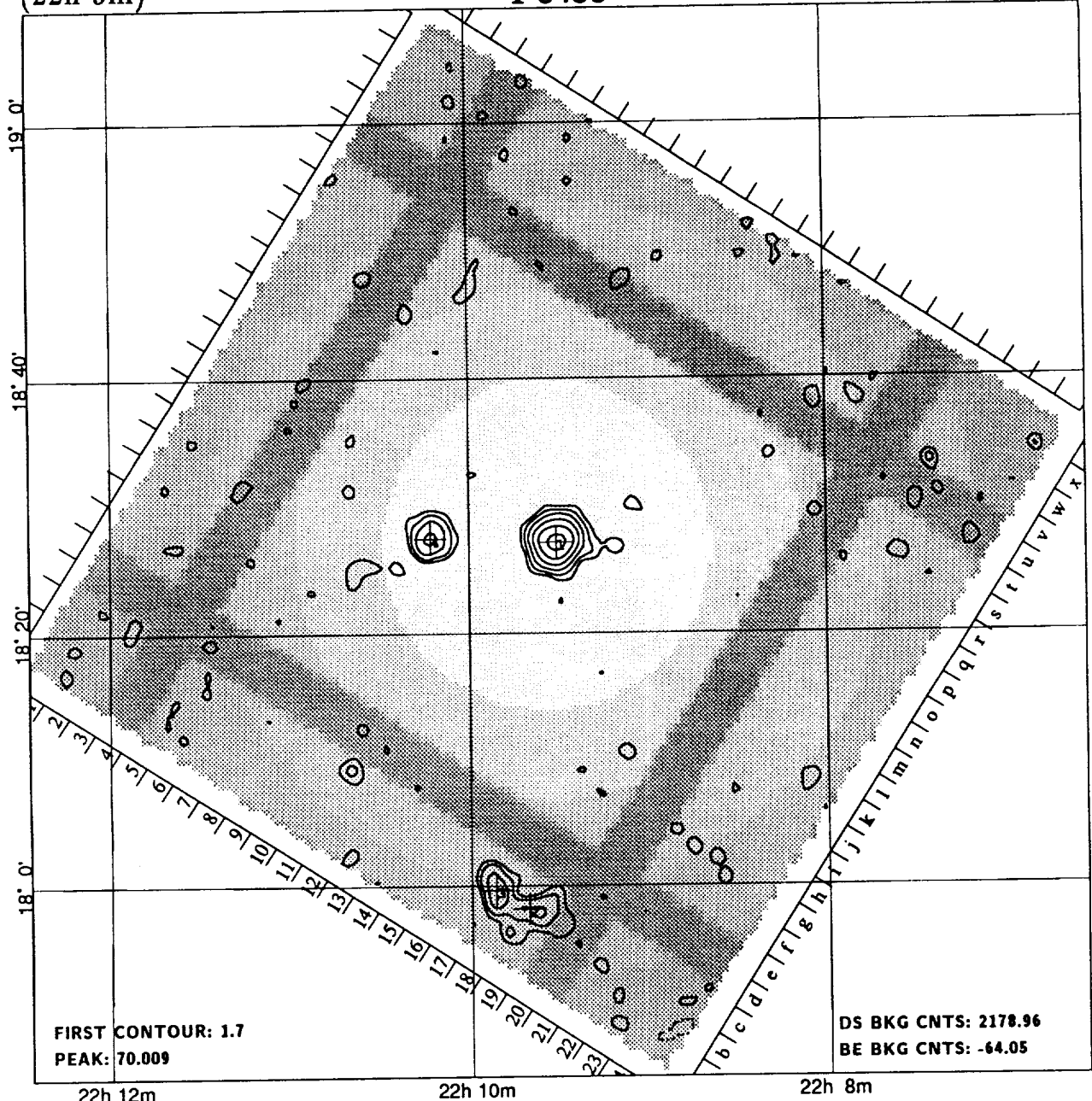
NH: $5.8E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4574	1	22 06 58.9	-04 54 25	52	0.0106	0.0027	23.7	13.3	3.9	1.3	0	27.7	H S	
4577	2	22 07 57.6	-04 31 05	35	0.0097	0.0018	42.2	17.8	5.4	1.3	0	0.2	H	
4578	3	22 09 10.3	-04 04 31	48	*0.0616	0.0059	116.4	9.6	10.4	1.6	1109	32.1	H	

(22h 9m)

I 8438

(22h 9m)



FIRST CONTOUR: 1.7
 PEAK: 70.009

DS BKG CNTS: 2178.96
 BE BKG CNTS: -64.05

SURVEY OF BRIGHT (PG) QUASARS

FIELD CENTER: $22^{\text{h}}09^{\text{m}}30.0^{\text{s}}$ $18^{\circ}27'00''$ (B1950)
 $22^{\text{h}}11^{\text{m}}53.5^{\text{s}}$ $18^{\circ}41'51''$ (J2000)
 $l: 78.37$ $b: -30.05$

DATE: 1980/167 - 1980/167
 LIVETIME: 1765.7s
 ROLL ANGLE: -57.4°

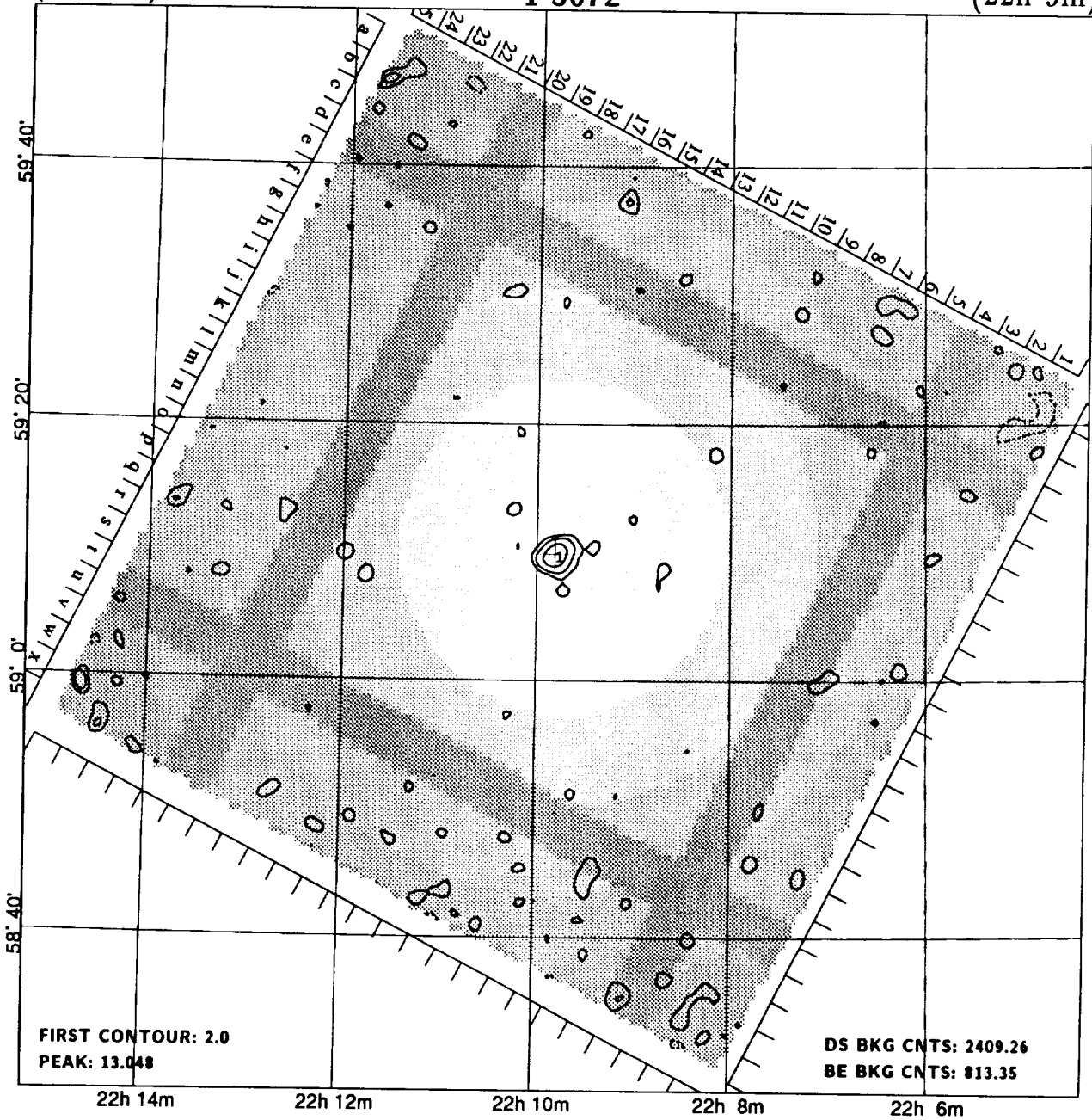
NH: $4.8\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4579	1	22 09 30.6	18 27 07	31	0.233	0.013	306.8	5.2	17.4	1.3	0	0.4	H	Q
4580	2	22 09 40.8	17 58 11	55	0.0256	0.0068	16.8	3.2	3.7	3.2	400	29.0	H	
4582	3	22 09 51.9	17 59 39	51	0.0384	0.0079	26.5	3.5	4.8	2.4	100	27.3	H	
4583	4	22 10 13.0	18 27 25	41	0.0510	0.0068	60.7	5.3	7.5	1.1	0	10.3	H	

(22h 9m)

I 5072

(22h 9m)



LAMBDA CEP, LUMINOUS EARLY-TYPE STAR

FIELD CENTER: 22^h 09^m 48.4^s 59° 10' 02" (B1950)
 22^h 11^m 30.5^s 59° 24' 52" (J2000)
 l : 103.83 b : 2.61

DATE: 1979/348 - 1979/348
 LIVETIME: 1952.3s
 ROLL ANGLE: 117.2°

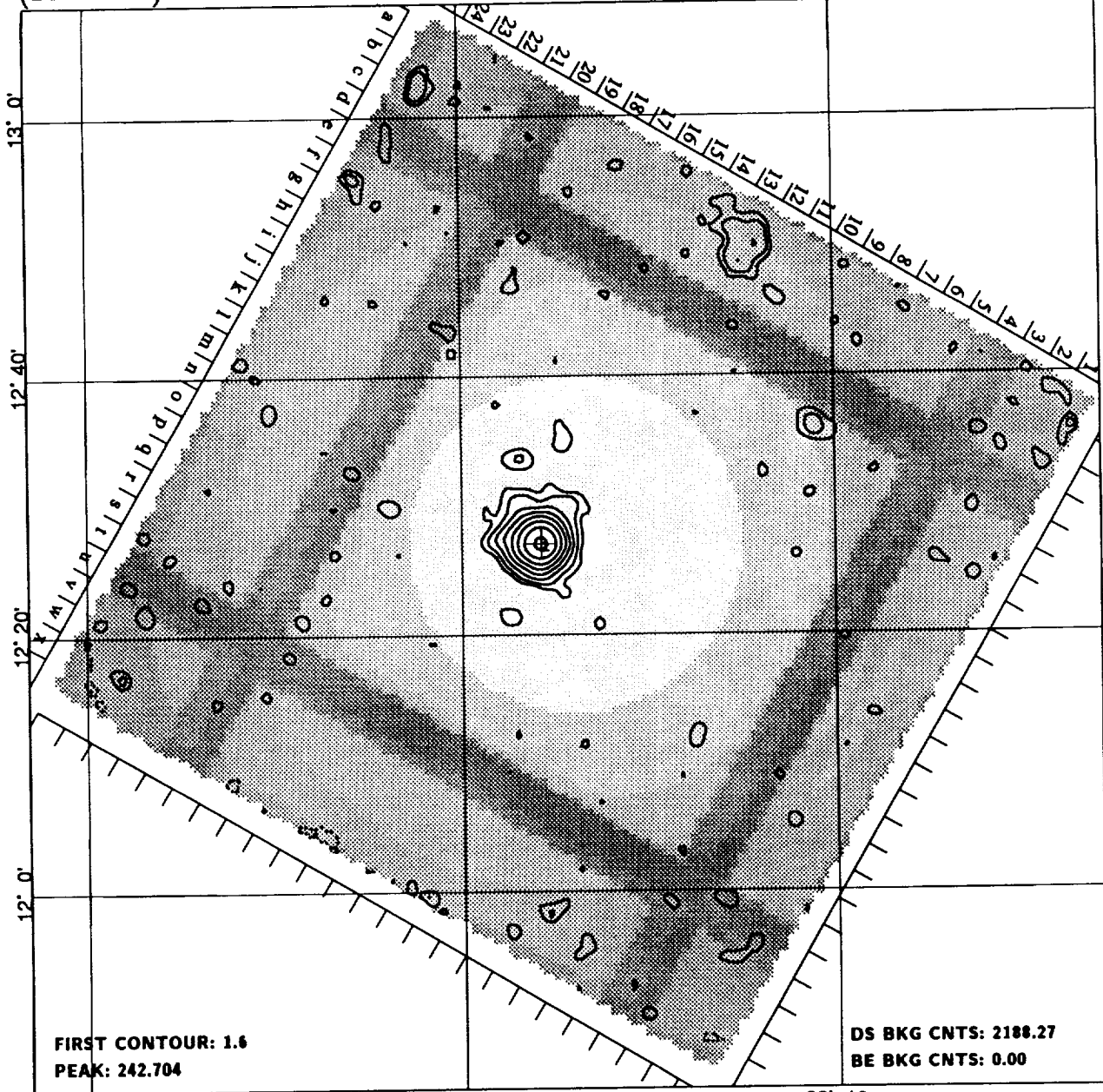
NH: 8.5E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4581	1	22 09 48.7	59 09 50	35	0.0375	0.0055	54.5	8.5	6.9	1.0	0	0.4	H	S

(22h 11m)

I 2279

(22h 11m)



FIRST CONTOUR: 1.6
PEAK: 242.704

DS BKG CNTS: 2188.27
BE BKG CNTS: 0.00

22h 14m

22h 12m

22h 10m

STELLAR SURVEY-CATAclySMIC VARIABLES: RU PEG

FIELD CENTER: 22^h 11^m 26.8^s 12° 26' 46" (B1950)
22^h 13^m 53.8^s 12° 41' 41" (J2000)
l: 74.00 *b*: -34.81

DATE: 1980/356 - 1980/356
LIVETIME: 1773.2s
ROLL ANGLE: 120.2°

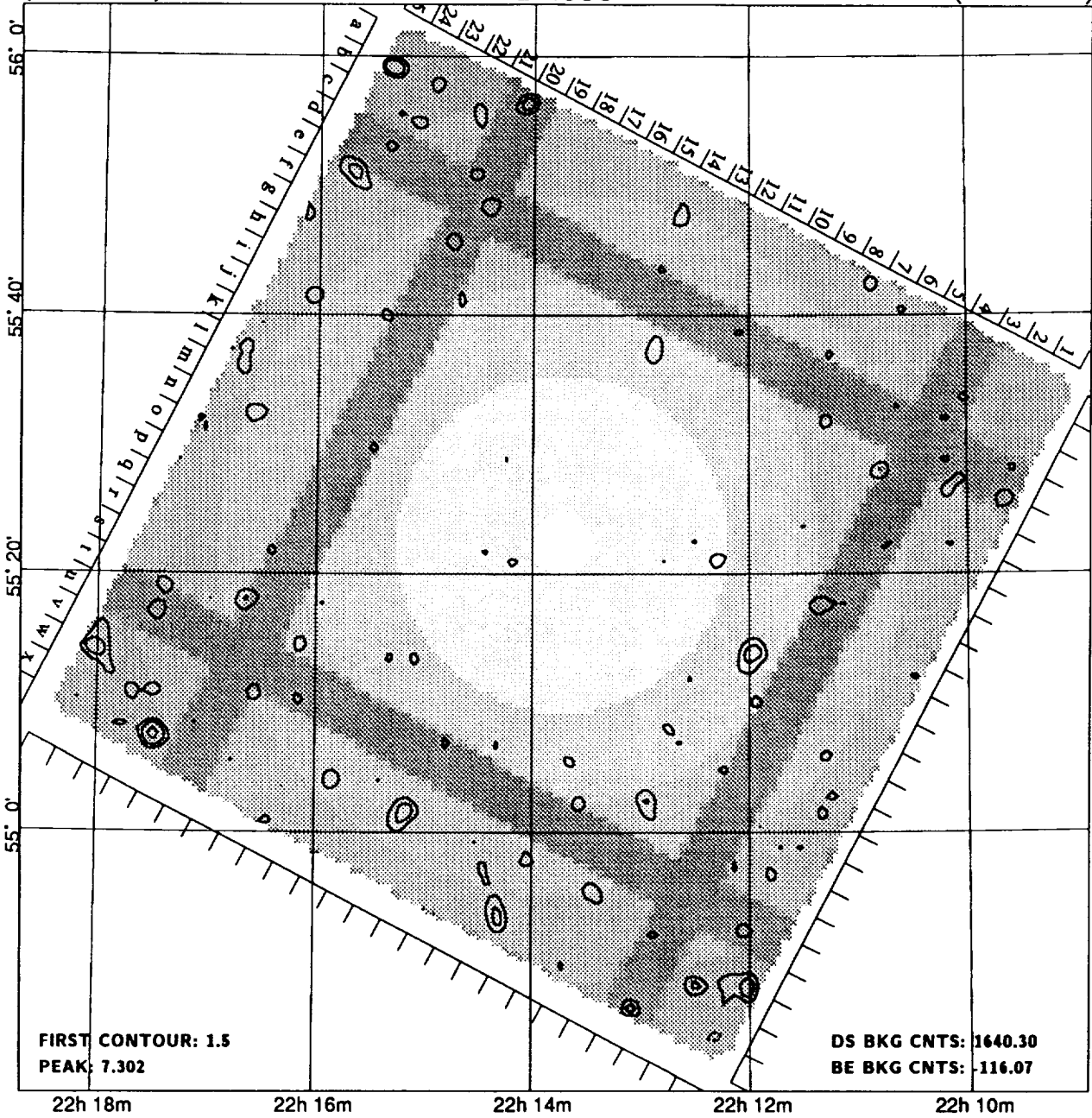
NH: 5.2E+20
REF/ID: !
FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4584	1L	22 11 34.5	12 27 03	31	0.721	0.028	936.7	93.3	25.8	1.3	0	1.9		CV

(22h 13m)

I 4558

(22h 13m)



CP LAC, OPTICAL NOVA

FIELD CENTER: 22^h13^m47.8^s 55°21'59" (B1950)
 22^h15^m38.5^s 55°36'57" (J2000)
 l : 102.14 b : -0.83

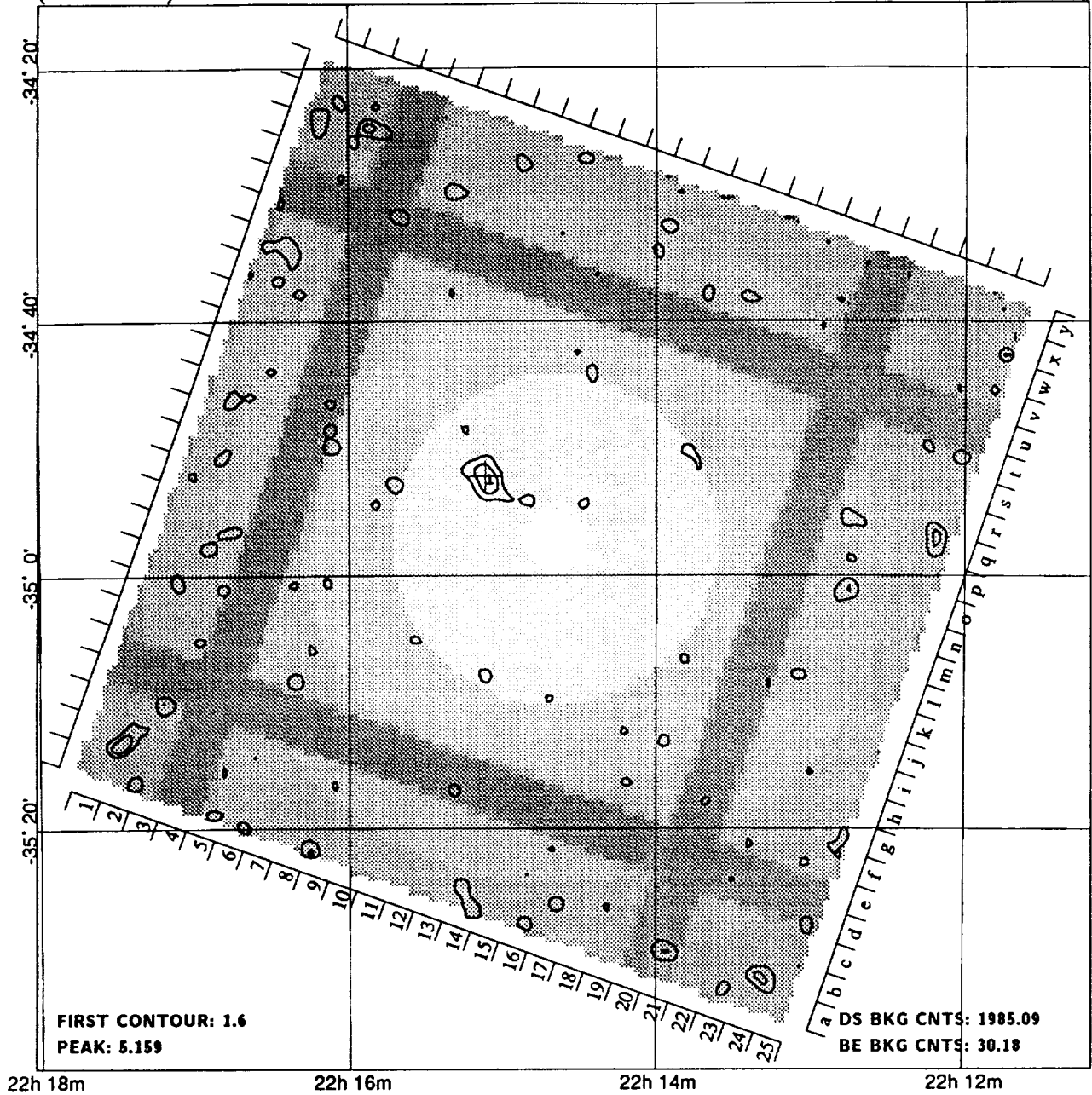
DATE: 1979/348 - 1979/348
 LIVETIME: 1329.2s
 ROLL ANGLE: 117.5°

NH: 5.8E+21
 REF/ID: S
 FIELD FLAGS:

(22h 14m)

I 1866

(22h 14m)



22146-3457: X-RAY STUDY OF CLUSTERS OF GALAXIES

FIELD CENTER: $22^h 14^m 35.8^s$ $-34^\circ 56' 59''$ (B1950)
 $22^h 17^m 30.0^s$ $-34^\circ 41' 58''$ (J2000)
 $l: 10.31$ $b: -56.34$

DATE: 1979/142 - 1979/142
 LIVETIME: 1608.6s
 ROLL ANGLE: -70.6°

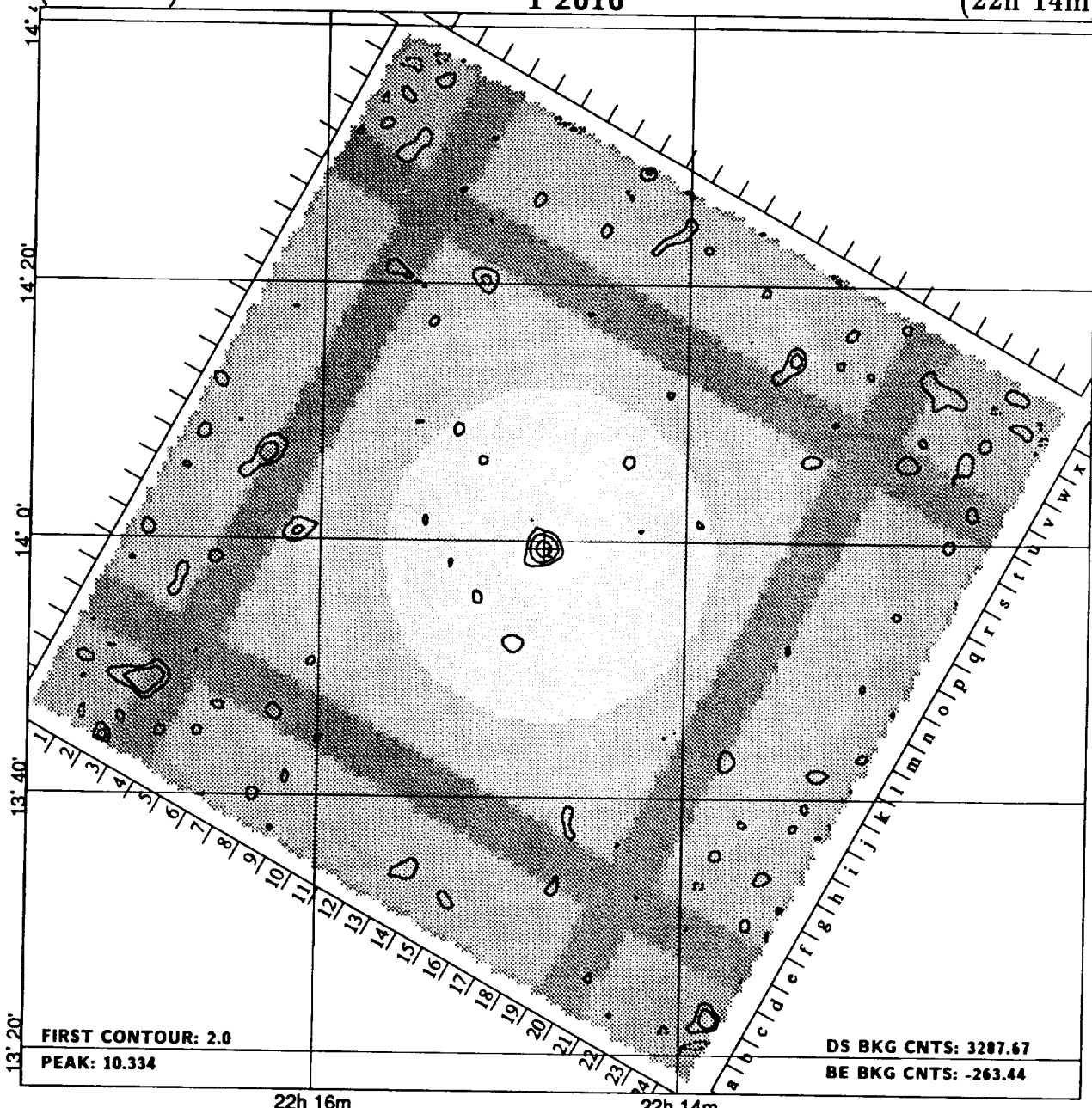
NH: $1.1E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4586	1	22 15 06.8	-34 52 12	46	0.0155	0.0042	17.3	4.7	3.7	1.0	0	8.2	H

(22h 14m)

I 2616

(22h 14m)



FIRST CONTOUR: 2.0
 PEAK: 10.334

DS BKG CNTS: 3287.67
 BE BKG CNTS: -263.44

SEYFERT GALAXY SURVEY: MKN 304

FIELD CENTER: $22^h 14^m 41.8^s$ $13^\circ 58' 59''$ (B1950)
 $22^h 17^m 08.2^s$ $14^\circ 14' 00''$ (J2000)
 $l: 75.97$ $b: -34.22$

DATE: 1979/168 - 1979/168
 LIVETIME: 2664.1s
 ROLL ANGLE: -61.2°

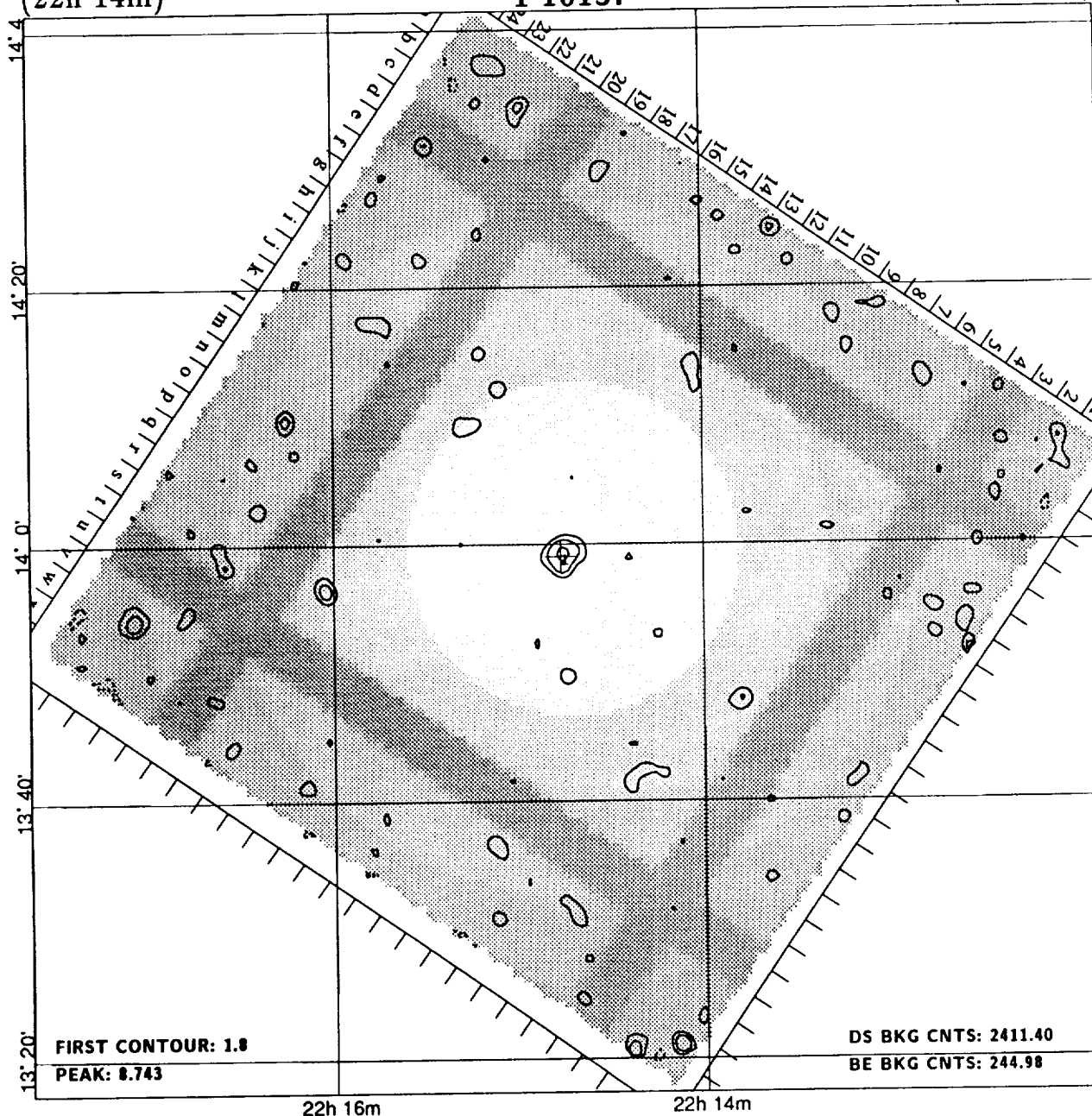
NH: $4.9E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4585	1	22 14 46.6	13 59 23	35	0.0188	0.0033	37.2	6.8	5.6	0.8	0	1.3	A	*

(22h 14m)

I 10137

(22h 14m)



MKN 304, X-RAY VARIABILITY OF SEYFERTS

FIELD CENTER: $22^h 14^m 45.0^s$ $13^\circ 59' 26''$ (B1950)
 $22^h 17^m 11.4^s$ $14^\circ 14' 27''$ (J2000)
 $l: 75.99$ $b: -34.22$

DATE: 1980/356 - 1980/356
 LIVETIME: 1954.0s
 ROLL ANGLE: 124.6°

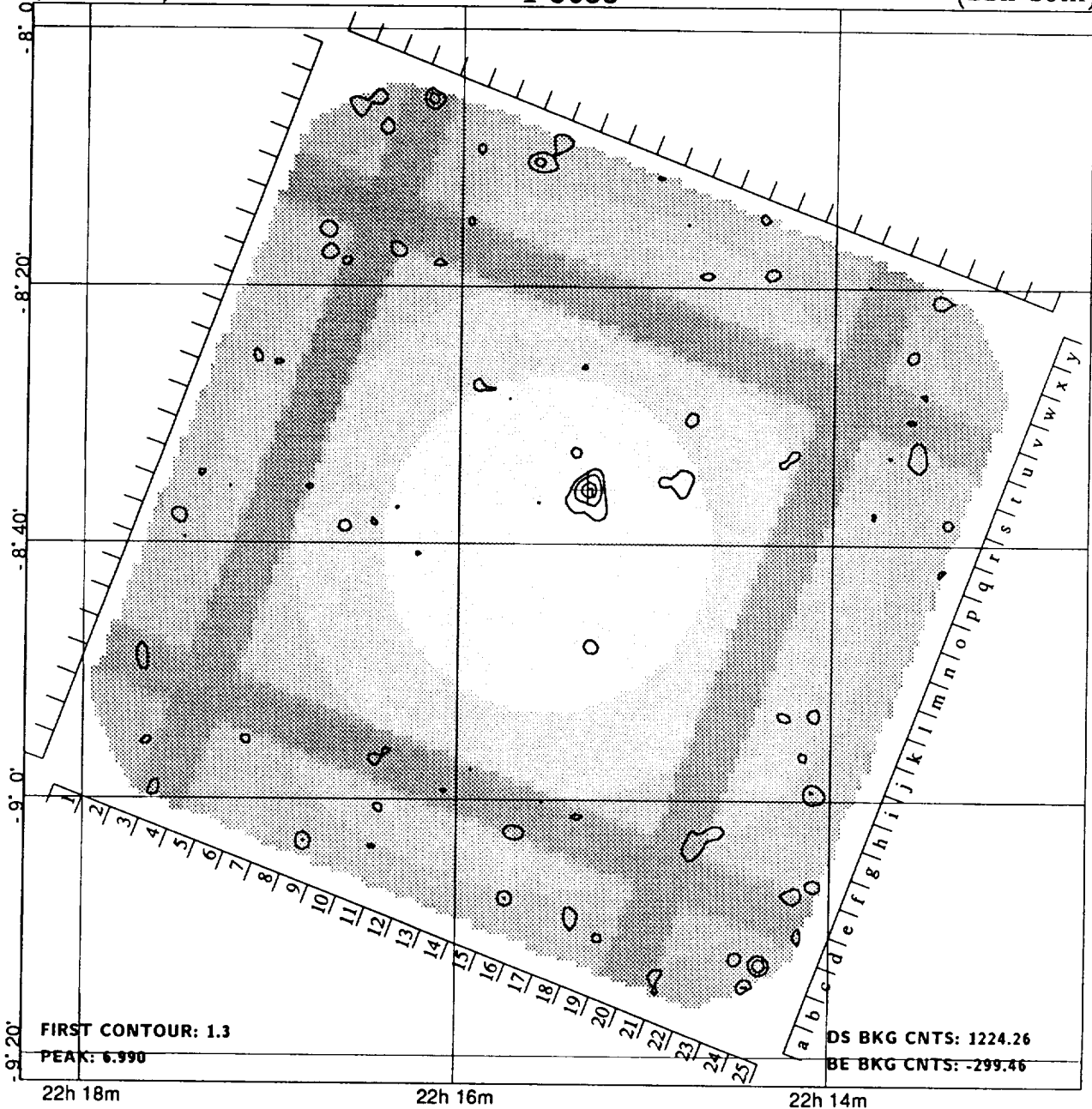
NH: $4.9E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4585	1	22 14 46.4	13 59 02	35	0.0244	0.0045	35.3	6.7	5.5	1.0	0	0.2	AH	*

(22h 15m)

I 3653

(22h 15m)



H 2215-086, UNIDENTIFIED HIGH LATITUDE SOURCE

FIELD CENTER: $22^h 15^m 28.7^s$ $-08^\circ 40' 11''$ (B1950)
 $22^h 18^m 06.8^s$ $-08^\circ 25' 09''$ (J2000)
 $l: 52.95$ $b: -49.23$

DATE: 1979/144 - 1979/144
 LIVETIME: 992.0s
 ROLL ANGLE: -69.1°

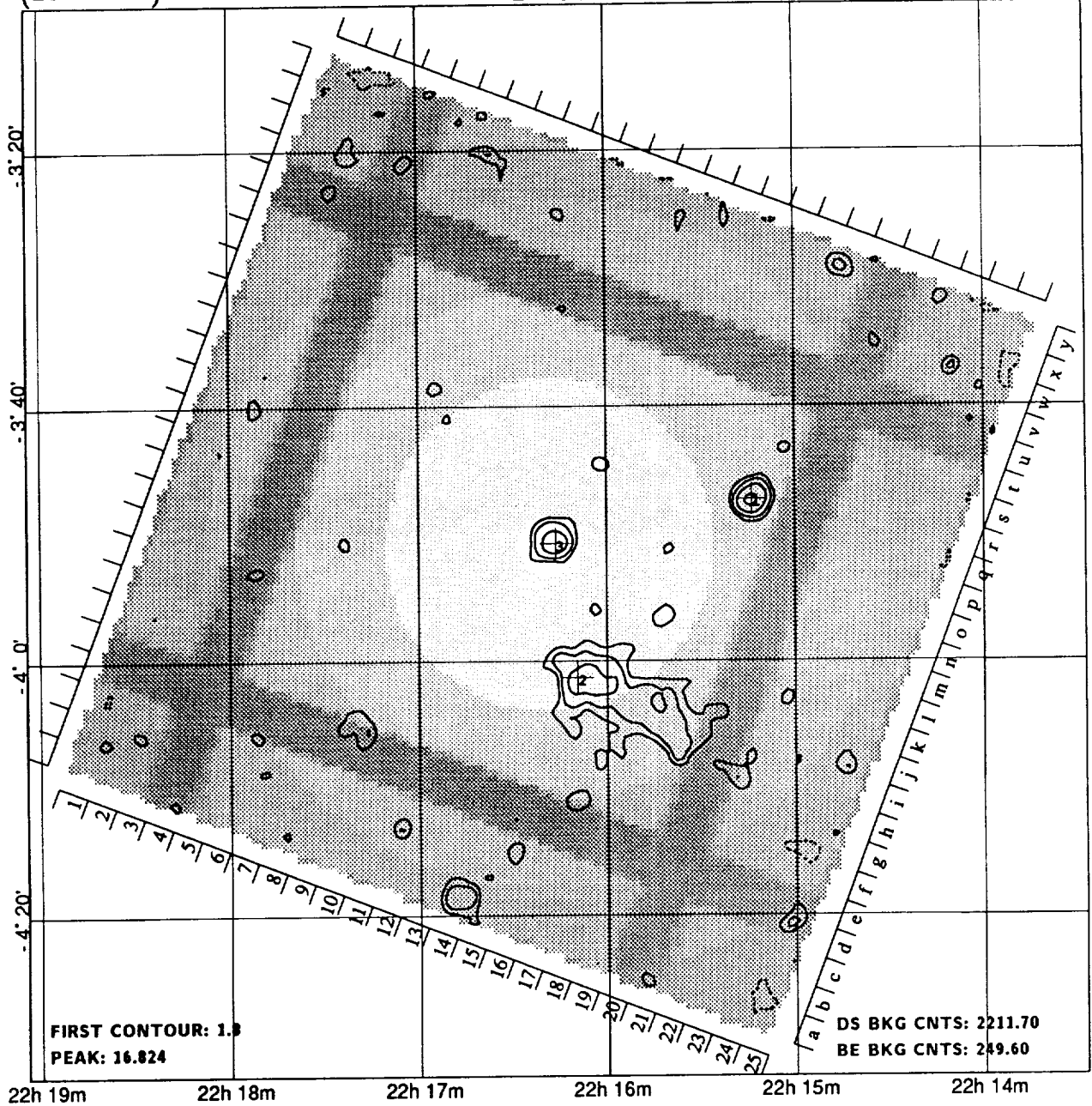
NH: $5.1E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4588	1	22 15 18.7	-08 35 45	42	0.0294	0.0068	20.7	2.3	4.3	1.0	0	5.1	H S

(22h 16m)

I 2068

(22h 16m)



X-RAY STUDY OF QUASARS: PKS2216-038

FIELD CENTER: $22^{\text{h}}16^{\text{m}}15.8^{\text{s}} -03^{\circ}50'35''$ (B1950)
 $22^{\text{h}}16^{\text{m}}51.5^{\text{s}} -03^{\circ}35'32''$ (J2000)
 $l: 59.04 \quad b: -46.65$

DATE: 1979/144 - 1979/144
 LIVETIME: 1792.2s
 ROLL ANGLE: -69.2°

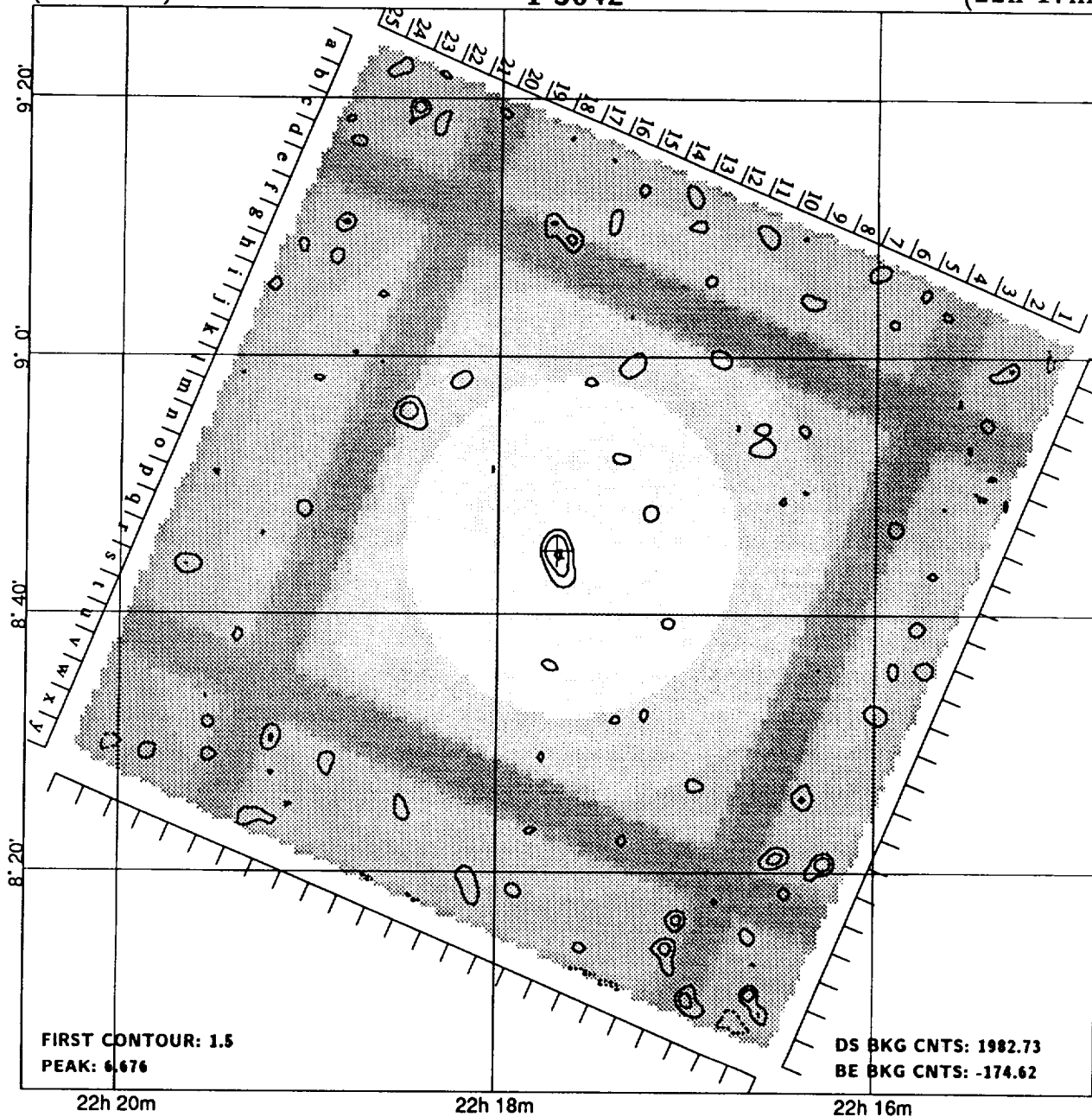
NH: $5.6\text{E}+20$
 REF/ID: !
 FIELD FLAGS: D

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4587	1	22 15 13.7	-03 47 23	50	0.0488	0.0073	49.8	5.2	6.7	1.0	0	15.6	H	AGN
4589	2	22 16 09.5	-04 01 17	41	0.0349	0.0058	41.1	5.9	6.0	4.7	0	10.5	H	
4590	3	22 16 16.3	-03 50 48	35	0.0335	0.0053	44.8	6.2	6.3	1.1	0	0.2	H	Q

(22h 17m)

I 3042

(22h 17m)



4C08.66: HIGH REDSHIFT CLUSTERS OF GALAXIES

FIELD CENTER: $22^{\text{h}}17^{\text{m}}39.9^{\text{s}}$ $08^{\circ}44'49''$ (B1950)
 $22^{\text{h}}20^{\text{m}}09.2^{\text{s}}$ $08^{\circ}59'56''$ (J2000)
 $l: 72.19$ $b: -38.54$

DATE: 1979/338 - 1979/339
 LIVETIME: 1606.7s
 ROLL ANGLE: 112.9°

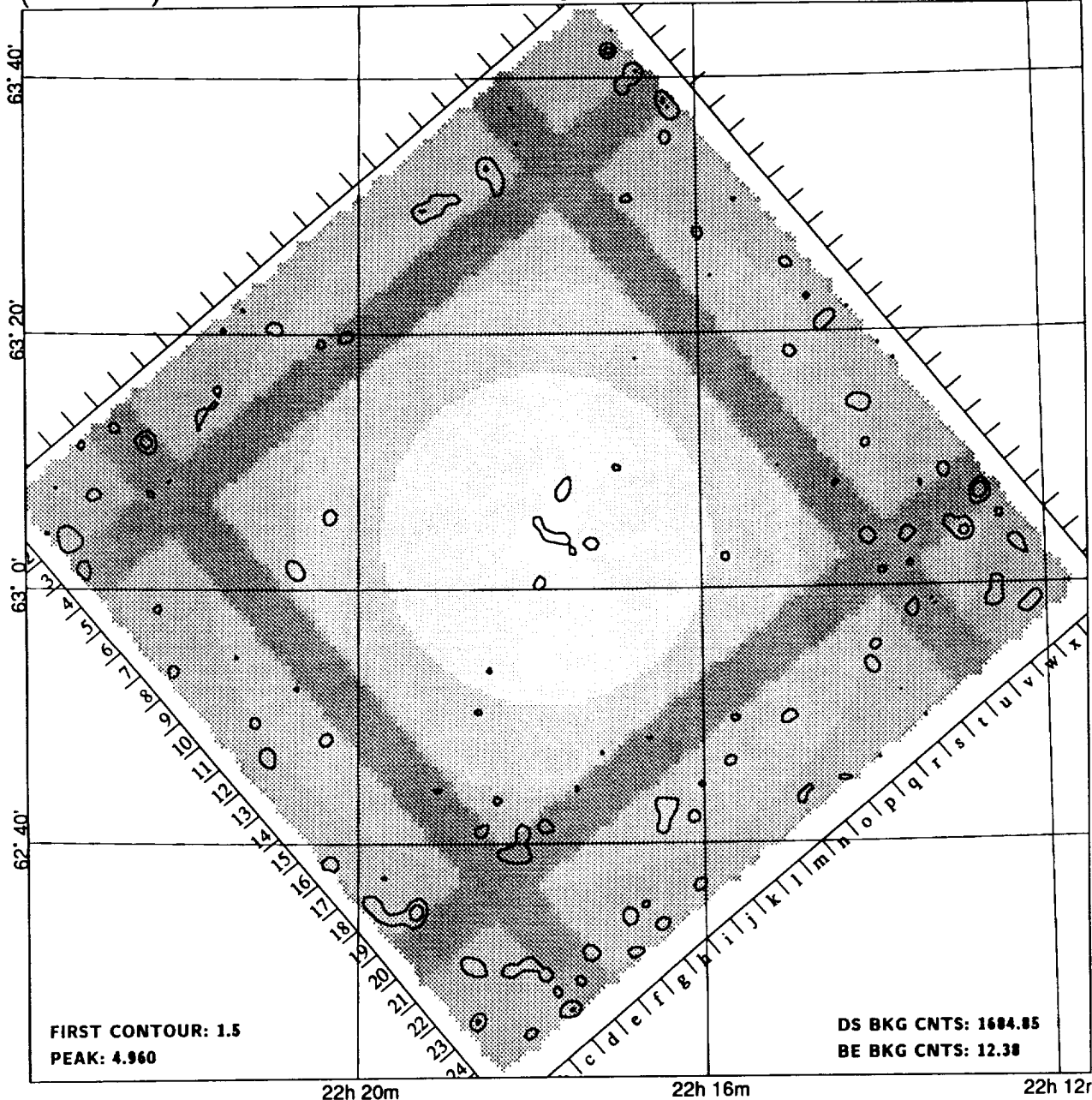
NH: $6.1\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4594	1	22 17 41.3	08 44 55	36	0.0197	0.0044	23.5	4.5	4.4	1.1	0	0.4	H	Q

(22h 17m)

I 2577

(22h 17m)



ENERGETIC MOLECULAR CLOUDS: S140

FIELD CENTER: 22^h17^m40.9^s 63°03'44" (B1950)
 22^h19^m18.0^s 63°18'50" (J2000)
l: 106.80 *b*: 5.31

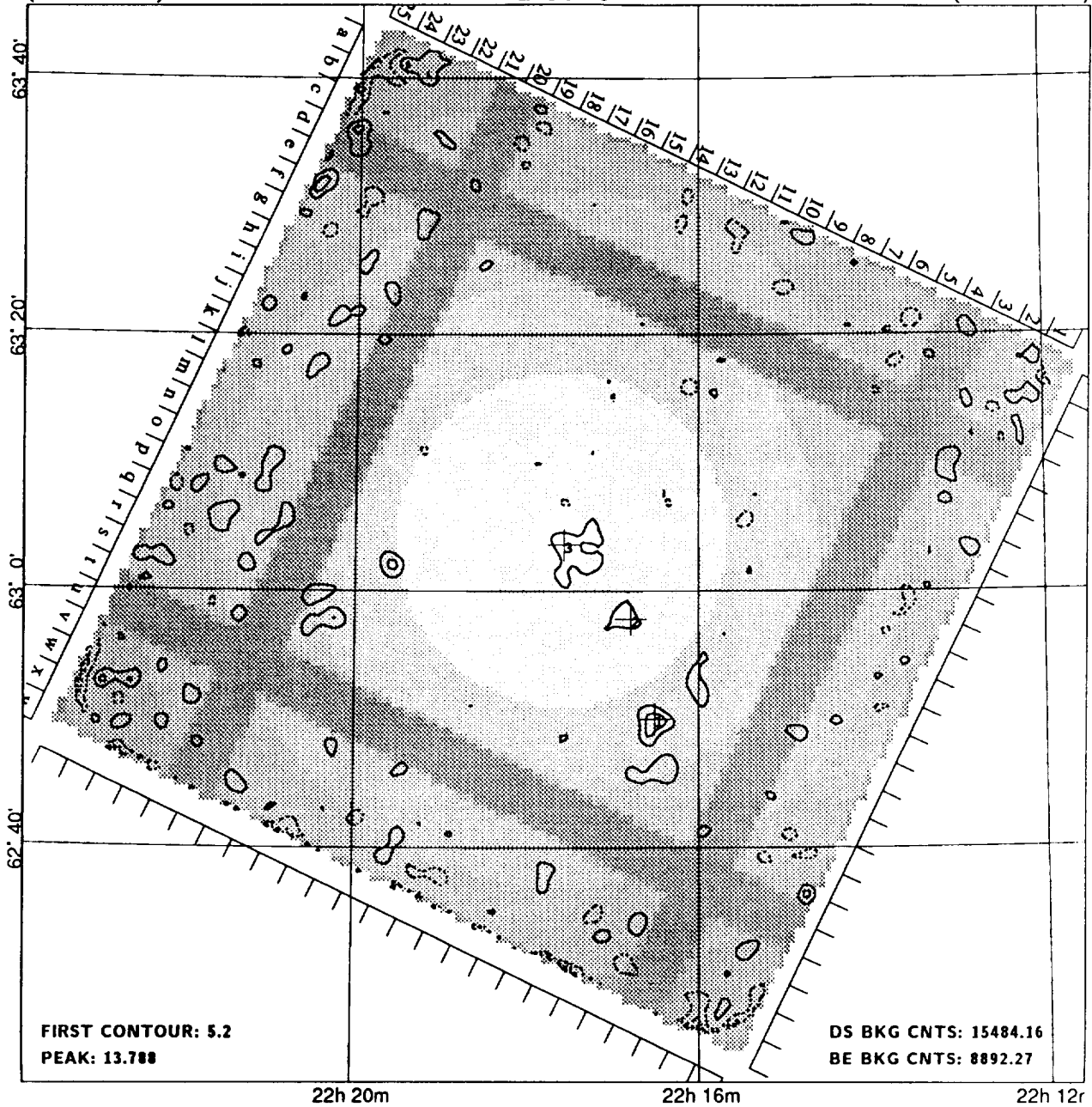
DATE: 1979/193 - 1979/193
 LIVETIME: 1365.3s
 ROLL ANGLE: -39.9°

NH: 6.7E+21
 REF/ID:
 FIELD FLAGS: C

(22h 17m)

I 5949

(22h 17m)



FIRST CONTOUR: 5.2
PEAK: 13.788

DS BKG CNTS: 15484.16
BE BKG CNTS: 8892.27

STAR FORMATION REGIONS: S140

FIELD CENTER: 22^h17^m40.9^s 63°03'44" (B1950)
22^h19^m18.0^s 63°18'50" (J2000)
ℓ: 106.80 b: 5.31

DATE: 1979/348 - 1979/349
LIVETIME: 12547.2s
ROLL ANGLE: 115.5°

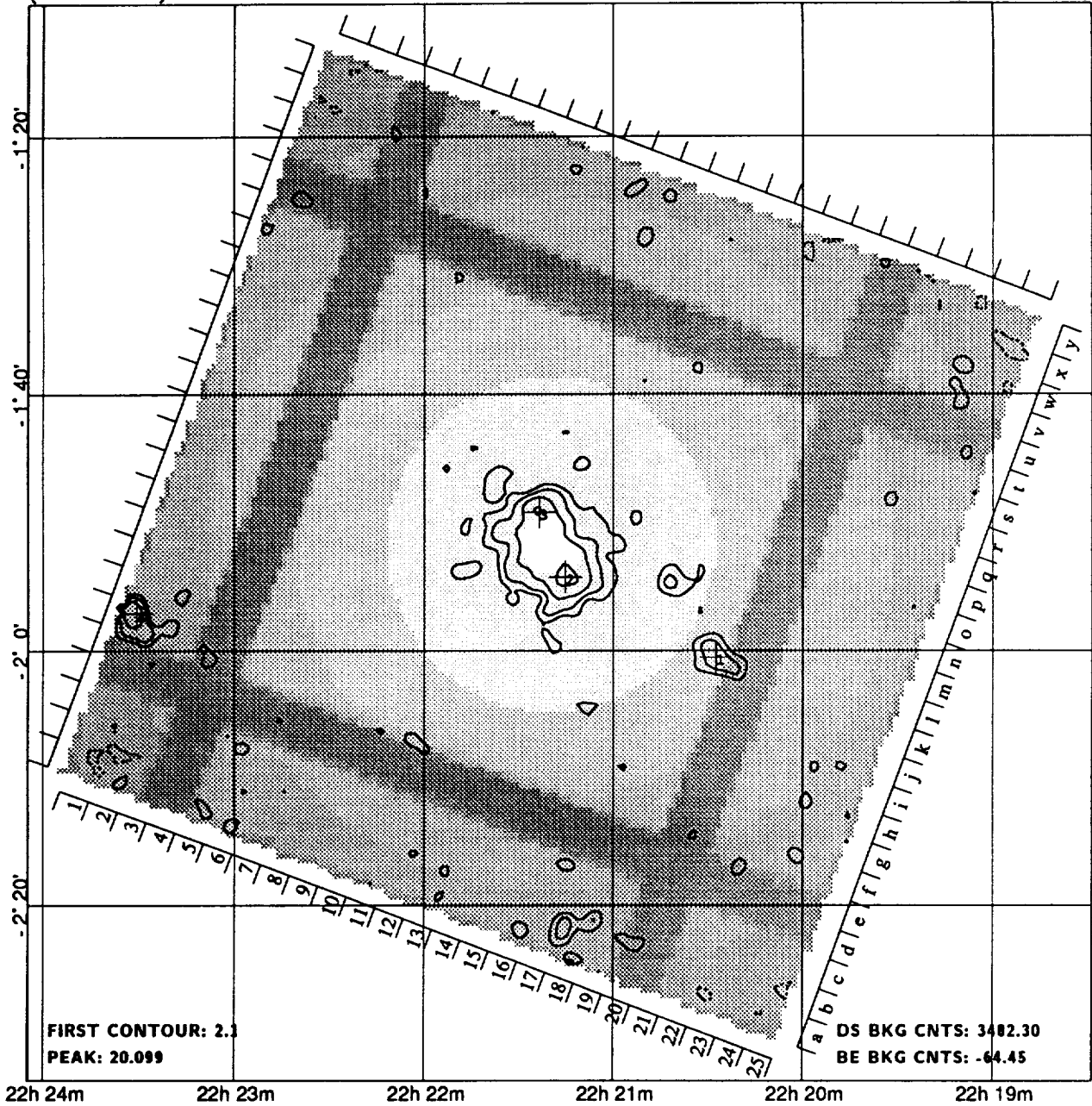
NH: 6.7E+21
REF/ID:
FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4591	1	22 16 30.5	62 49 59	51	0.0061	0.0014	44.3	54.7	4.5	0.9	0	16.0	
4592	2	22 16 47.3	62 57 48	47	0.0046	0.0012	39.8	60.2	4.0	0.6	0	7.5	
4593	3	22 17 34.0	63 03 33	36	0.0048	0.0011	44.7	62.3	4.3	1.6	0	1.1	H

(22h 21m)

I 129

(22h 21m)



A2440 CLUSTER SURFACE BRIGHTNESS

FIELD CENTER: 22^h21^m16.7^s -01°51'35" (B1950)
 22^h23^m51.3^s -01°36'22" (J2000)
 $l: 62.43$ $b: -46.41$

DATE: 1979/140 - 1979/140
 LIVETIME: 2821.8s
 ROLL ANGLE: -69.7°

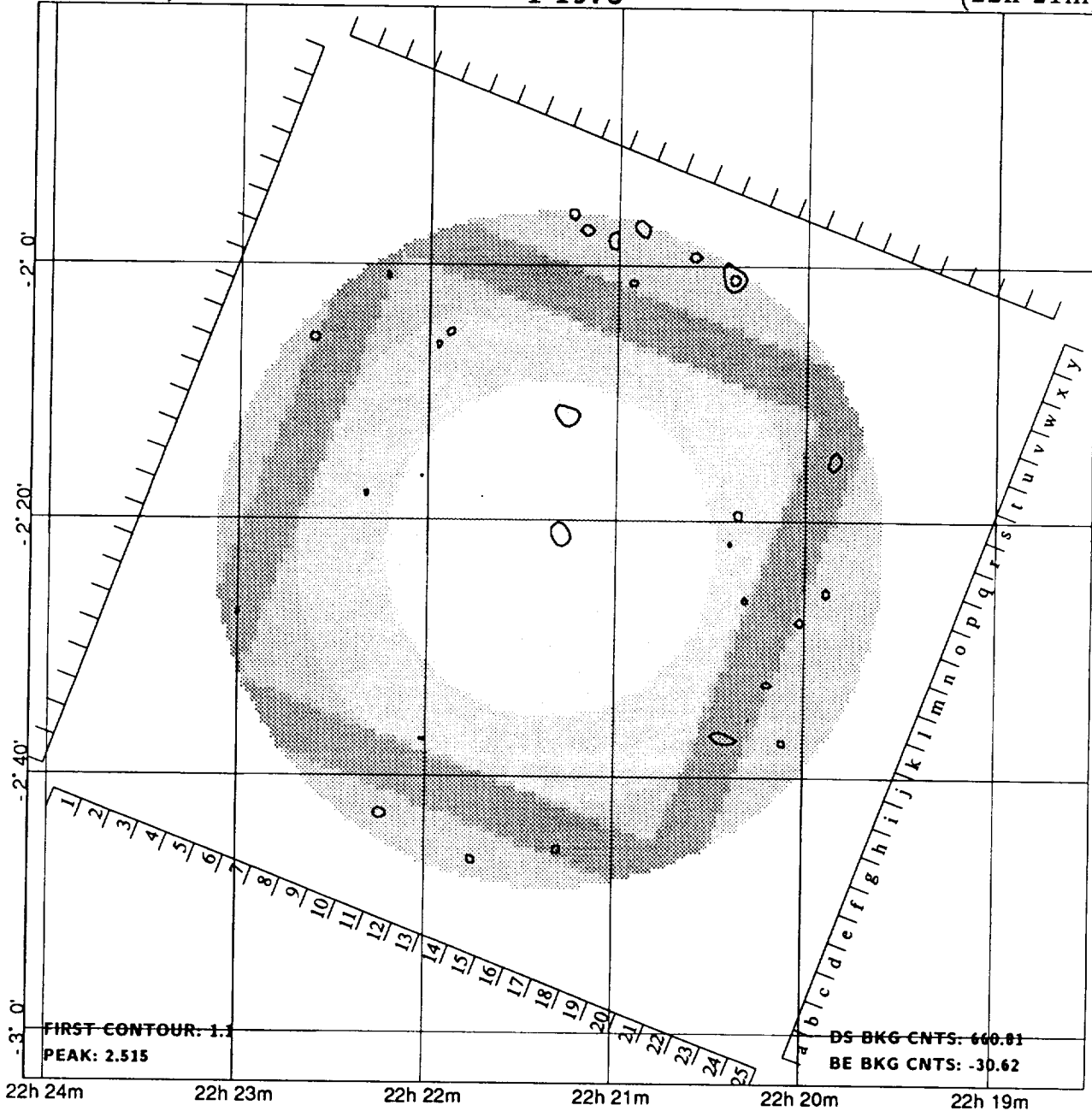
NH: 5.2E+20
 REF/ID:
 FIELD FLAGS: D

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4595	1	22 20 27.4	-02 00 31	54	*0.0138	0.0033	22.5	6.5	4.2	1.2	602	15.3	H	
4596	2L	22 21 15.2	-01 54 15	32	0.0246	0.0061	50.9	54.1	3.9	4.8	0	2.5	H	CLG
4597	3	22 21 23.5	-01 49 14	34	0.0350	0.0043	72.3	7.7	8.1	6.0	0	2.9	H	
4606	4	22 23 30.7	-01 57 05	53	*0.0262	0.0062	21.6	4.4	4.2	1.2	601	33.9	H	

(22h 21m)

I 1973

(22h 21m)



FIRST CONTOUR: 1.1
 PEAK: 2.515

DS-BKG-CNTS: 660.81
 BE-BKG-CNTS: -30.62

3C 445: SEYFERT AND N-TYPE GALAXIES I

FIELD CENTER: $22^{\text{h}}21^{\text{m}}17.8^{\text{s}}$ $-02^{\circ}21'59''$ (B1950)
 $22^{\text{h}}23^{\text{m}}52.7^{\text{s}}$ $-02^{\circ}06'46''$ (J2000)
 $l: 61.87$ $b: -46.73$

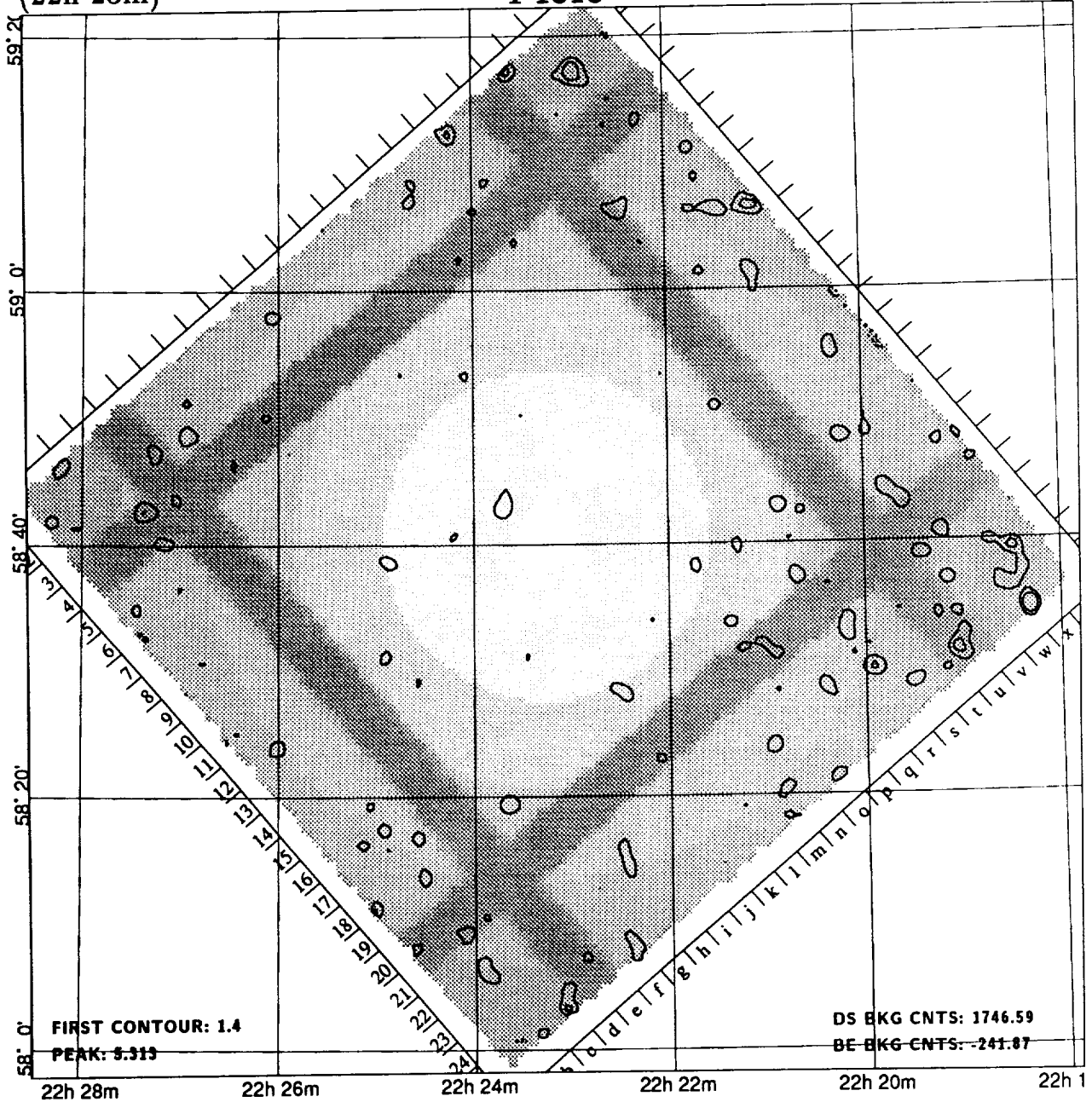
DATE: 1979/145 - 1979/145
 LIVETIME: 535.5s
 ROLL ANGLE: -69.0°

NH: $5.1\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(22h 23m)

I 1318

(22h 23m)



105 DEGREES GALACTIC PLANE SURVEY

FIELD CENTER: $22^h 23^m 10.6^s$ $58^\circ 40' 16''$ (B1950)
 $22^h 24^m 59.6^s$ $58^\circ 55' 32''$ (J2000)
 $l: 105.00$ $b: 1.25$

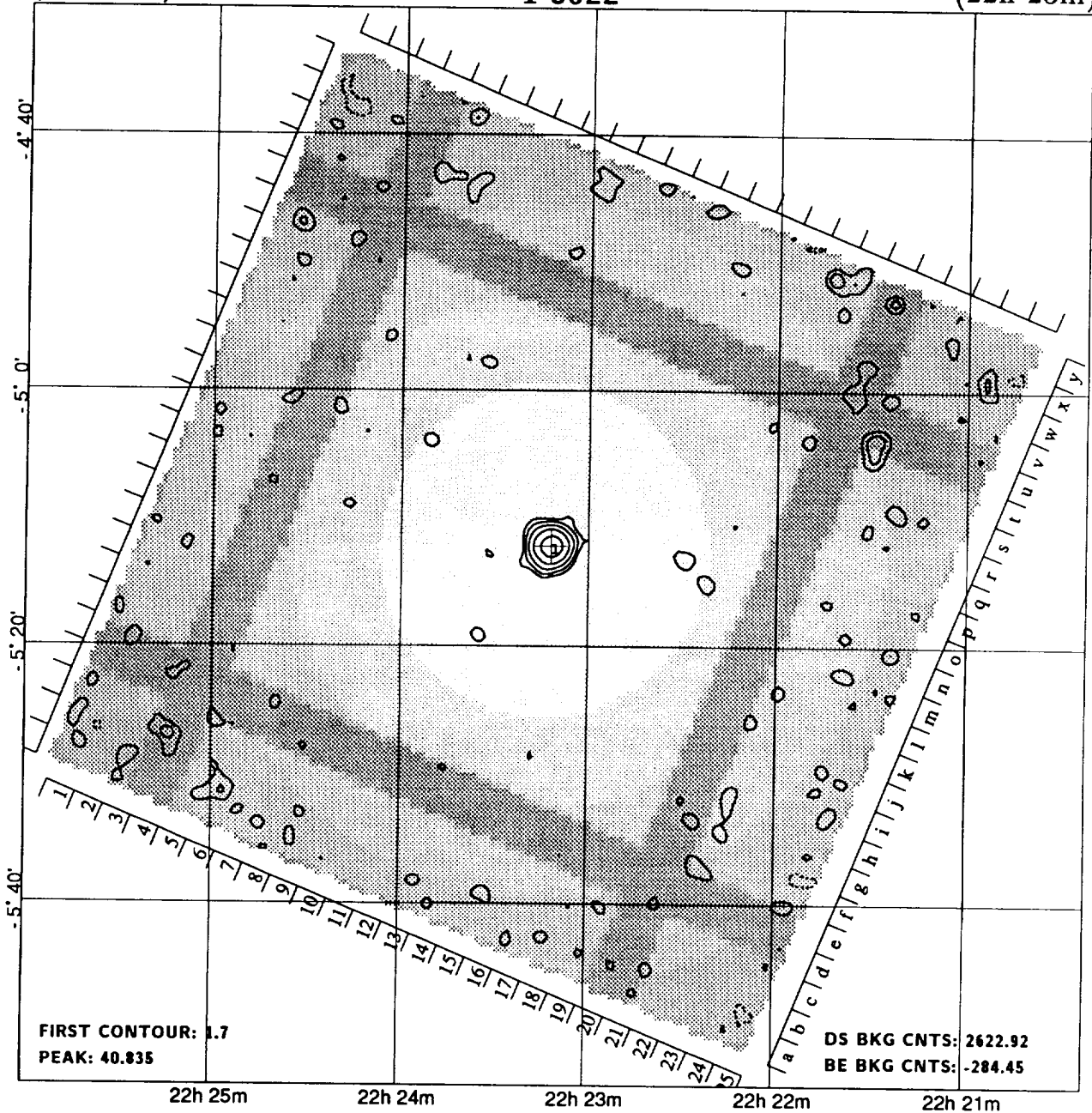
DATE: 1980/194 - 1980/194
 LIVETIME: 1415.3s
 ROLL ANGLE: -40.4°

NH: $8.1E+21$
 REF/ID:
 FIELD FLAGS:

(22h 23m)

I 8022

(22h 23m)



3C446, SIMULTANEOUS OPTICAL OBS.

FIELD CENTER: $22^{\text{h}}23^{\text{m}}10.9^{\text{s}}$ $-05^{\circ}12'17''$ (B1950)
 $22^{\text{h}}25^{\text{m}}47.0^{\text{s}}$ $-04^{\circ}57'01''$ (J2000)
 $l: 58.96$ $b: -48.84$

DATE: 1980/161 - 1980/161
 LIVETIME: 2125.4s
 ROLL ANGLE: -67.7°

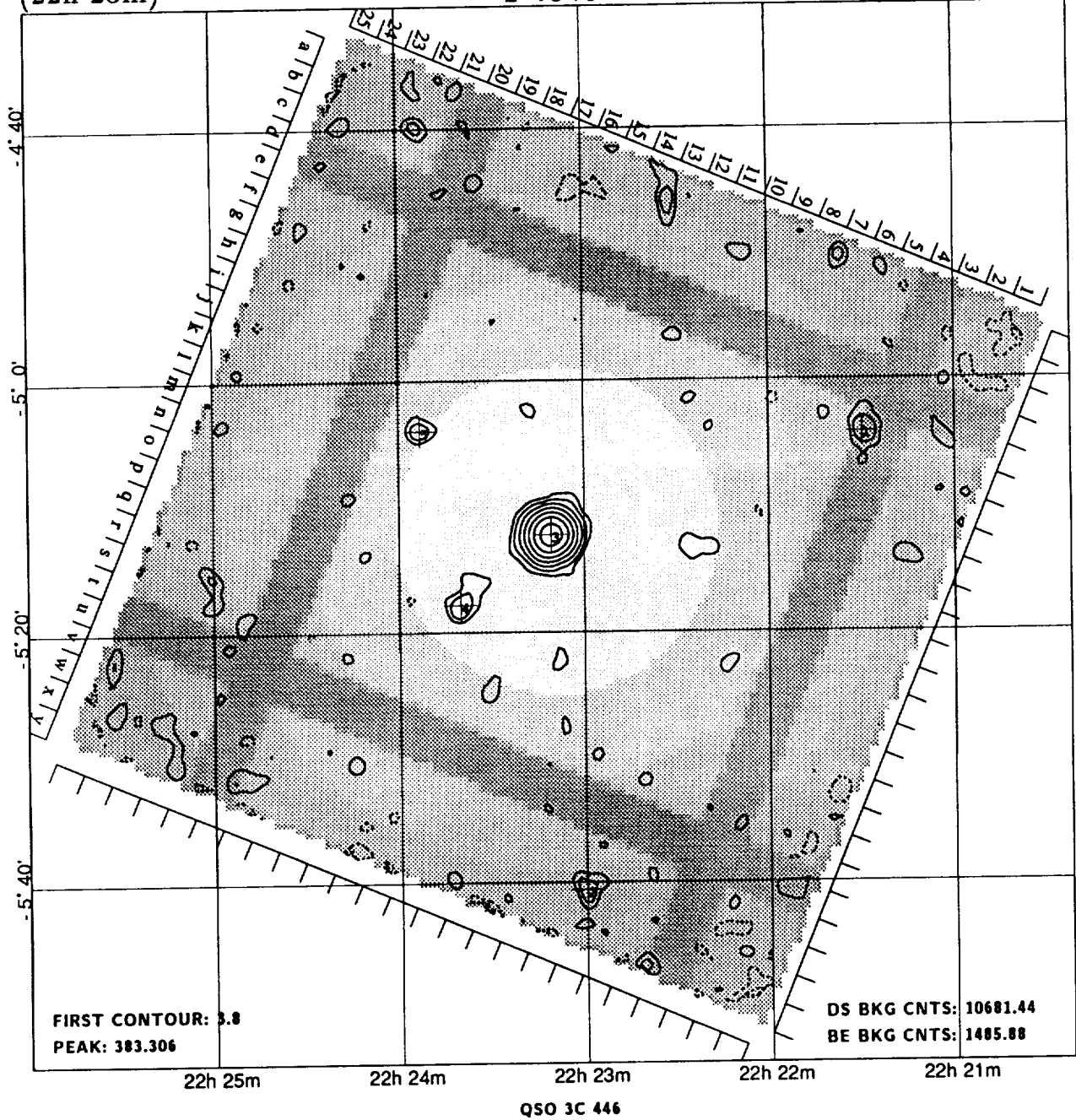
NH: $5.3E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4603	1	22 23 12.0	-05 12 07	31	0.1117	0.0085	176.7	5.3	13.1	1.1	0	0.4	AH	Q

(22h 23m)

I 4646

(22h 23m)



FIELD CENTER: $22^h 23^m 11.0^s -05^\circ 12' 16''$ (B1950)
 $22^h 25^m 47.1^s -04^\circ 57' 00''$ (J2000)
 $l: 58.96 \quad b: -48.84$

DATE: 1979/346 - 1979/347
 LIVETIME: 8655.5s
 ROLL ANGLE: 112.5°

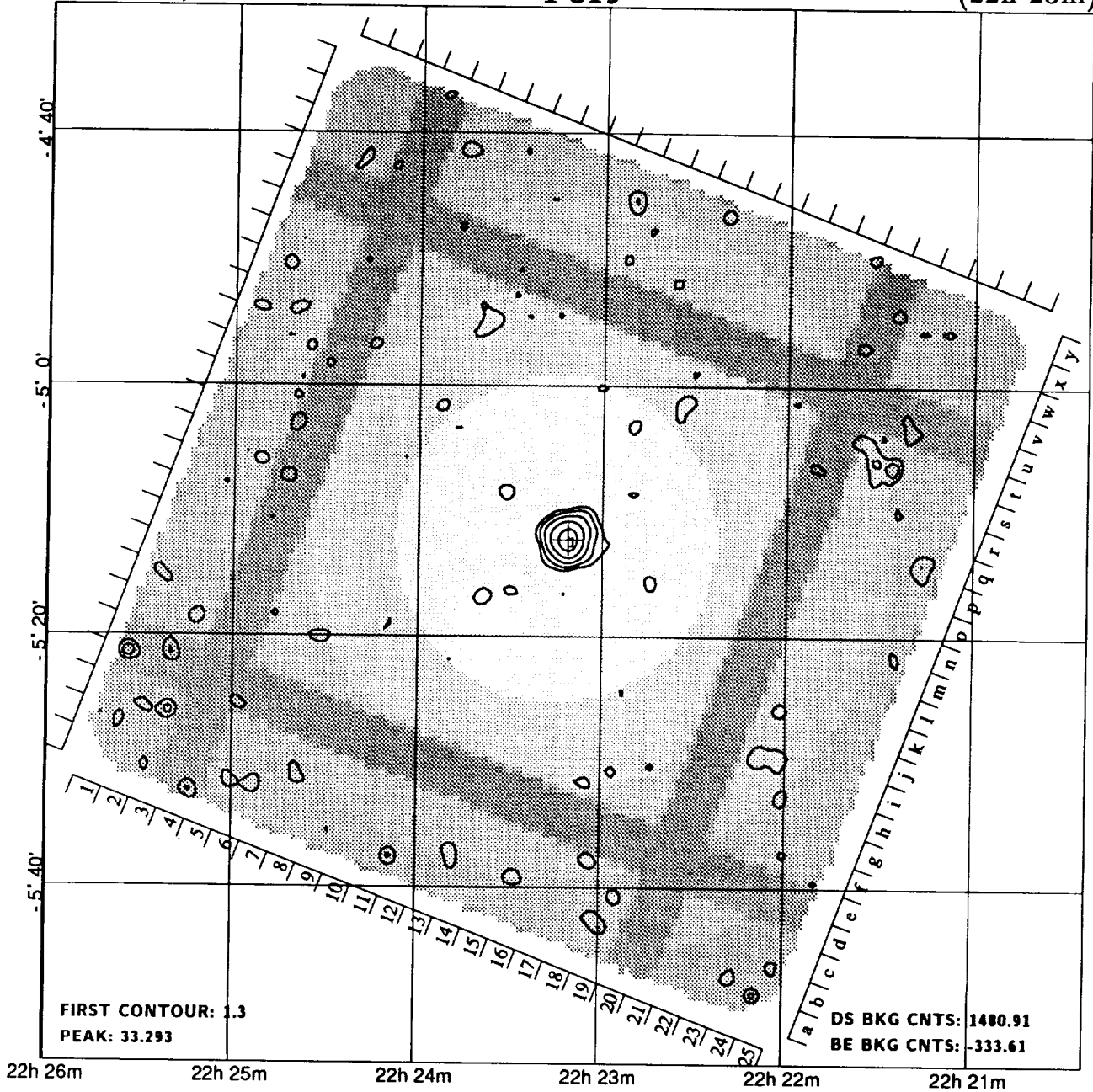
NH: $5.3E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4598	1	22 21 29.8	-05 04 09	55	*0.0088	0.0019	31.7	15.3	4.6	0.9	907	26.5	H	S
4601	2	22 22 59.9	-05 40 34	58	0.0077	0.0021	24.7	19.3	3.7	1.0	0	28.8	H	
4603	3	22 23 10.7	-05 12 13	31	0.2427	0.0062	1565.2	30.8	39.2	1.2	0	0.2	AH	Q
4607	4	22 23 40.1	-05 17 47	41	0.0078	0.0015	45.4	26.6	5.4	1.1	0	9.1	H	AGN
4608	5	22 23 53.0	-05 03 58	42	0.0059	0.0014	31.0	24.0	4.2	0.6	0	13.4	H	

(22h 23m)

I 519

(22h 23m)



3C 446 (QSO 2223-052) QUASAR SURVEY

FIELD CENTER: 22^h23^m11.8^s -05°11'59" (B1950)
 22^h25^m48.0^s -04°56'43" (J2000)
 $l: 58.97$ $b: -48.84$

DATE: 1979/140 - 1979/140
 LIVETIME: 1200.0s
 ROLL ANGLE: -69.3°

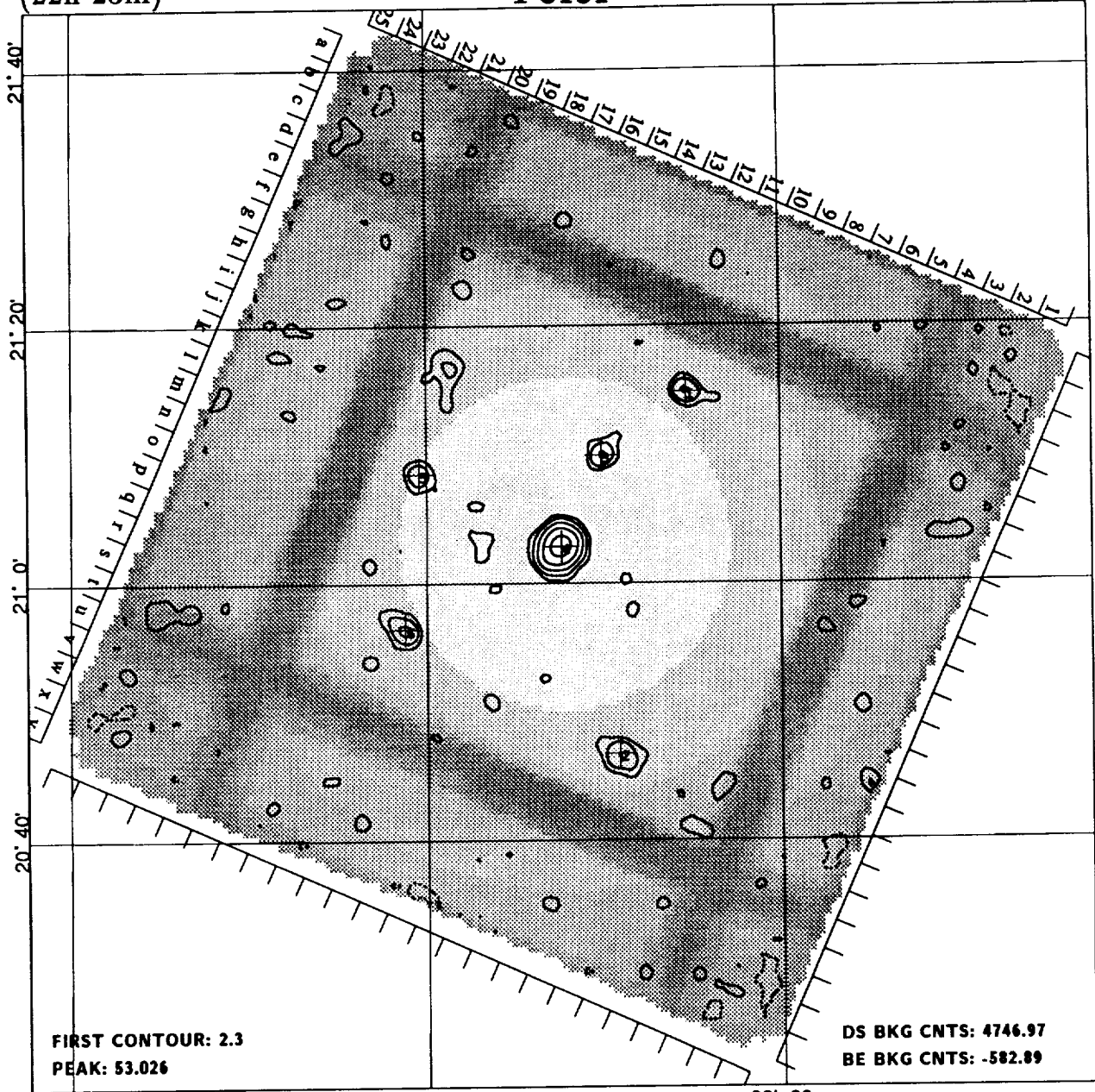
NH: 5.3E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4603	1	22 23 11.1	-05 12 16	31	0.144	0.013	128.3	2.7	11.2	1.3	0	0.4	AH	Q

(22h 23m)

I 5131

(22h 23m)



22h 26m

22h 24m

22h 22m

QSO PKS2223+210

FIELD CENTER: 22^h23^m14.8^s 21°02'49" (B1950)
 22^h25^m38.1^s 21°18'06" (J2000)
 l : 83.16 b : -30.09

DATE: 1979/337 - 1979/338
 LIVETIME: 3846.6s
 ROLL ANGLE: 113.8°

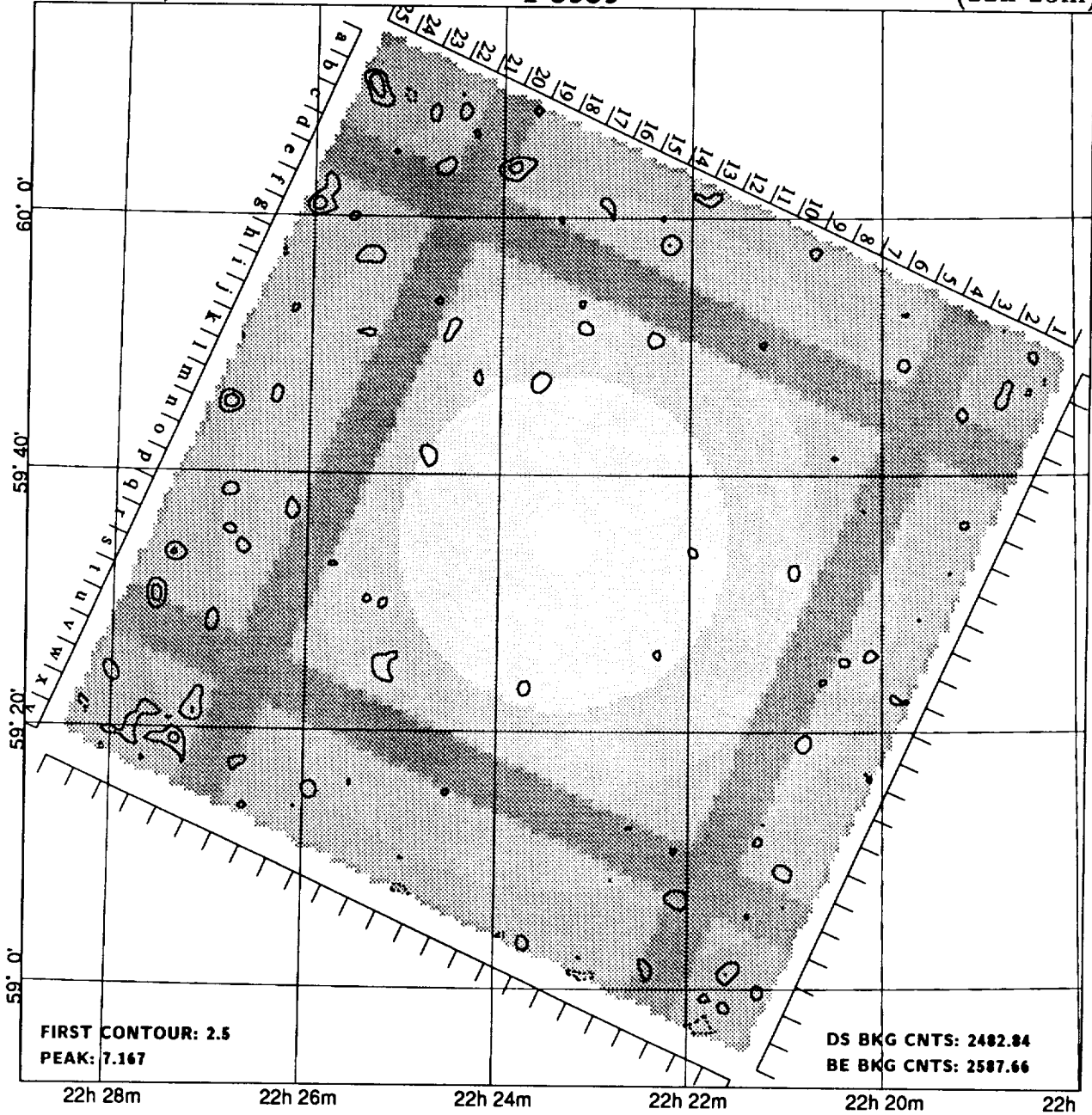
NH: 4.5E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT ± RATE	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4599	1	22 22 31.7	21 14 55	51	0.0116 0.0026	26.3	8.7	4.4	0.8	0	15.7		
4600	2	22 22 54.9	20 46 43	51	0.0149 0.0029	32.1	7.9	5.1	1.0	0	16.7	H	
4602	3	22 23 00.7	21 10 03	42	0.0119 0.0025	31.6	11.4	4.8	0.7	0	8.1		
4604	4	22 23 14.3	21 02 52	31	0.0820 0.0055	235.3	9.7	15.0	1.2	0	0.2	H	Q
4609	5	22 24 02.6	21 08 37	43	0.0085 0.0022	20.5	7.5	3.9	0.7	0	12.8		
4610	6	22 24 07.4	20 56 27	42	0.0136 0.0027	31.6	8.4	5.0	0.8	0	13.9	H	

(22h 23m)

I 3939

(22h 23m)



COS-B GAMMA RAY SOURCE REGION AA

FIELD CENTER: $22^h 23^m 23.7^s$ $59^\circ 34' 23''$ (B1950)
 $22^h 25^m 11.2^s$ $59^\circ 49' 39''$ (J2000)
 $l: 105.50$ $b: 2.00$

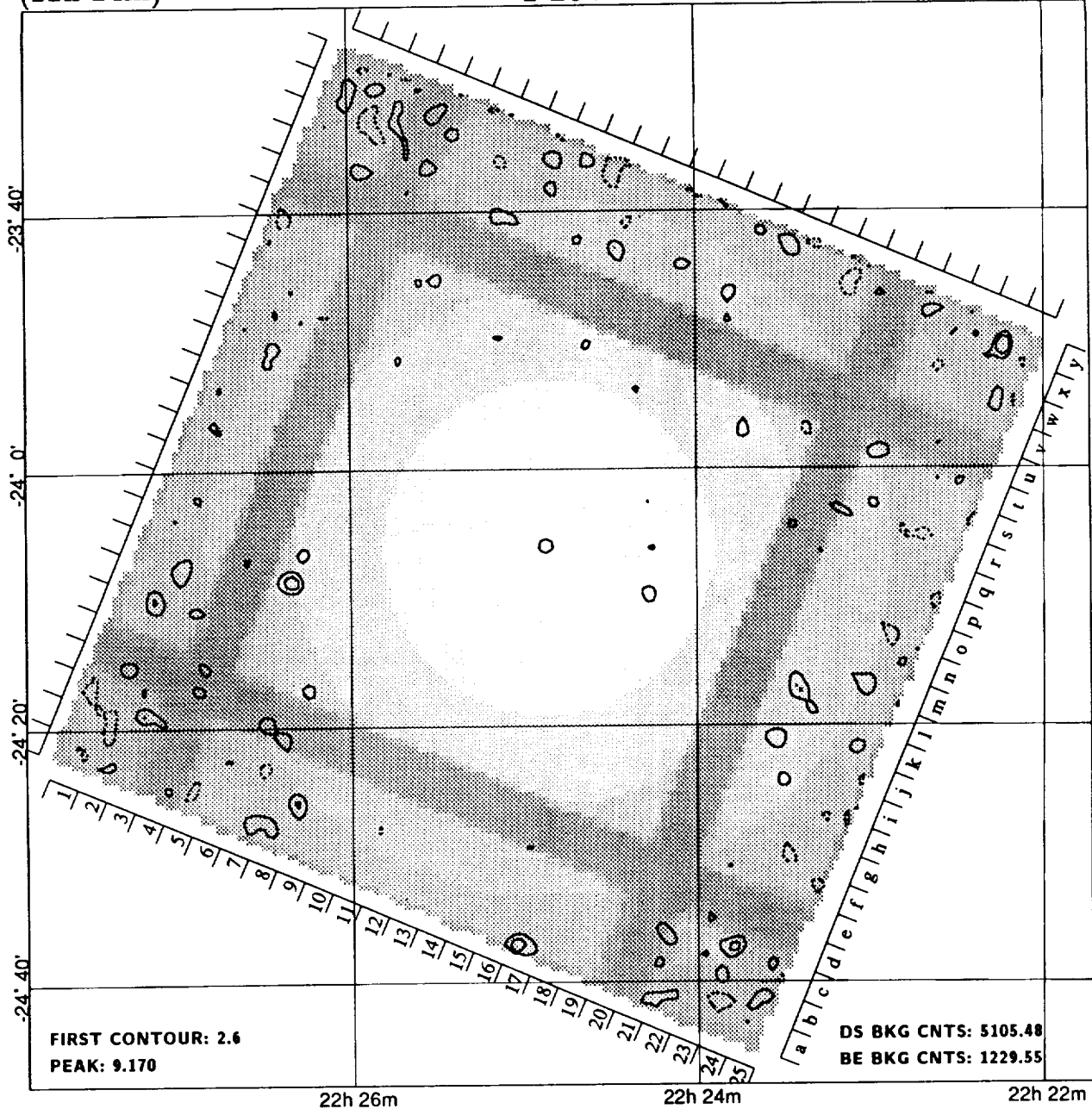
DATE: 1979/348 - 1979/348
 LIVETIME: 2011.9s
 ROLL ANGLE: 114.6°

NH: $8.5E+21$
 REF/ID:
 FIELD FLAGS:

(22h 24m)

I 264

(22h 24m)



A 2444 CLUSTER EVOLUTION

FIELD CENTER: $22^h 24^m 47.8^s$ $-24^\circ 05' 59''$ (B1950)
 $22^h 27^m 33.4^s$ $-23^\circ 50' 40''$ (J2000)
 $l: 30.56$ $b: -57.47$

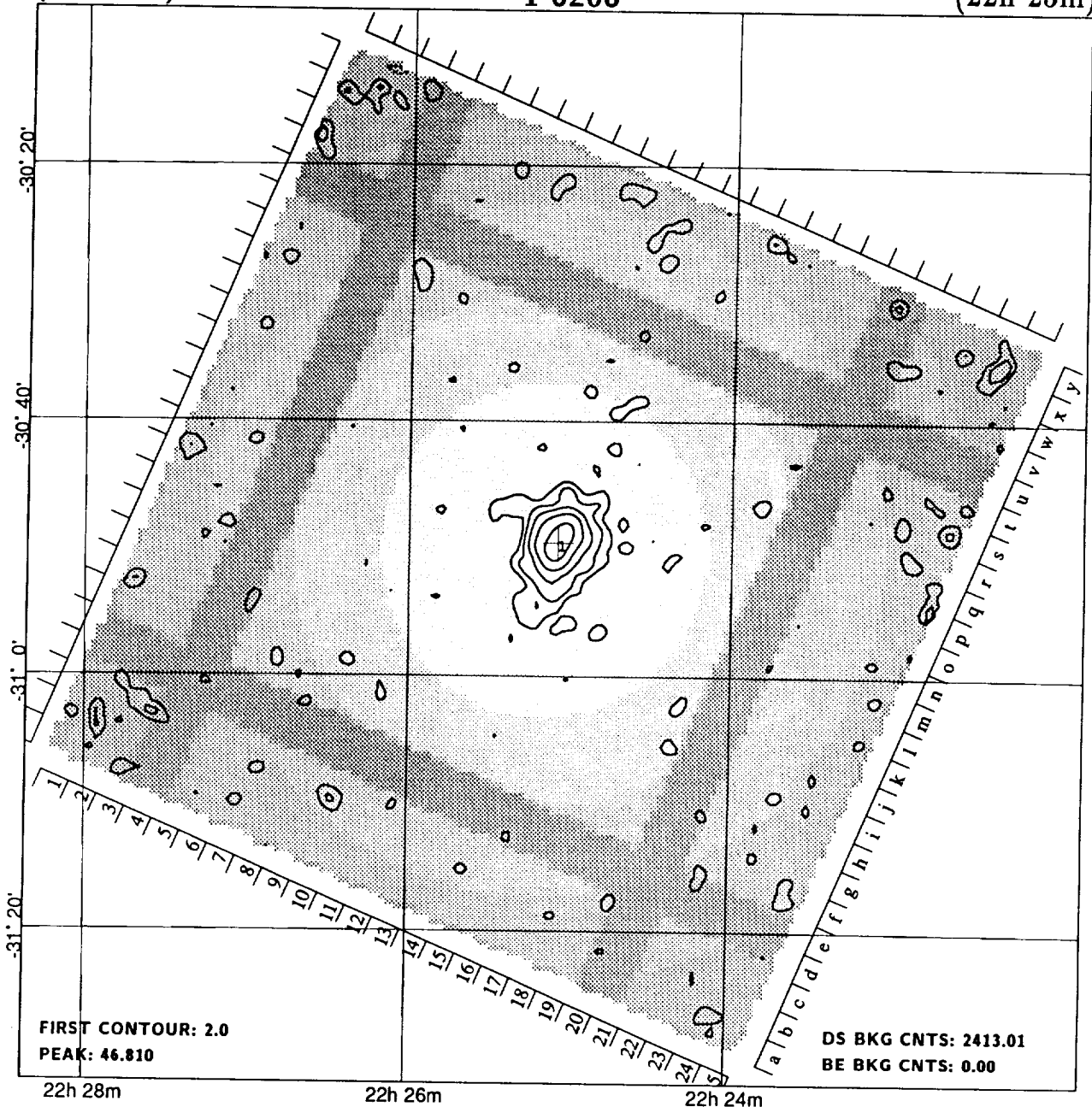
DATE: 1979/143 - 1980/136
 LIVETIME: 4137.1s
 ROLL ANGLE: -67.4°

NH: $2.0E+20$
 REF/ID:
 FIELD FLAGS:

(22h 25m)

I 6208

(22h 25m)



2224-3046, SURVEY OF SOUTHERN CLUSTERS

FIELD CENTER: $22^h 25^m 05.8^s$ $-30^\circ 49' 58''$ (B1950)
 $22^h 27^m 55.3^s$ $-30^\circ 34' 38''$ (J2000)
 $l: 17.99$ $b: -58.52$

DATE: 1980/136 - 1980/136
 LIVETIME: 1955.3s
 ROLL ANGLE: -66.9°

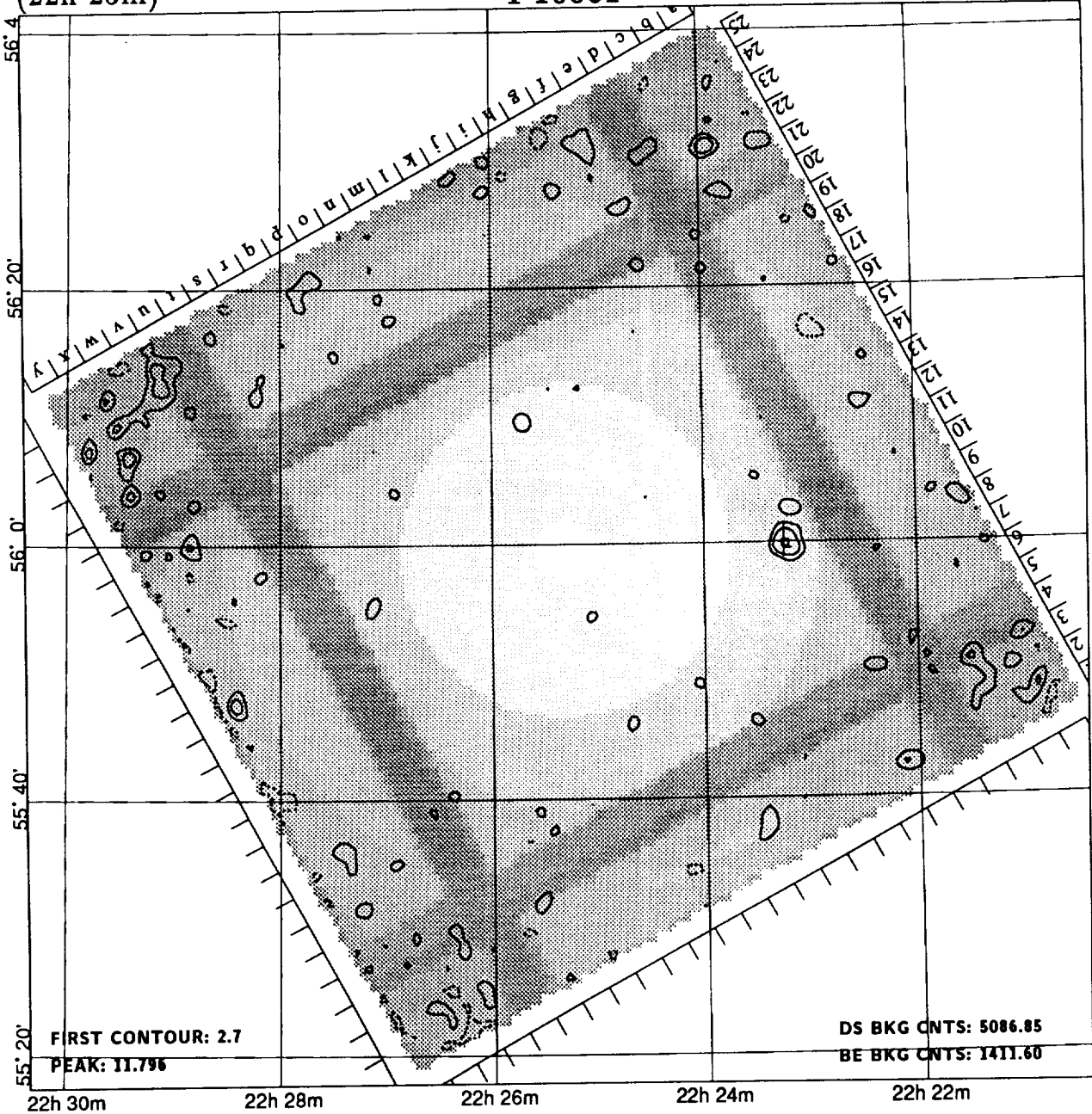
NH: $1.1E+20$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4611	1L	22 25 04.6	-30 49 34	31	0.092	0.013	134.0	107.0	7.0	2.3	0	0.4	

(22h 25m)

I 10061

(22h 25m)



CORONAL EMISSION FROM WOLF-RAYET STARS W/OVI EMISSION:HD 213049

FIELD CENTER: $22^{\text{h}}25^{\text{m}}23.3^{\text{s}}$ $55^{\circ}59'52''$ (B1950)
 $22^{\text{h}}27^{\text{m}}17.6^{\text{s}}$ $56^{\circ}15'12''$ (J2000)
 $l: 103.85$ $b: -1.18$

DATE: 1981/ 24 - 1981/ 24
 LIVETIME: 4122.0s
 ROLL ANGLE: 151.3°

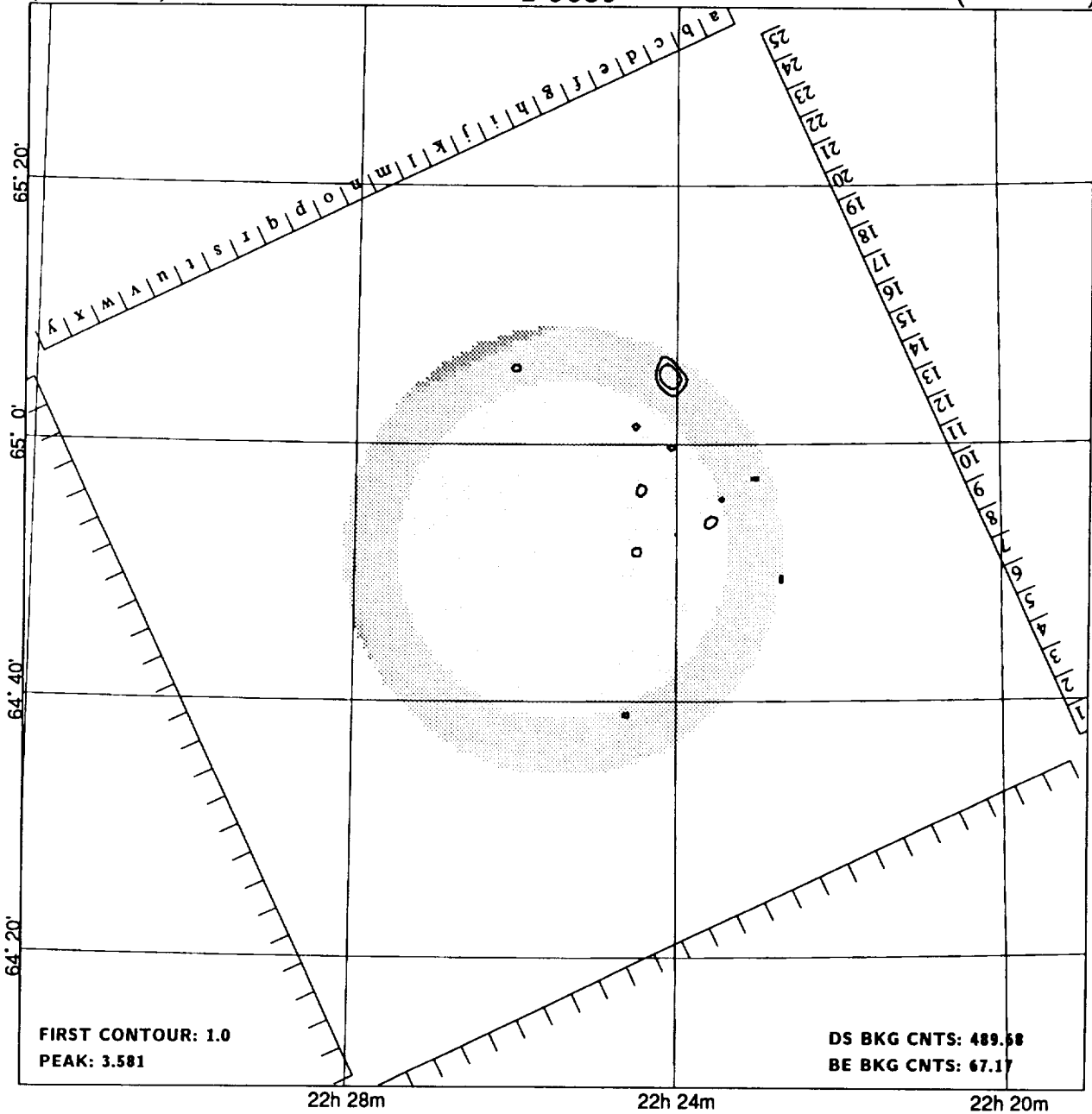
NH: $5.7\text{E}+21$
 REF/ID: S
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4605	1	22 23 14.9	56 00 04	51	0.0147	0.0030	33.8	13.2	4.9	0.8	0	18.0	H

(22h 25m)

I 9059

(22h 25m)



MASSIVE RUNAWAY O STARS: 26 CEP

FIELD CENTER: $22^{\text{h}}25^{\text{m}}29.8^{\text{s}}$ $64^{\circ}51'59''$ (B1950)
 $22^{\text{h}}27^{\text{m}}06.6^{\text{s}}$ $65^{\circ}07'19''$ (J2000)
 $l: 108.50$ $b: 6.38$

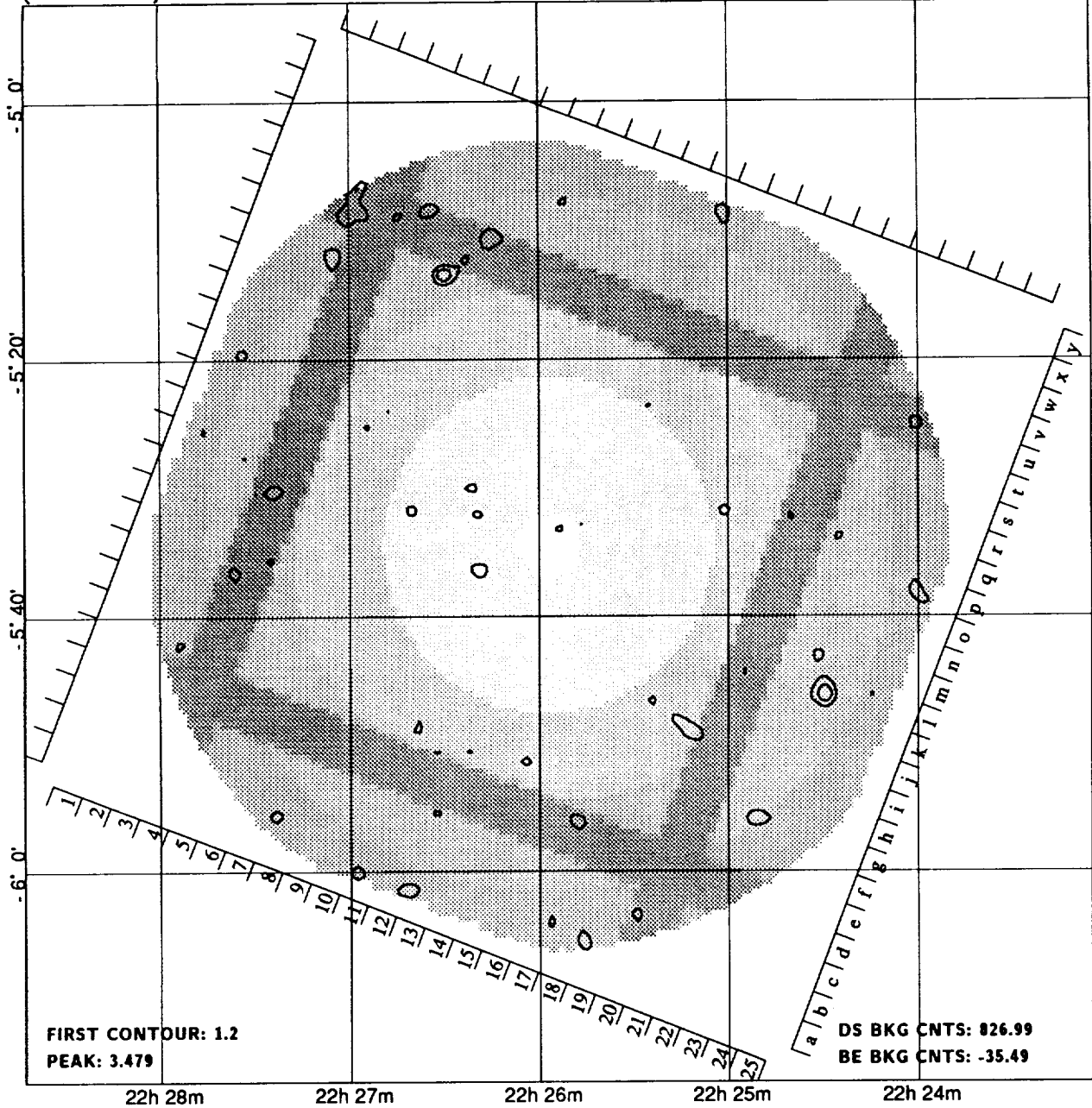
DATE: 1981/ 25 - 1981/ 25
 LIVETIME: 396.8s
 ROLL ANGLE: 154.7°

NH: $6.0\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(22h 25m)

I 4017

(22h 25m)



QUASAR 2225-055 (PHL 5200)

FIELD CENTER: $22^h 25^m 53.7^s -05^\circ 34' 16''$ (B1950)
 $22^h 28^m 30.0^s -05^\circ 18' 55''$ (J2000)
 $l: 59.13 \quad b: -49.60$

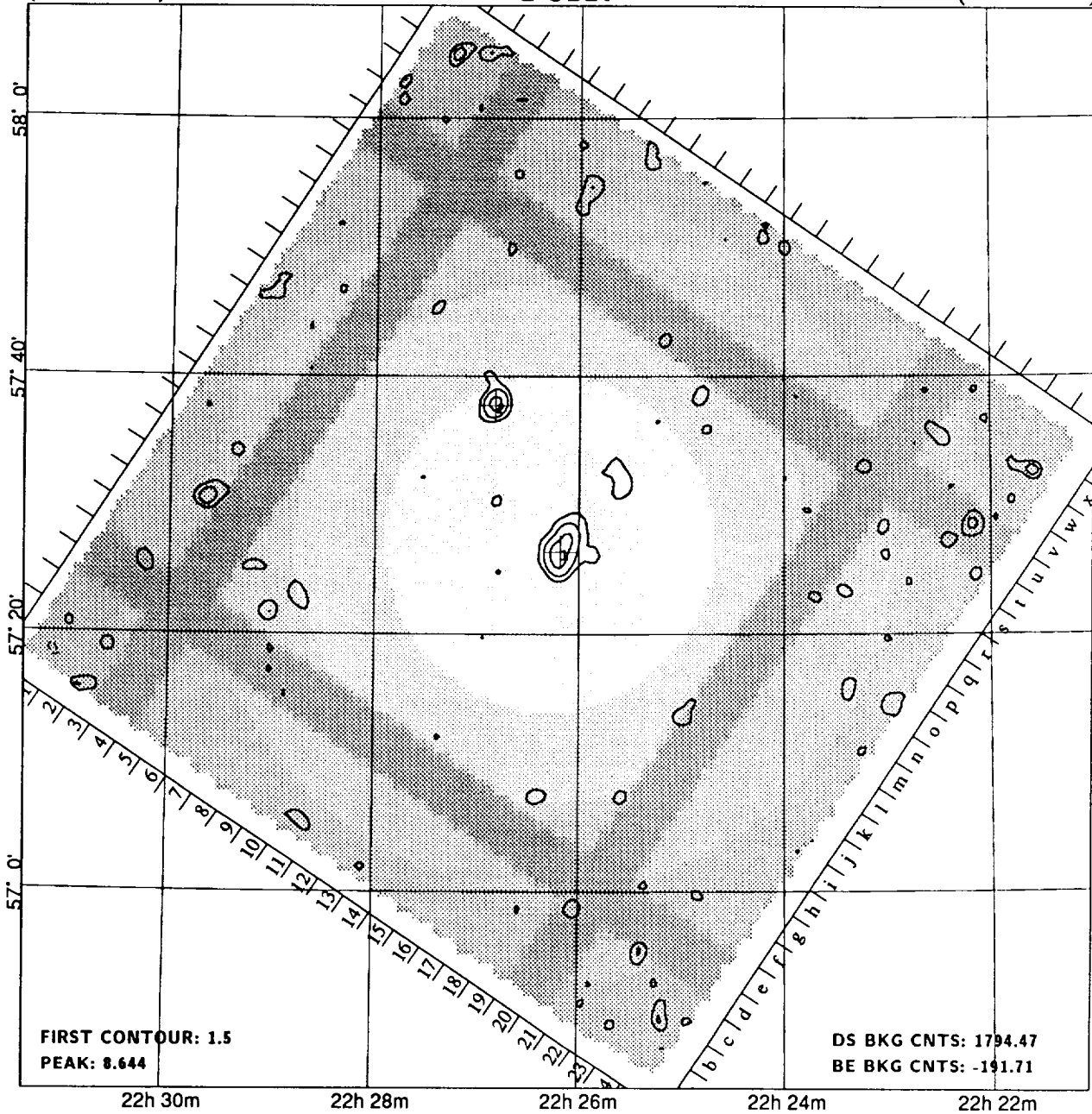
DATE: 1979/144 - 1979/144
 LIVETIME: 670.1s
 ROLL ANGLE: -68.9°

NH: $5.0E+20$
 REF/ID:
 FIELD FLAGS:

(22h 26m)

I 3117

(22h 26m)



COHERENT SAMPLING OF NEARBY STARS: KRUGER 60 A/B

FIELD CENTER: 22^h26^m12.8^s 57°26'45" (B1950)
 22^h28^m05.2^s 57°42'06" (J2000)
 l : 104.70 b : 0.00

DATE: 1979/167 - 1979/167
 LIVETIME: 1454.1s
 ROLL ANGLE: -56.5°

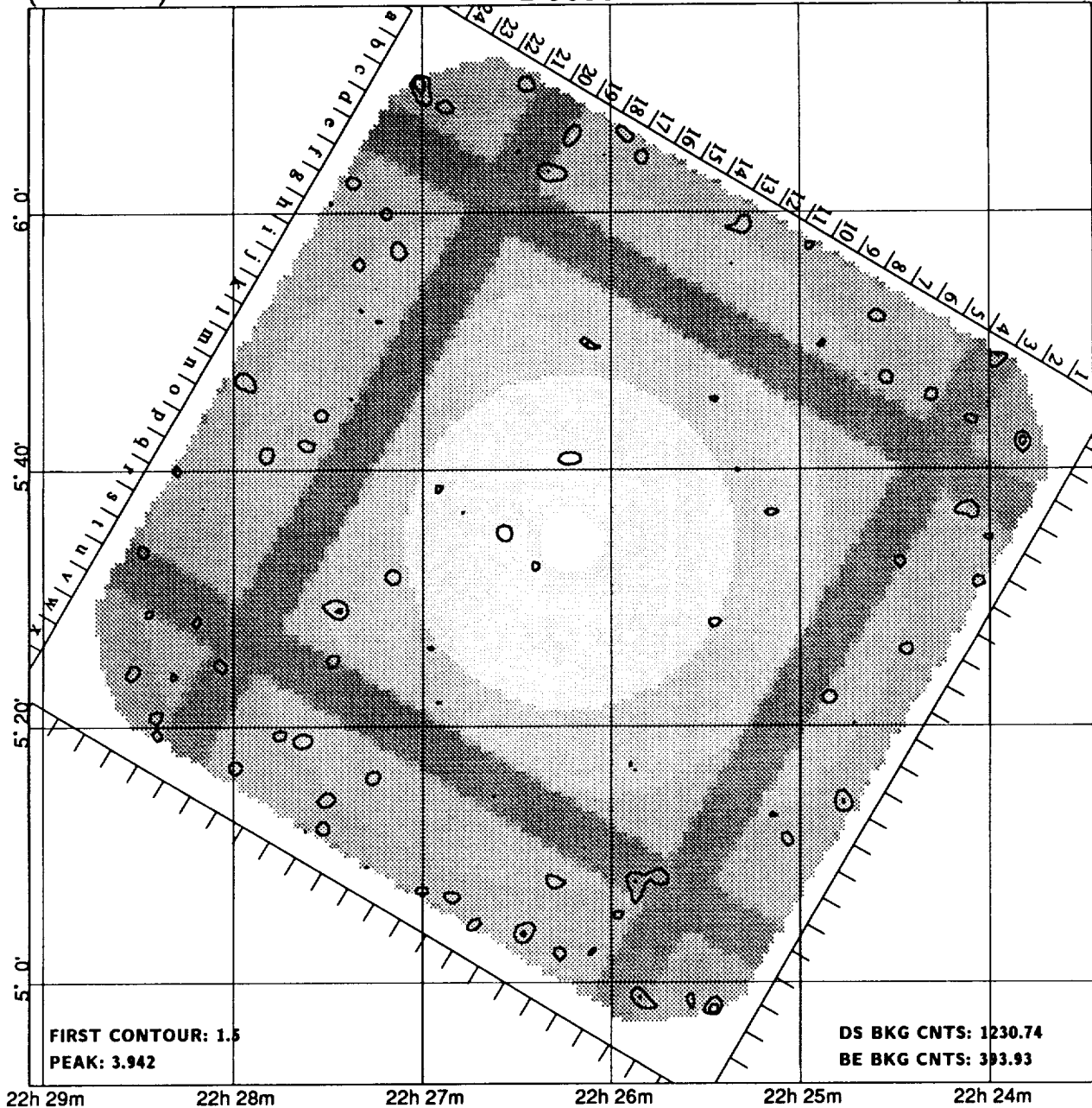
NH: 6.7E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4613	1	22 26 11.1	57 26 26	35	0.0343	0.0059	37.1	3.9	5.8	1.4	0	0.7	H S	
4614	2	22 26 49.7	57 37 45	42	0.0218	0.0052	20.5	3.5	4.2	0.8	0	12.3	H	

(22h 26m)

I 9053

(22h 26m)



SPECTROSCOPIC BINARIES WITHIN 25 Pc: WOOLLEY# 861

FIELD CENTER: 22^h26^m15.8^s 05°34'05" (B1950)
 22^h28^m47.0^s 05°49'27" (J2000)
 l : 71.28 b : -42.30

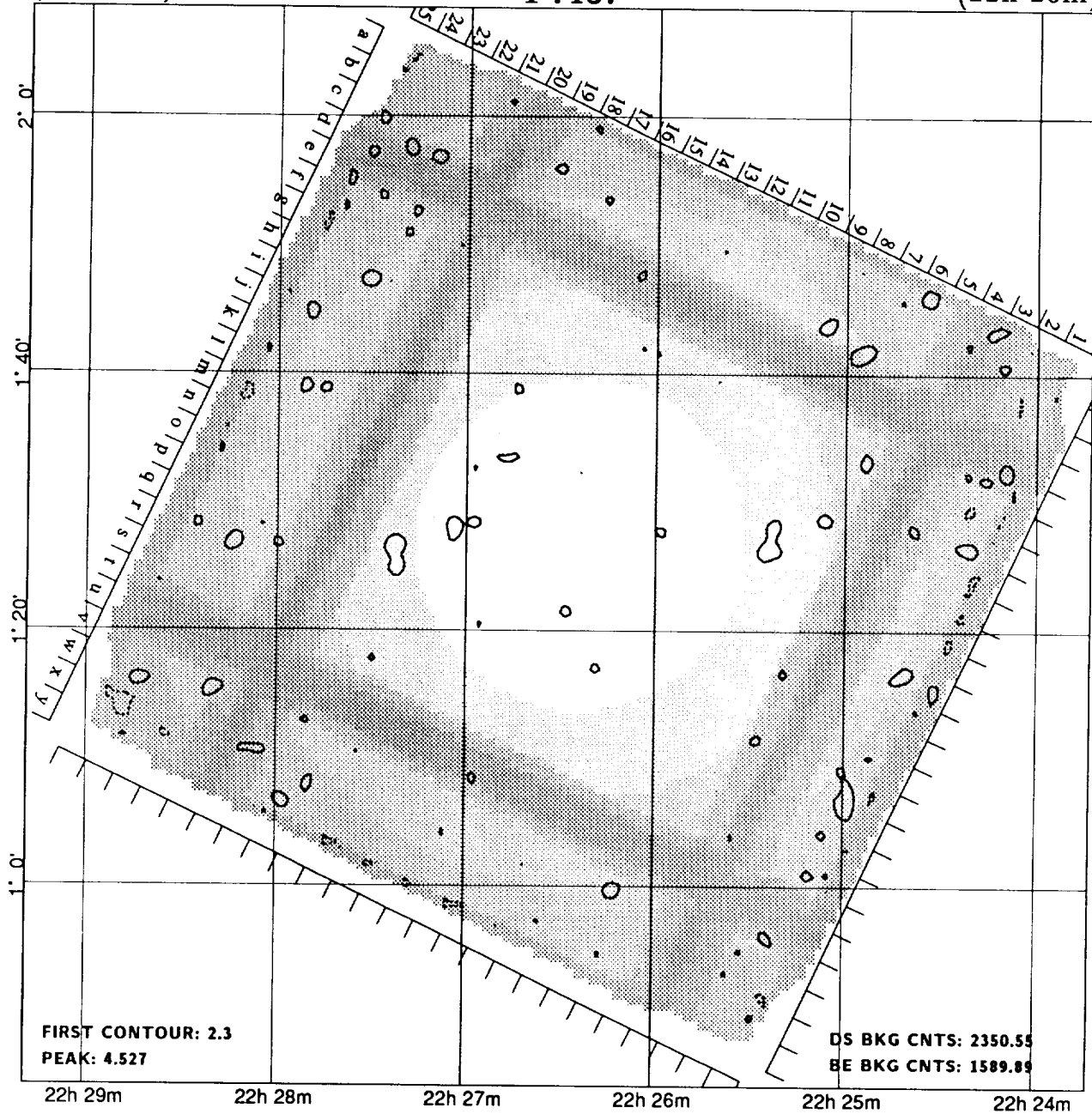
DATE: 1980/355 - 1980/355
 LIVETIME: 997.3s
 ROLL ANGLE: 120.6°

NH: 6.1E+20
 REF/ID:
 FIELD FLAGS:

(22h 26m)

I 7157

(22h 26m)



H2226+014, UNIDENTIFIED HEAO A2 SOURCE

FIELD CENTER: 22^h26^m30.9^s 01°26'23" (B1950)
 22^h29^m04.0^s 01°41'46" (J2000)
 l : 67.24 b : -45.23

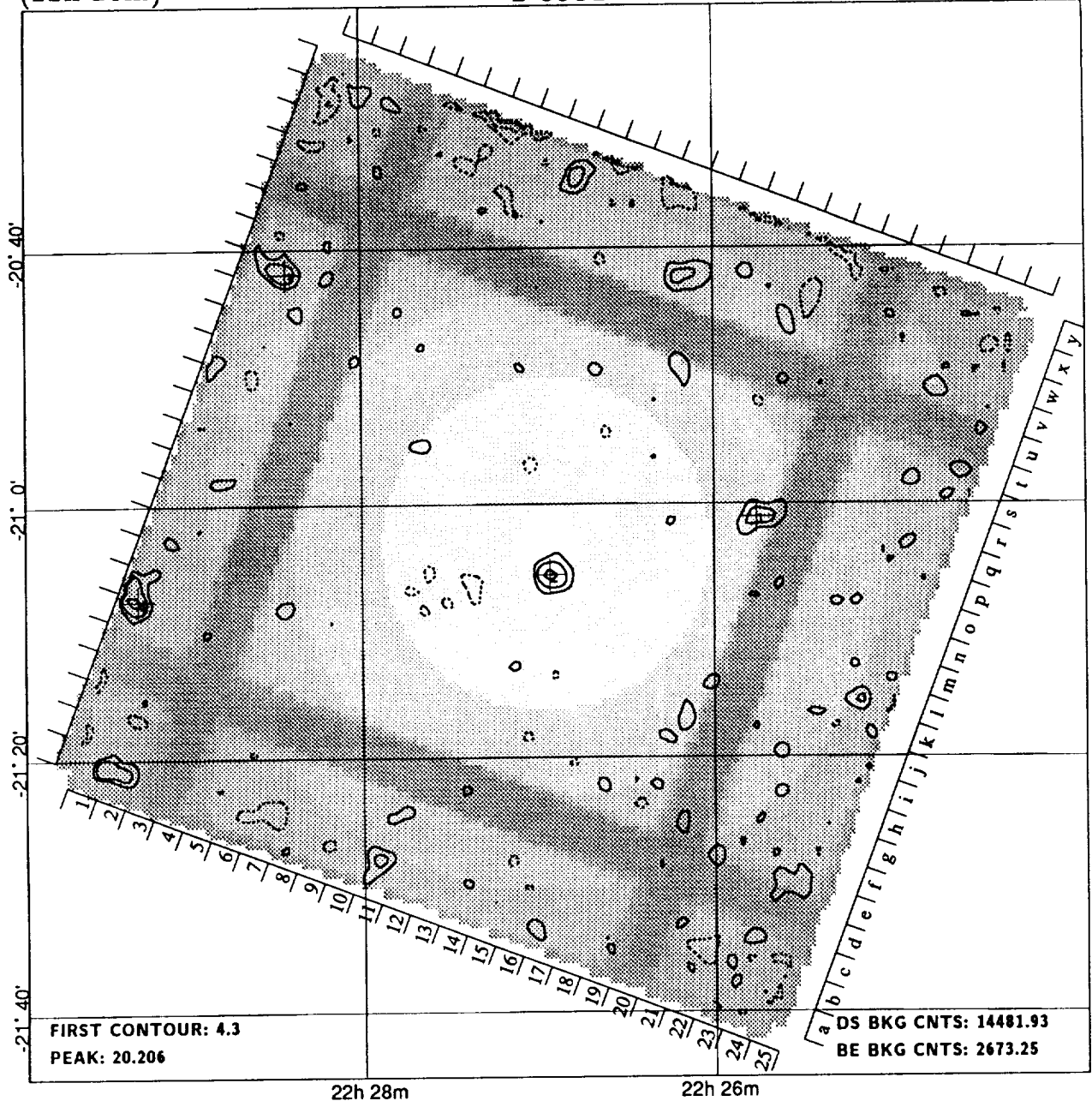
DATE: 1980/355 - 1980/355
LIVETIME: 1904.7s
ROLL ANGLE: 115.4°

NH: 5.5E+20
REF/ID:
FIELD FLAGS: L

(22h 26m)

I 6951

(22h 26m)



NGC 7293, X-RAY FLUX FROM CENTRAL STARS OF PLANETARY NEBULAE

FIELD CENTER: $22^h 26^m 53.7^s$ $-21^\circ 02' 59''$ (B1950)
 $22^h 29^m 37.5^s$ $-20^\circ 47' 36''$ (J2000)
 $l: 36.24$ $b: -57.10$

DATE: 1980/144 - 1980/158
 LIVETIME: 11735.1s
 ROLL ANGLE: -69.5°

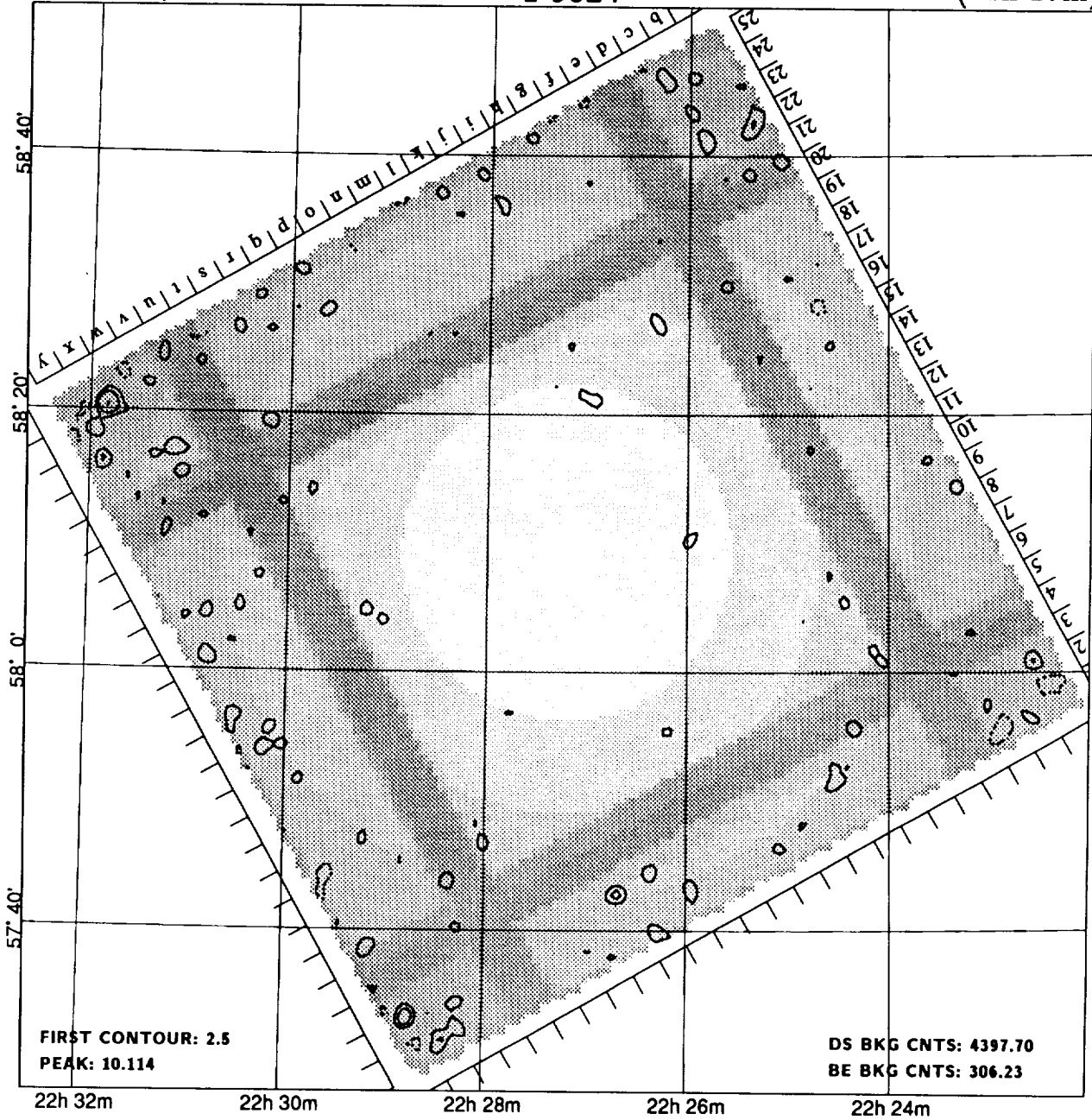
NH: $2.7E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4612	1	22 25 45.6	-21 01 04	52	0.0055	0.0013	36.5	33.5	4.4	1.0	300	16.0	H
4615	2	22 26 56.1	-21 05 32	33	0.0078	0.0013	67.2	51.8	6.2	0.9	0	2.6	H
4619	3	22 28 25.4	-20 41 58	56	0.0063	0.0017	26.4	25.6	3.7	0.9	0	30.0	H
4621	4	22 29 15.9	-21 07 26	56	*0.0078	0.0020	27.0	23.0	3.8	0.9	601	33.5	H

(22h 27m)

I 9024

(22h 27m)



TIME VARIATIONS OF DELTA CEPHEI STARS: DELTA CEPHEI

FIELD CENTER: $22^{\text{h}} 27^{\text{m}} 18.4^{\text{s}}$ $58^{\circ} 09' 31''$ (B1950)
 $22^{\text{h}} 29^{\text{m}} 10.0^{\text{s}}$ $58^{\circ} 24' 54''$ (J2000)
 $l: 105.19$ $b: 0.53$

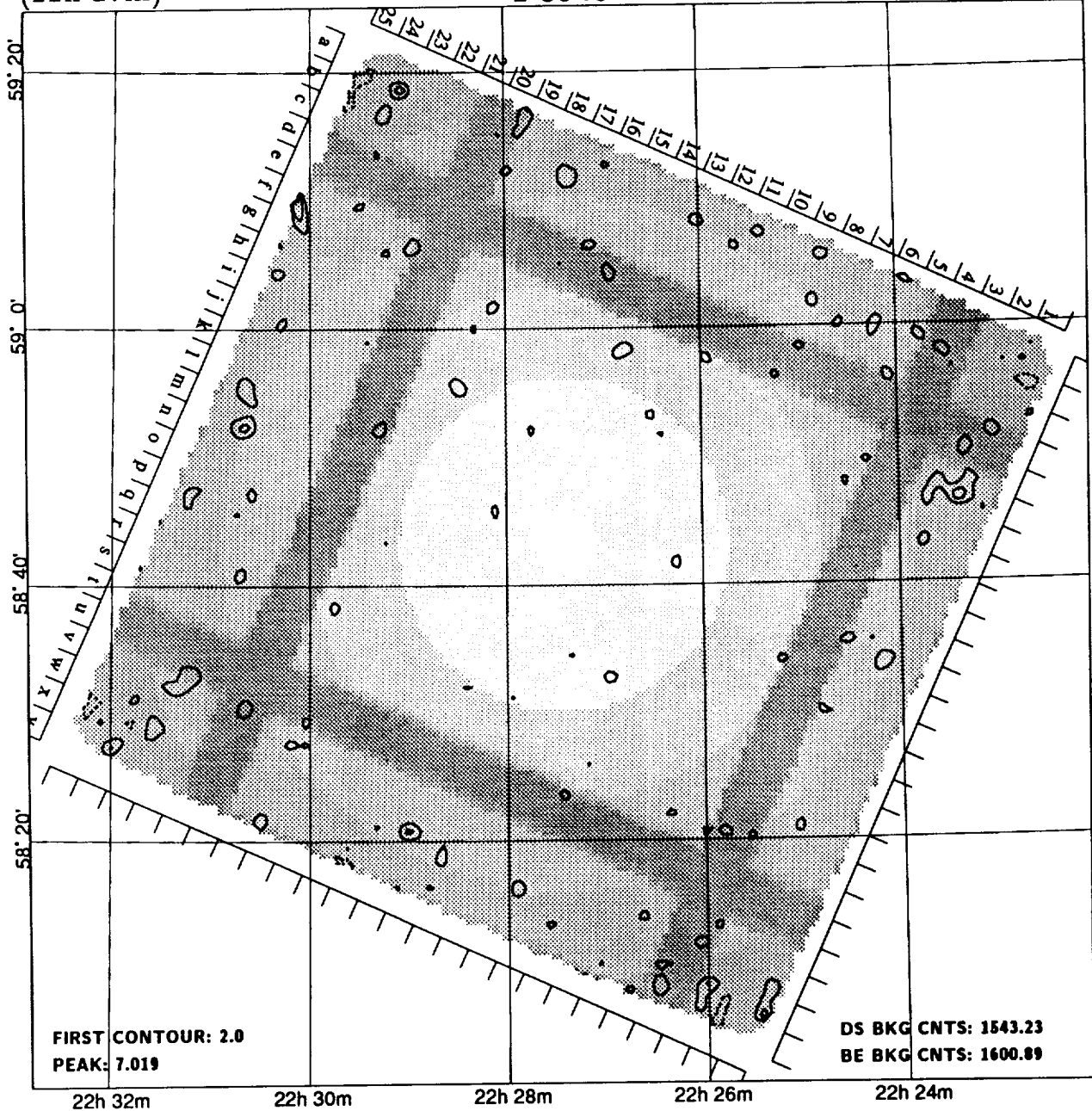
DATE: 1981/ 23 - 1981/ 23
 LIVETIME: 3563.6s
 ROLL ANGLE: 150.6°

NH: $7.6\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(22h 27m)

I 3940

(22h 27m)



COS-B GAMMA RAY SOURCE REGION AA

FIELD CENTER: 22^h27^m27.8^s 58°43'05" (B1950)
 22^h29^m18.6^s 58°58'28" (J2000)
 l : 105.50 b : 1.00

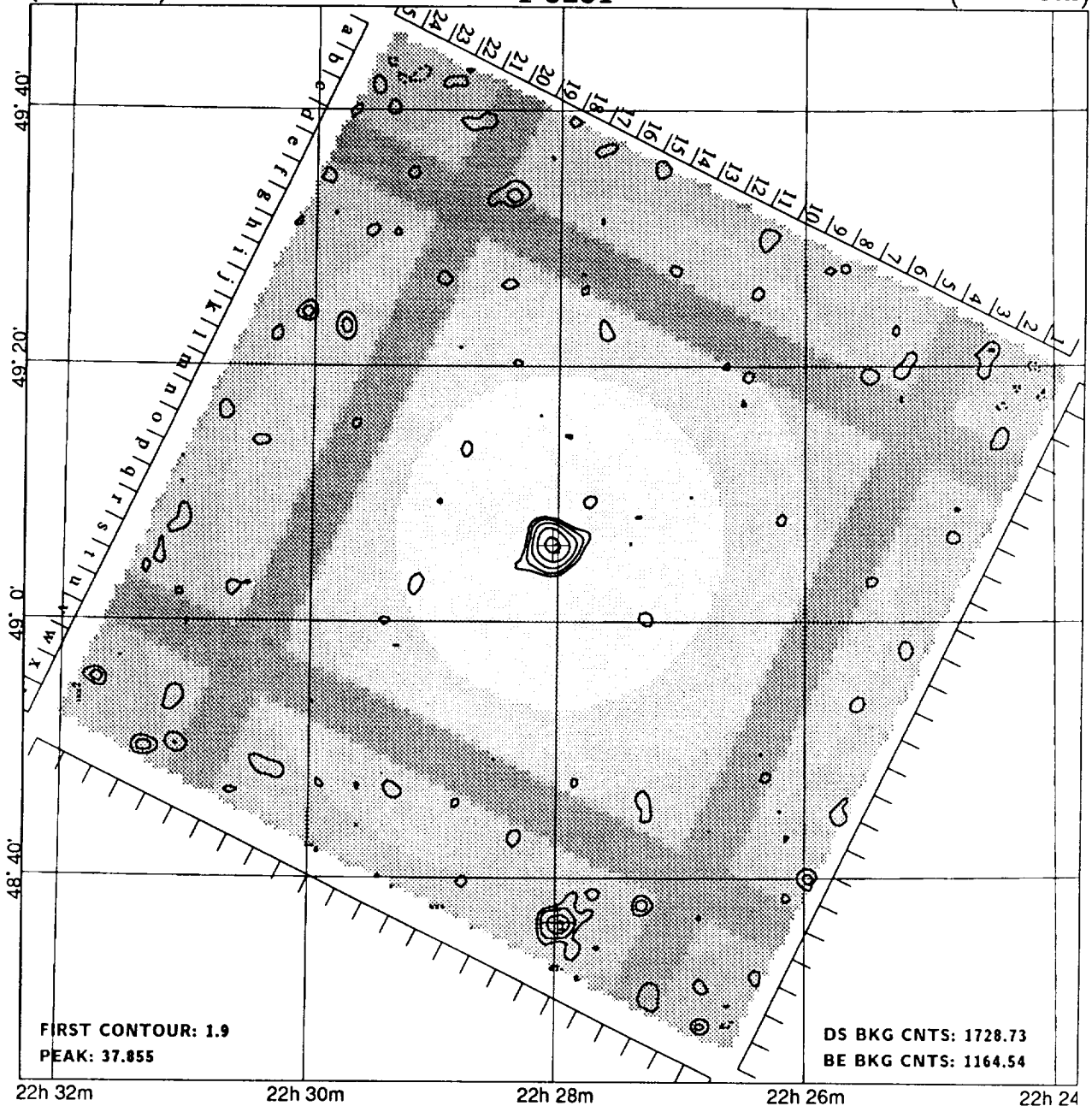
DATE: 1979/348 - 1979/348
 LIVETIME: 1250.5s
 ROLL ANGLE: 114.1°

NH: 7.8E+21
 REF/ID:
 FIELD FLAGS:

(22h 28m)

I 3231

(22h 28m)



RS CVN SYSTEMS: HD 213389

FIELD CENTER: $22^h 28^m 02.6^s$ $49^\circ 05' 59''$ (B1950)
 $22^h 30^m 06.4^s$ $49^\circ 21' 24''$ (J2000)
 $l: 100.61$ $b: -7.29$

DATE: 1979/349 - 1979/349
 LIVETIME: 1400.8s
 ROLL ANGLE: 116.1°

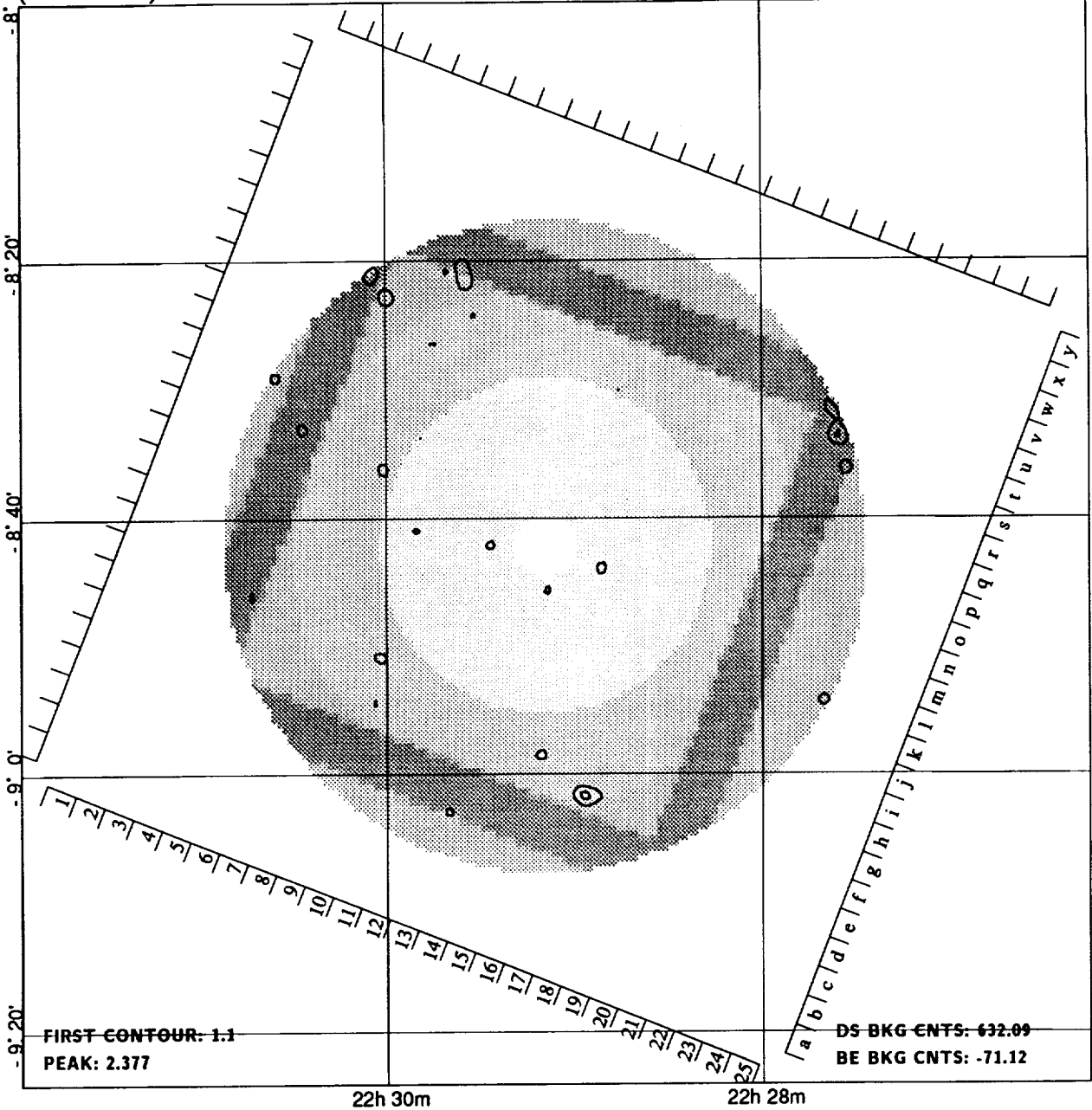
NH: $2.0E+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4617	1	22 27 58.4	48 36 33	51	0.045	0.011	22.1	4.9	4.2	1.1	0	29.5	H S	
4618	2	22 28 02.6	49 06 01	31	0.163	0.013	170.1	7.9	12.8	1.2	0	0.2	H CV	

(22h 29m)

I 1871

(22h 29m)



A2448: X-RAY STUDY OF CLUSTERS OF GALAXIES

FIELD CENTER: $22^{\text{h}}29^{\text{m}}05.8^{\text{s}}$ $-08^{\circ}41'59''$ (B1950)
 $22^{\text{h}}31^{\text{m}}43.4^{\text{s}}$ $-08^{\circ}26'33''$ (J2000)
 $l: 55.82$ $b: -52.07$

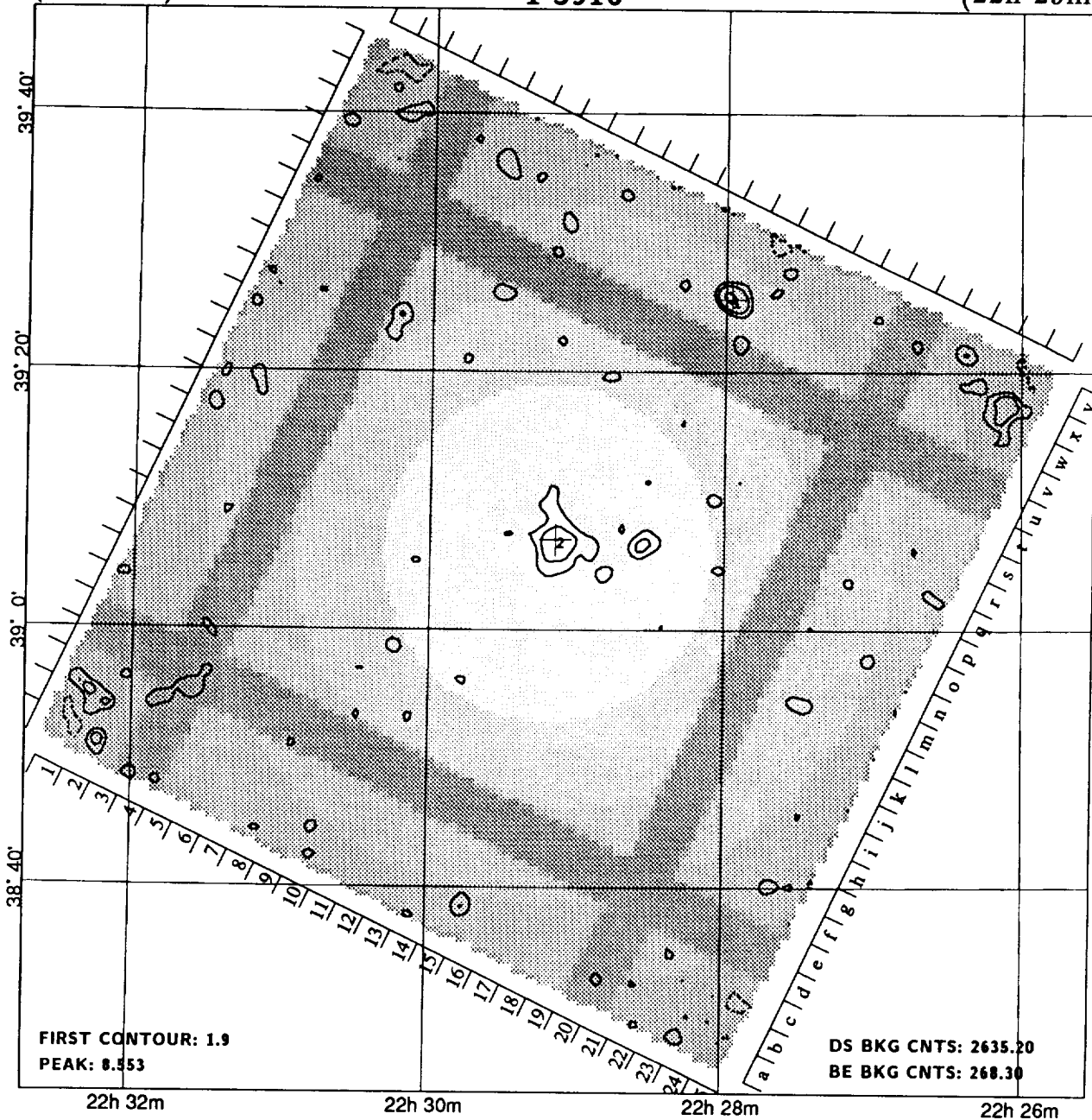
DATE: 1979/143 - 1979/143
 LIVETIME: 512.2s
 ROLL ANGLE: -68.6°

NH: $4.6\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(22h 29m)

I 3916

(22h 29m)



3C 449 HALO

FIELD CENTER: 22^h29^m07.5^s 39°06'03" (B1950)
 22^h31^m20.5^s 39°21'29" (J2000)
 $l: 95.45$ $b: -15.92$

DATE: 1980/163 - 1980/163
 LIVETIME: 2135.4s
 ROLL ANGLE: -64.6°

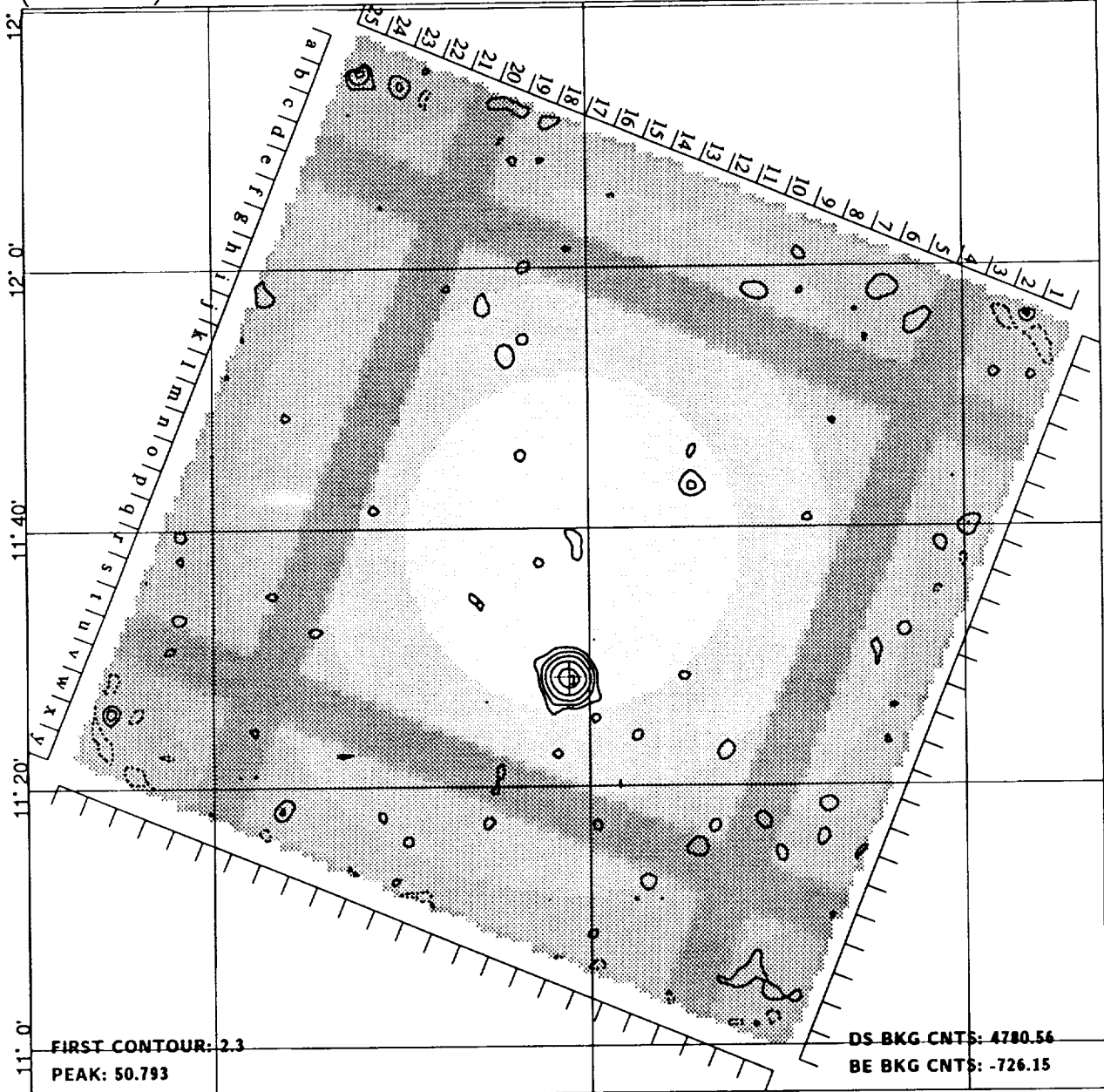
NH: 1.1E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4616	1	22 27 57.7	39 25 35	52	0.0230	0.0054	21.6	4.4	4.2	0.9	0	23.9	H	
4620	2	22 29 08.8	39 07 00	36	0.0204	0.0039	32.3	6.7	5.2	1.7	0	1.0	H	G

(22h 30m)

I 4042

(22h 30m)



22h 32m

22h 30m

22h 28m

QUASAR 2230+114 (CTA 102)

FIELD CENTER: $22^{\text{h}}30^{\text{m}}07.6^{\text{s}}$ $11^{\circ}38'22''$ (B1950)
 $22^{\text{h}}32^{\text{m}}36.1^{\text{s}}$ $11^{\circ}53'51''$ (J2000)
 $l: 77.57$ $b: -38.45$

DATE: 1979/336 - 1979/338
 LIVETIME: 3873.8s
 ROLL ANGLE: 112.1°

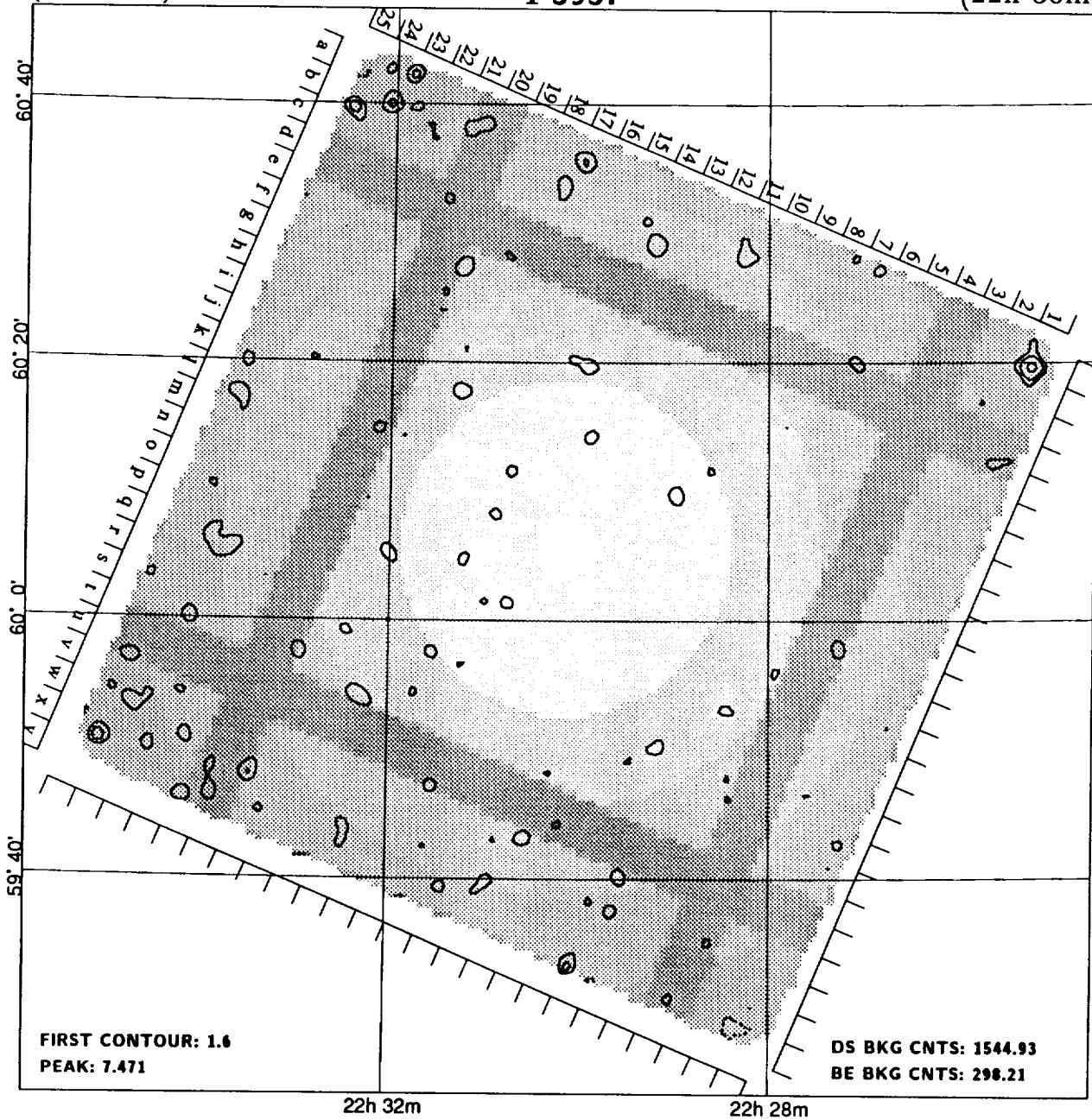
NH: $5.3\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4622	1	22 30 06.6	11 28 25	38	0.0745	0.0055	190.8	9.2	13.5	1.2	0	10.0	H	Q

(22h 30m)

I 3937

(22h 30m)



22h 32m

22h 28m

COS-B GAMMA RAY SOURCE REGION AA

FIELD CENTER: 22^h30^m12.8^s 60°05'17" (B1950)
 22^h32^m02.5^s 60°20'45" (J2000)
 l : 106.50 b : 2.00

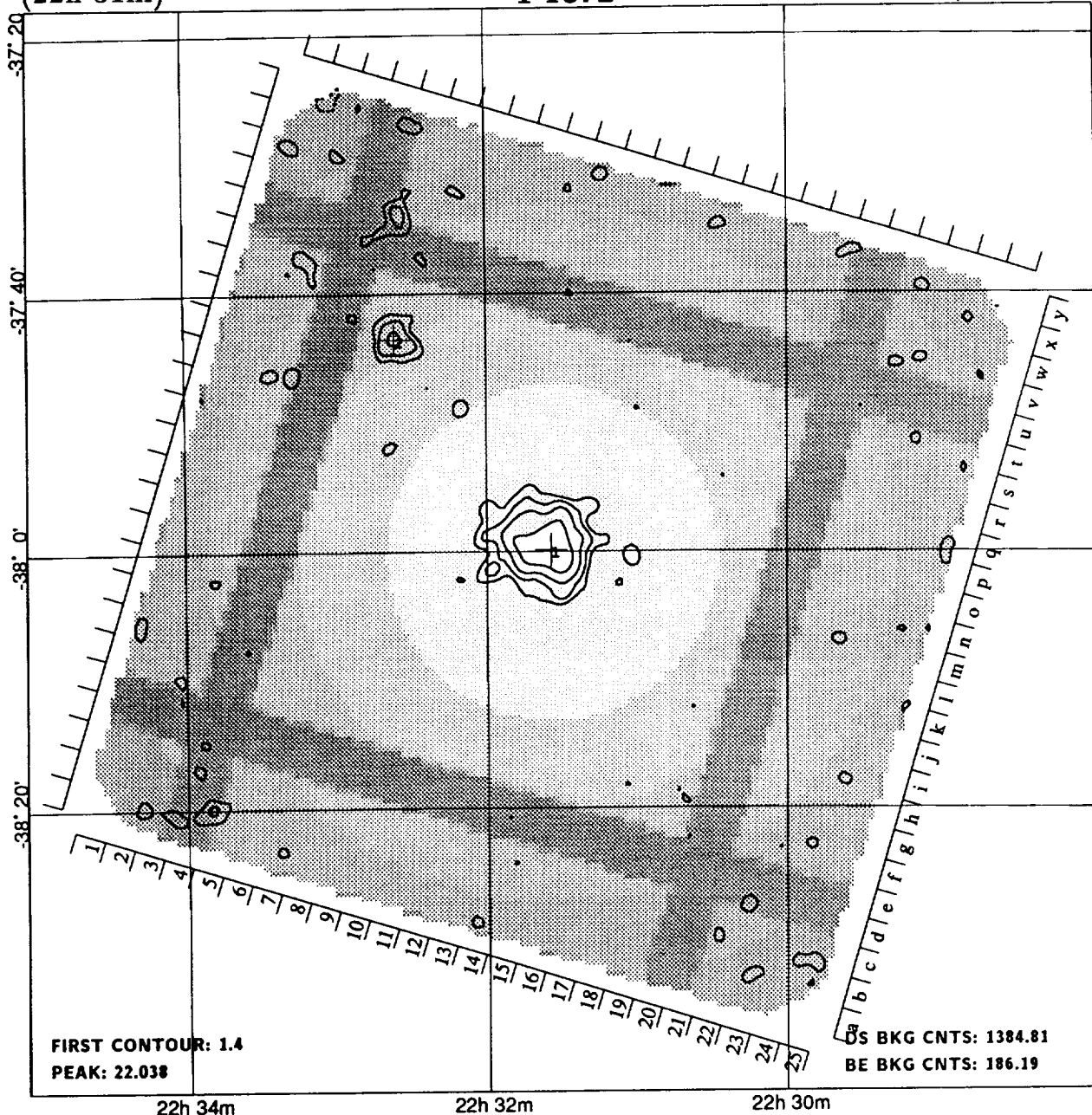
DATE: 1979/348 - 1979/348
 LIVETIME: 1251.9s
 ROLL ANGLE: 112.8°

NH: 8.8E+21
 REF/ID:
 FIELD FLAGS:

(22h 31m)

I 1872

(22h 31m)



22315-3800: X-RAY STUDY OF CLUSTERS OF GALAXIES

FIELD CENTER: 22^h31^m29.8^s -37°59'59" (B1950)
 22^h34^m22.8^s -37°44'28" (J2000)
 l : 3.94 b : -59.40

DATE: 1979/145 - 1979/145
 LIVETIME: 1122.1s
 ROLL ANGLE: -73.2°

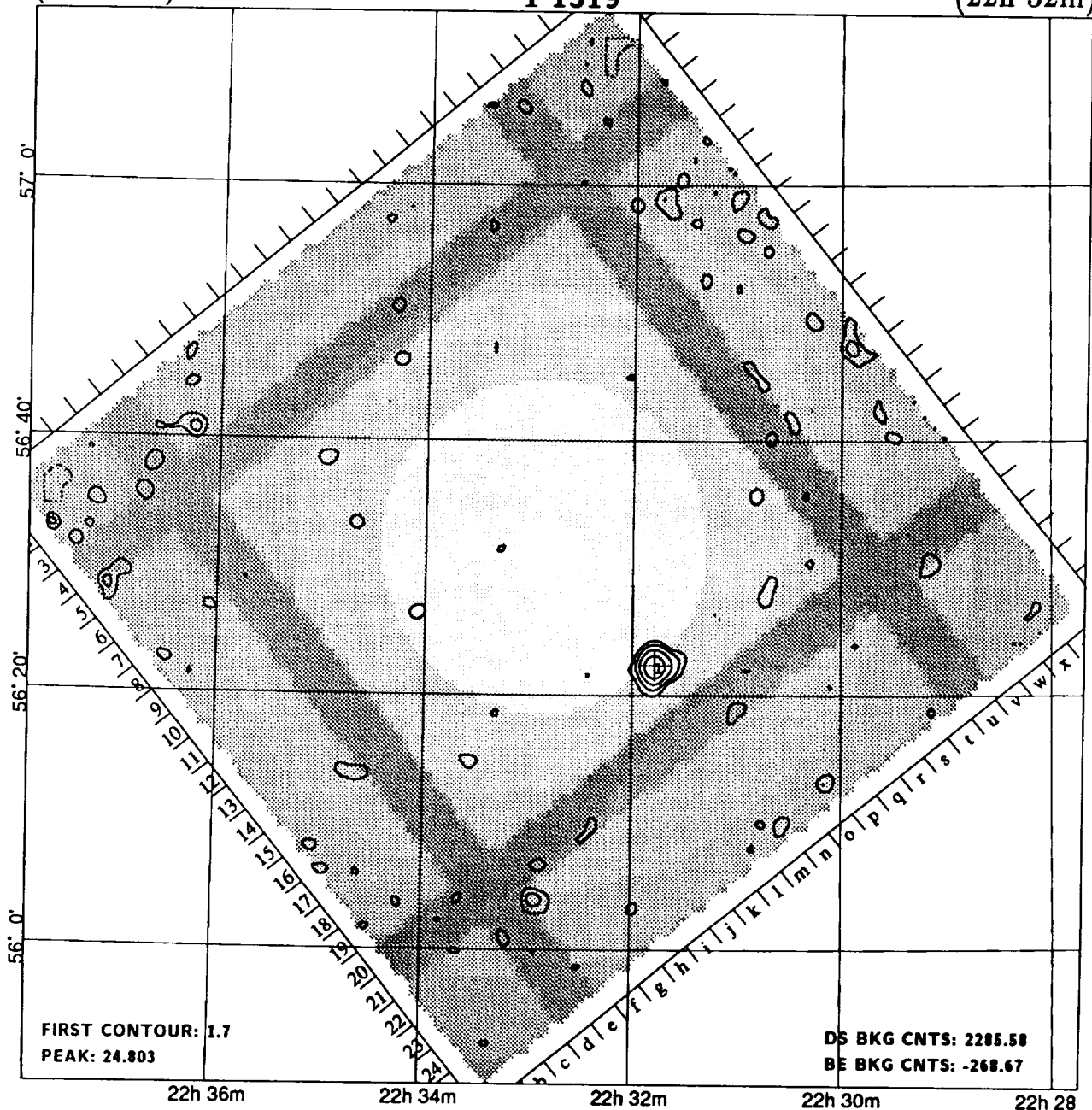
NH: 1.2E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4623	1	22 31 34.3	-37 59 52	31	0.140	0.013	117.3	3.7	10.7	3.0	0	0.9	H
4625	2	22 32 36.5	-37 43 31	55	0.0333	0.0082	18.6	2.4	4.1	1.2	0	21.3	H

(22h 32m)

I 1319

(22h 32m)



105 DEGREES GALACTIC PLANE SURVEY

FIELD CENTER: $22^{\text{h}}32^{\text{m}}44.5^{\text{s}}$ $56^{\circ}31'27''$ (B1950)
 $22^{\text{h}}34^{\text{m}}41.0^{\text{s}}$ $56^{\circ}46'59''$ (J2000)
 $l: 105.00$ $b: -1.25$

DATE: 1980/194 - 1980/194
 LIVETIME: 1852.1s
 ROLL ANGLE: -39.1°

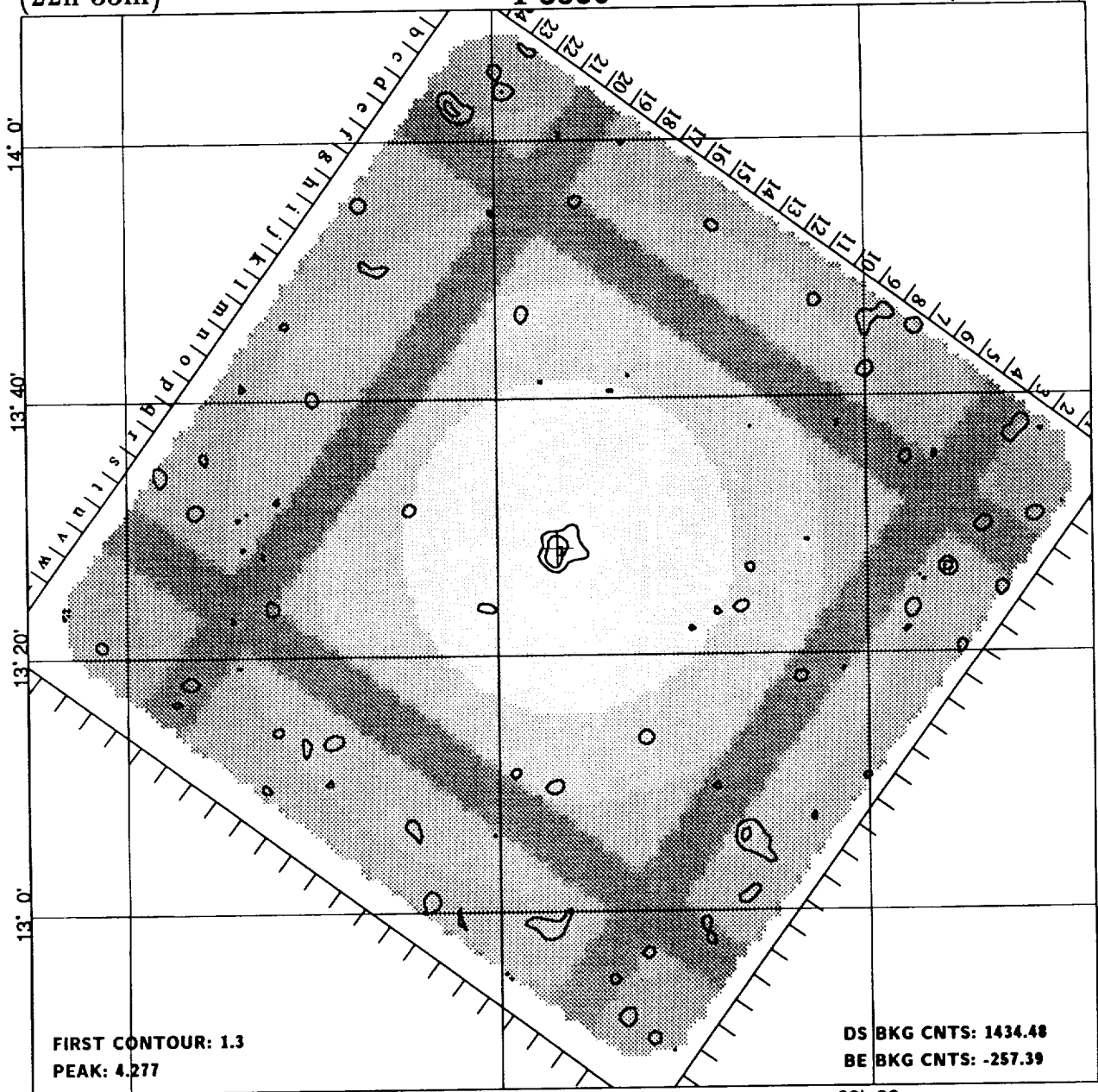
NH: $5.3E+21$
 REF/ID: S
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4624	1	22 31 47.2	56 22 24	38	0.0570	0.0072	66.1	3.9	7.9	1.0	0	11.9	H S

(22h 33m)

I 5386

(22h 33m)



SURVEY OF BRIGHT QUASARS (PG)

FIELD CENTER: $22^{\text{h}}33^{\text{m}}39.5^{\text{s}}$ $13^{\circ}28'13''$ (B1950)
 $22^{\text{h}}36^{\text{m}}07.4^{\text{s}}$ $13^{\circ}43'47''$ (J2000)
 $l: 79.90$ $b: -37.59$

DATE: 1981/ 4 - 1981/ 4
 LIVETIME: 1162.4s
 ROLL ANGLE: 126.1°

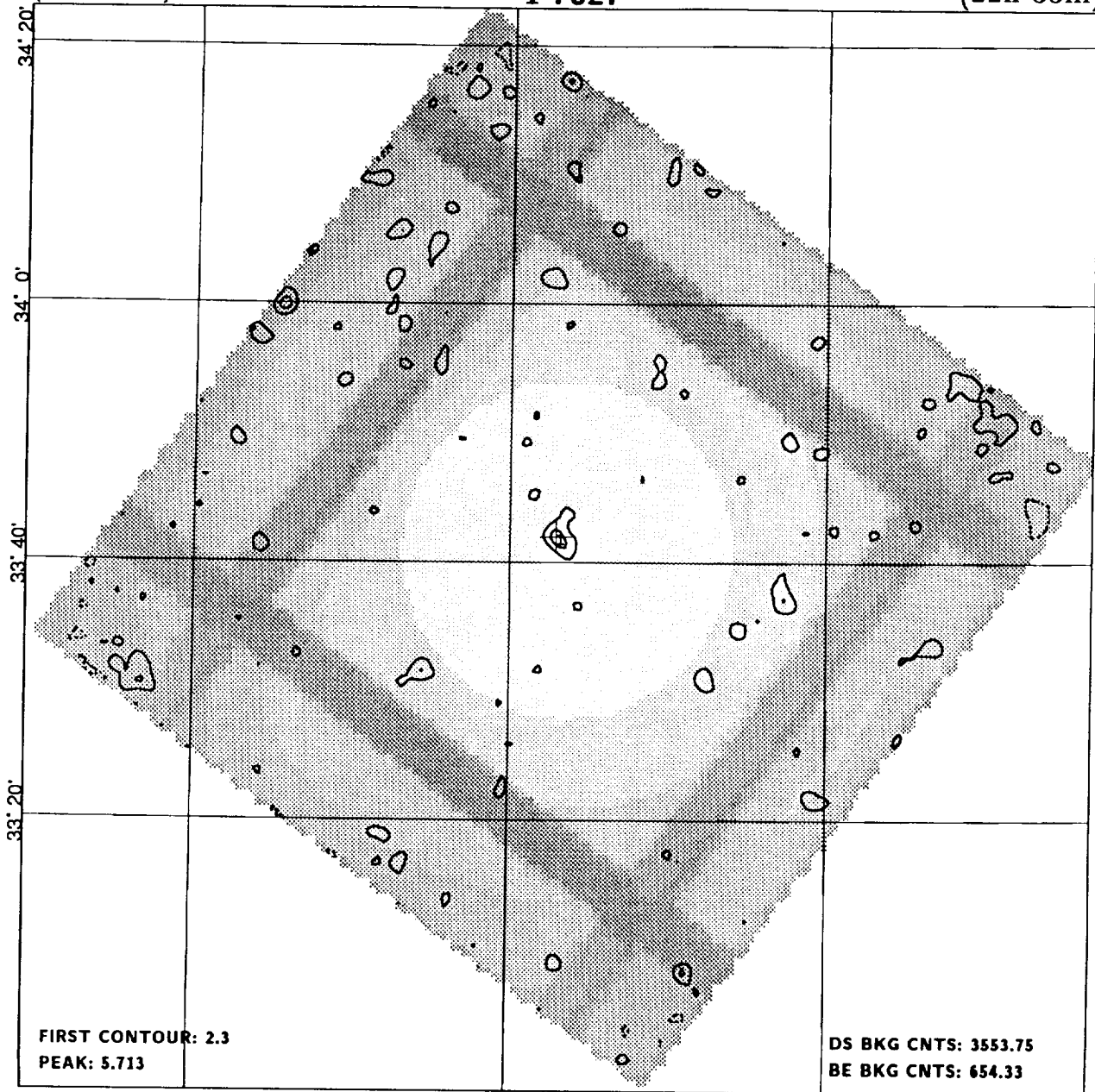
NH: $4.7\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4626	1	22 33 40.6	13 28 18	38	0.0187	0.0050	16.1	2.9	3.7	1.1	0	0.6	H	Q

(22h 33m)

I 7827

(22h 33m)



VV 288, COMPACT V-V GROUPS OF GALAXIES

FIELD CENTER: $22^{\text{h}} 33^{\text{m}} 41.8^{\text{s}}$ $33^{\circ} 40' 59''$ (B1950)
 $22^{\text{h}} 35^{\text{m}} 59.3^{\text{s}}$ $33^{\circ} 56' 33''$ (J2000)
 $l: 93.25$ $b: -21.01$

DATE: 1980/363 - 1980/363
 LIVETIME: 2879.7s

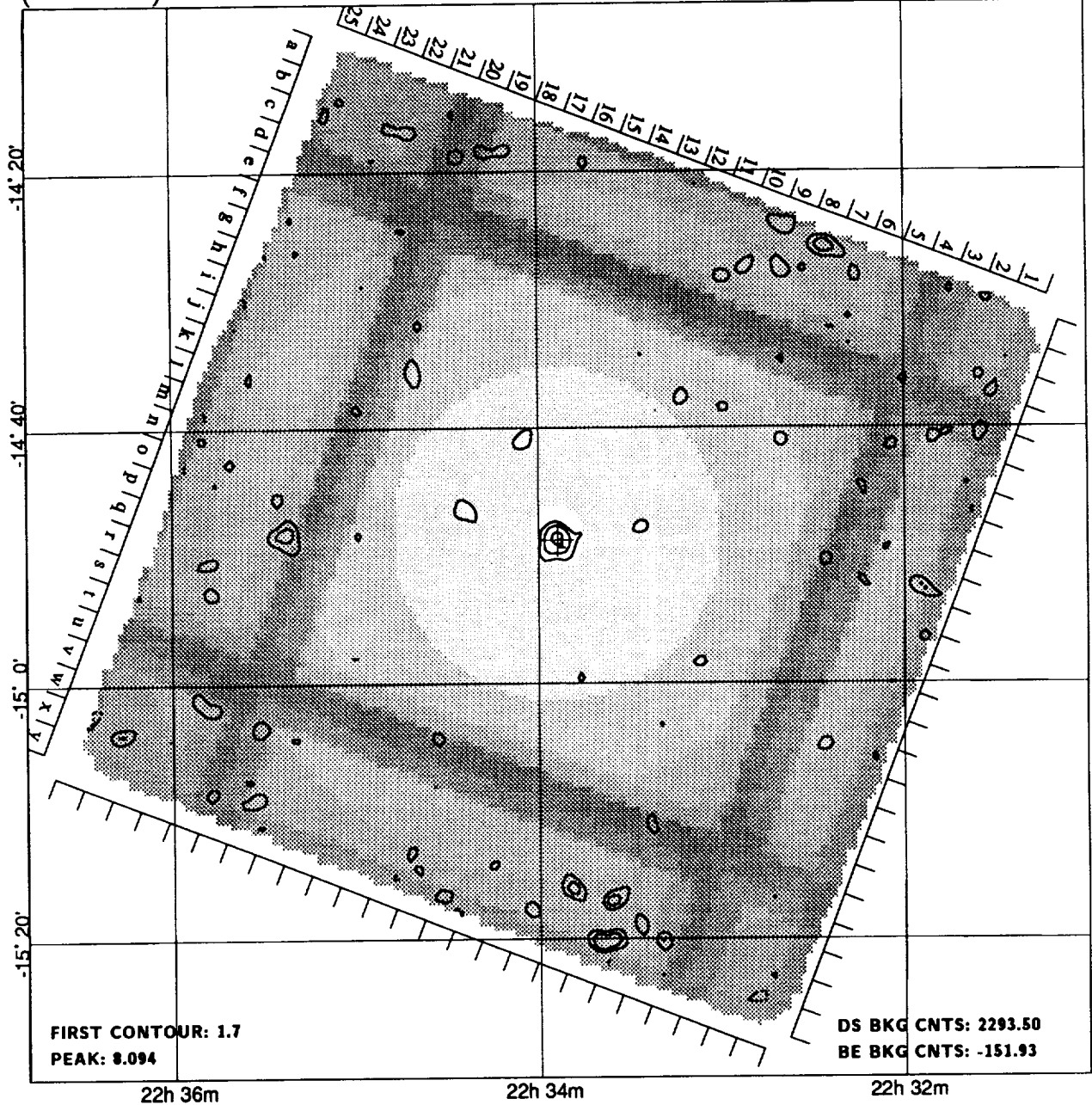
NH: $7.5E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4627	1	22 33 42.5	33 41 59	37	0.0104	0.0027	22.2	11.8	3.8	1.0	0	1.3	H	GLB

(22h 33m)

I 3902

(22h 33m)



2233-148, BL-LAC OBJECT

FIELD CENTER: $22^{\text{h}}33^{\text{m}}53.7^{\text{s}}$ $-14^{\circ}48'57''$ (B1950)
 $22^{\text{h}}36^{\text{m}}33.8^{\text{s}}$ $-14^{\circ}33'22''$ (J2000)
 $l: 47.88$ $b: -56.21$

DATE: 1979/339 - 1979/339
 LIVETIME: 1858.5s
 ROLL ANGLE: 111.0°

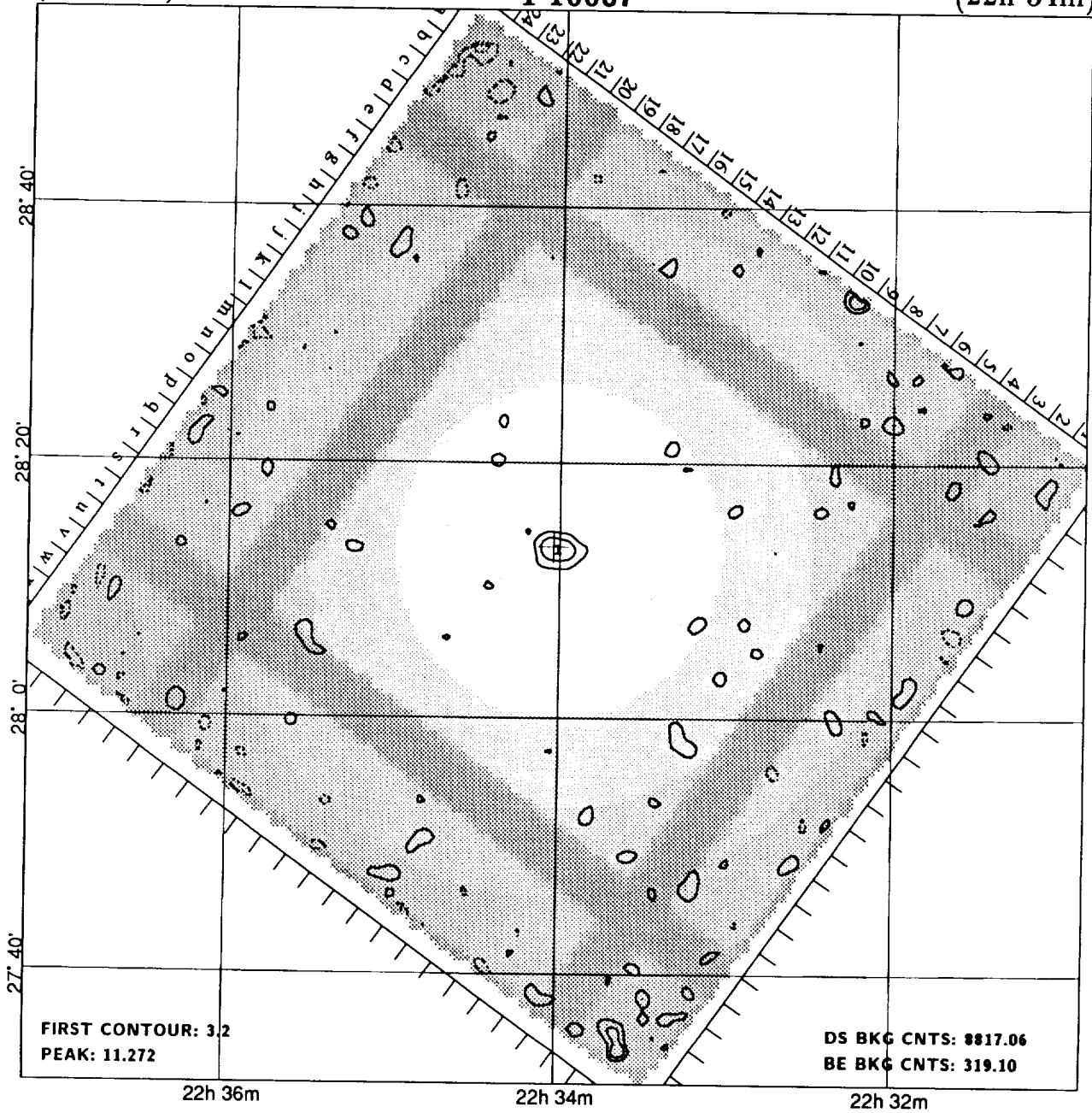
NH: $4.3\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4628	1	22 33 53.7	-14 48 47	36	0.0225	0.0043	31.2	4.8	5.2	0.9	0	0.4	H	BL

(22h 34m)

I 10087

(22h 34m)



FIRST CONTOUR: 3.2
PEAK: 11.272

DS BKG CNTS: 8817.06
BE BKG CNTS: 319.10

NEAR-SIMULTANEOUS OBSRV's OF OVV QSO's: 2234+282

FIELD CENTER: 22^h34^m01.5^s 28°13'20" (B1950)
22^h36^m22.2^s 28°28'55" (J2000)
l: 90.12 *b*: -25.65

DATE: 1980/364 - 1980/365
LIVETIME: 7144.8s
ROLL ANGLE: 125.5°

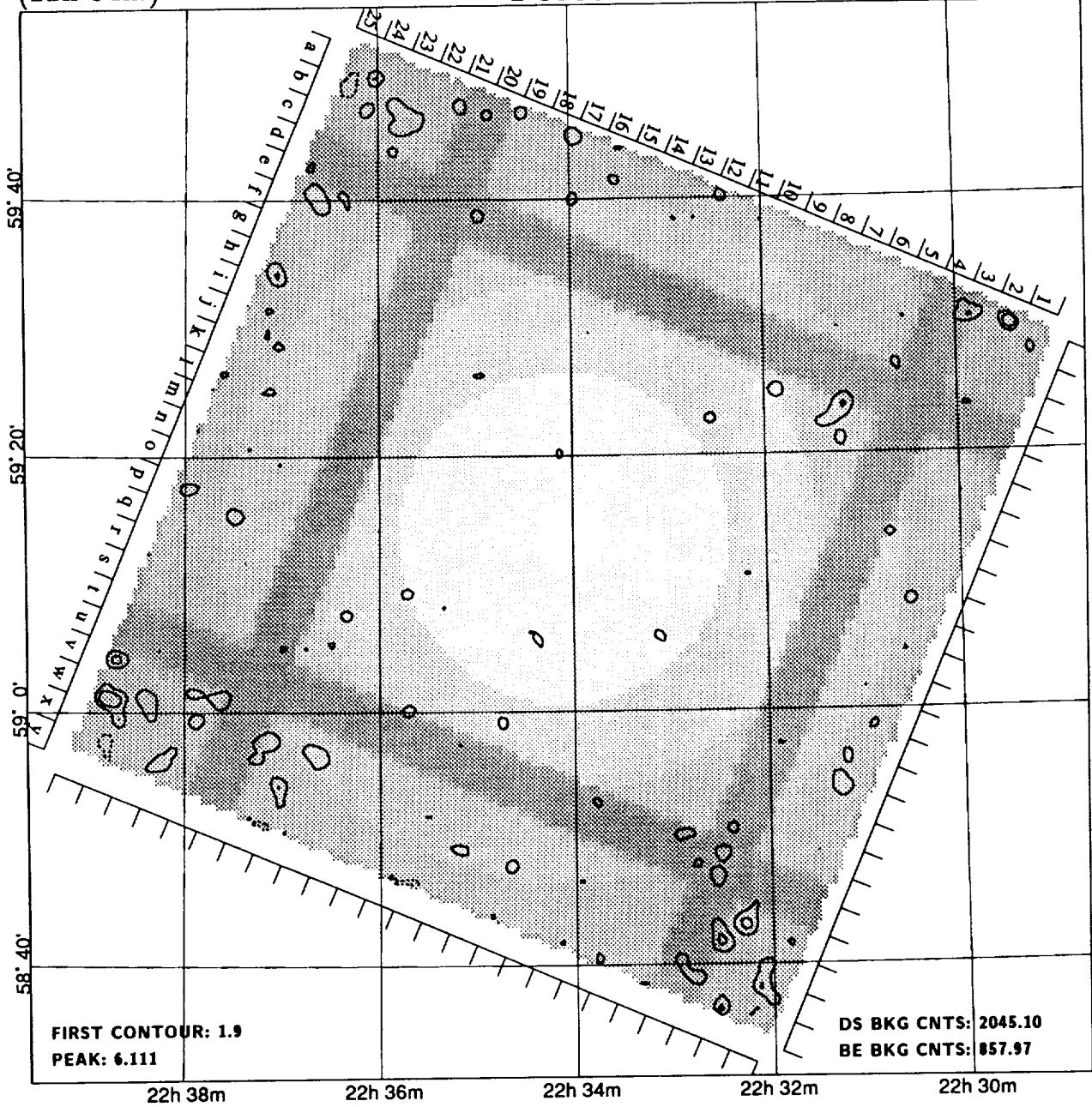
NH: 5.6E+20
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4629	1	22 34 02.4	28 13 28	35	0.0089	0.0016	47.1	23.9	5.6	1.1	0	0.4	H

(22h 34m)

I 3938

(22h 34m)



COS-B GAMMA RAY SOURCE REGION AA

FIELD CENTER: 22^h 34^m 09.9^s 59° 13' 17" (B1950)
 22^h 36^m 02.8^s 59° 28' 51" (J2000)
 l : 106.50 b : 1.00

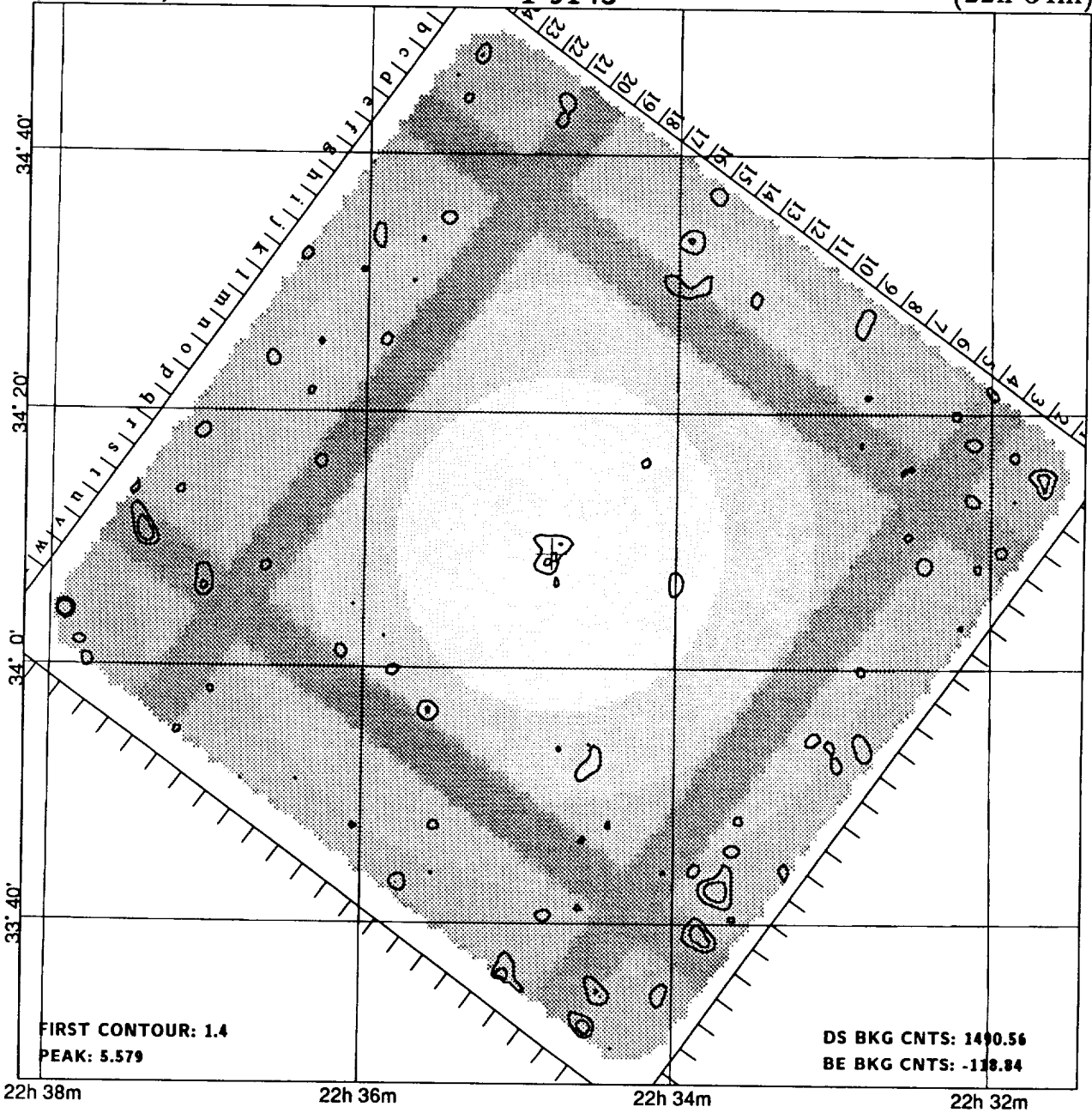
DATE: 1979/348 - 1979/348
 LIVETIME: 1657.2s
 ROLL ANGLE: 112.7°

NH: 7.7E+21
 REF/ID:
 FIELD FLAGS:

(22h 34m)

I 9145

(22h 34m)



CAREFULLY SELECTED Sbc GALAXIES: NGC 7331

FIELD CENTER: $22^{\text{h}}34^{\text{m}}47.2^{\text{s}}$ $34^{\circ}09'29''$ (B1950)
 $22^{\text{h}}37^{\text{m}}04.7^{\text{s}}$ $34^{\circ}25'05''$ (J2000)
 $l: 93.73$ $b: -20.72$

DATE: 1980/364 - 1980/364
 LIVETIME: 1207.8s
 ROLL ANGLE: 126.1°

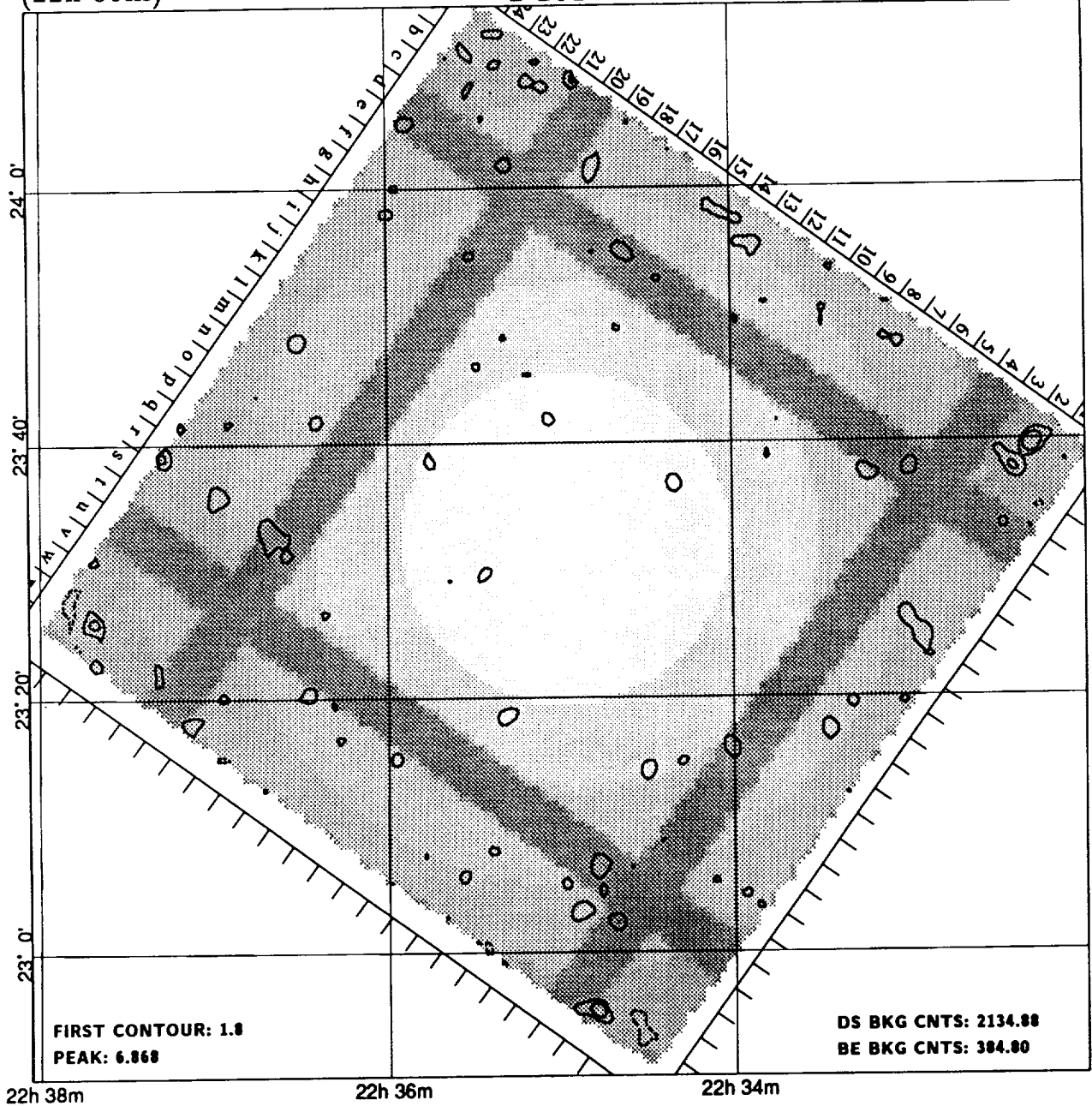
NH: $7.6\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4630	1	22 34 47.9	34 08 51	42	0.0167	0.0047	15.0	3.0	3.5	0.8	0	0.4	H

(22h 35m)

I 10122

(22h 35m)



FIRST CONTOUR: 1.0
 PEAK: 6.868

DS BKG CNTS: 2134.88
 BE BKG CNTS: 384.80

NGC 7332, ACTIVE S0 GALAXIES

FIELD CENTER: 22^h 35^m 00.8^s 23° 32' 17" (B1950)
 22^h 37^m 24.1^s 23° 47' 53" (J2000)
 l : 87.39 b : -29.67

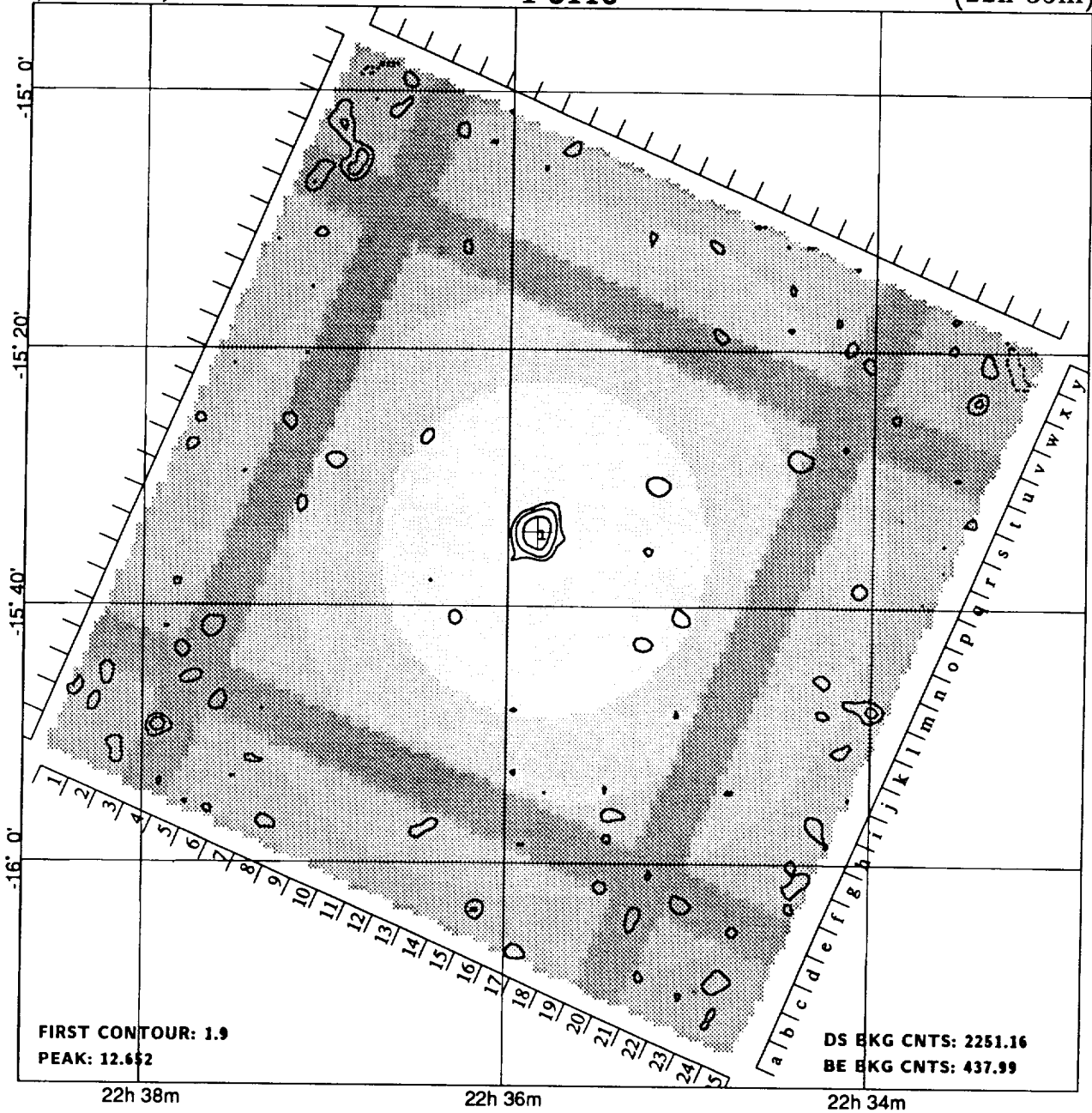
DATE: 1980/363 - 1980/363
 LIVETIME: 1730.0s
 ROLL ANGLE: 125.8°

NH: 4.5E+20
 REF/ID:
 FIELD FLAGS:

(22h 35m)

I 3118

(22h 35m)



COHERENT SAMPLING OF NEARBY STARS: L 789-6

FIELD CENTER: $22^{\text{h}} 35^{\text{m}} 44.7^{\text{s}}$ $-15^{\circ} 35' 27''$ (B1950)
 $22^{\text{h}} 38^{\text{m}} 25.0^{\text{s}}$ $-15^{\circ} 19' 49''$ (J2000)
 $l: 46.99$ $b: -56.96$

DATE: 1980/131 - 1980/131
 LIVETIME: 1824.2s
 ROLL ANGLE: -66.5°

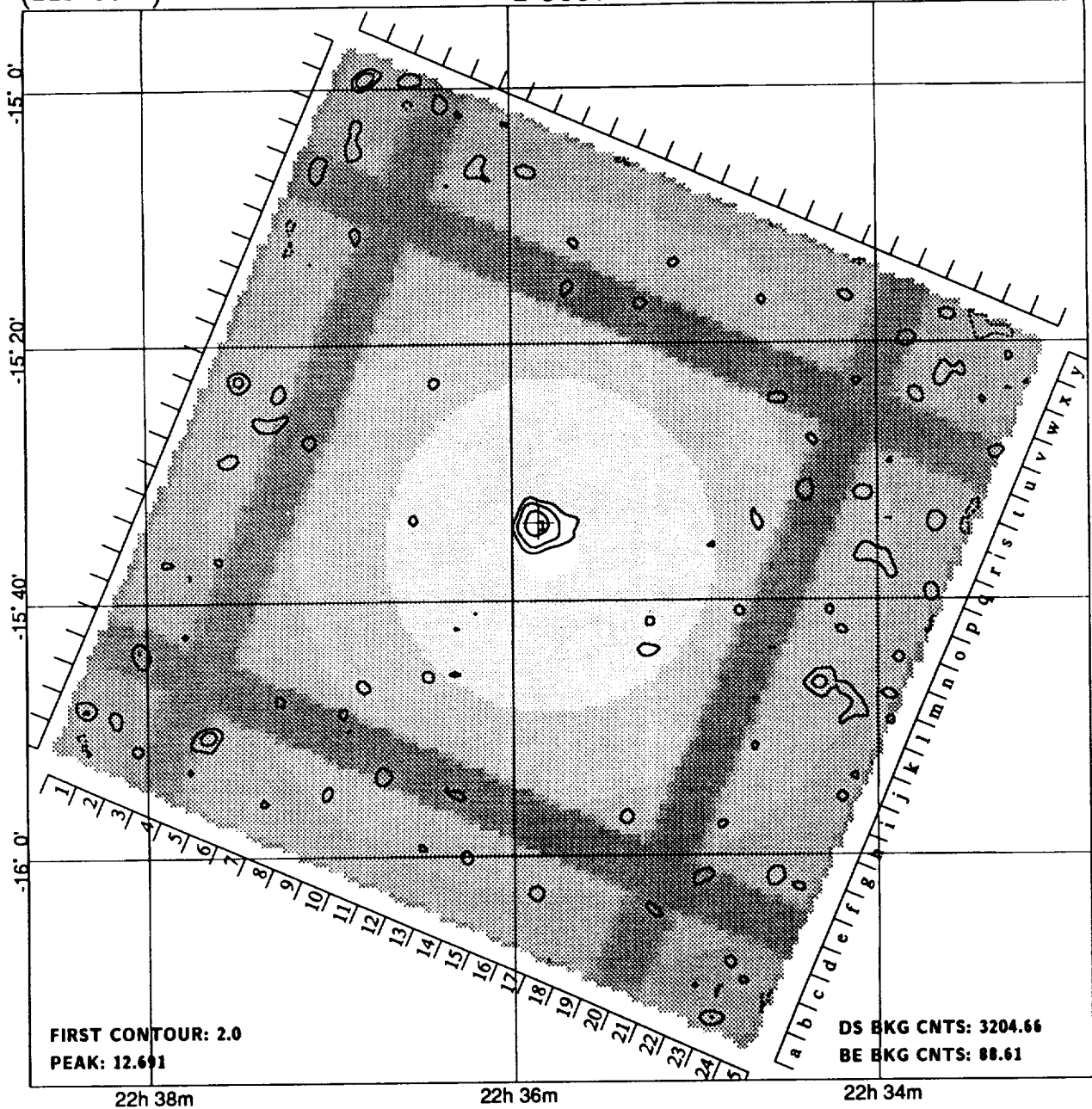
NH: $3.0E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4631	1	22 35 50.4	-15 34 17	35	0.0450	0.0061	60.8	6.2	7.4	1.2	0	2.1	AH S

(22h 35m)

I 5657

(22h 35m)



L789-6

FIELD CENTER: $22^{\text{h}} 35^{\text{m}} 44.8^{\text{s}}$ $-15^{\circ} 35' 35''$ (B1950)
 $22^{\text{h}} 38^{\text{m}} 25.1^{\text{s}}$ $-15^{\circ} 19' 58''$ (J2000)
 $l: 46.99$ $b: -56.96$

DATE: 1980/133 - 1980/134
 LIVETIME: 2596.8s
 ROLL ANGLE: -66.8°

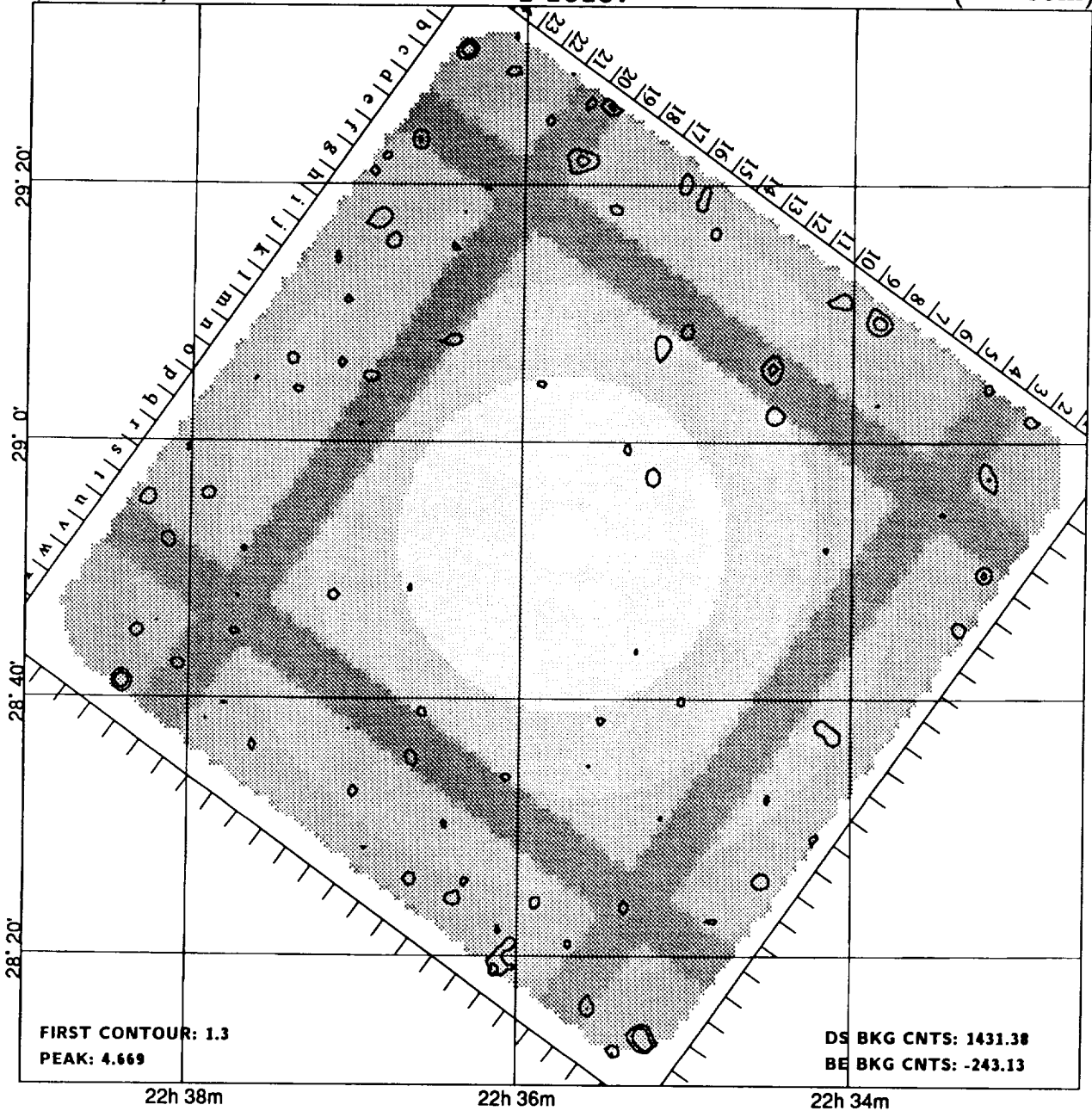
NH: $3.8\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4631	1	22 35 51.4	-15 33 56	35	0.0265	0.0040	50.6	7.4	6.6	1.4	0	2.8	AH S

(22h 35m)

I 10157

(22h 35m)



22h 38m

22h 36m

22h 34m

B2 2240+29

FIELD CENTER: $22^{\text{h}}35^{\text{m}}47.8^{\text{s}}$ $28^{\circ}51'53''$ (B1950)
 $22^{\text{h}}38^{\text{m}}08.5^{\text{s}}$ $29^{\circ}07'30''$ (J2000)
 $l: 90.86$ $b: -25.32$

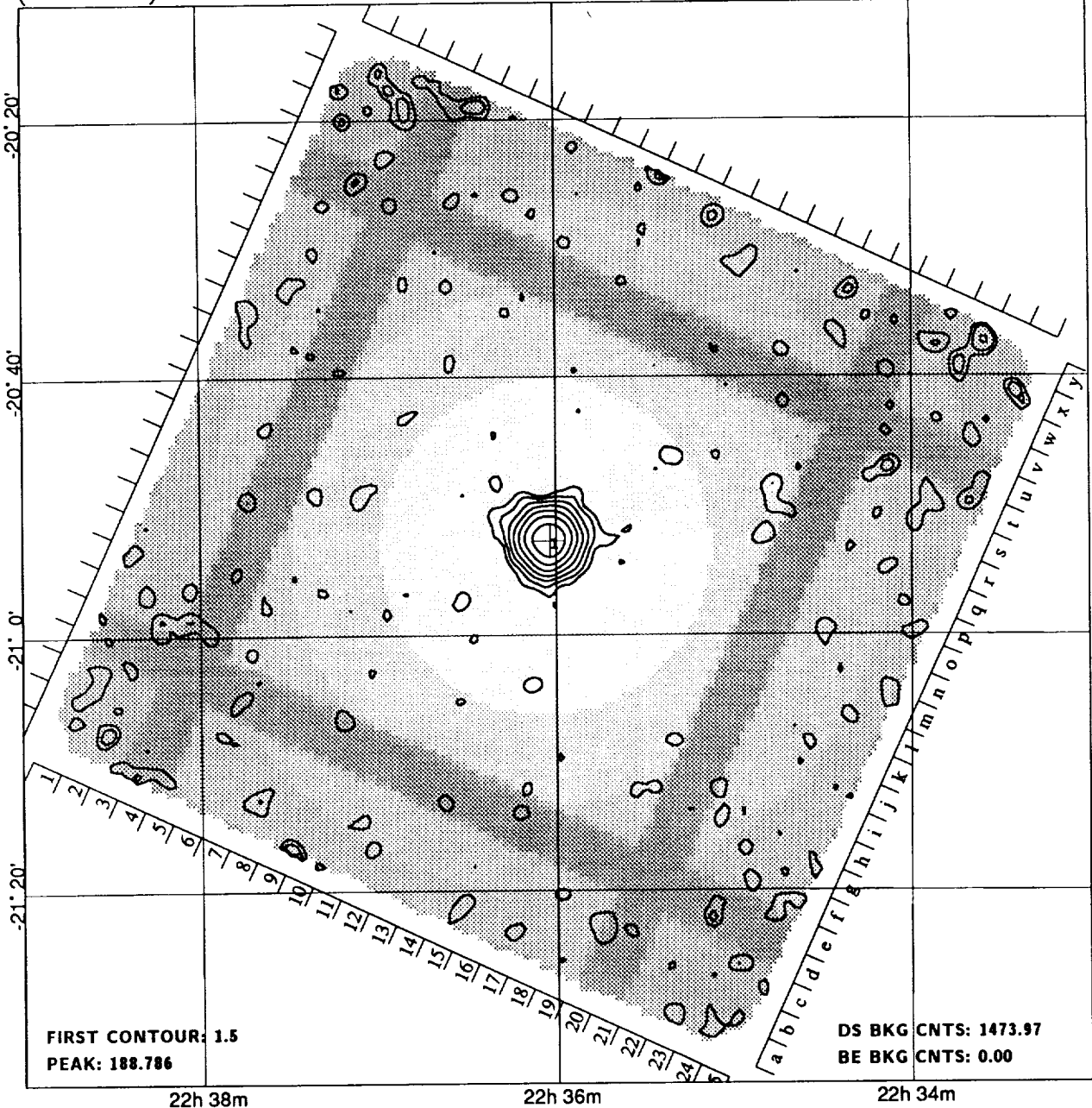
DATE: 1980/365 - 1980/365
 LIVETIME: 1159.9s
 ROLL ANGLE: 125.6°

NH: $5.9\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(22h 35m)

I 7380

(22h 35m)



BD-21 6267,DM & DK STARS:CORRELATION OF ROTATION & X-RAYS

FIELD CENTER: $22^{\text{h}}35^{\text{m}}59.8^{\text{s}}$ $-20^{\circ}52'59''$ (B1950)
 $22^{\text{h}}38^{\text{m}}42.5^{\text{s}}$ $-20^{\circ}37'21''$ (J2000)
 $l: 37.81$ $b: -59.06$

DATE: 1980/132 - 1980/132
 LIVETIME: 1194.4s
 ROLL ANGLE: -65.5°

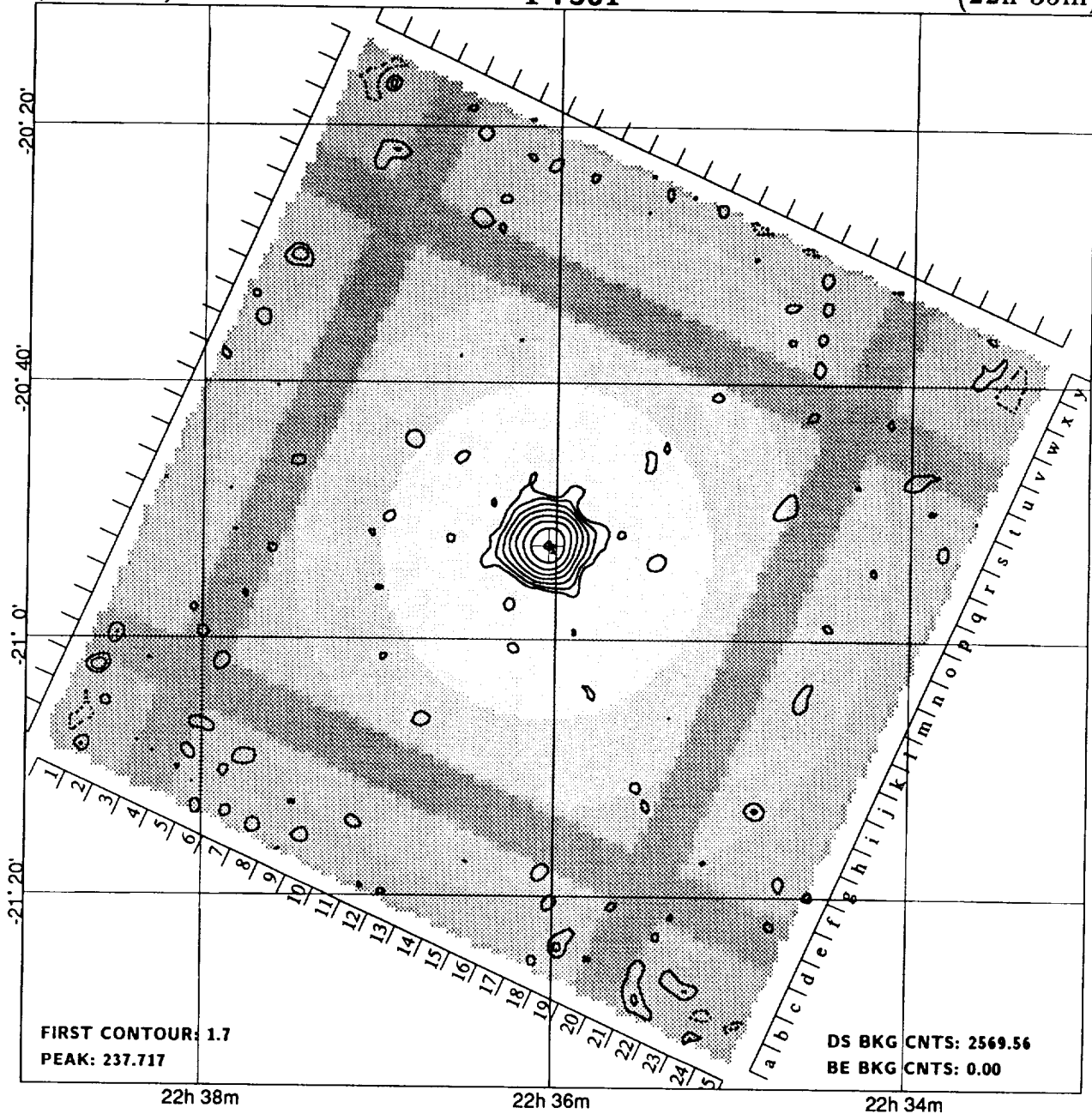
NH: $2.4E+20$
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4632	1L	22 36 02.0	-20 52 43	31	0.787	0.039	699.9	193.1	20.0	1.5	0	0.7	A

(22h 35m)

I 7381

(22h 35m)



BD-21 6267,DM & DK STARS:CORRELATION OF ROTATION & X-RAYS

FIELD CENTER: $22^h 35^m 59.8^s$ $-20^\circ 52' 59''$ (B1950)
 $22^h 38^m 42.5^s$ $-20^\circ 37' 21''$ (J2000)
 $l: 37.81$ $b: -59.06$

DATE: 1980/133 - 1980/133
 LIVETIME: 2082.2s
 ROLL ANGLE: -65.8°

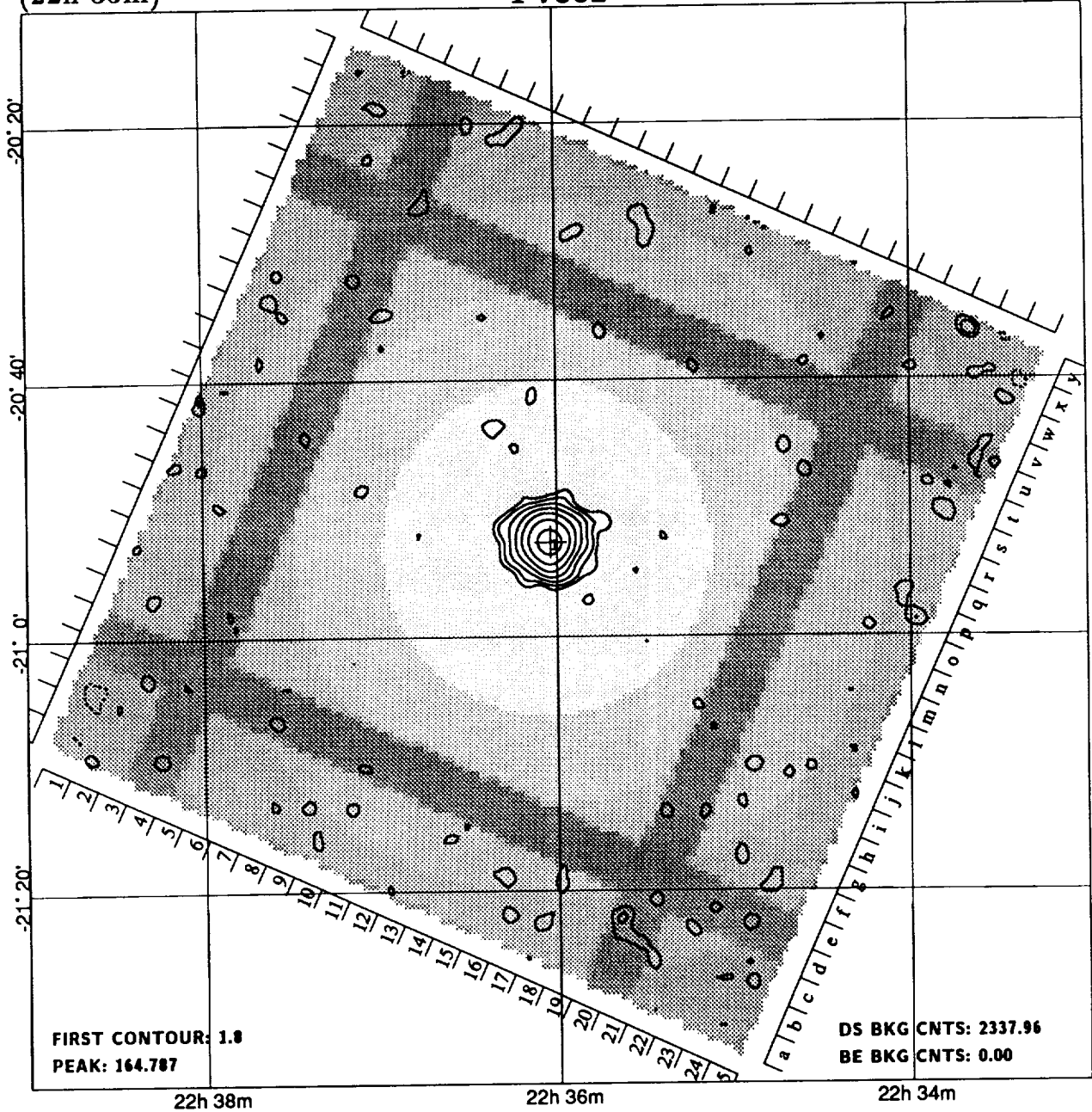
NH: $2.4E+20$
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4632	1L	22 36 02.6	-20 52 43	31	0.554	0.025	859.2	253.8	22.0	1.5	0	0.8	A

(22h 35m)

I 7382

(22h 35m)



BD-21 6267,DM & DK STARS:CORRELATION OF ROTATION & X-RAYS

FIELD CENTER: $22^{\text{h}} 35^{\text{m}} 59.8^{\text{s}}$ $-20^{\circ} 52' 59''$ (B1950)
 $22^{\text{h}} 38^{\text{m}} 42.5^{\text{s}}$ $-20^{\circ} 37' 21''$ (J2000)
 $l: 37.81$ $b: -59.06$

DATE: 1980/134 - 1980/134
 LIVETIME: 1894.5s
 ROLL ANGLE: -65.9°

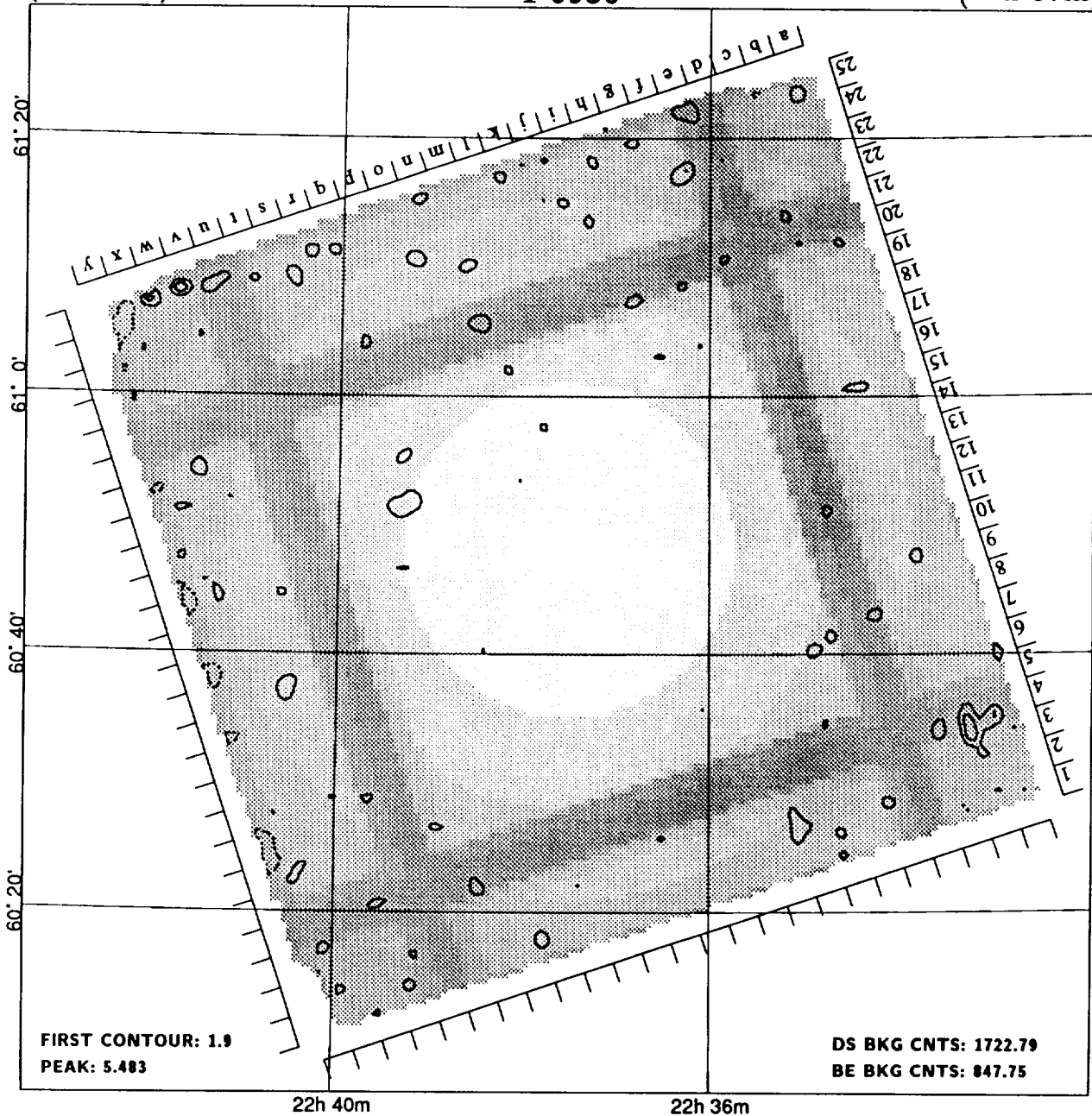
NH: $2.4\text{E}+20$
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4632	1L	22 36 02.2	-20 52 39	31	0.433	0.023	611.2	186.8	18.4	1.6	0	0.7	A

(22h 37m)

I 6936

(22h 37m)



3A 2237+608, GALACTIC SOURCE LOCATIONS & SPECTRA I

FIELD CENTER: $22^{\text{h}}37^{\text{m}}37.8^{\text{s}}$ $60^{\circ}47'59''$ (B1950)
 $22^{\text{h}}39^{\text{m}}29.8^{\text{s}}$ $61^{\circ}03'38''$ (J2000)
 $l: 107.65$ $b: 2.17$

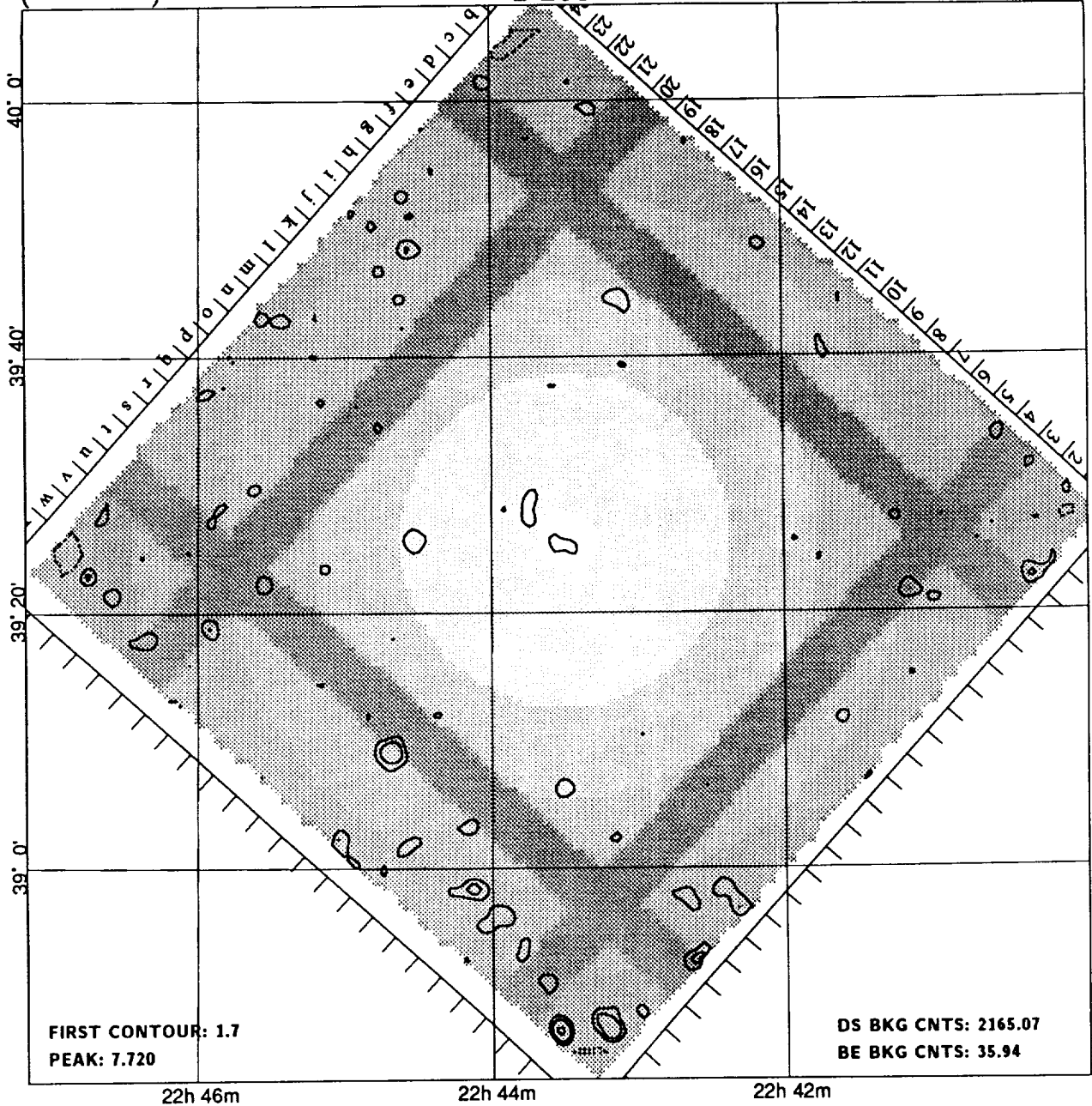
DATE: 1980/ 39 - 1980/ 39
LIVETIME: 1396.0s
ROLL ANGLE: 161.7°

NH: $8.5\text{E}+21$
REF/ID:
FIELD FLAGS:

(22h 43m)

I 2681

(22h 43m)



3C 452.0: BRIGHT X-GALACTIC RADIO SOURCE

FIELD CENTER: $22^h 43^m 32.8^s$ $39^\circ 25' 27''$ (B1950)
 $22^h 45^m 48.8^s$ $39^\circ 41' 16''$ (J2000)
 $l: 98.13$ $b: -17.06$

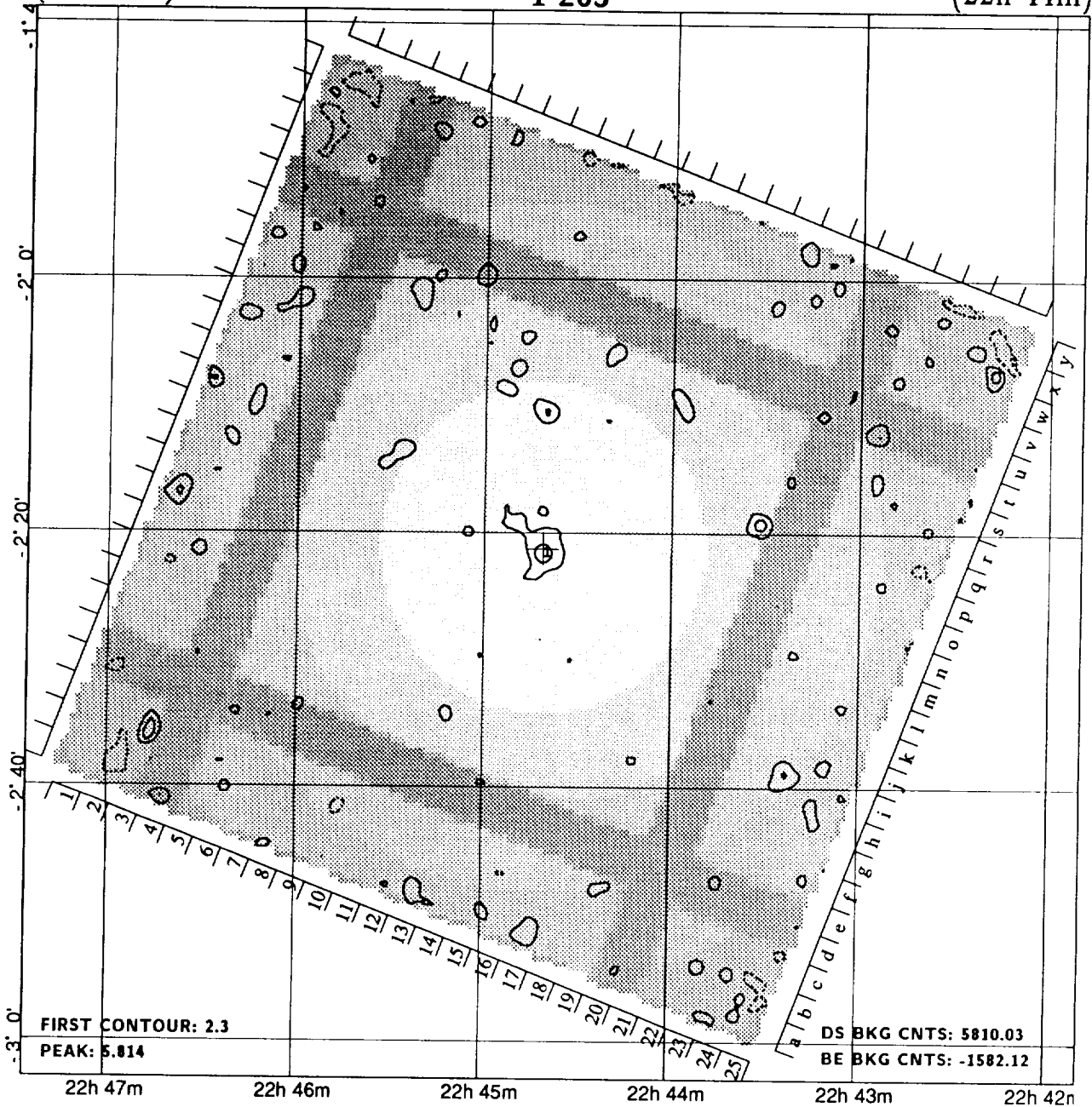
DATE: 1980/ 8 - 1980/ 8
 LIVETIME: 1754.4s
 ROLL ANGLE: 132.0°

NH: $1.1E+21$
 REF/ID: !
 FIELD FLAGS:

(22h 44m)

I 265

(22h 44m)



C 2244-02 CLUSTER EVOLUTION

FIELD CENTER: $22^{\text{h}}44^{\text{m}}37.8^{\text{s}}$ $-02^{\circ}20'59''$ (B1950)
 $22^{\text{h}}47^{\text{m}}12.4^{\text{s}}$ $-02^{\circ}05'09''$ (J2000)
 $l: 67.70$ $b: -51.12$

DATE: 1979/140 - 1979/140
 LIVETIME: 4708.0s
 ROLL ANGLE: -69.0°

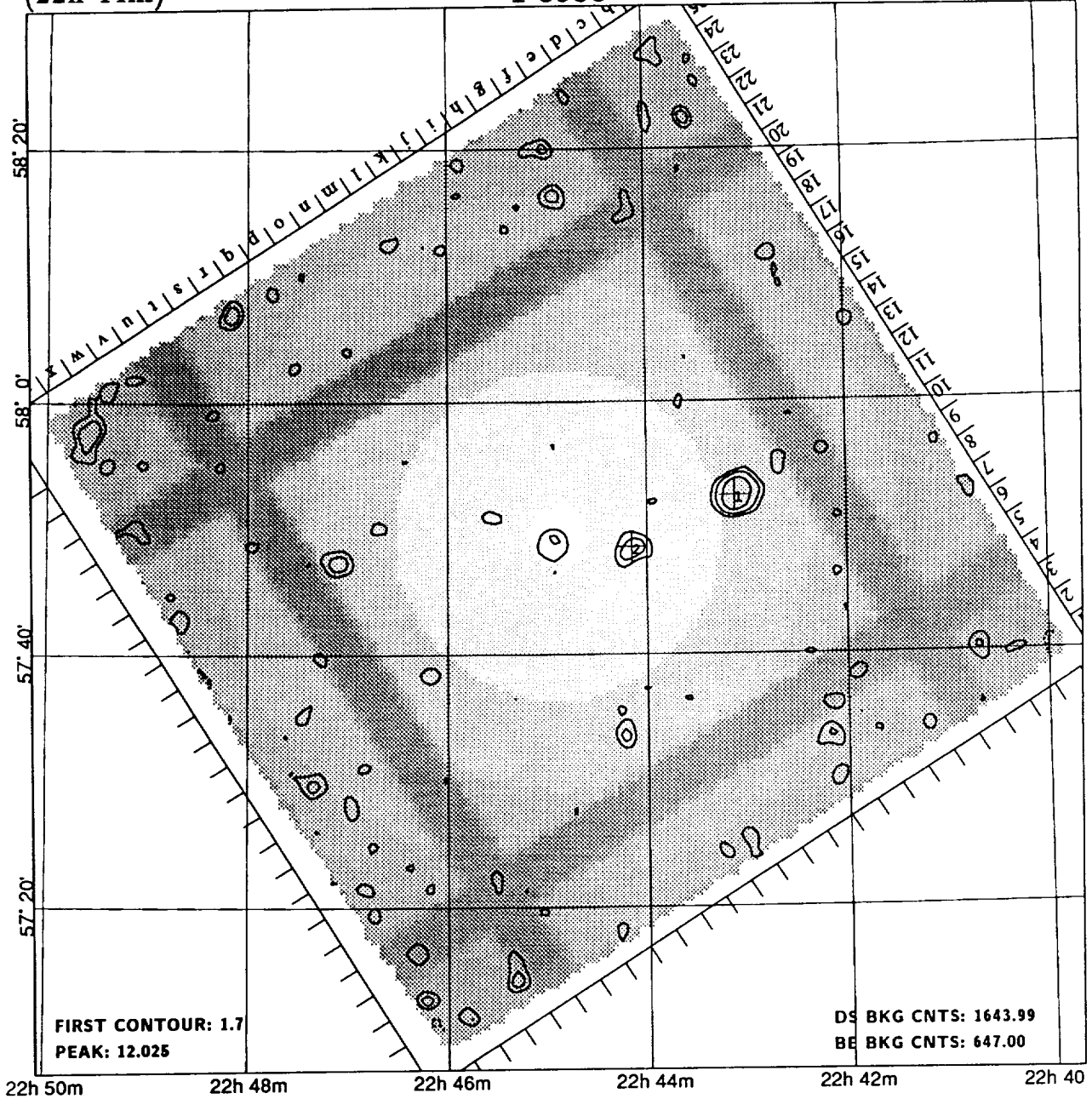
NH: $4.9\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4635	1	22 44 41.2	-02 21 18	39	0.0077	0.0017	27.1	8.9	4.5	1.4	0	1.0	H

(22h 44m)

I 8938

(22h 44m)



SAO 34810: POSSIBLE PROGENITOR OF WOLF-RAYET SYSTEMS

FIELD CENTER: 22^h44^m54.1^s 57°49'12" (B1950)
 22^h46^m54.0^s 58°05'02" (J2000)
 $l: 107.07$ $b: -0.90$

DATE: 1981/ 25 - 1981/ 25
 LIVETIME: 1332.2s
 ROLL ANGLE: 147.8°

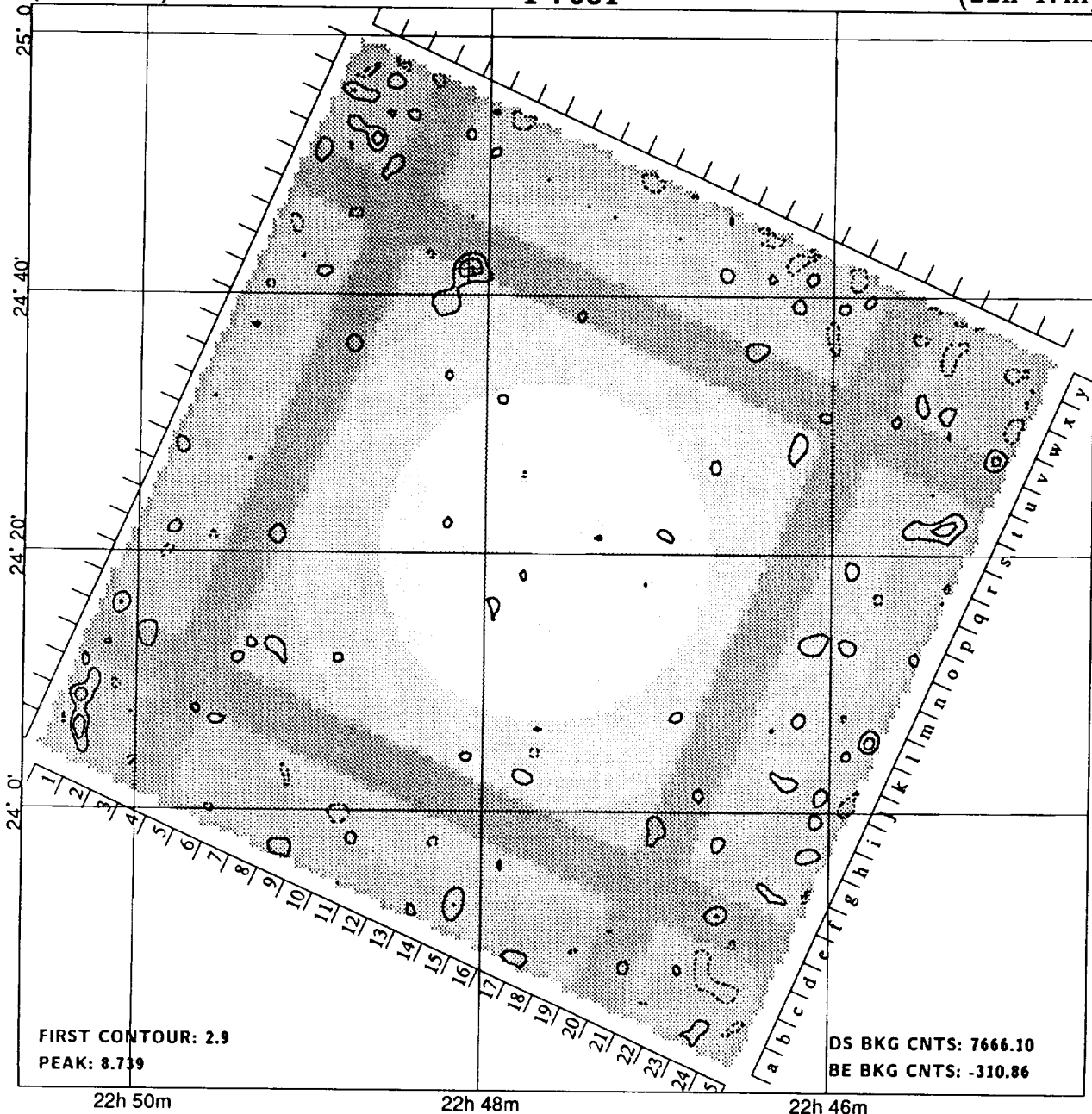
NH: 6.1E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	FLG
4633	1	22 43 07.1	57 52 36	41	0.0668	0.0095	53.3	4.7	7.0	1.1	0	14.5	H	
4634	2	22 44 09.2	57 48 33	43	0.0225	0.0055	21.2	5.8	4.1	0.8	0	6.0	H	

(22h 47m)

I 7681

(22h 47m)



MU PEG,CORONAE/WINDS DIVISION AMONG LATE-TYPE STARS

FIELD CENTER: 22^h47^m35.1^s 24°20'13" (B1950)
 22^h49^m59.5^s 24°36'07" (J2000)
 l : 90.68 b : -30.56

DATE: 1980/163 - 1980/163
 LIVETIME: 6212.0s
 ROLL ANGLE: -65.9°

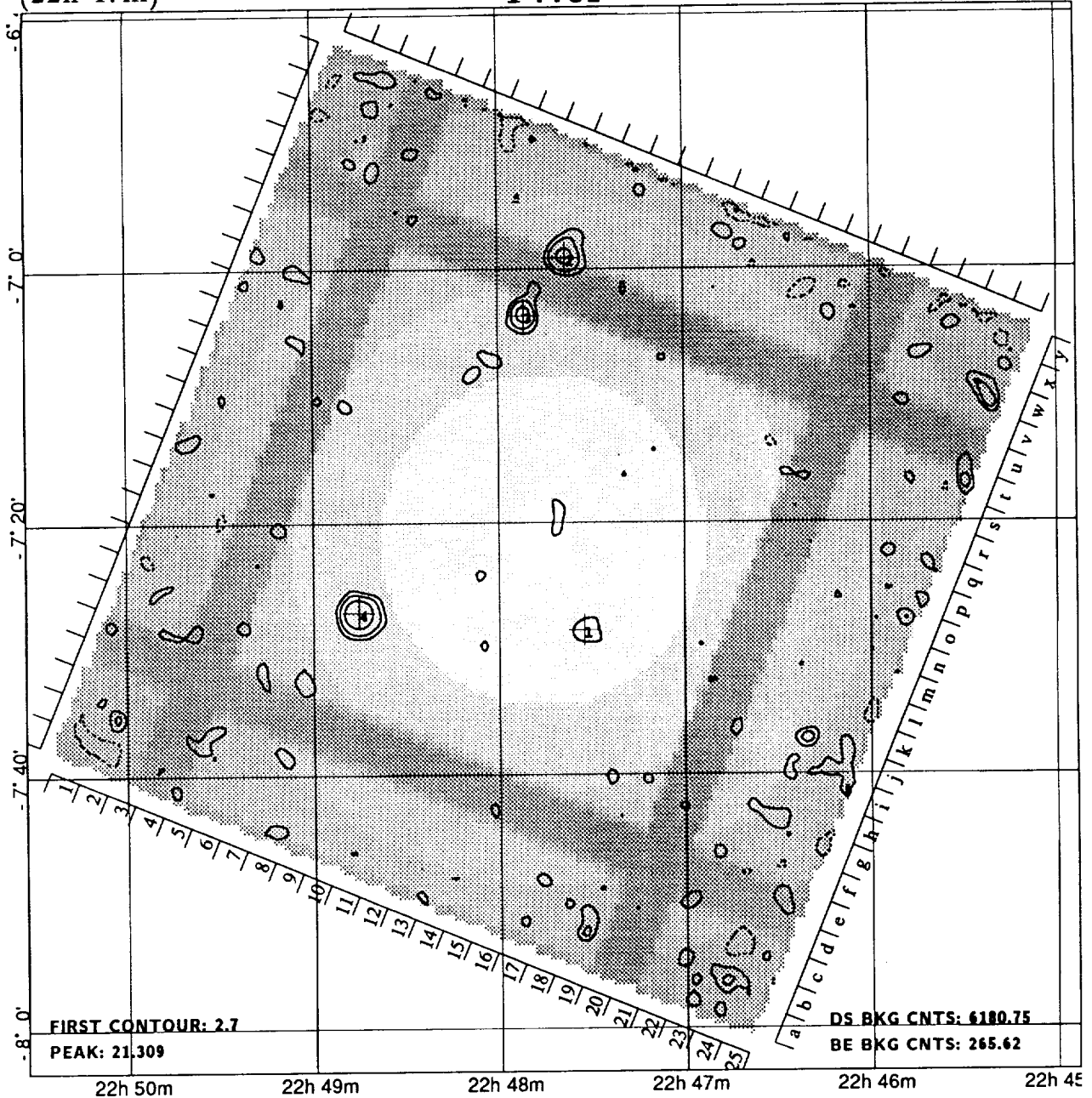
NH: 5.2E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	ID FLG
4639	1	22 48 07.1	24 42 03	55	*0.0077	0.0020	22.1	10.9	3.9	1.5	1007	23.4		

(22h 47m)

I 7751

(22h 47m)



M1 STAR GL 875

FIELD CENTER: 22^h47^m42.8^s -07°21'23" (B1950)
 22^h50^m19.2^s -07°05'29" (J2000)
 l : 62.24 b : -54.98

DATE: 1980/152 - 1980/153
 LIVETIME: 5008.4s
 ROLL ANGLE: -67.9°

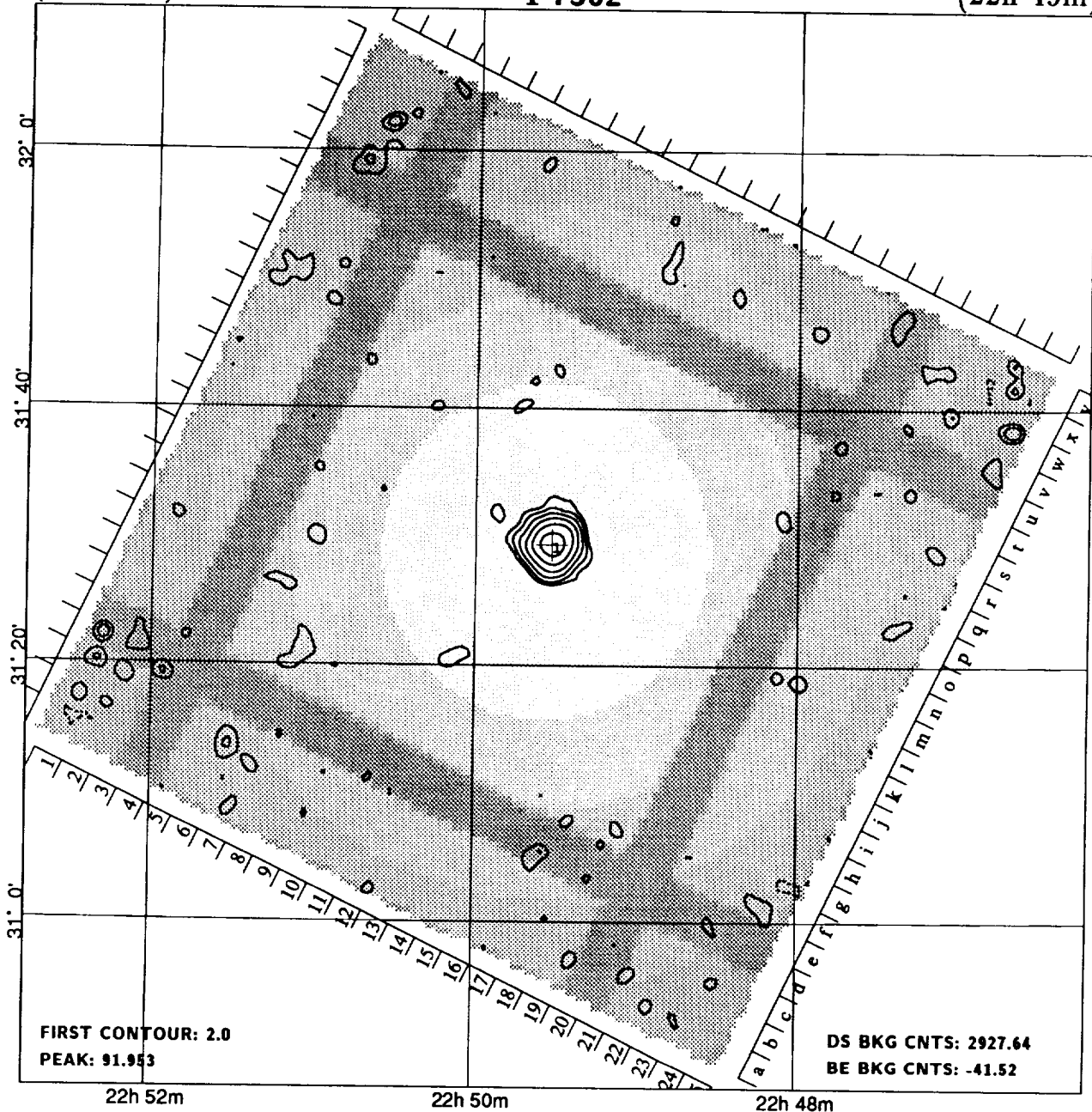
NH: 3.6E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4636	1	22 47 32.5	-07 28 28	45	0.0066	0.0018	22.7	16.3	3.6	0.6	0	7.5		
4637	2	22 47 38.2	-06 59 09	51	*0.0161	0.0028	38.2	6.8	5.7	1.1	805	22.6	H	
4638	3	22 47 51.6	-07 03 38	50	*0.0137	0.0026	37.6	12.4	5.3	0.9	501	18.1	H	
4640	4	22 48 45.4	-07 27 03	50	0.0255	0.0032	73.9	12.1	8.0	1.1	0	16.6	H	

(22h 49m)

I 7362

(22h 49m)



GT PEG,DM & DK STARS:CORRELATION OF ROTATION & X-RAYS

FIELD CENTER: $22^h 49^m 29.8^s$ $31^\circ 28' 59''$ (B1950)
 $22^h 51^m 51.3^s$ $31^\circ 44' 56''$ (J2000)
 $l: 95.15$ $b: -24.59$

DATE: 1980/167 - 1980/167
 LIVETIME: 2372.3s
 ROLL ANGLE: -64.3°

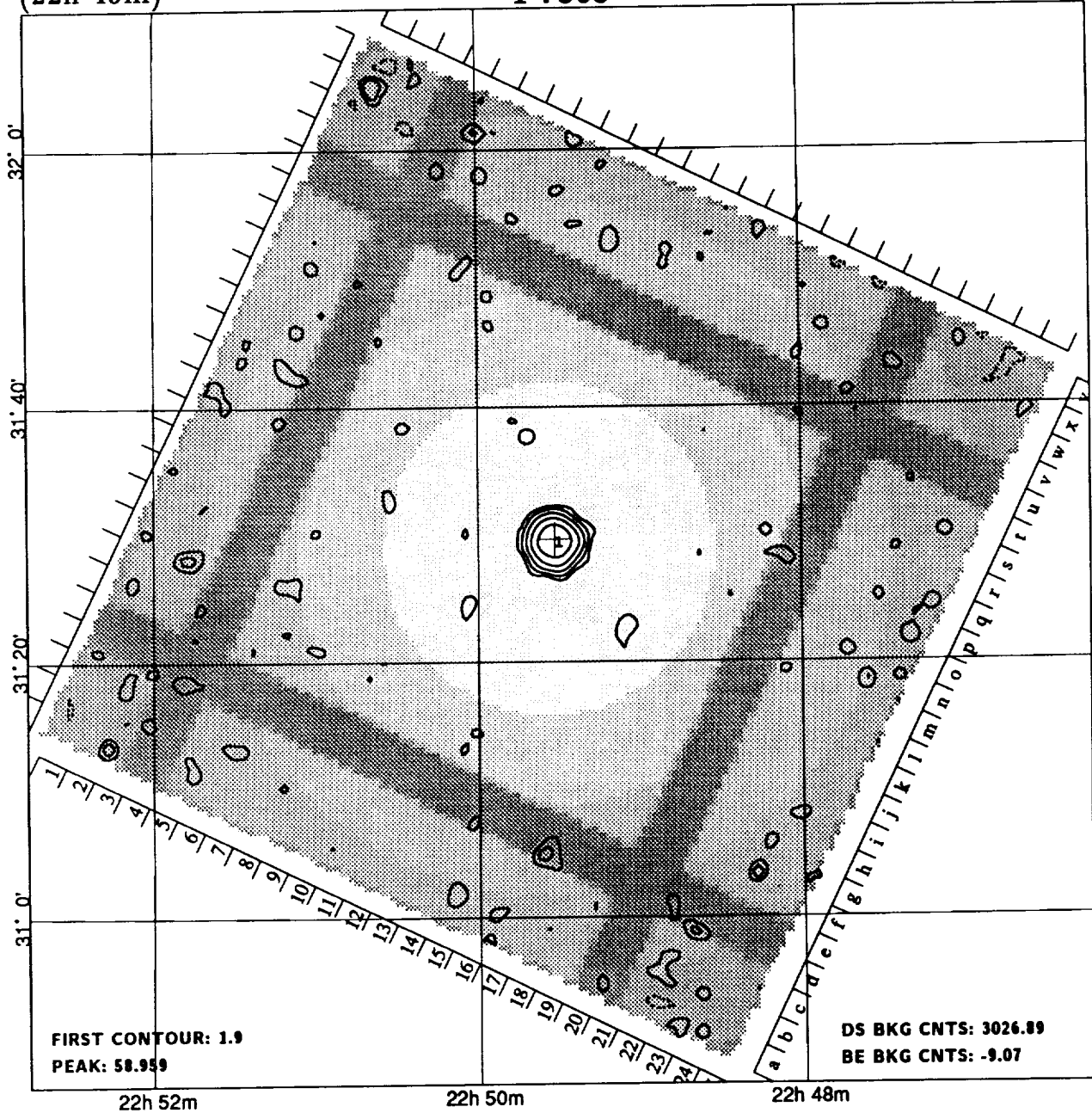
NH: $6.8E+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	FLG
4641	1	22 49 31.4	31 29 24	31	0.240	0.012	424.4	6.6	20.4	1.4	0	0.6	AH	

(22h 49m)

I 7363

(22h 49m)



GT PEG,DM & DK STARS:CORRELATION OF ROTATION & X-RAYS

FIELD CENTER: $22^h 49^m 29.8^s$ $31^\circ 28' 59''$ (B1950)
 $22^h 51^m 51.3^s$ $31^\circ 44' 56''$ (J2000)
 $l: 95.15$ $b: -24.59$

DATE: 1980/167 - 1980/167
 LIVETIME: 2452.8s
 ROLL ANGLE: -64.2°

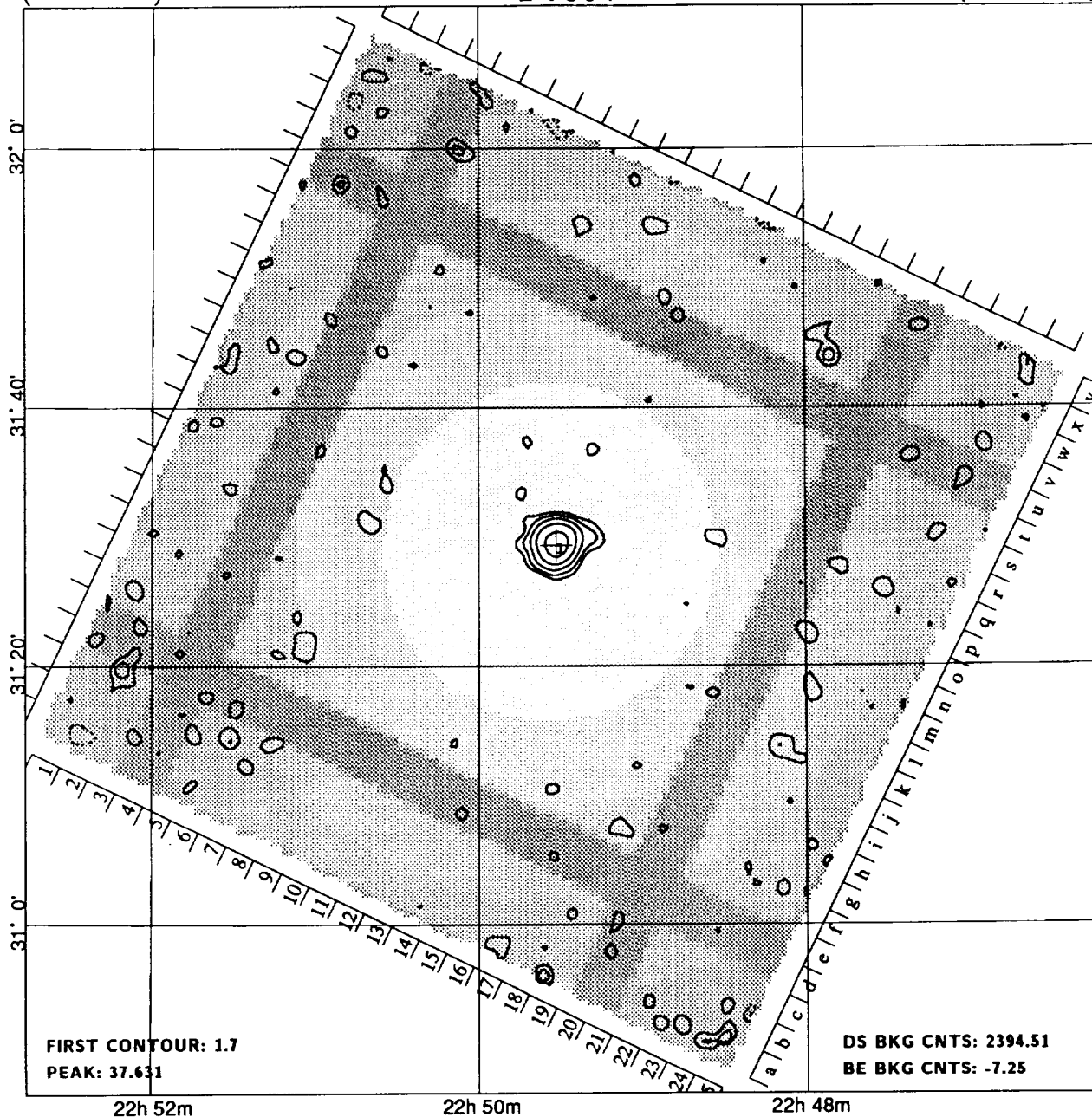
NH: $6.8E+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4641	1	22 49 31.6	31 29 39	31	0.1515	0.0092	276.4	6.6	16.4	1.4	0	0.8	AH

(22h 49m)

I 7364

(22h 49m)



GT PEG,DM & DK STARS:CORRELATION OF ROTATION & X-RAYS

FIELD CENTER: $22^{\text{h}}49^{\text{m}}29.8^{\text{s}}$ $31^{\circ}28'59''$ (B1950)
 $22^{\text{h}}51^{\text{m}}51.3^{\text{s}}$ $31^{\circ}44'56''$ (J2000)
 $l: 95.15$ $b: -24.59$

DATE: 1980/167 - 1980/167
 LIVETIME: 1940.3s
 ROLL ANGLE: -64.2°

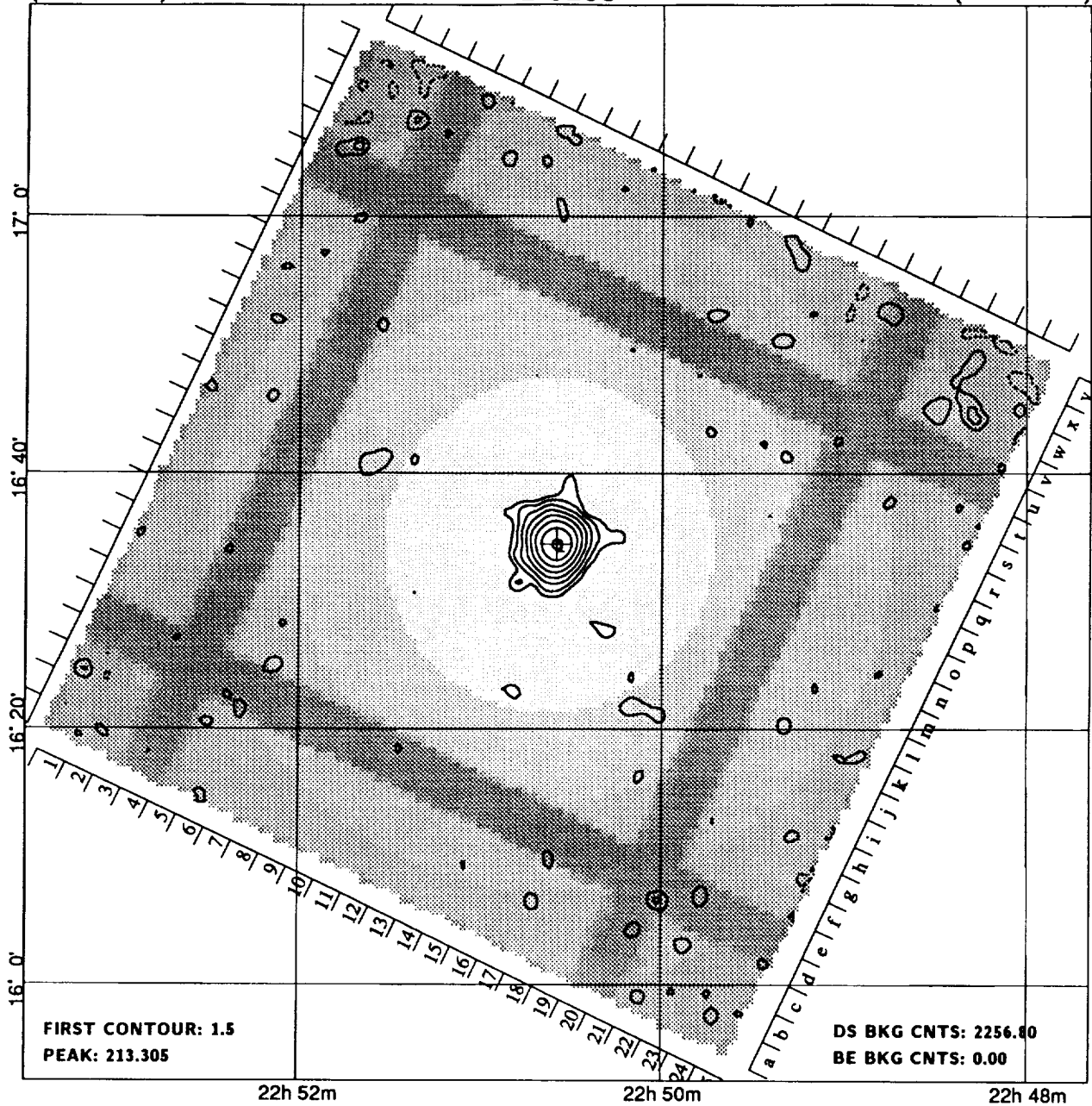
NH: $6.8\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4641	1	22 49 31.5	31 29 20	31	0.1324	0.0097	191.2	5.8	13.6	1.3	0	0.6	AH

(22h 50m)

I 3233

(22h 50m)



22h 52m

22h 50m

22h 48m

RS CVN SYSTEMS: HR 8703

FIELD CENTER: $22^{\text{h}}50^{\text{m}}34.2^{\text{s}}$ $16^{\circ}34'31''$ (B1950)
 $22^{\text{h}}53^{\text{m}}02.1^{\text{s}}$ $16^{\circ}50'30''$ (J2000)
 $l: 86.36$ $b: -37.48$

DATE: 1979/166 - 1979/166
 LIVETIME: 1828.7s
 ROLL ANGLE: -64.6°

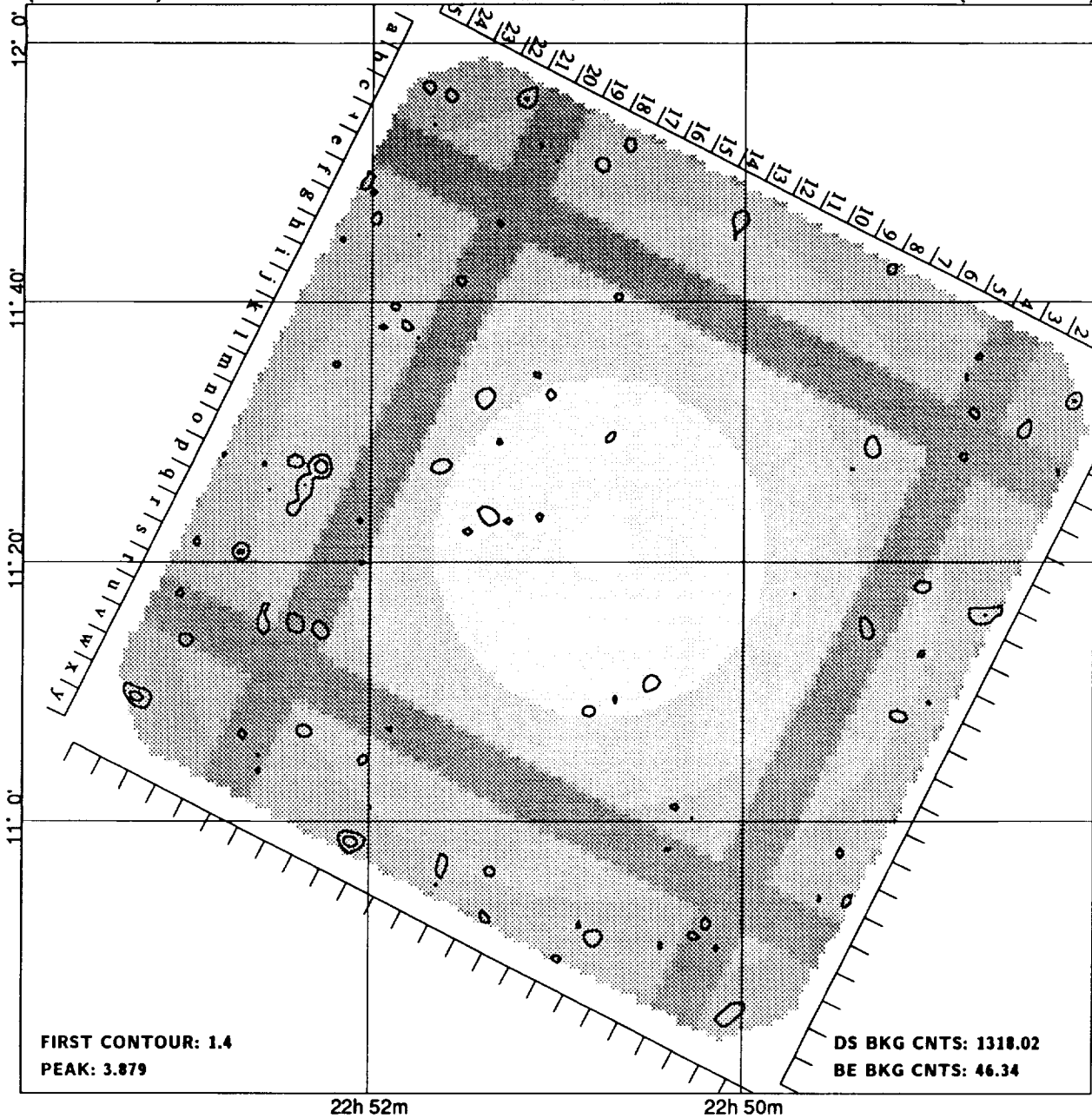
NH: $6.4E+20$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4642	1L	22 50 35.0	16 34 29	31	0.585	0.025	797.2	122.8	22.9	1.3	0	0.3		CV

(22h 50m)

I 2072

(22h 50m)



X-RAY STUDY OF QUASARS: PKS 2251+11

FIELD CENTER: $22^{\text{h}}50^{\text{m}}59.8^{\text{s}}$ $11^{\circ}20'59''$ (B1950)
 $22^{\text{h}}53^{\text{m}}29.6^{\text{s}}$ $11^{\circ}36'58''$ (J2000)
 $l: 82.61$ $b: -41.84$

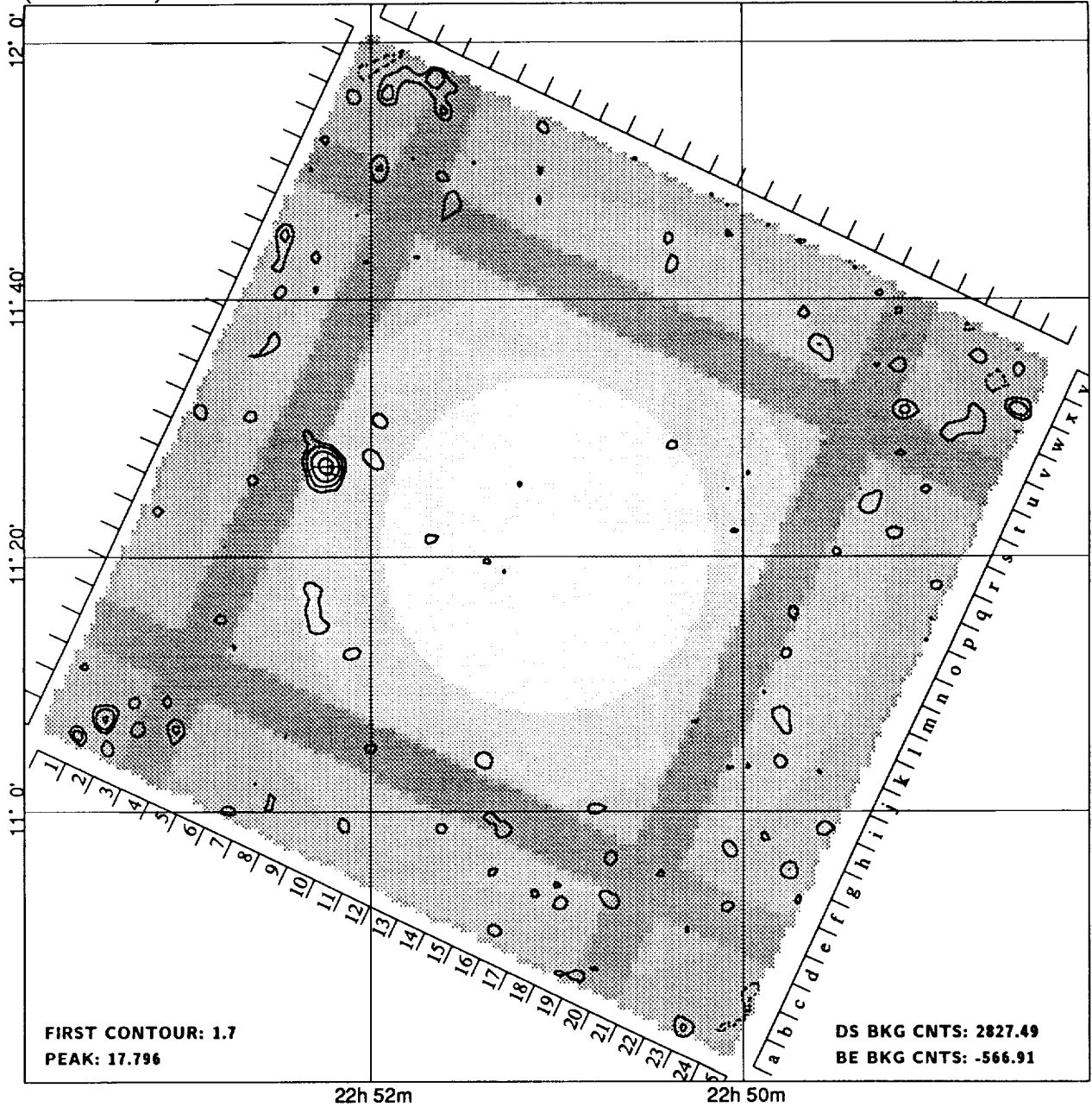
DATE: 1980/356 - 1980/356
 LIVETIME: 1068.0s
 ROLL ANGLE: 116.7°

NH: $5.1\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

(22h 50m)

I 2073

(22h 50m)



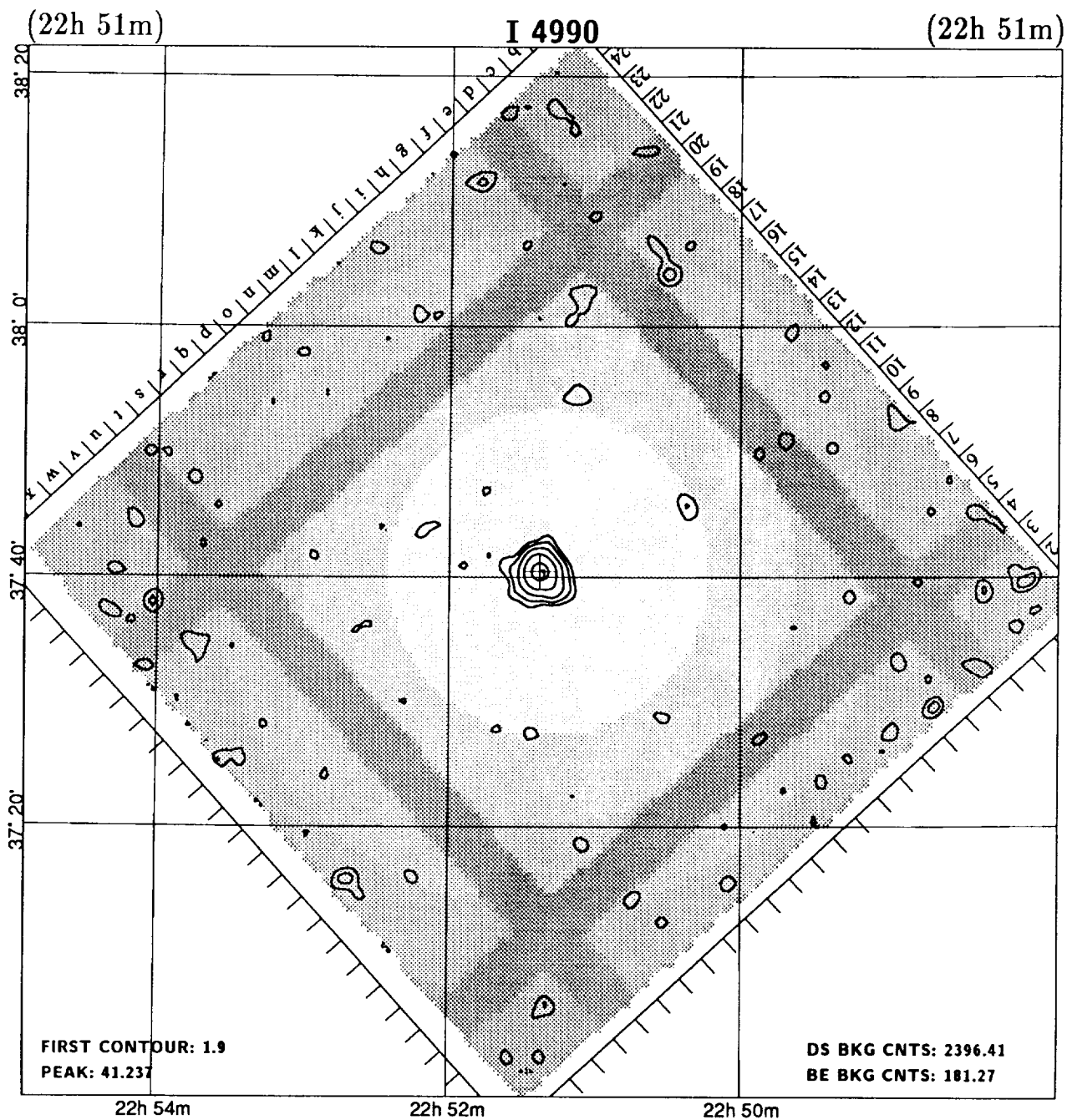
X-RAY STUDY OF QUASARS: PKS 2251+11

FIELD CENTER: $22^{\text{h}}50^{\text{m}}59.8^{\text{s}}$ $11^{\circ}20'59''$ (B1950)
 $22^{\text{h}}53^{\text{m}}29.6^{\text{s}}$ $11^{\circ}36'58''$ (J2000)
 $l: 82.61$ $b: -41.84$

DATE: 1980/167 - 1980/167
 LIVETIME: 2291.2s
 ROLL ANGLE: -64.8°

NH: $5.1\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4647	1	22 52 14.0	11 26 55	50	*0.0370	0.0057	45.4	3.6	6.5	0.9	501	19.2	



STAR SW LAC

FIELD CENTER: 22^h51^m22.3^s 37°40'19" (B1950)
 22^h53^m41.0^s 37°56'17" (J2000)
 $l: 98.68$ $b: -19.33$

DATE: 1980/ 9 - 1980/ 9
 LIVETIME: 1941.9s
 ROLL ANGLE: 137.6°

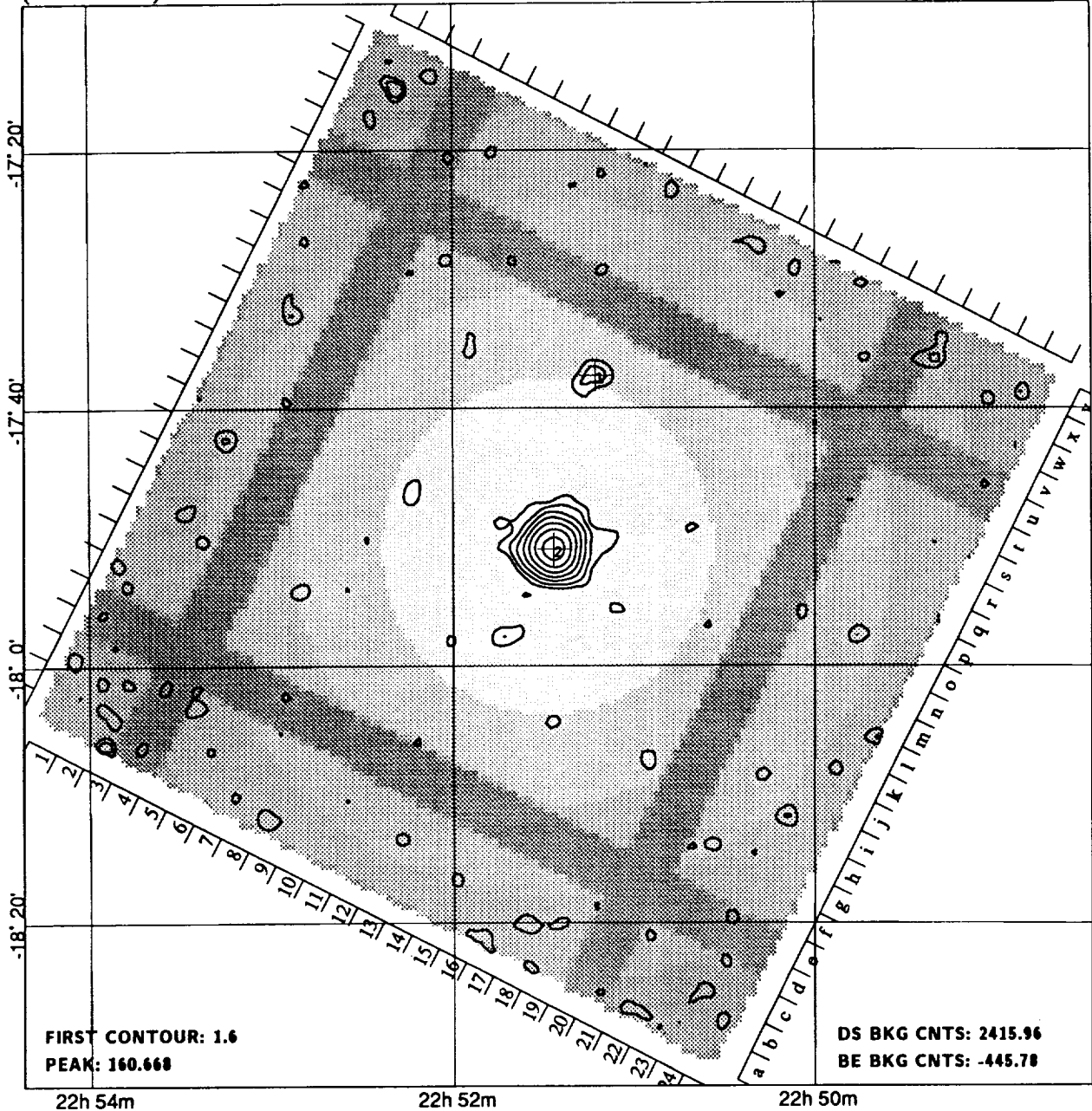
NH: 1.1E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4644	1	22 51 22.6	37 40 28	31	0.1178	0.0092	170.4	6.6	12.8	1.3	0	0.2	H	S

(22h 51m)

I 2074

(22h 51m)



X-RAY STUDY OF QUASARS:

FIELD CENTER: 22^h51^m25.1^s -17°50'39" (B1950)
 22^h54^m05.1^s -17°34'40" (J2000)
 $l: 46.20$ $b: -61.32$

DATE: 1979/143 - 1979/143
 LIVETIME: 1957.7s
 ROLL ANGLE: -63.1°

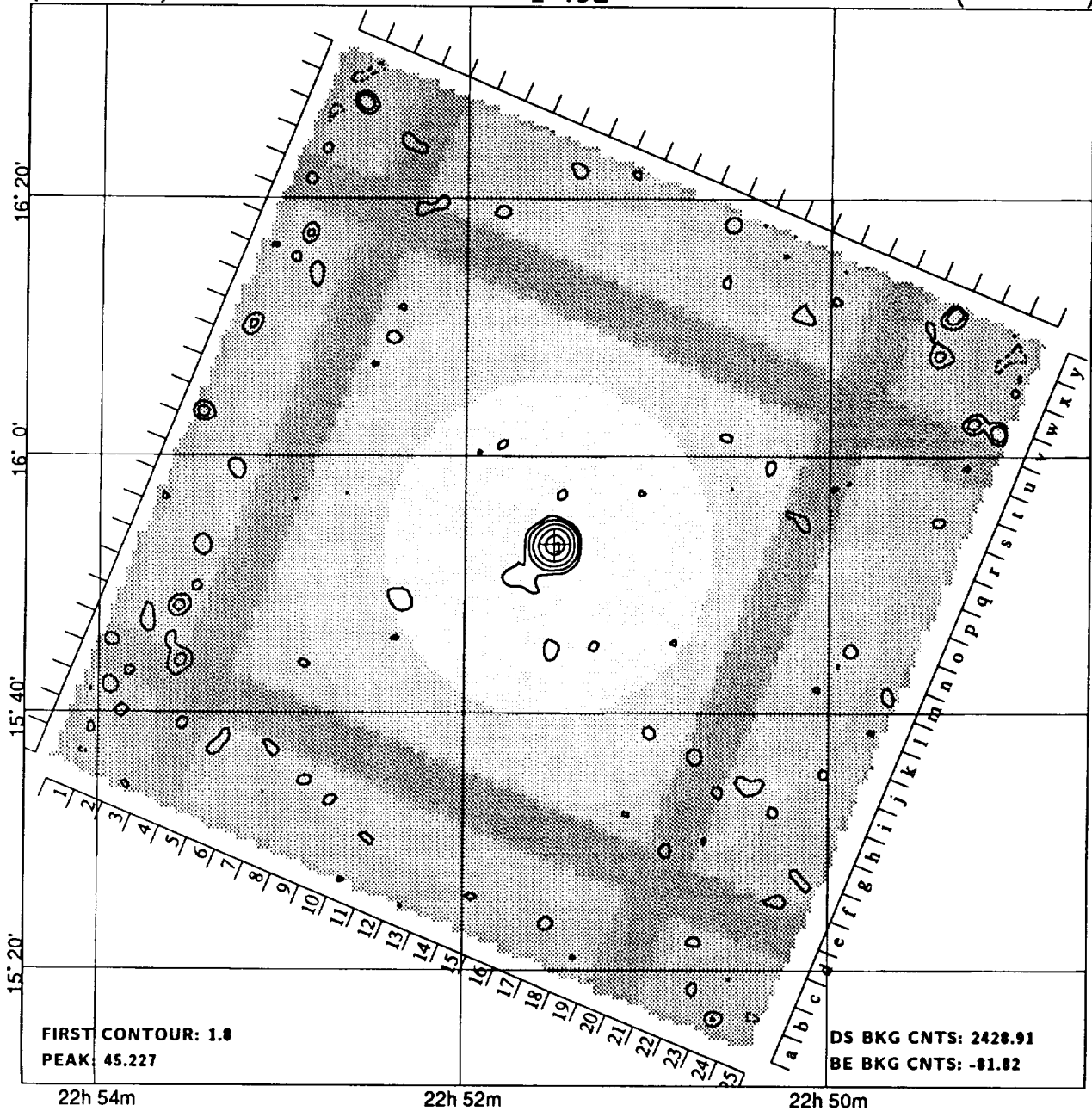
NH: 1.4E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4643	1	22 51 12.7	-17 37 28	47	0.0132	0.0037	15.8	4.2	3.5	0.8	0	13.5	H	
4645	2	22 51 26.7	-17 50 55	31	0.463	0.018	676.5	4.5	25.9	1.3	0	0.4	H Q	

(22h 51m)

I 492

(22h 51m)



3CR 454.3 (QSO 2251+158) QUASAR SURVEY

FIELD CENTER: $22^{\text{h}}51^{\text{m}}29.8^{\text{s}}$ $15^{\circ}52'54''$ (B1950)
 $22^{\text{h}}53^{\text{m}}58.0^{\text{s}}$ $16^{\circ}08'54''$ (J2000)
 $l: 86.11$ $b: -38.18$

DATE: 1980/158 - 1980/158
 LIVETIME: 1968.2s
 ROLL ANGLE: -67.6°

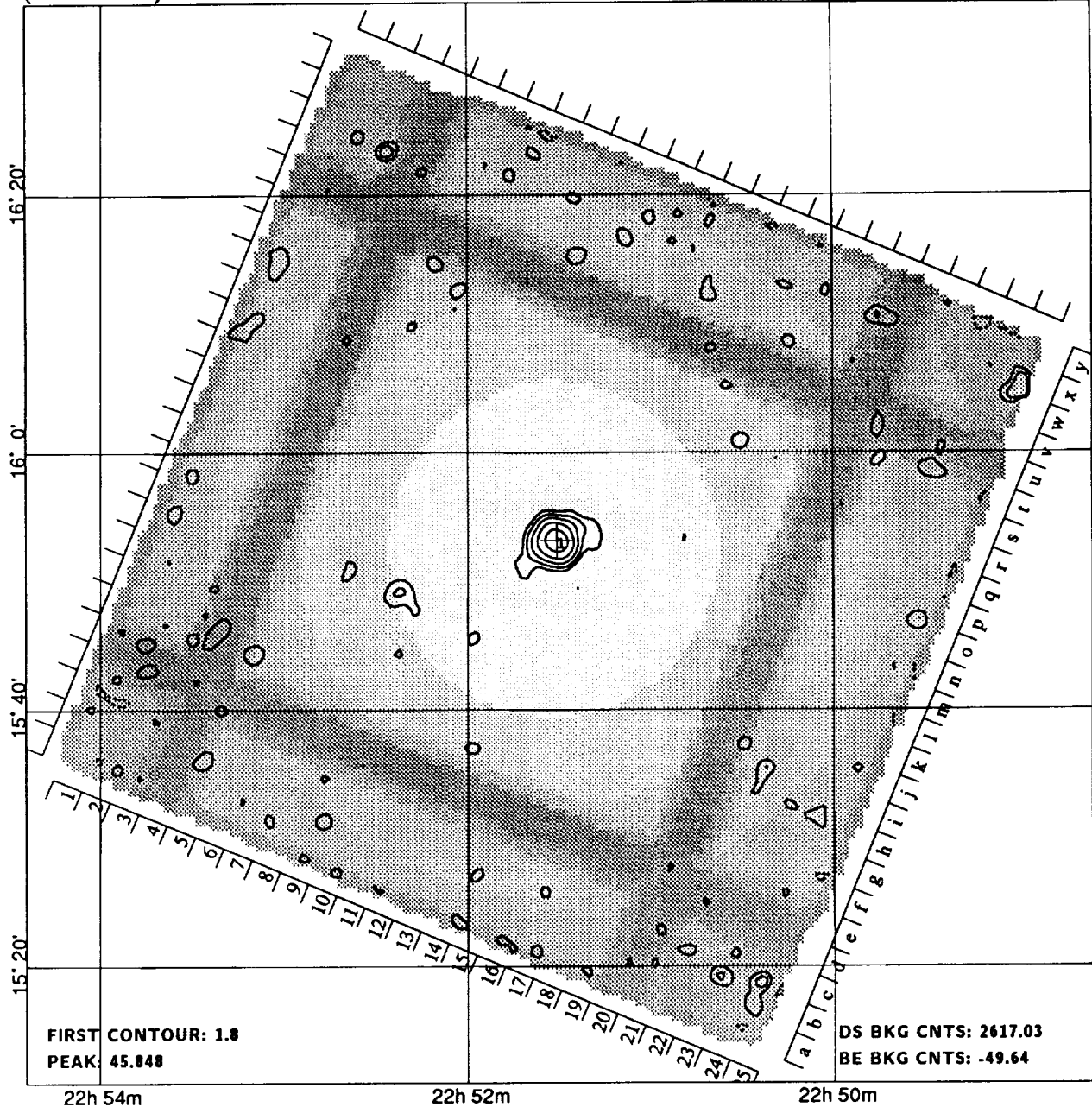
NH: $6.4\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4646	1	22 51 30.6	15 53 09	31	0.1135	0.0089	166.5	5.5	12.7	1.1	0	0.4	AH	*

(22h 51m)

I 3908

(22h 51m)



3CR 454.3, LOW-FREQUENCY VARIABLE RADIO SOURCE

FIELD CENTER: $22^{\text{h}}51^{\text{m}}29.8^{\text{s}}$ $15^{\circ}52'54''$ (B1950)
 $22^{\text{h}}53^{\text{m}}58.0^{\text{s}}$ $16^{\circ}08'54''$ (J2000)
 $l: 86.11$ $b: -38.18$

DATE: 1980/158 - 1980/158
 LIVETIME: 2120.6s
 ROLL ANGLE: -67.6°

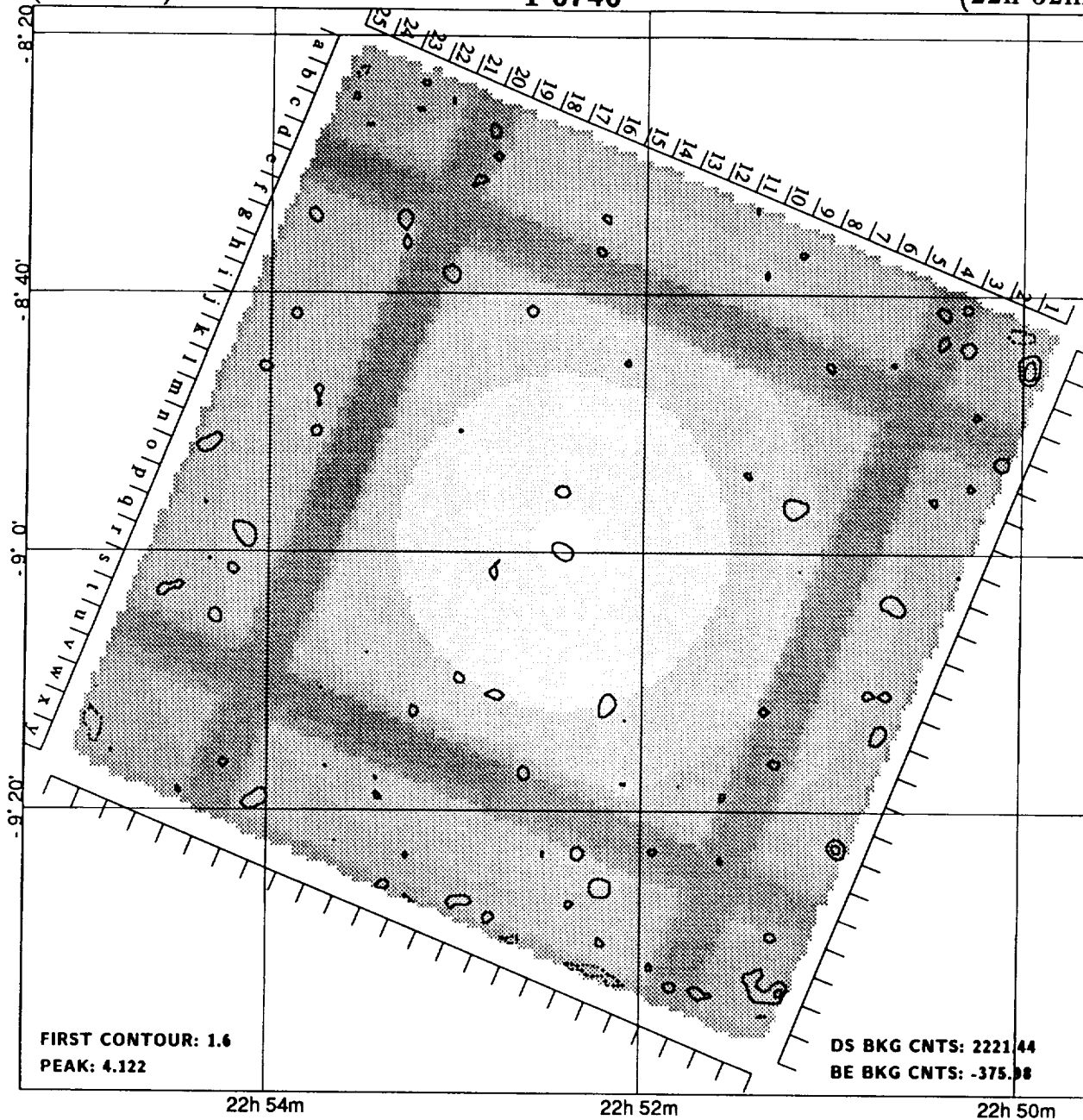
NH: $6.4\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4646	1	22 51 30.7	15 53 08	31	0.1191	0.0088	188.4	5.6	13.5	1.2	0	0.6	AH	*

(22h 52m)

I 6746

(22h 52m)



SEARCH FOR HIGH LX QSO'S: 24

FIELD CENTER: $22^h 52^m 27.2^s -09^\circ 00' 00''$ (B1950)
 $22^h 55^m 03.9^s -08^\circ 44' 00''$ (J2000)
 $l: 61.23 \quad b: -56.92$

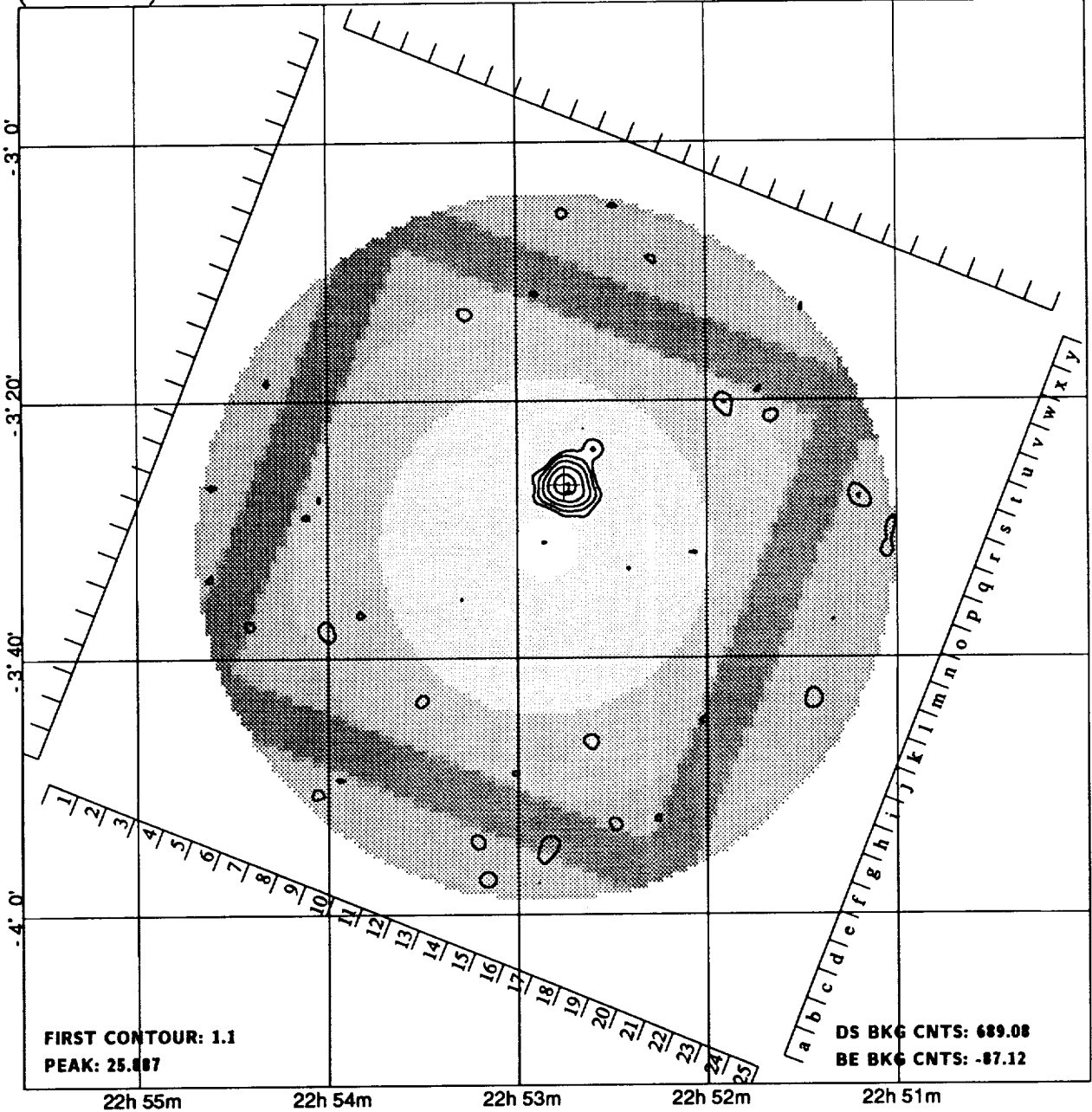
DATE: 1979/339 - 1979/339
 LIVETIME: 1800.1s
 ROLL ANGLE: 112.3°

NH: $3.7E+20$
 REF/ID:
 FIELD FLAGS:

(22h 52m)

I 3655

(22h 52m)



H 2252-035, UNIDENTIFIED HIGH LATITUDE SOURCE

FIELD CENTER: $22^h 52^m 47.8^s -03^\circ 31' 11''$ (B1950)
 $22^h 55^m 22.7^s -03^\circ 15' 10''$ (J2000)
 $l: 68.60 \quad b: -53.41$

DATE: 1979/145 - 1979/145
 LIVETIME: 558.4s
 ROLL ANGLE: -68.2°

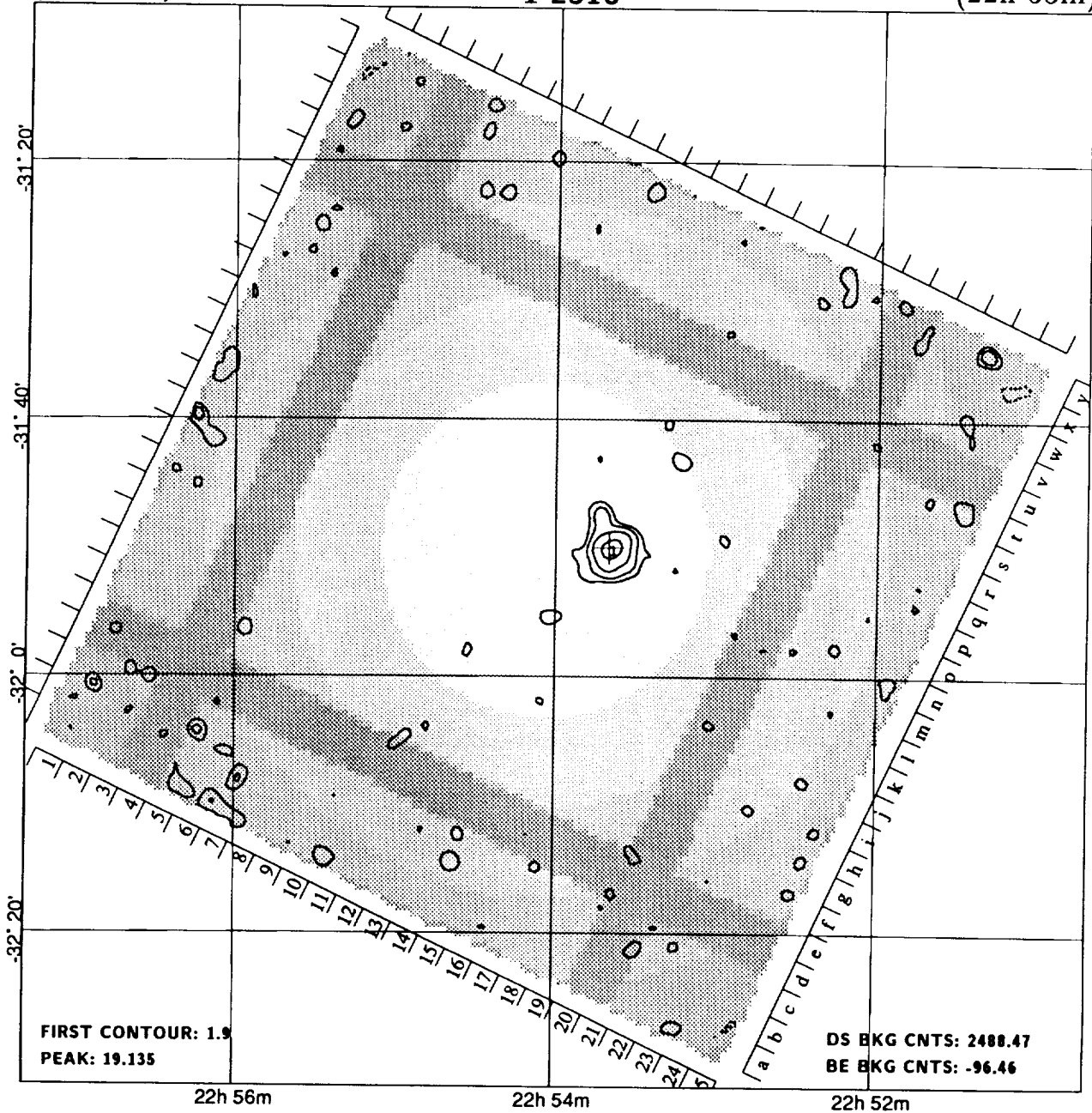
NH: $4.7E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4648	1	22 52 45.1	-03 26 31	31	0.258	0.026	102.6	1.4	10.1	1.2	0	5.0	H

(22h 53m)

I 2318

(22h 53m)



HD216803: STELLAR SURVEY: RS CVN AND BY DRA STARS

FIELD CENTER: $22^h 53^m 59.8^s$ $-31^\circ 49' 59''$ (B1950)
 $22^h 56^m 45.0^s$ $-31^\circ 33' 56''$ (J2000)
 $l: 15.93$ $b: -64.69$

DATE: 1979/141 - 1979/141
 LIVETIME: 2016.5s
 ROLL ANGLE: -64.8°

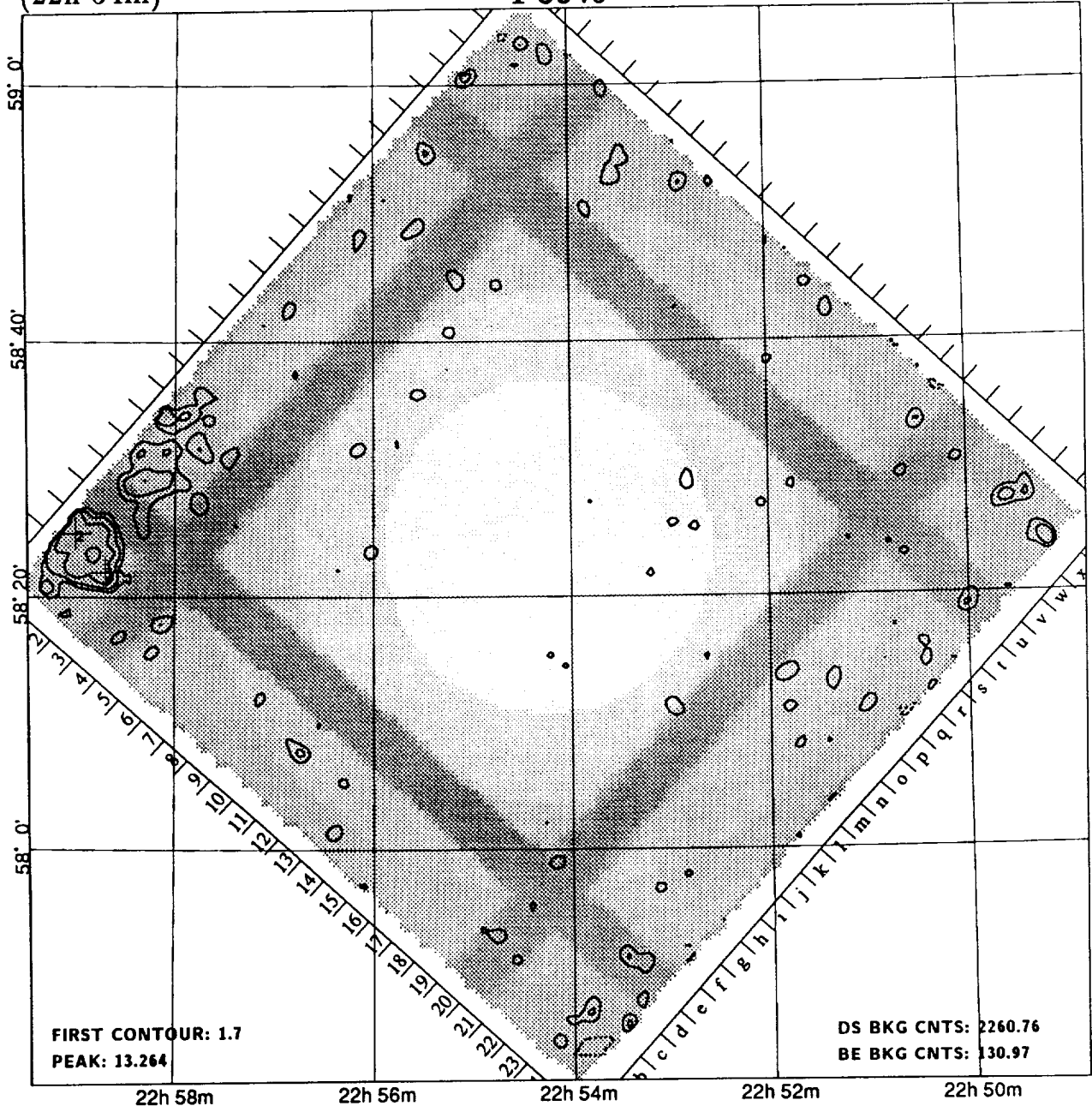
NH: $1.5E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4651	1	22 53 40.0	-31 49 59	32	0.0549	0.0064	79.1	4.9	8.6	1.5	0	4.4	H S

(22h 54m)

I 3840

(22h 54m)



T TAURI STARS: DI CEP

FIELD CENTER: $22^h 54^m 08.4^s$ $58^\circ 23' 59''$ (B1950)
 $22^h 56^m 11.7^s$ $58^\circ 40' 01''$ (J2000)
 $l: 108.42$ $b: -0.92$

DATE: 1979/192 - 1979/192
 LIVETIME: 1832.0s
 ROLL ANGLE: -48.0°

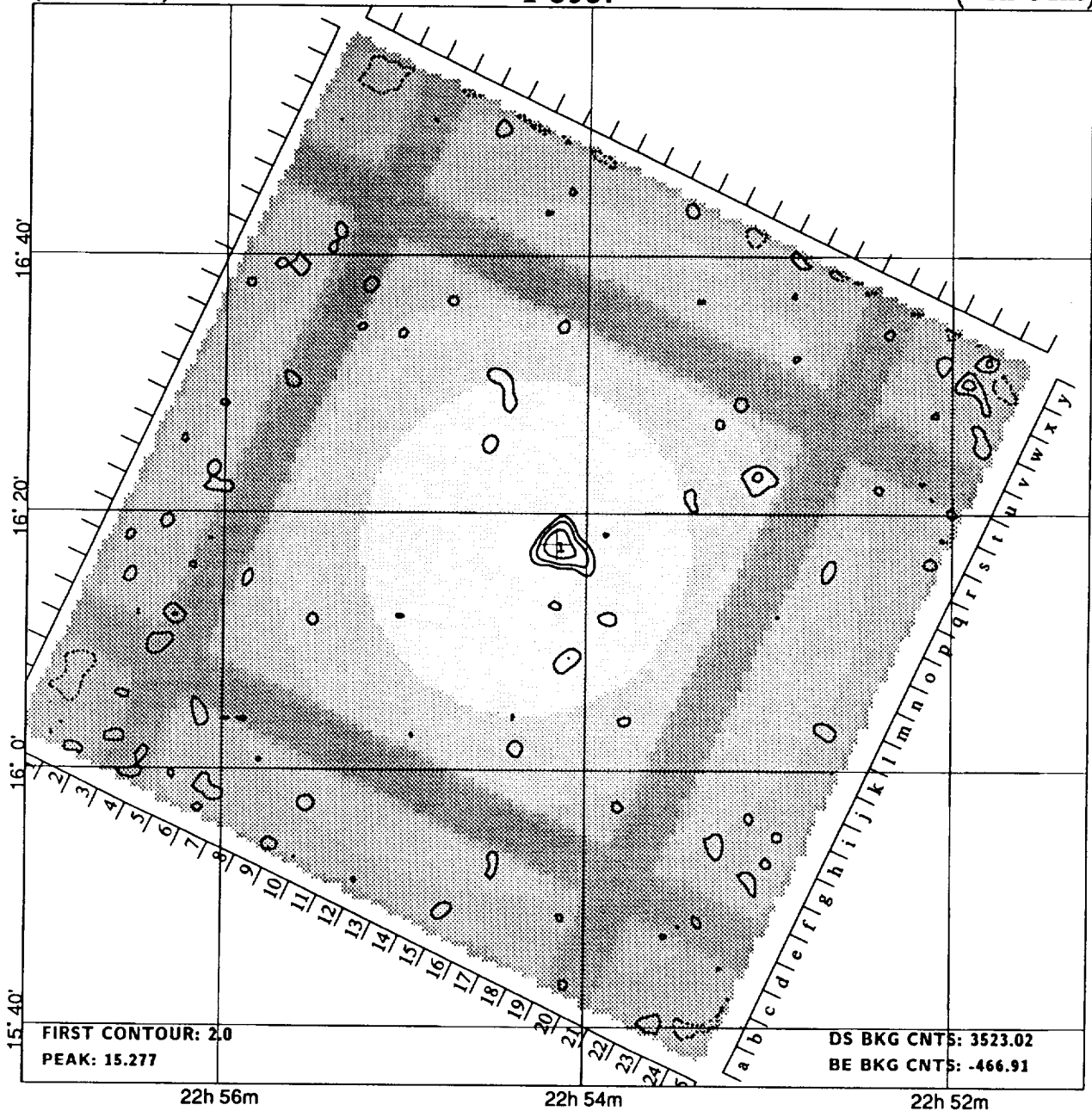
NH: $6.4E+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4671	1	22 58 41.8	58 21 57	55	0.0320	0.0090	15.5	3.5	3.6	4.0	400	35.9	
4672	2	22 59 00.1	58 25 01	54	*0.049	0.012	19.0	3.0	4.0	3.7	902	38.3	H

(22h 54m)

I 5987

(22h 54m)



Chromospherically Inactive Stars: 880 (M2)

FIELD CENTER: $22^{\text{h}}54^{\text{m}}09.8^{\text{s}}$ $16^{\circ}17'23''$ (B1950)
 $22^{\text{h}}56^{\text{m}}38.1^{\text{s}}$ $16^{\circ}33'26''$ (J2000)
 $l: 87.08$ $b: -38.19$

DATE: 1980/167 - 1980/167
 LIVETIME: 2854.8s
 ROLL ANGLE: -64.6°

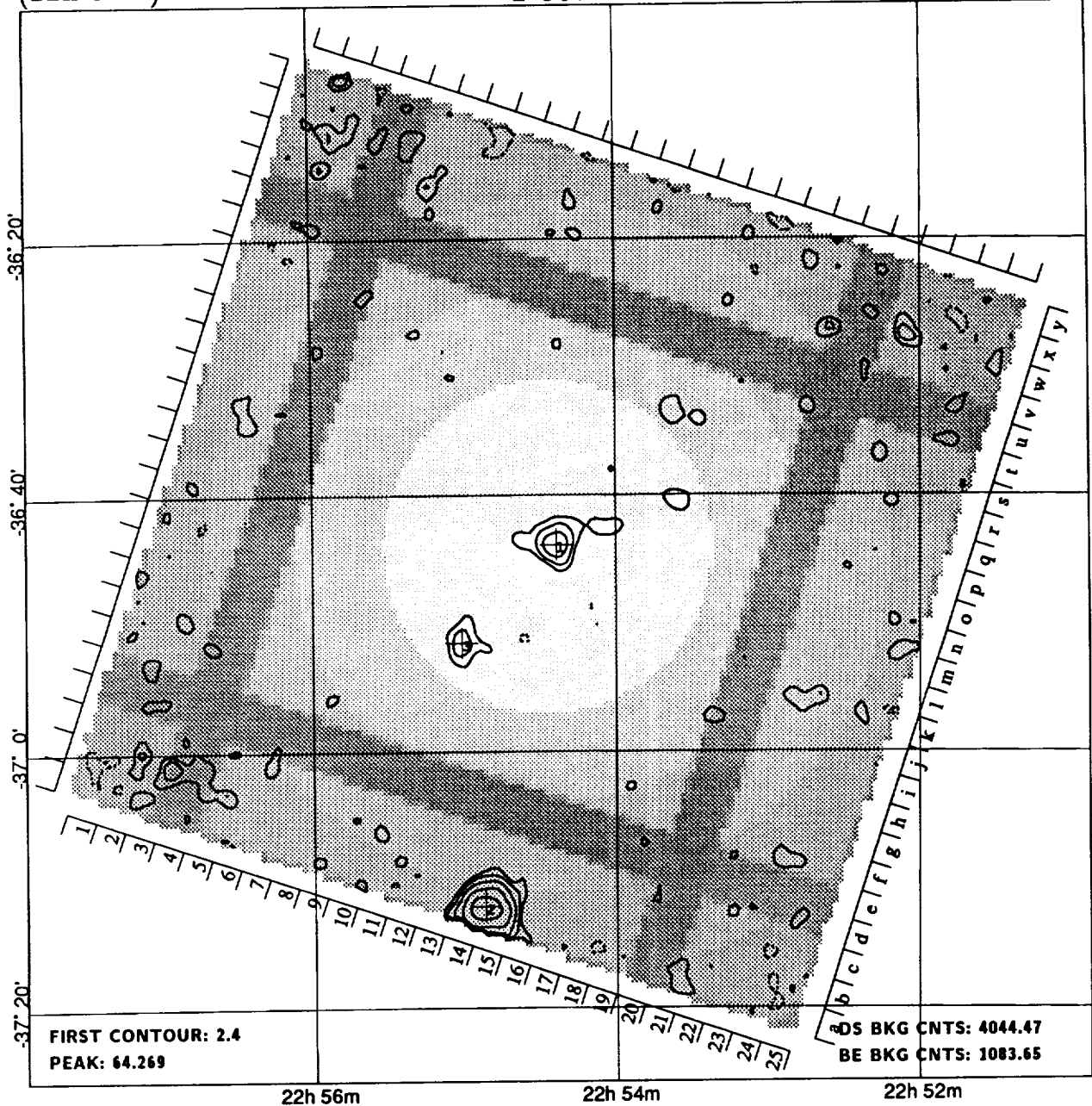
NH: $6.3E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4655	1	22 54 10.0	16 17 37	35	0.0281	0.0039	59.0	7.0	7.3	1.2	0	0.4	H

(22h 54m)

I 6674

(22h 54m)



IC 1459, SURVEY OF GROUPS OF GALAXIES

FIELD CENTER: 22^h54^m22.8^s -36°43'47" (B1950)
 22^h57^m10.3^s -36°27'44" (J2000)
 l : 4.66 b : -64.11

DATE: 1980/157 - 1980/157
 LIVETIME: 3277.3s
 ROLL ANGLE: -71.6°

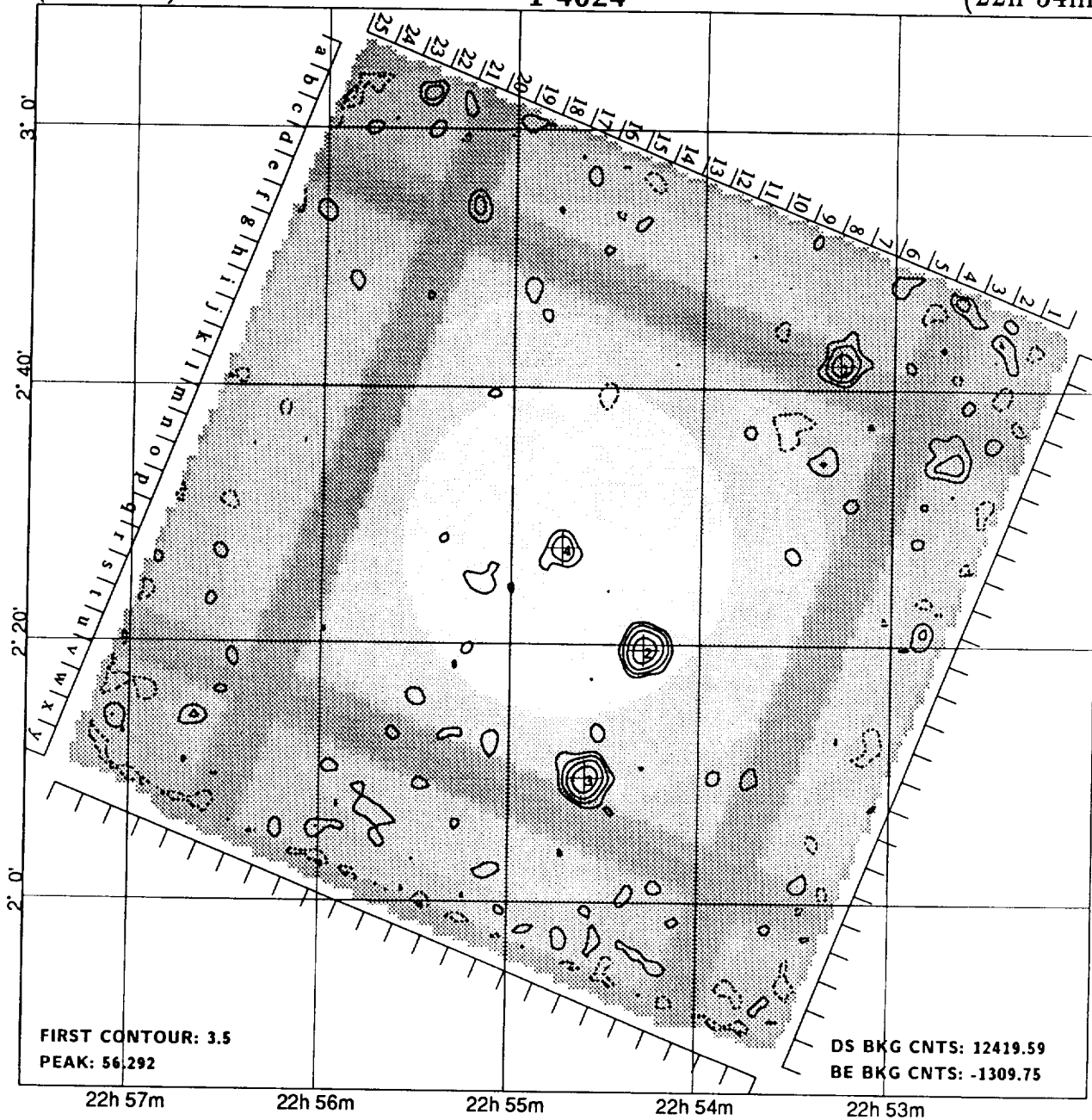
NH: 1.2E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4658	1	22 54 23.6	-36 43 52	34	0.0269	0.0036	65.7	13.3	7.4	1.2	0	0.2	H	G
4664	2	22 54 52.4	-37 12 13	48	0.117	0.010	142.0	8.0	11.6	1.5	400	29.1	H	
4666	3	22 55 01.1	-36 51 25	42	0.0115	0.0028	25.0	12.0	4.1	1.0	0	10.9	H	

(22h 54m)

I 4024

(22h 54m)



QUASAR P 2254+024

FIELD CENTER: 22^h54^m44.4^s 02°27'11" (B1950)
 22^h57^m17.4^s 02°43'15" (J2000)
 l : 75.76 b : -49.41

DATE: 1979/336 - 1979/338
 LIVETIME: 10063.9s
 ROLL ANGLE: 111.9°

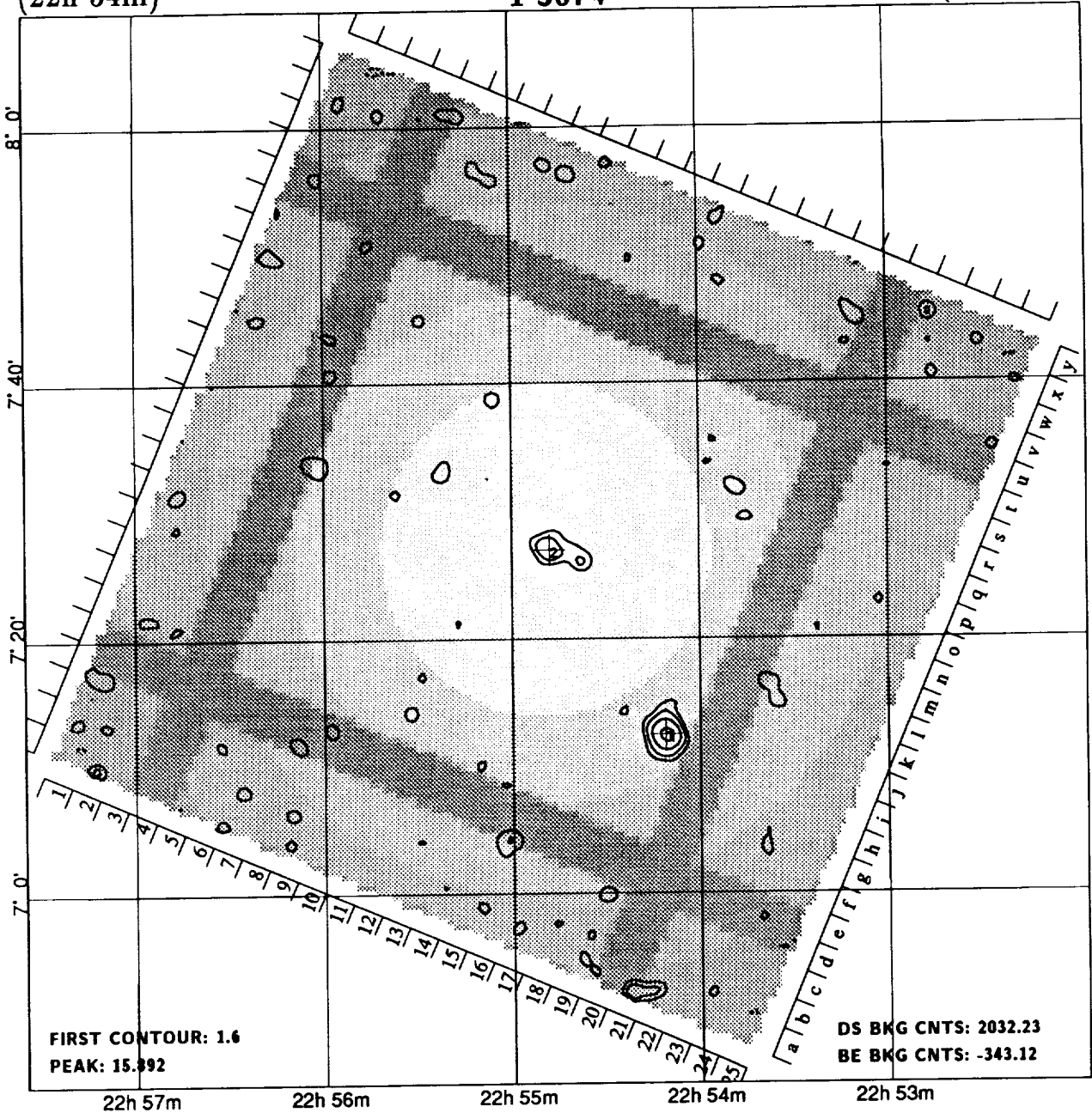
NH: 5.3E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE ±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4649	1	22 53 16.7	02 41 48	50	*0.0124 0.0019	52.2	13.8	6.4	1.0	1409	26.1	H	
4657	2	22 54 17.8	02 19 34	38	0.0268 0.0021	180.1	24.9	12.6	1.0	0	10.0	H	
4660	3	22 54 35.8	02 09 41	48	0.0282 0.0024	155.1	21.9	11.7	1.1	500	17.6	H	
4661	4	22 54 43.8	02 27 33	35	0.0064 0.0012	47.9	27.1	5.5	0.9	0	0.4	H	Q

(22h 54m)

I 3074

(22h 54m)



FIRST CONTOUR: 1.6
PEAK: 15.892

DS BKG CNTS: 2032.23
BE BKG CNTS: -343.12

OY 091: BL LAC'S IN CLUSTERS OF GALAXIES

FIELD CENTER: 22^h54^m45.6^s 07°27'10" (B1950)
22^h57^m17.0^s 07°43'14" (J2000)
l: 80.42 *b*: -45.52

DATE: 1979/144 - 1979/144
LIVETIME: 1646.8s
ROLL ANGLE: -67.2°

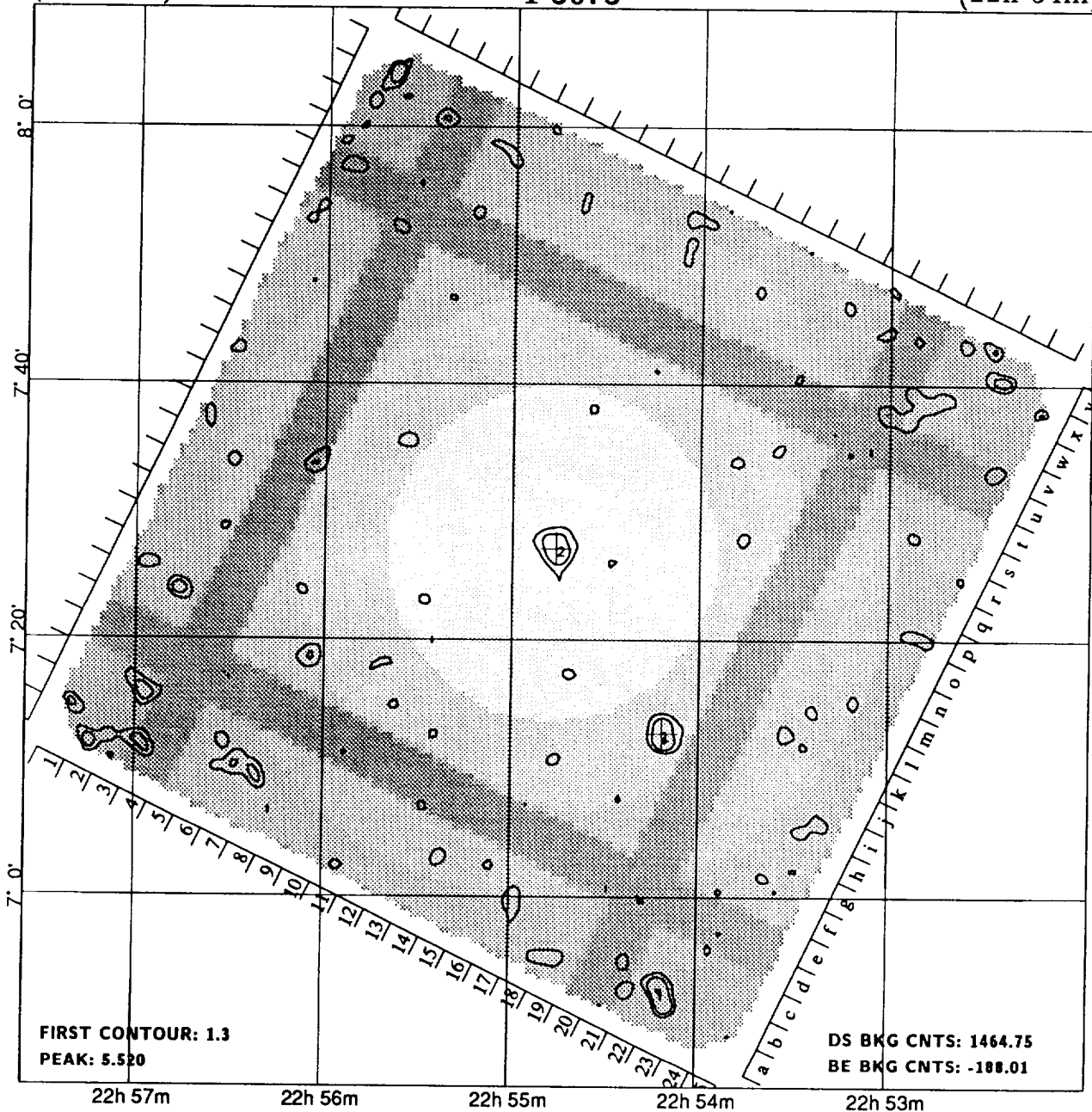
NH: 5.3E+20
REF/ID:
FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4656	1	22 54 11.0	07 12 25	50	0.0506	0.0077	46.1	2.9	6.6	1.1	100	16.8	AH	*
4662	2	22 54 47.9	07 26 56	37	0.0164	0.0040	20.1	3.9	4.1	1.1	0	0.7	AH	BL

(22h 54m)

I 3075

(22h 54m)



OY 091: BL LAC'S IN CLUSTERS OF GALAXIES

FIELD CENTER: $22^{\text{h}}54^{\text{m}}45.6^{\text{s}}$ $07^{\circ}27'10''$ (B1950)
 $22^{\text{h}}57^{\text{m}}17.0^{\text{s}}$ $07^{\circ}43'14''$ (J2000)
 $l: 80.42$ $b: -45.52$

DATE: 1979/172 - 1979/172
 LIVETIME: 1186.9s
 ROLL ANGLE: -64.3°

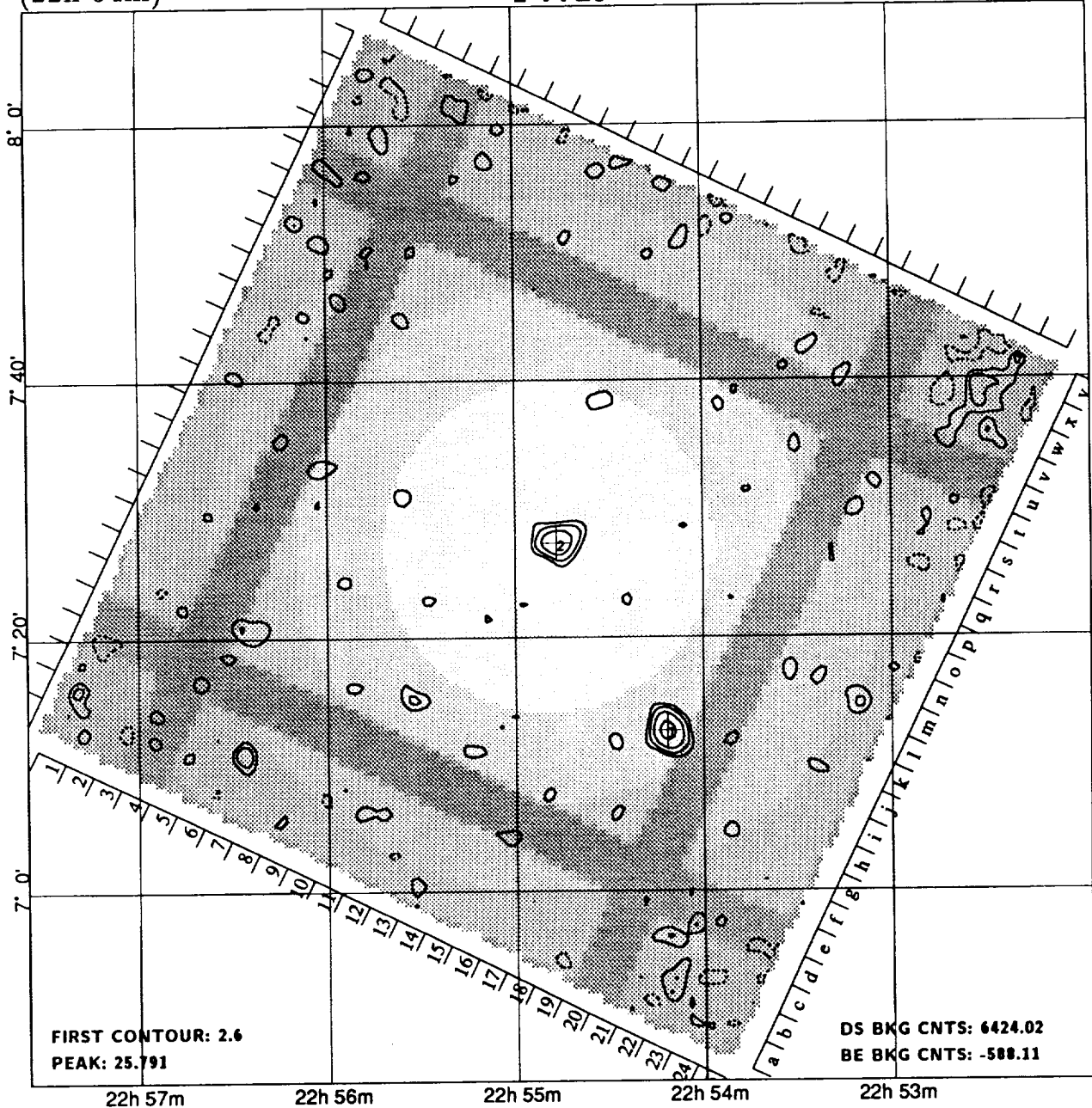
NH: $5.3E+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4656	1	22 54 11.8	07 12 46	54	0.0295	0.0070	19.8	2.2	4.2	0.9	100	16.8	AH	*
4662	2	22 54 45.9	07 27 09	37	0.0250	0.0057	22.1	2.9	4.4	1.0	0	0.2	AH	BL

(22h 54m)

I 7729

(22h 54m)



OY 091,BL LAC OBJECTS W/GROUPS OR CLUSTERS OF GALAXIES

FIELD CENTER: 22^h54^m45.8^s 07°27'09" (B1950)
 22^h57^m17.2^s 07°43'13" (J2000)
 $l: 80.42$ $b: -45.52$

DATE: 1980/172 - 1980/172
 LIVETIME: 5205.6s
 ROLL ANGLE: -64.3°

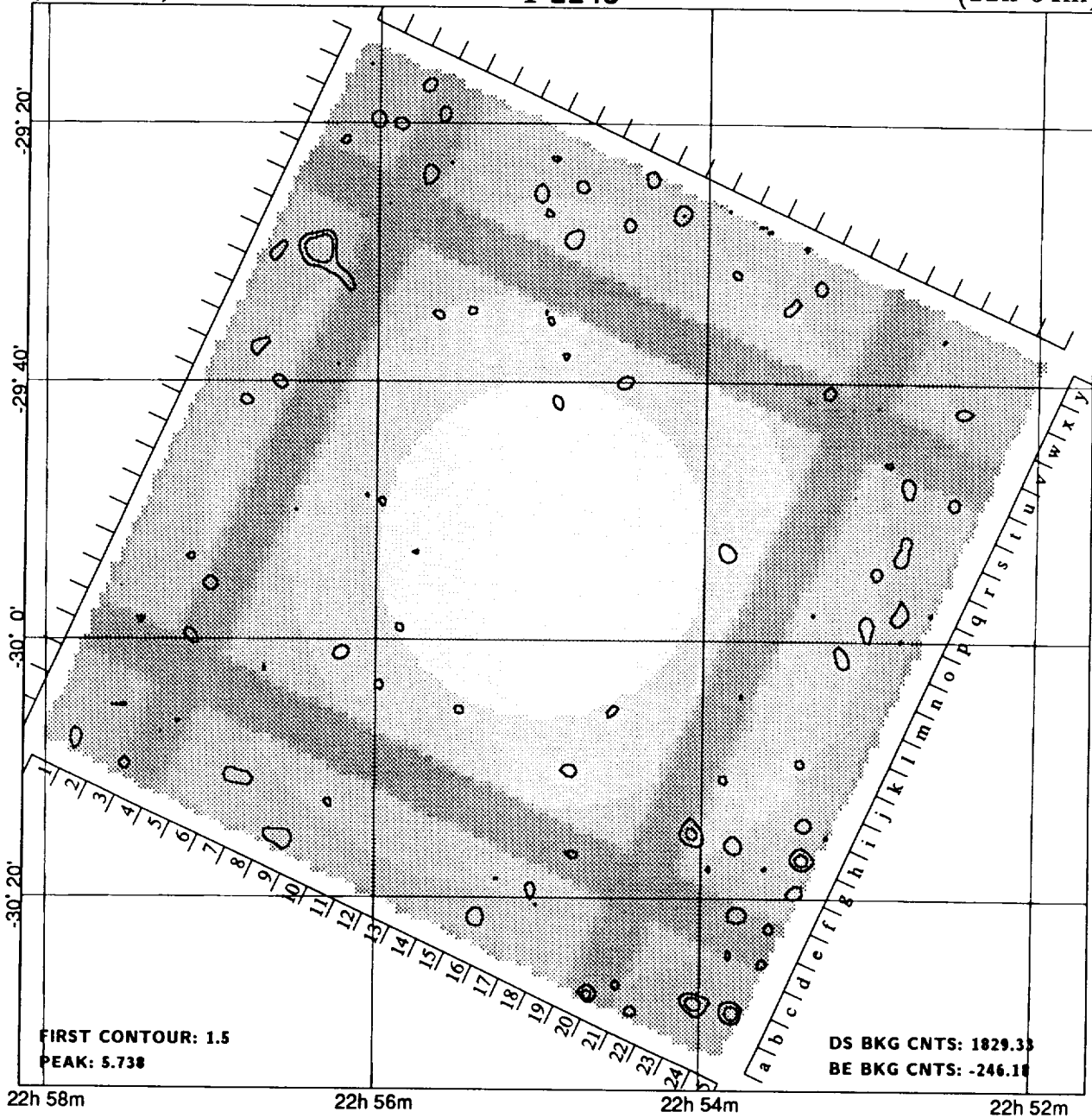
NH: 5.3E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4656	1	22 54 11.6	07 12 36	48	0.0298	0.0034	86.3	9.7	8.8	1.0	200	16.8	AH *	
4662	2	22 54 46.9	07 27 17	32	0.0205	0.0025	79.6	13.4	8.2	1.1	0	0.4	AH BL	

(22h 54m)

I 2243

(22h 54m)



STELLAR SURVEY-EARLY TYPE STARS: HD216956=ALPHA PSA

FIELD CENTER: $22^{\text{h}}54^{\text{m}}53.9^{\text{s}}$ $-29^{\circ}52'59''$ (B1950)
 $22^{\text{h}}57^{\text{m}}38.2^{\text{s}}$ $-29^{\circ}36'55''$ (J2000)
 $l: 20.50$ $b: -64.91$

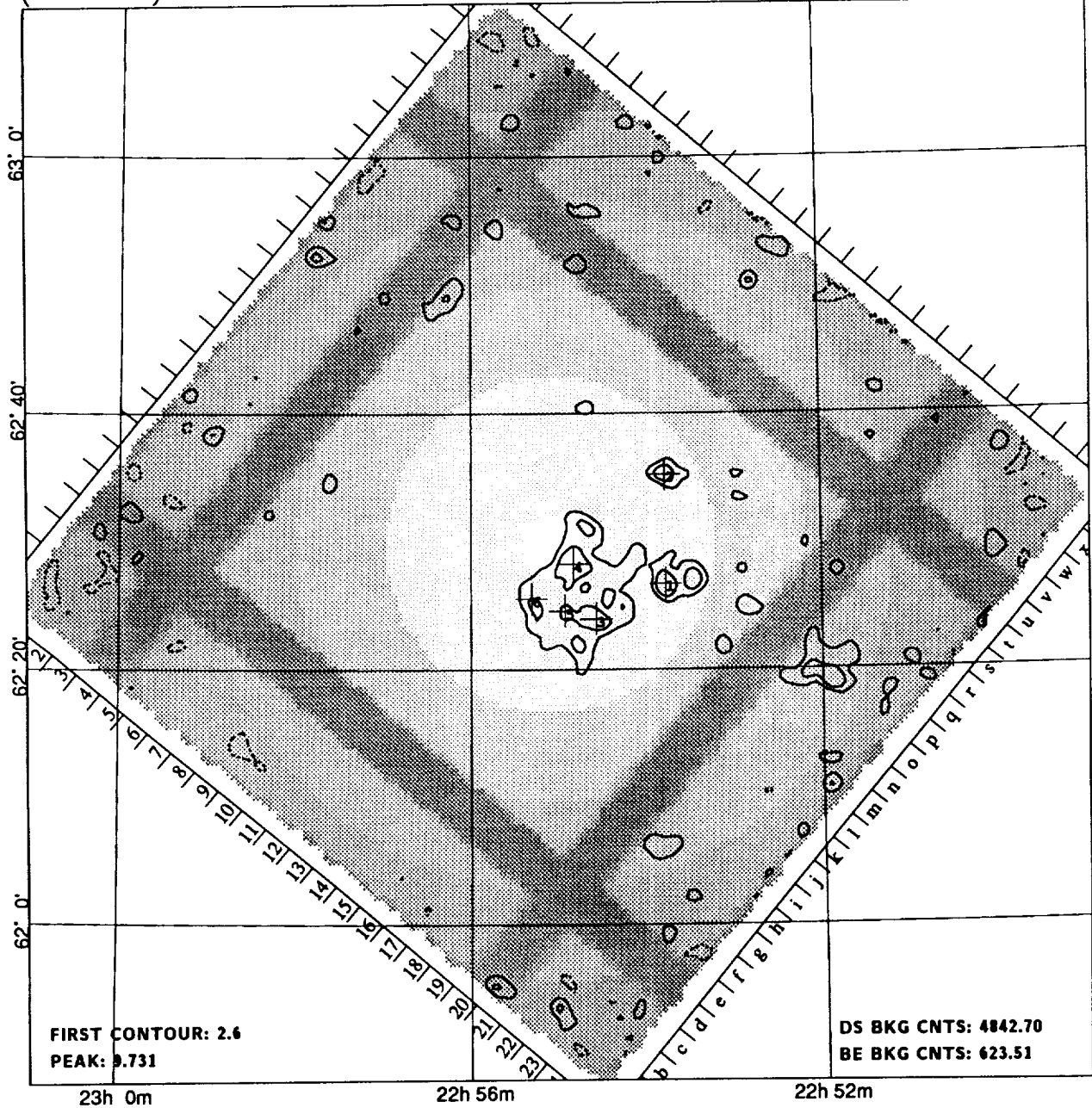
DATE: 1979/142 - 1979/142
 LIVETIME: 1482.3s
 ROLL ANGLE: -65.2°

NH: $1.8\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(22h 54m)

I 8490

(22h 54m)



CEP OB3, FURTHER STUDY OF COLLIDING STELLAR WINDS

FIELD CENTER: $22^{\text{h}}54^{\text{m}}59.8^{\text{s}}$ $62^{\circ}29'59''$ (B1950)
 $22^{\text{h}}56^{\text{m}}58.0^{\text{s}}$ $62^{\circ}46'02''$ (J2000)
 $l: 110.26$ $b: 2.75$

DATE: 1980/190 - 1980/190
 LIVETIME: 3924.2s
 ROLL ANGLE: -50.3°

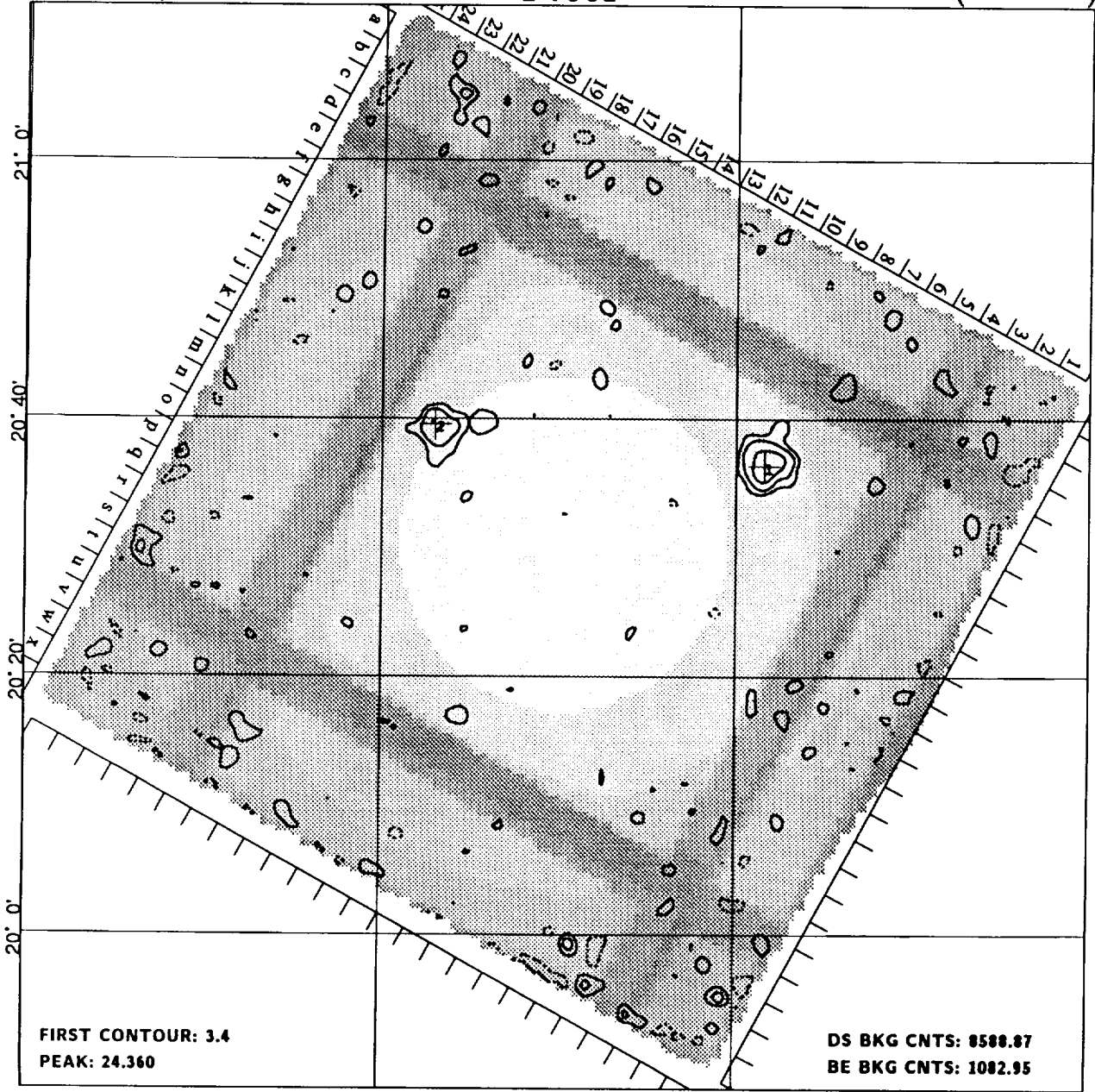
NH: $8.7E+21$
 REF/ID: !
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4652	1	22 53 46.4	62 26 44	42	0.0108	0.0024	28.4	12.6	4.4	1.4	0	8.9	H	
4653	2	22 53 46.8	62 35 13	43	0.0077	0.0022	19.9	12.1	3.5	0.8	0	9.8	H	
4659	3	22 54 34.3	62 24 02	42	0.0112	0.0024	30.8	13.2	4.6	6.7	0	6.9		
4663	4	22 54 49.7	62 28 17	36	0.0135	0.0025	38.8	14.2	5.3	7.1	0	2.3		
4665	5	22 54 55.5	62 24 39	43	0.0073	0.0021	20.5	13.5	3.5	8.1	0	5.2		
4668	6	22 55 18.6	62 25 36	43	0.0084	0.0022	23.7	15.3	3.8	9.0	0	5.3		

(22h 55m)

I 7961

(22h 55m)



51 PEG(HD 217014),CFA STELLAR SURVEY

FIELD CENTER: 22^h55^m00.8^s 20°29'59" (B1950)
 22^h57^m27.7^s 20°46'03" (J2000)
 $l: 90.06$ $b: -34.73$

DATE: 1980/358 - 1980/359
 LIVETIME: 6959.8s
 ROLL ANGLE: 118.6°

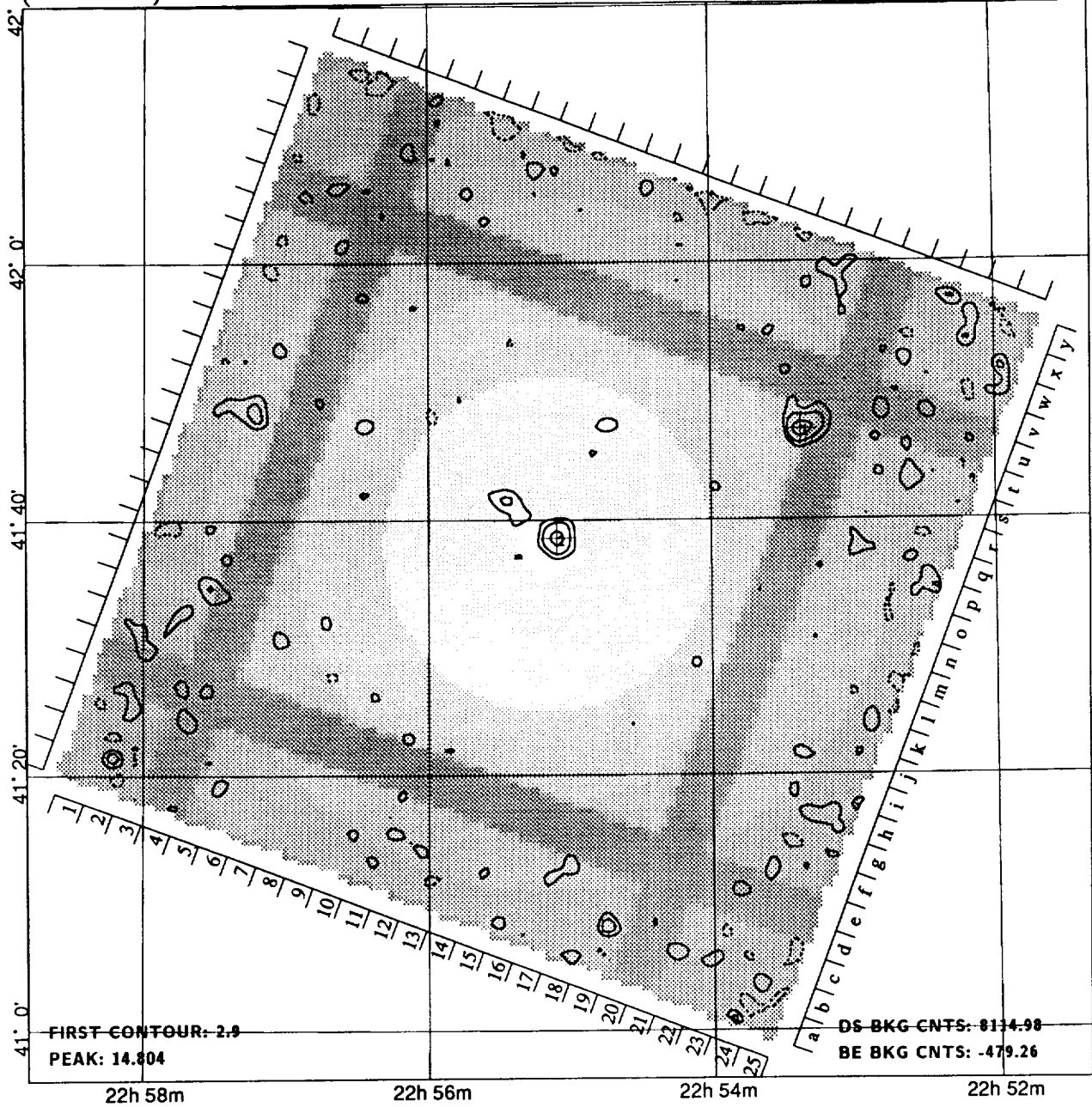
NH: 5.0E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4654	1	22 53 50.4	20 36 22	50	0.0214	0.0026	83.7	16.3	8.4	1.5	0	17.9	H	
4669	2	22 55 42.0	20 39 34	42	0.0106	0.0019	44.9	19.1	5.6	1.3	0	13.8	H	

(22h 55m)

I 5144

(22h 55m)



QSO 2255+41

FIELD CENTER: $22^{\text{h}}55^{\text{m}}04.8^{\text{s}}$ $41^{\circ}38'13''$ (B1950)
 $22^{\text{h}}57^{\text{m}}22.1^{\text{s}}$ $41^{\circ}54'17''$ (J2000)
 $l: 101.23$ $b: -16.11$

DATE: 1980/162 - 1980/162
 LIVETIME: 6575.8s
 ROLL ANGLE: -69.4°

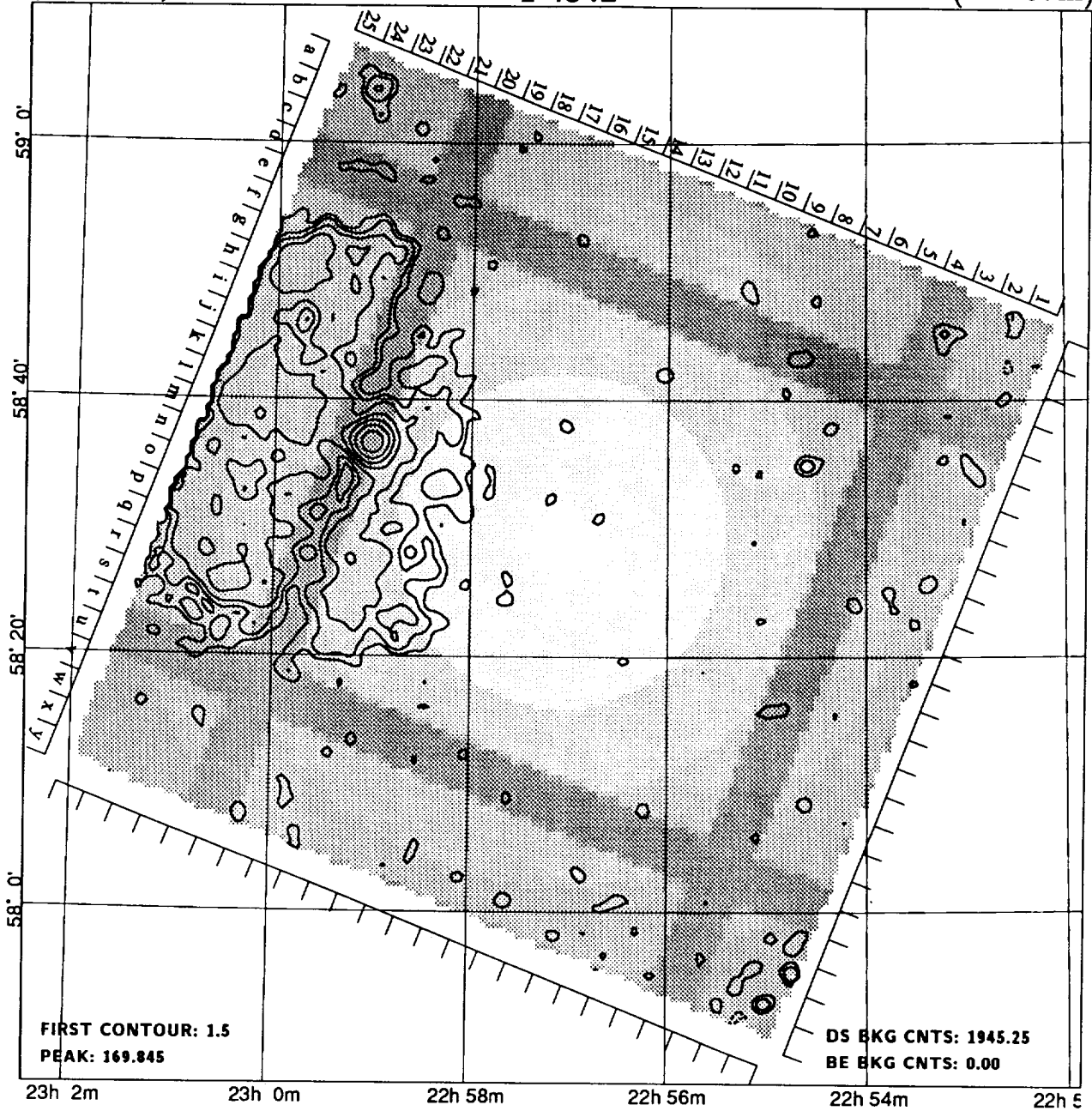
NH: $1.2\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4650	1	22 53 22.1	41 47 03	50	*0.0119	0.0023	37.4	13.6	5.2	1.0	902	21.1		*
4667	2	22 55 05.7	41 38 36	35	0.0119	0.0018	58.1	17.9	6.7	0.9	0	0.6	H	Q

(22h 57m)

I 4542

(22h 57m)



FIRST CONTOUR: 1.5
PEAK: 169.845

DS BKG CNTS: 1945.25
BE BKG CNTS: 0.00

23h 2m 23h 0m 22h 58m 22h 56m 22h 54m 22h 5

VARIABLE RADIO SOURCE GT 2257+585

FIELD CENTER: 22^h57^m08.7^s 58°28'44" (B1950)
22^h59^m13.3^s 58°44'50" (J2000)
l: 108.81 b: -1.01

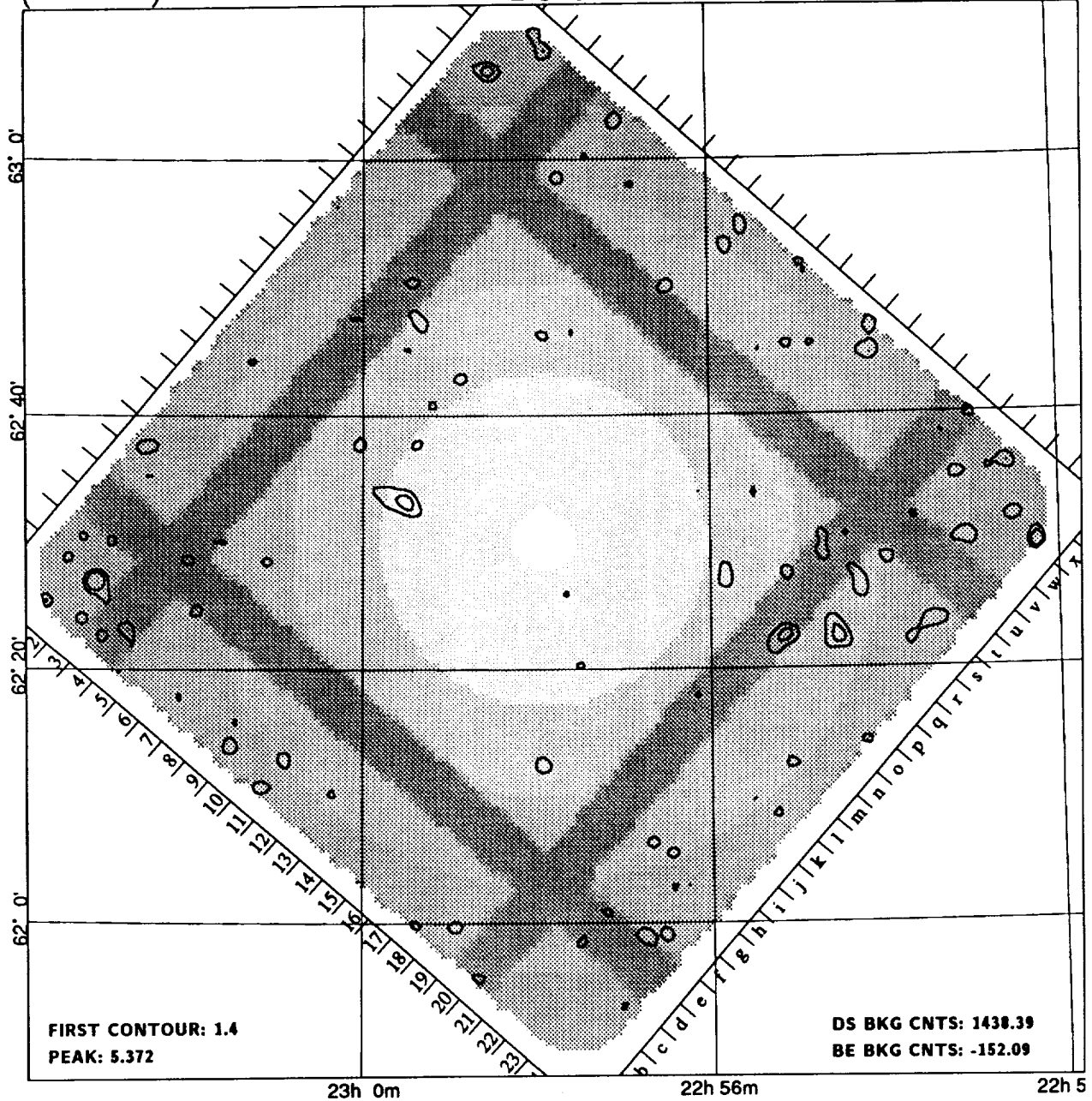
DATE: 1979/351 - 1979/352
LIVETIME: 1576.3s
ROLL ANGLE: 111.4°

NH: 6.4E+21
REF/ID:
FIELD FLAGS: LS

(22h 57m)

I 3292

(22h 57m)



CANDIDATE X-RAY BINARY SOURCES: HD 217463

FIELD CENTER: $22^{\text{h}}57^{\text{m}}47.8^{\text{s}}$ $62^{\circ}30'05''$ (B1950)
 $22^{\text{h}}59^{\text{m}}47.5^{\text{s}}$ $62^{\circ}46'12''$ (J2000)
 $l: 110.55$ $b: 2.61$

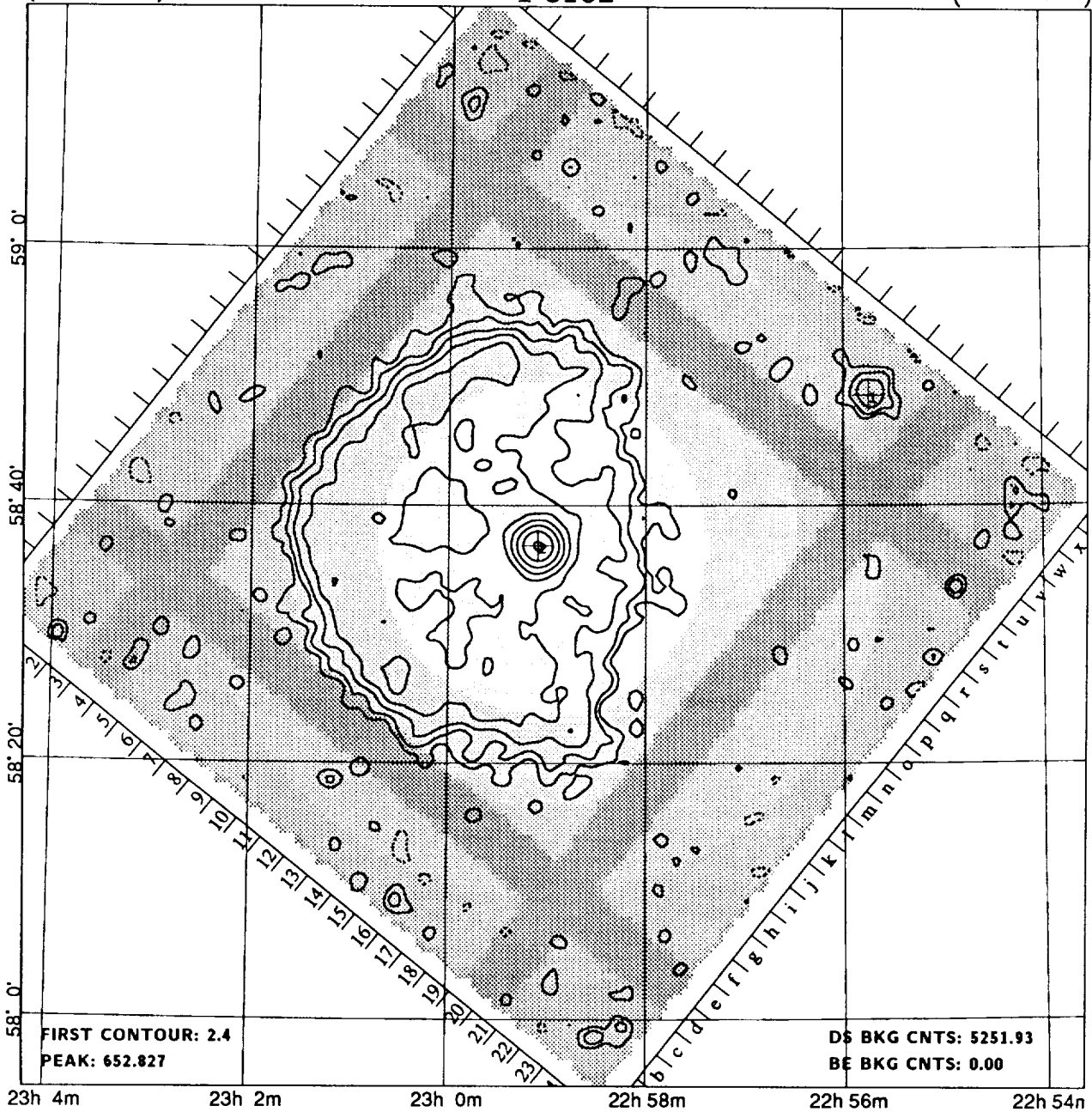
DATE: 1979/192 - 1979/192
 LIVETIME: 1165.6s
 ROLL ANGLE: -49.0°

NH: $8.7\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(22h 58m)

I 8102

(22h 58m)



POSSIBLE UNKNOWN SNR W/COMPACT SOURCE

FIELD CENTER: 22^h58^m55.7^s 58°36'47" (B1950)
 23^h01^m00.9^s 58°52'55" (J2000)
 $l: 109.07$ $b: -0.99$

DATE: 1980/189 - 1980/190
 LIVETIME: 4255.8s
 ROLL ANGLE: -51.5°

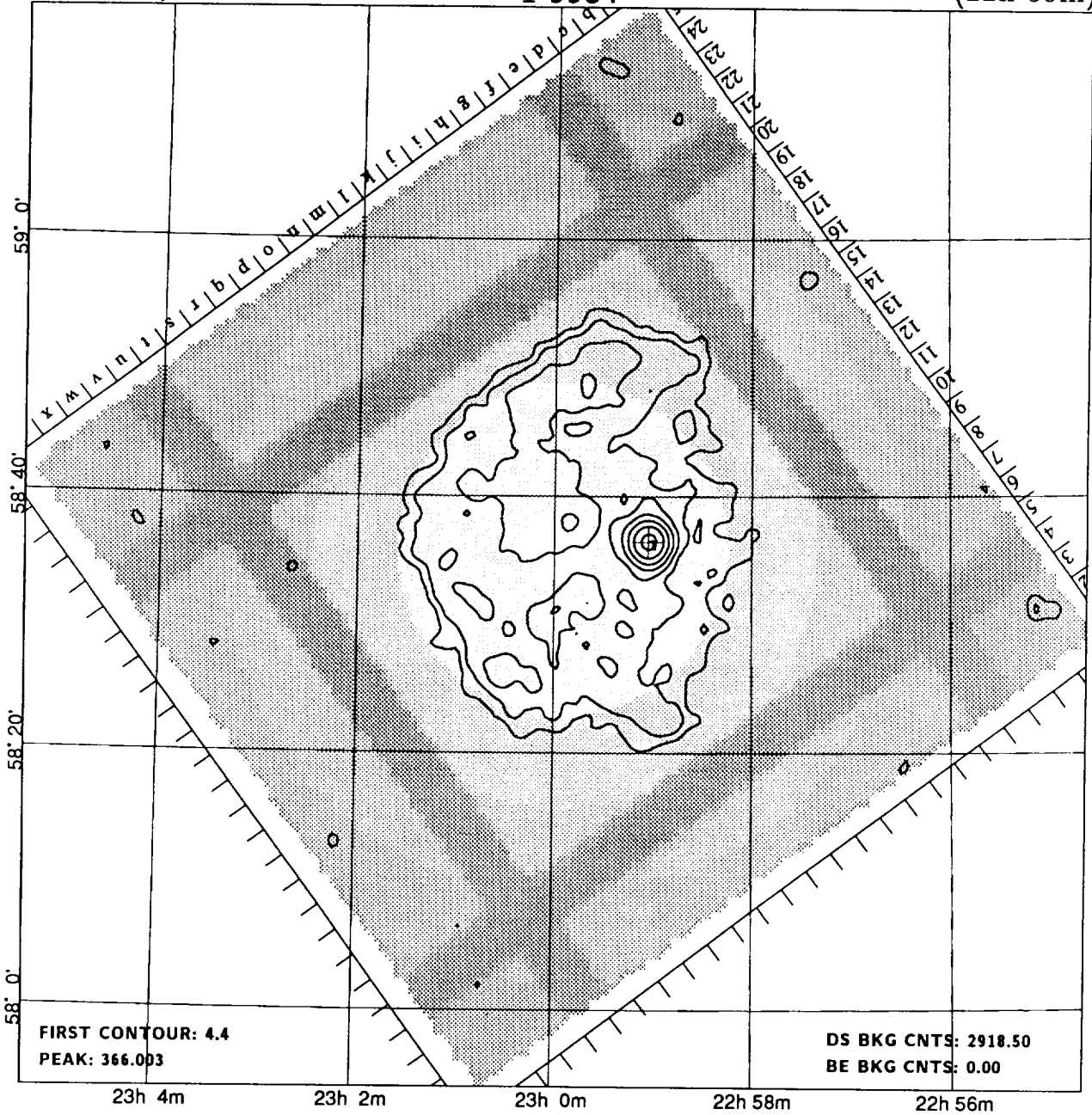
NH: 6.5E+21
 REF/ID:
 FIELD FLAGS: DL

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	ID FLG
4670	1L	22 55 44.8	58 48 37	51	0.0240	0.0052	38.7	12.3	4.5	1.2	0	27.6		
4673	2L	22 59 05.5	58 36 49	31	0.795	0.019	2524.4	286.6	42.0	6.3	0	1.3	A	*

(22h 59m)

I 9984

(22h 59m)



NEW SNR W/COMPACT CENTRAL SOURCE

FIELD CENTER: 22^h59^m59.8^s 58°35'59" (B1950)
 23^h02^m05.5^s 58°52'08" (J2000)
 l : 109.20 b : -1.06

DATE: 1981/ 23 - 1981/ 24
 LIVETIME: 2364.9s
 ROLL ANGLE: 143.4°

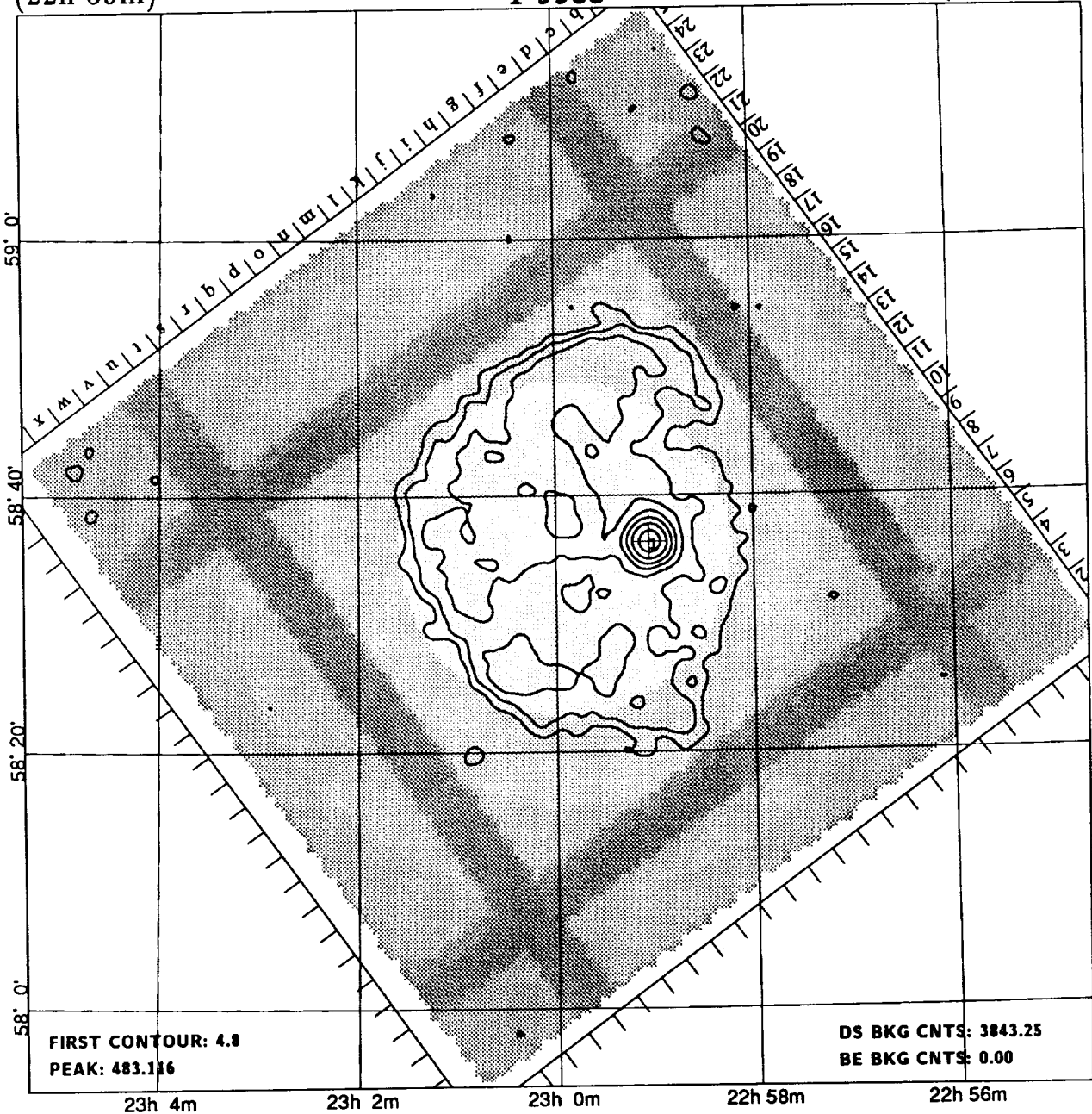
NH: 6.4E+21
 REF/ID:
 FIELD FLAGS: CDL

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4673	1L	22 59 02.8	58 36 27	37	0.764	0.025	1263.6	100.4	30.3	6.2	0	7.4	A	*

(22h 59m)

I 9985

(22h 59m)



NEW SNR W/COMPACT CENTRAL SOURCE

FIELD CENTER: 22^h59^m59.8^s 58°35'59" (B1950)
 23^h02^m05.5^s 58°52'08" (J2000)
 l : 109.20 b : -1.06

DATE: 1981/ 24 - 1981/ 24
 LIVETIME: 3114.3s
 ROLL ANGLE: 143.9°

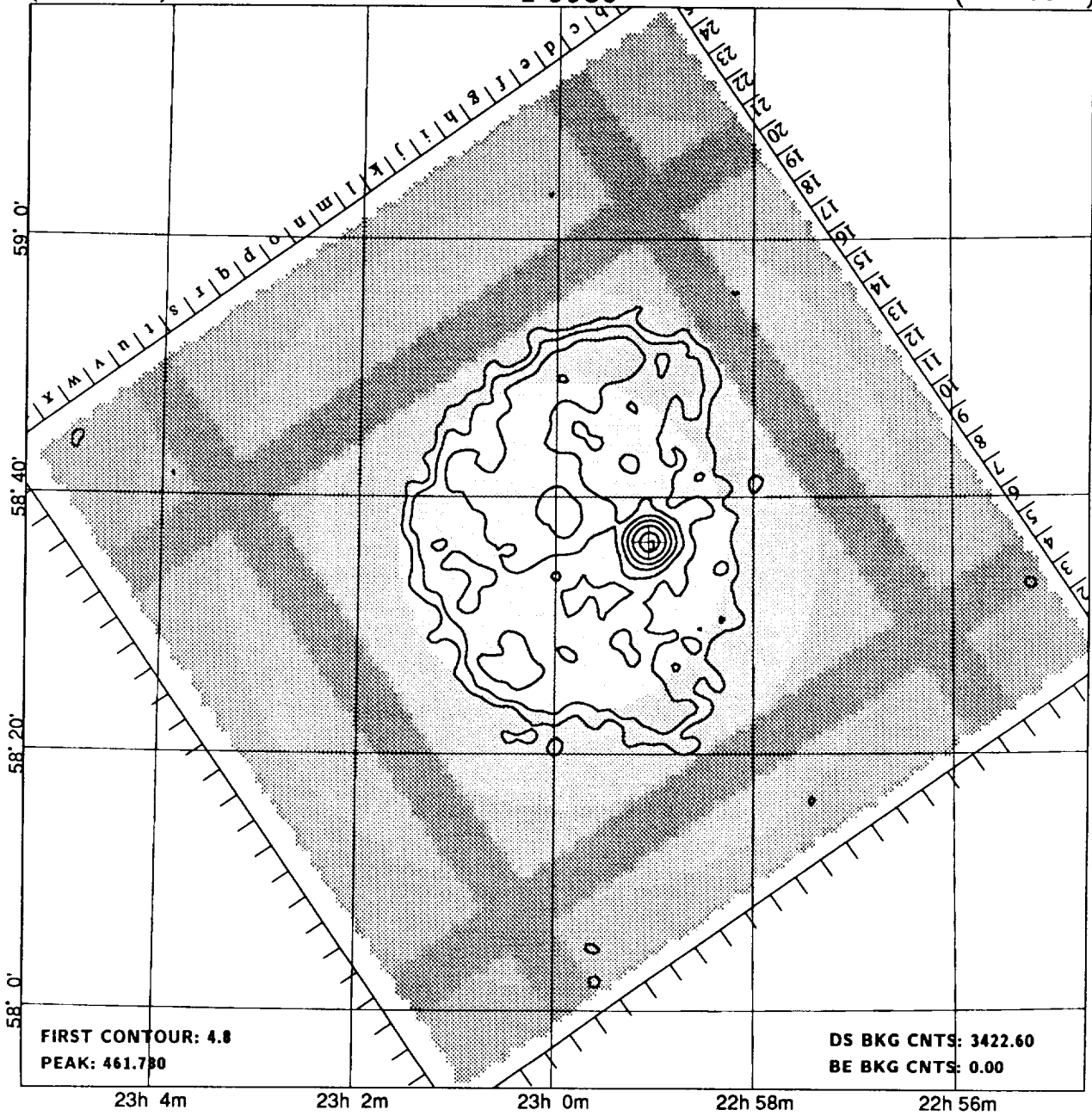
NH: 6.4E+21
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4673	1L	22 59 03.5	58 36 24	37	0.790	0.022	1723.4	119.6	35.7	6.2	0	7.3	A *

(22h 59m)

I 9986

(22h 59m)



NEW SNR W/COMPACT CENTRAL SOURCE

FIELD CENTER: $22^{\text{h}}59^{\text{m}}59.8^{\text{s}}$ $58^{\circ}35'59''$ (B1950)
 $23^{\text{h}}02^{\text{m}}05.5^{\text{s}}$ $58^{\circ}52'08''$ (J2000)
 $l: 109.20$ $b: -1.06$

DATE: 1981/ 25 - 1981/ 26
 LIVETIME: 2773.4s
 ROLL ANGLE: 145.2°

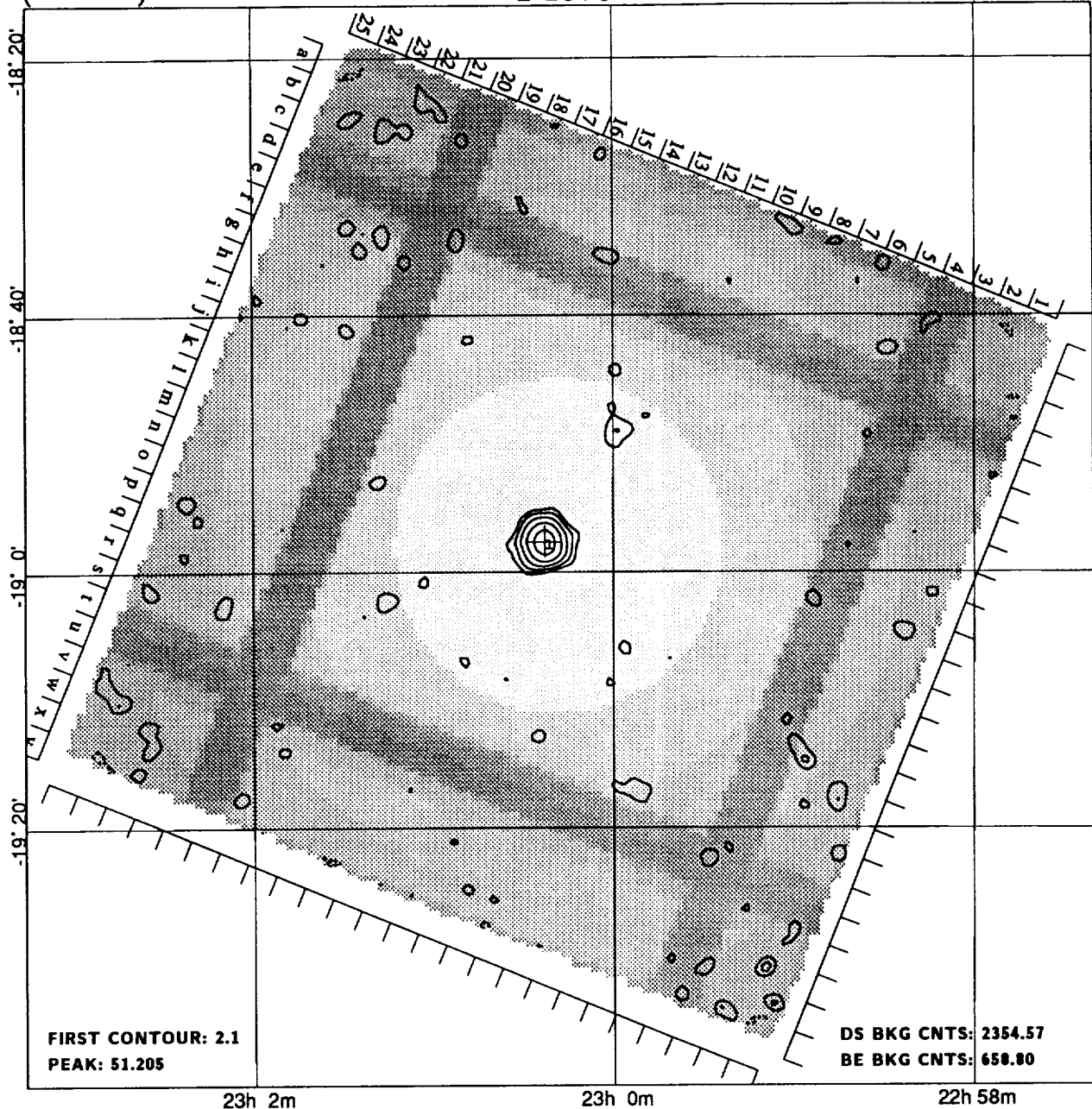
NH: $6.4\text{E}+21$
 REF/ID:
 FIELD FLAGS: CDL

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	FLG
4673	1L	22 59 03.5	58 36 27	37	0.856	0.024	1659.9	77.1	35.6	6.1	0	7.3	A	*

(23h 0m)

I 1975

(23h 0m)



PKS 2300-18: SEYFERT AND N-TYPE GALAXIES

FIELD CENTER: $23^{\text{h}}00^{\text{m}}17.8^{\text{s}}$ $-18^{\circ}57'59''$ (B1950)
 $23^{\text{h}}02^{\text{m}}57.3^{\text{s}}$ $-18^{\circ}41'49''$ (J2000)
 $l: 45.86$ $b: -63.70$

DATE: 1979/348 - 1979/350
 LIVETIME: 1908.0s
 ROLL ANGLE: 112.0°

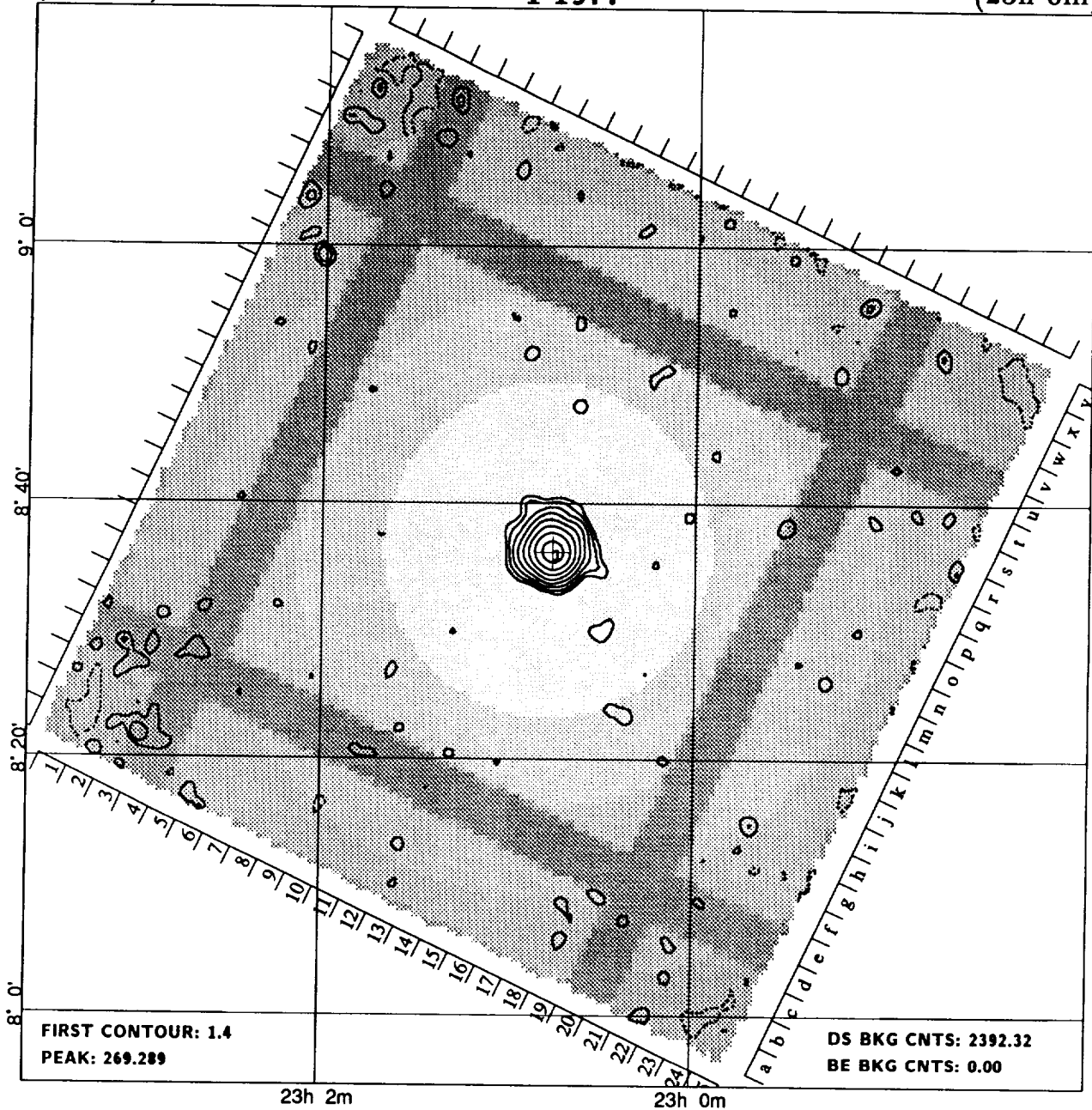
NH: $1.6\text{E}+20$
 REF/ID: !
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4674	1	23 00 22.9	-18 57 36	31	0.156	0.011	221.5	8.5	14.6	1.2	0	1.3	H	

(23h 0m)

I 1977

(23h 0m)



NGC 7469: SEYFERT AND N-TYPE GALAXIES

FIELD CENTER: $23^{\text{h}}00^{\text{m}}44.2^{\text{s}}$ $08^{\circ}36'30''$ (B1950)
 $23^{\text{h}}03^{\text{m}}15.4^{\text{s}}$ $08^{\circ}52'41''$ (J2000)
 $l: 83.10$ $b: -45.46$

DATE: 1980/171 - 1980/171
 LIVETIME: 1938.6s
 ROLL ANGLE: -64.8°

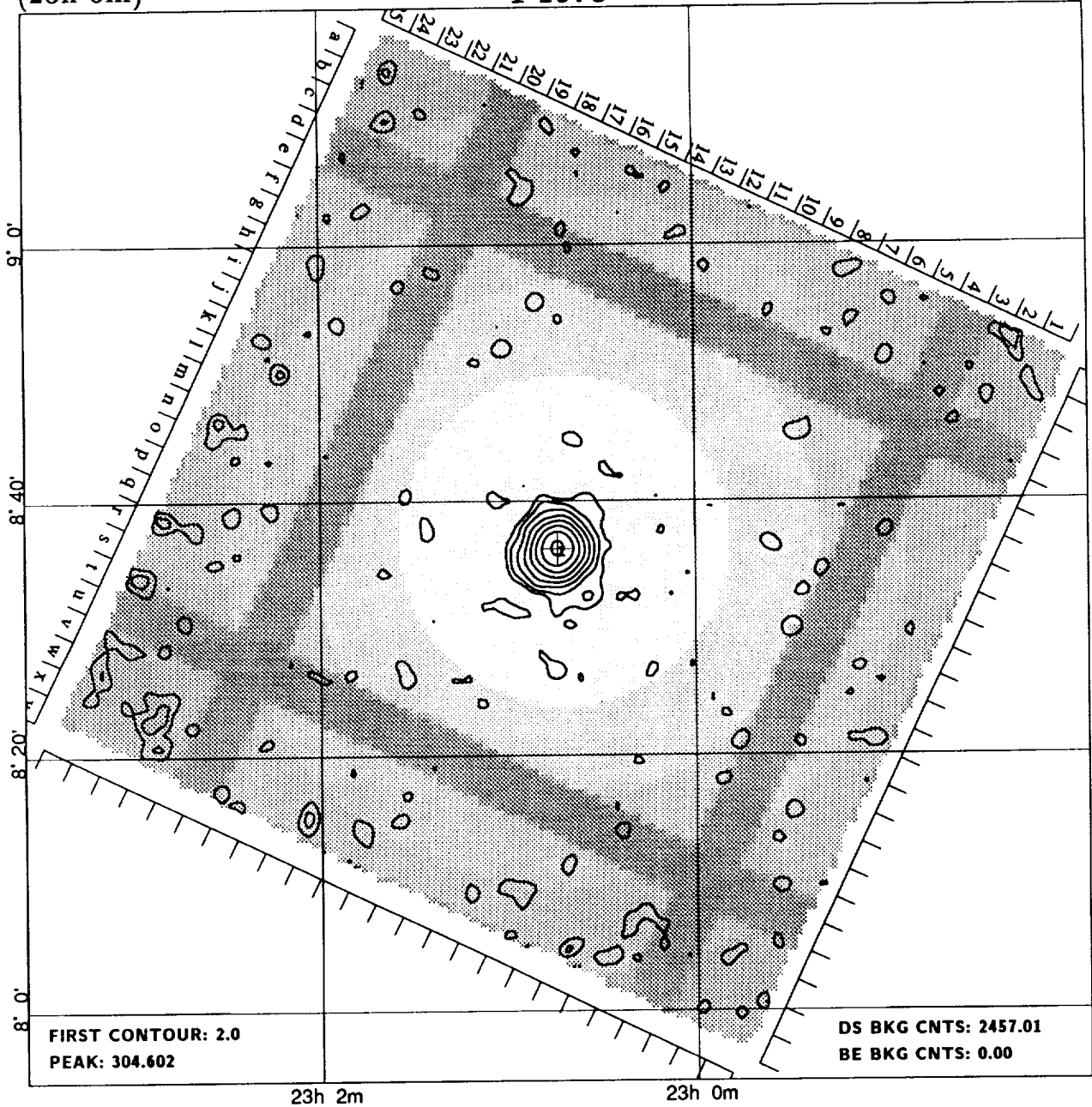
NH: $4.7\text{E}+20$
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4675	1L	23 00 45.9	08 36 15	31	0.696	0.027	1006.7	148.3	25.9	1.3	0	0.4	A

(23h 0m)

I 1978

(23h 0m)



23h 2m

23h 0m

NGC 7469: SEYFERT AND N-TYPE GALAXIES

FIELD CENTER: 23^h00^m44.2^s 08°36'30" (B1950)
 23^h03^m15.4^s 08°52'41" (J2000)
 $l: 83.10$ $b: -45.46$

DATE: 1980/355 - 1980/355
 LIVETIME: 1991.0s
 ROLL ANGLE: 115.4°

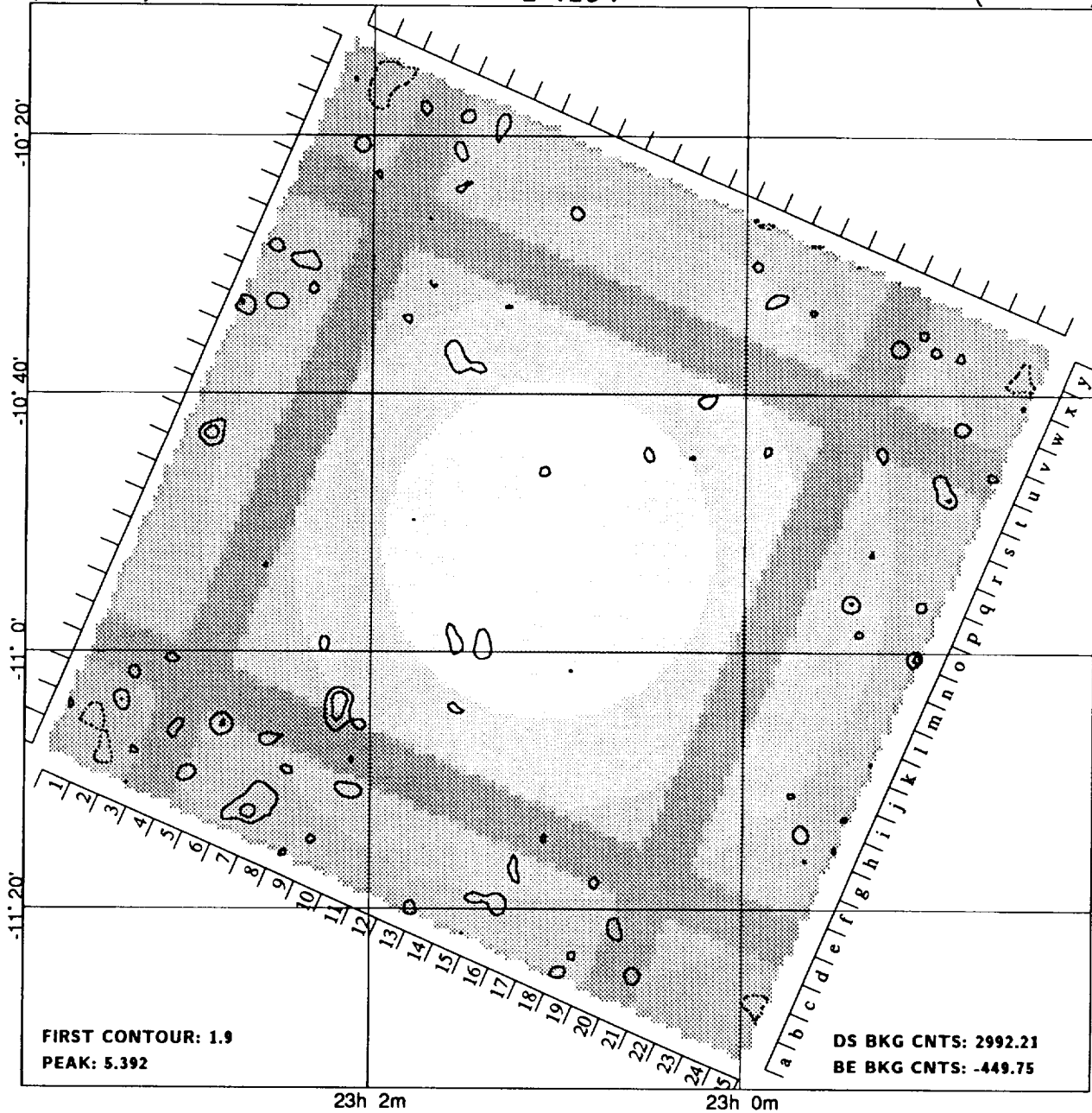
NH: 4.7E+20
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4675	1L	23 00 44.2	08 36 15	31	0.808	0.028	1197.2	167.8	28.4	1.4	0	0.3	A

(23h 0m)

I 4194

(23h 0m)



A 2525, CLUSTER WITH WELL-STUDIED OPTICAL PROPERTIES

FIELD CENTER: $23^{\text{h}}00^{\text{m}}59.8^{\text{s}}$ $-10^{\circ}51'59''$ (B1950)
 $23^{\text{h}}03^{\text{m}}36.7^{\text{s}}$ $-10^{\circ}35'49''$ (J2000)
 $l: 60.82$ $b: -59.73$

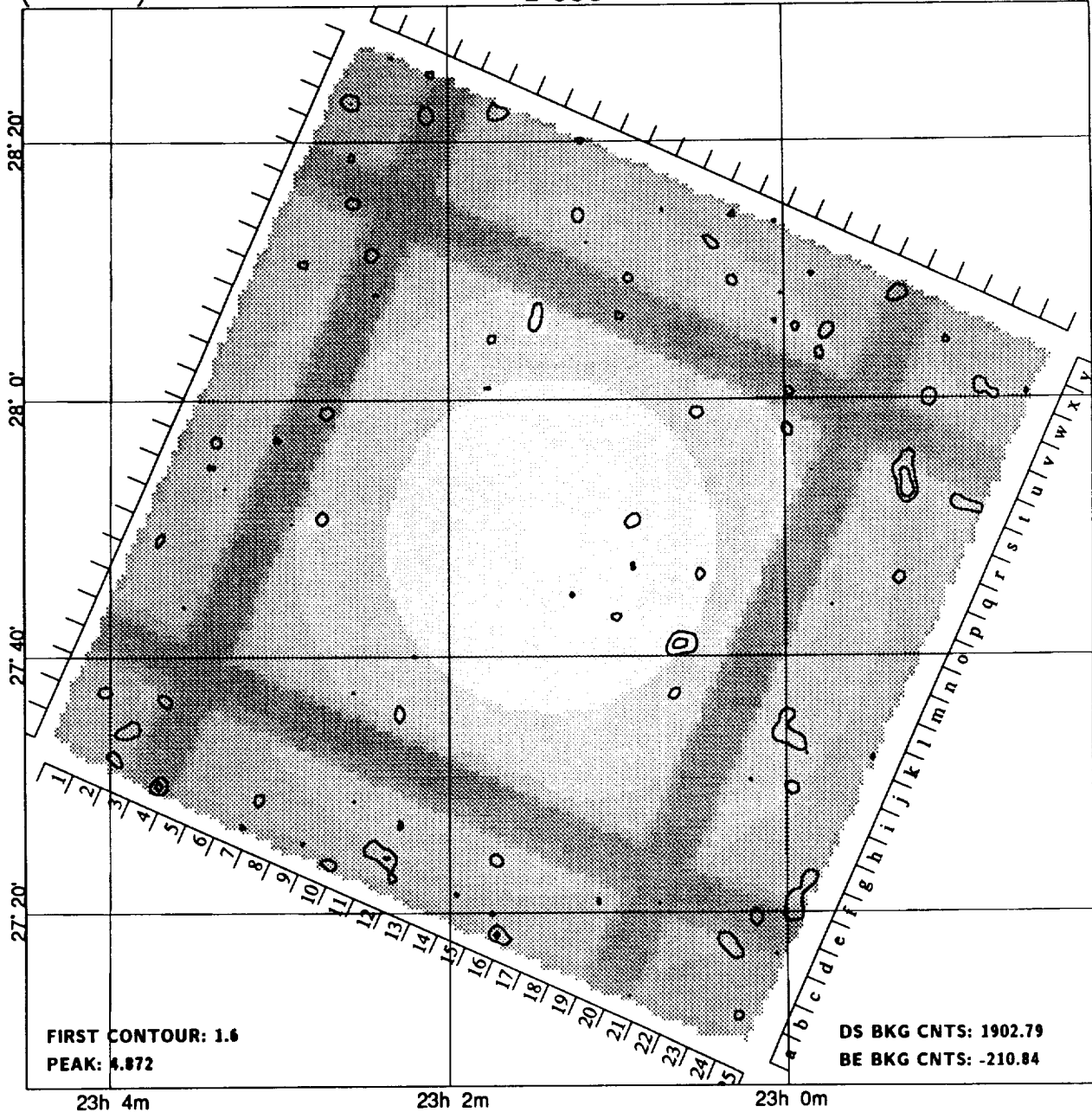
DATE: 1979/143 - 1979/143
 LIVETIME: 2424.7e
 ROLL ANGLE: -66.6°

NH: $3.2\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(23h 1m)

I 858

(23h 1m)



BETA PEG (SCHEAT) STELLAR OBSERVATIONS, M STARS

FIELD CENTER: $23^h 01^m 20.6^s$ $27^\circ 48' 39''$ (B1950)
 $23^h 03^m 45.6^s$ $28^\circ 04' 50''$ (J2000)
 $l: 95.74$ $b: -29.05$

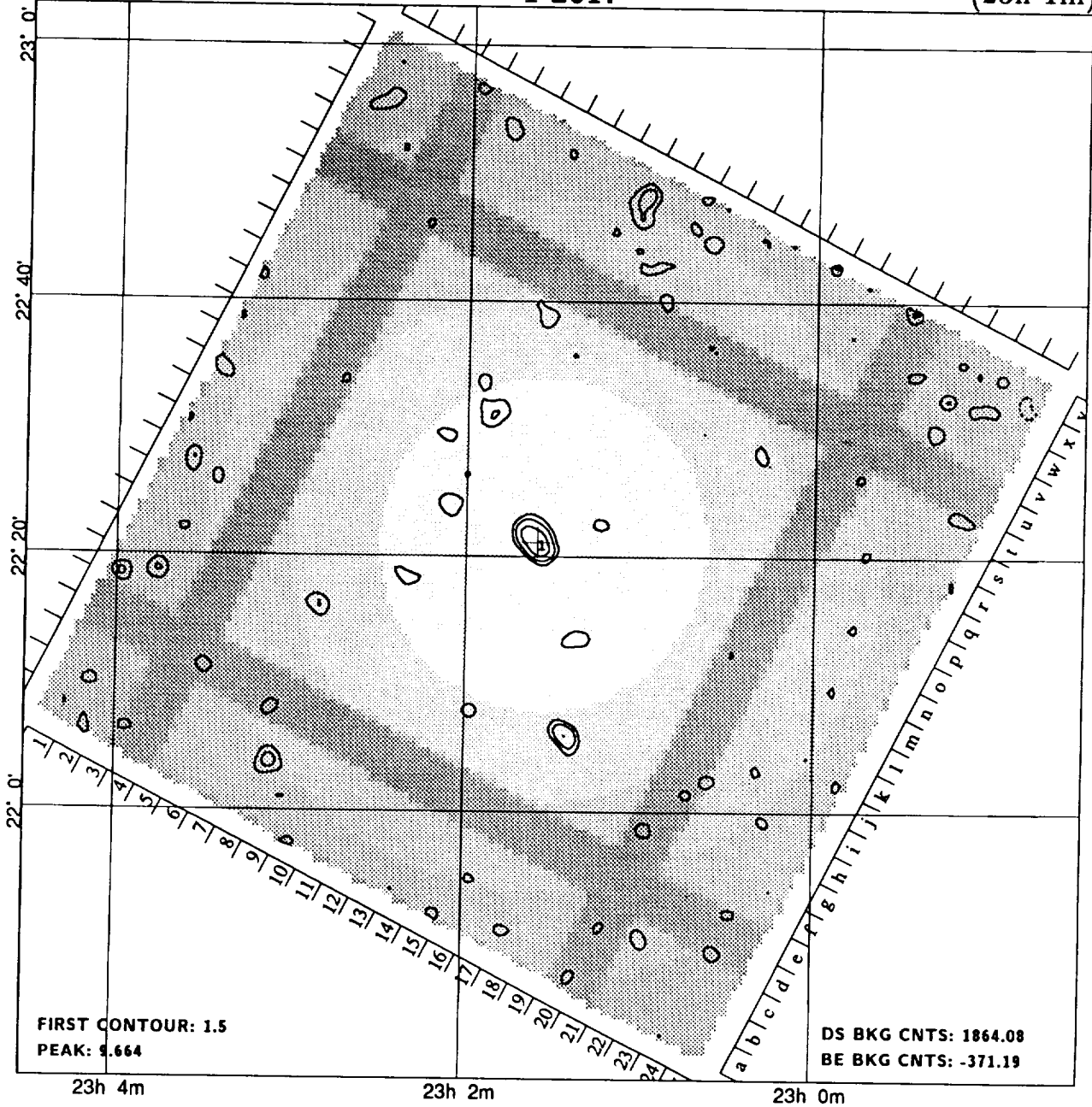
DATE: 1979/172 - 1979/172
 LIVETIME: 1541.9s
 ROLL ANGLE: -66.0°

NH: $5.6E+20$
 REF/ID:
 FIELD FLAGS:

(23h 1m)

I 2617

(23h 1m)



FIRST CONTOUR: 1.5
 PEAK: 5.664

DS BKG CNTS: 1864.08
 BE BKG CNTS: -371.19

SEYFERT GALAXY SURVEY: MKN 315

FIELD CENTER: $23^{\text{h}}01^{\text{m}}29.8^{\text{s}}$ $22^{\circ}20'59''$ (B1950)
 $23^{\text{h}}03^{\text{m}}56.7^{\text{s}}$ $22^{\circ}37'10''$ (J2000)
 $l: 92.76$ $b: -33.88$

DATE: 1979/172 - 1979/172
 LIVETIME: 1510.5s
 ROLL ANGLE: -63.0°

NH: $5.6E+20$

REF/ID:

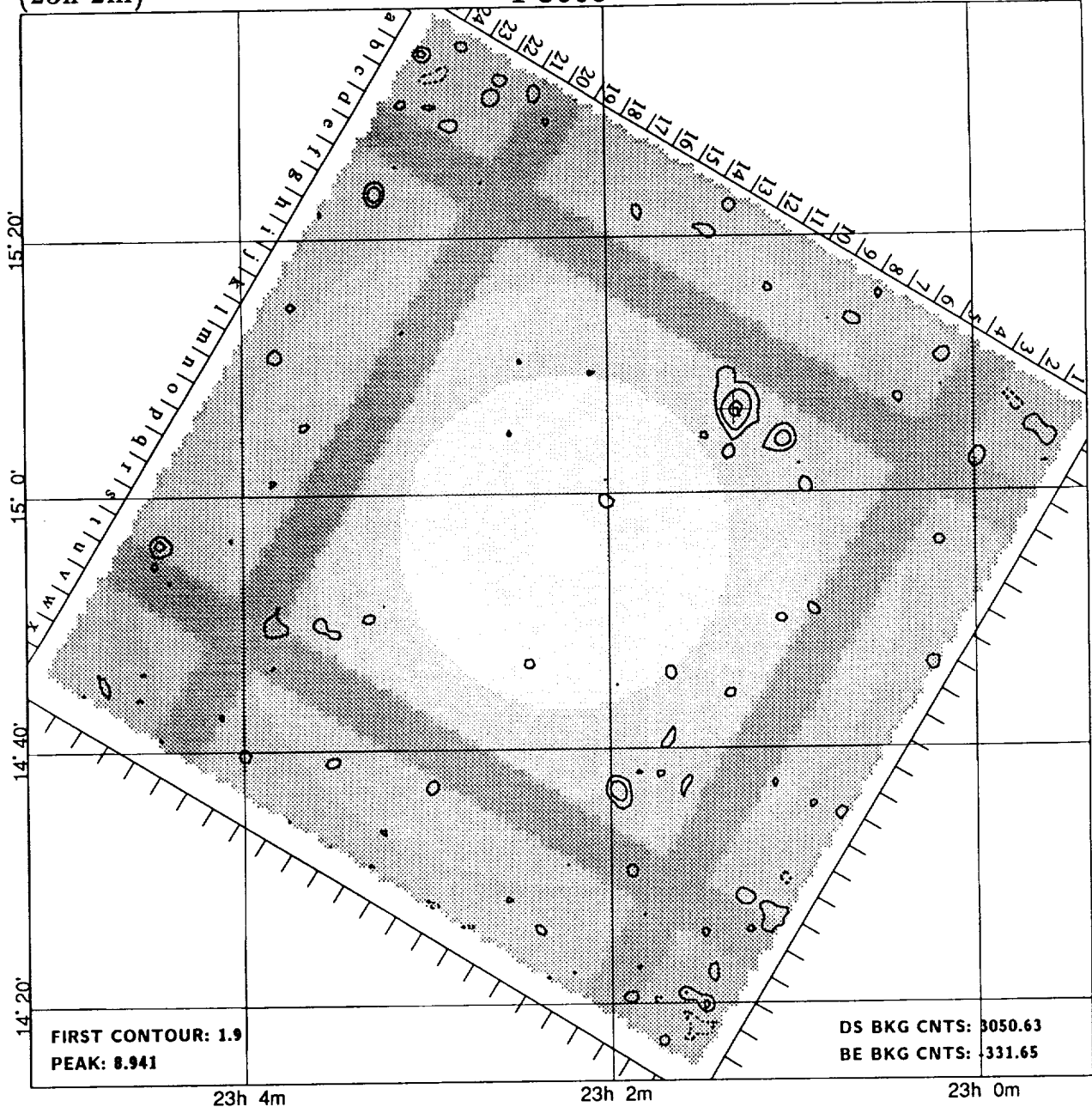
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4677	1	23 01 35.4	22 21 06	35	0.0389	0.0061	43.7	3.3	6.4	1.0	0	1.5	H	SY

(23h 2m)

I 5660

(23h 2m)



Alpha PEG

FIELD CENTER: $23^{\text{h}}02^{\text{m}}16.8^{\text{s}}$ $14^{\circ}55'59''$ (B1950)
 $23^{\text{h}}04^{\text{m}}46.1^{\text{s}}$ $15^{\circ}12'11''$ (J2000)
 $l: 88.28$ $b: -40.38$

DATE: 1981/ 4 - 1981/ 4
 LIVETIME: 2472.0s
 ROLL ANGLE: 121.3°

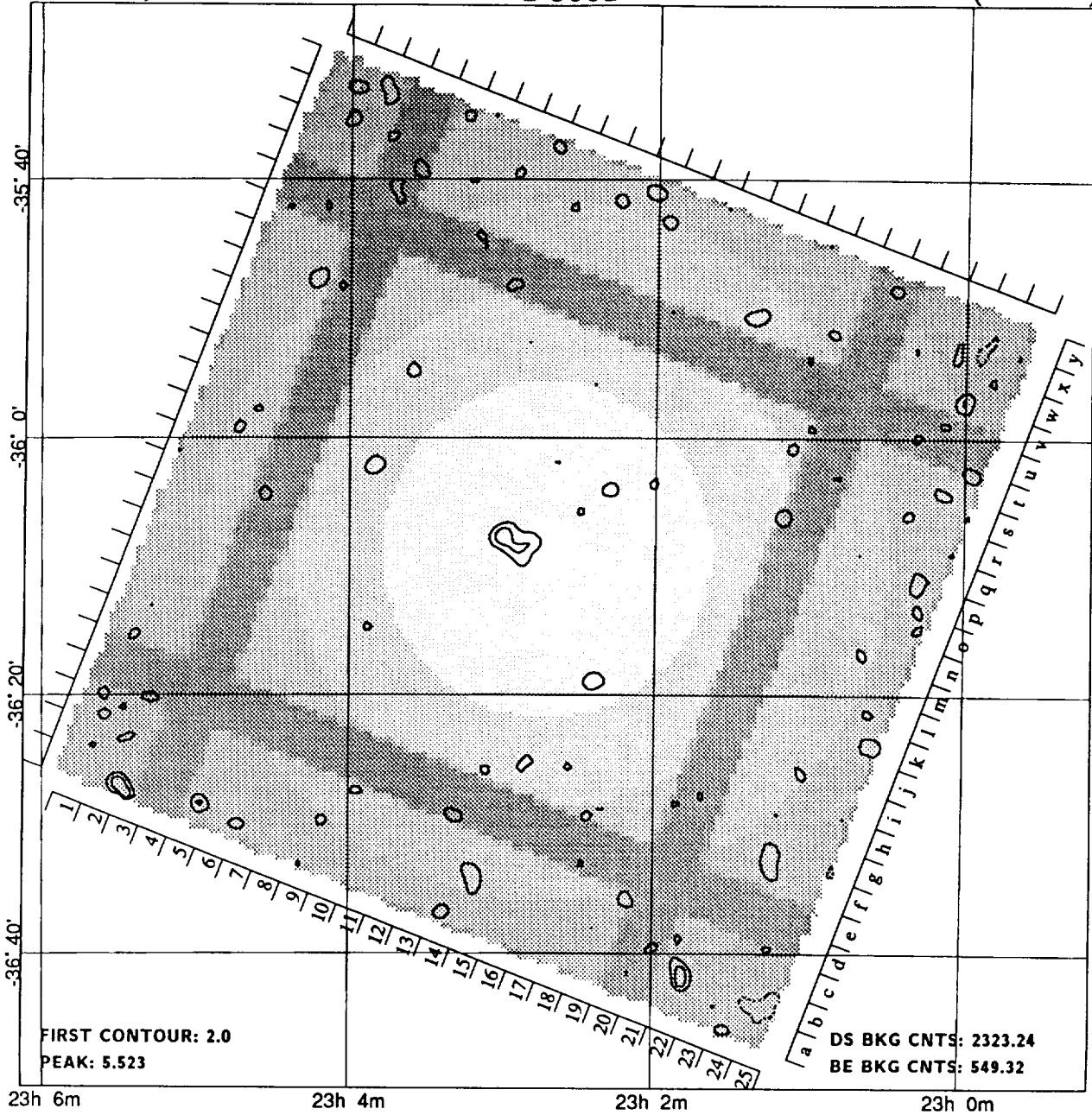
NH: $5.6\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4676	1	23 01 18.6	15 06 27	51	0.0205	0.0042	28.5	5.5	4.9	1.2	0	17.5	H

(23h 2m)

I 5661

(23h 2m)



HD 217987

FIELD CENTER: $23^{\text{h}}02^{\text{m}}38.7^{\text{s}}$ $-36^{\circ}08'29''$ (B1950)
 $23^{\text{h}}05^{\text{m}}24.2^{\text{s}}$ $-35^{\circ}52'17''$ (J2000)
 $l: 5.11$ $b: -65.86$

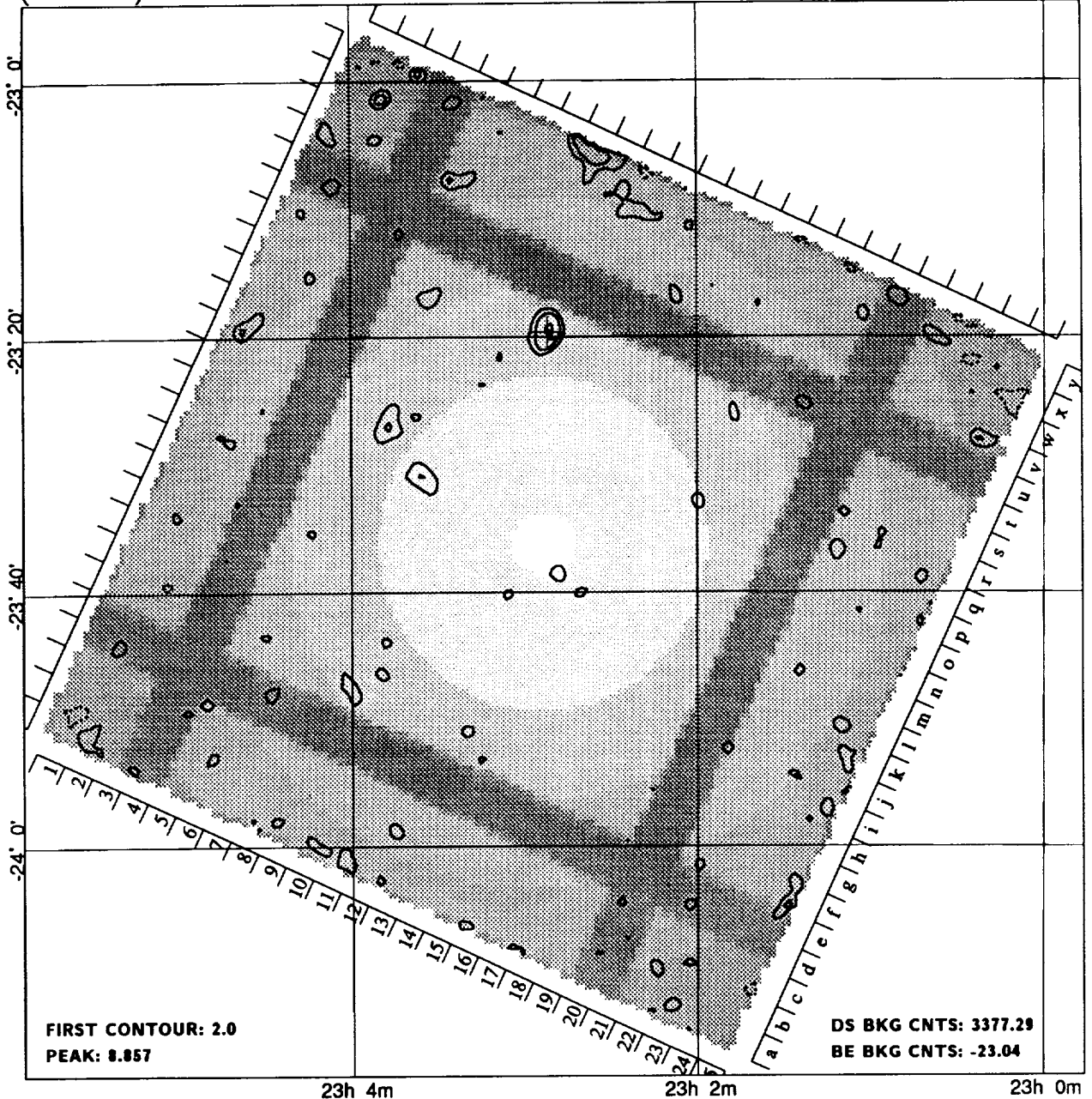
DATE: 1980/154 - 1980/154
 LIVETIME: 1882.6s
 ROLL ANGLE: -69.1°

NH: $1.3\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(23h 2m)

I 4293

(23h 2m)



A 2534 2536 2539 2540 2541 2546 SUPERCLUSTER STUDY

FIELD CENTER: $23^{\text{h}}02^{\text{m}}49.9^{\text{s}}$ $-23^{\circ}35'59''$ (B1950)
 $23^{\text{h}}05^{\text{m}}30.6^{\text{s}}$ $-23^{\circ}19'47''$ (J2000)
 $l: 36.05$ $b: -65.79$

DATE: 1979/144 - 1979/145
 LIVETIME: 2736.7s
 ROLL ANGLE: -65.2°

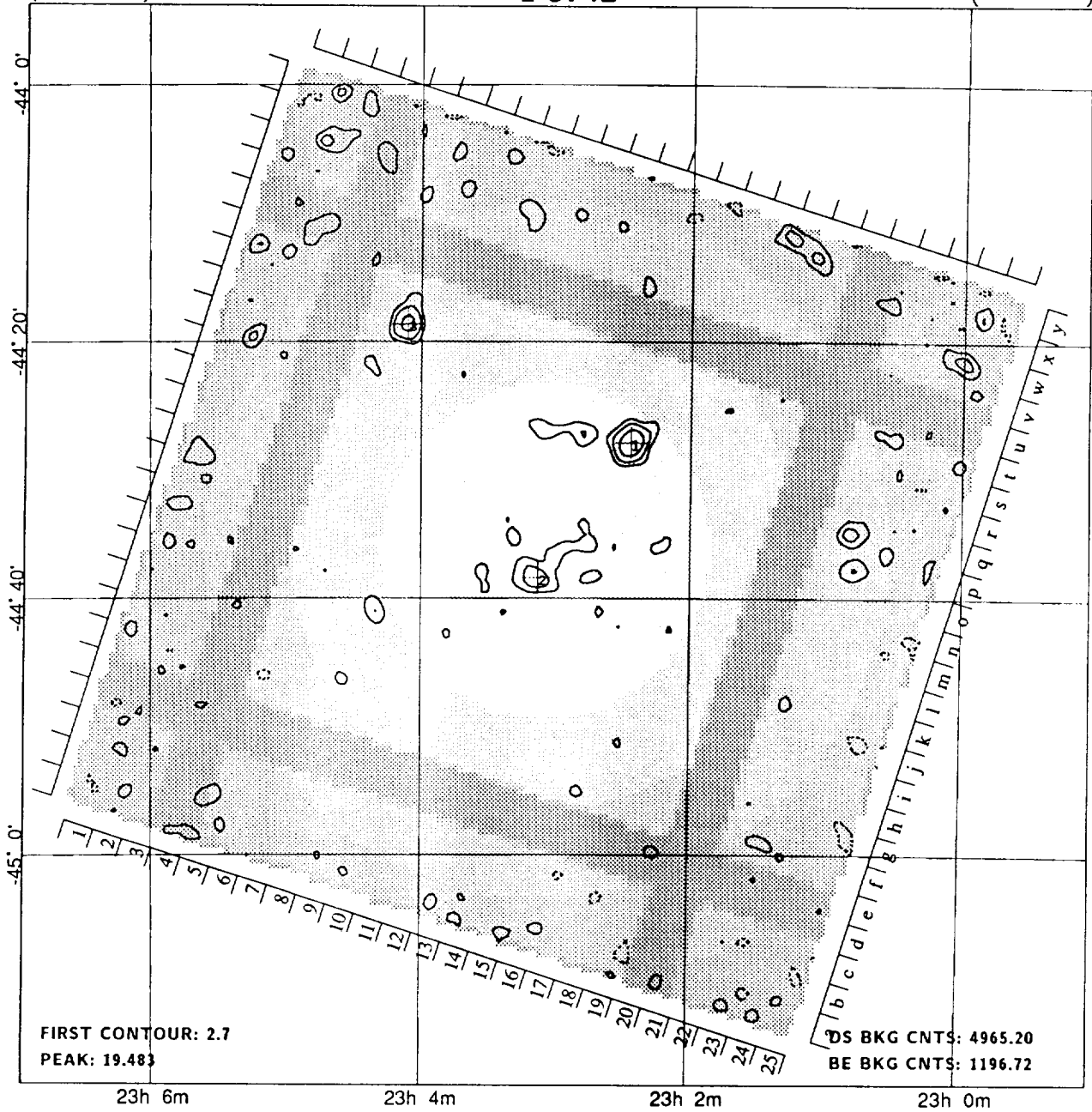
NH: $2.1\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4679	1	23 02 51.9	-23 19 38	51	0.0195	0.0039	30.2	6.8	5.0	0.9	200	16.7	

(23h 2m)

I 5742

(23h 2m)



CLUSTERS WITH IPC: SC2303-446

FIELD CENTER: $23^{\text{h}}02^{\text{m}}59.8^{\text{s}}$ $-44^{\circ}35'59''$ (B1950)
 $23^{\text{h}}05^{\text{m}}49.3^{\text{s}}$ $-44^{\circ}19'46''$ (J2000)
 $l: 346.90$ $b: -62.73$

DATE: 1980/157 - 1980/157
 LIVETIME: 4023.4s
 ROLL ANGLE: -72.4°

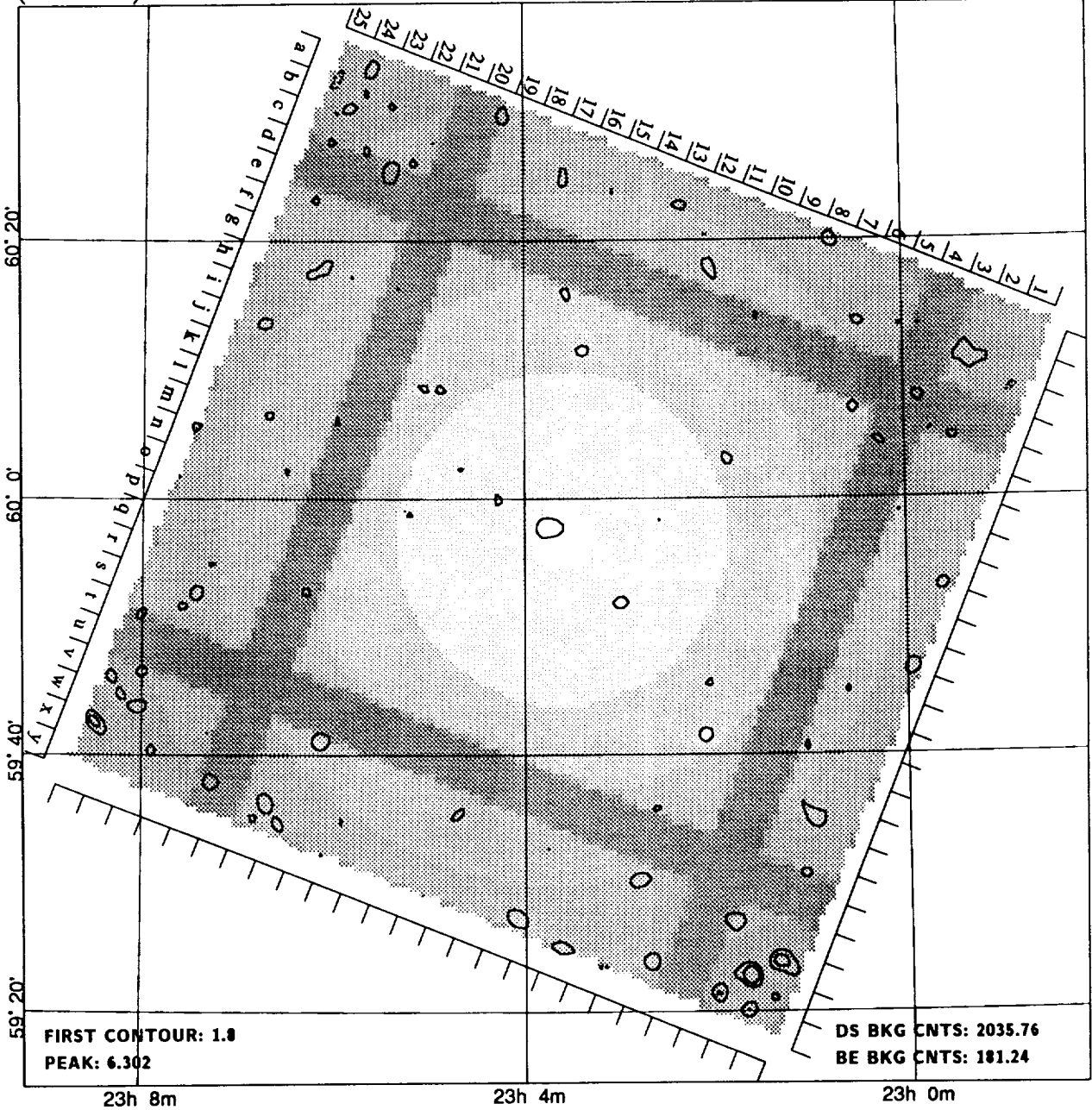
NH: $1.9\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	FLG
4678	1	23 02 26.6	-44 27 48	41	0.0277	0.0035	73.2	13.8	7.8	1.0	0	10.2	H	
4680	2	23 03 07.8	-44 38 21	36	0.0109	0.0024	32.2	16.8	4.6	1.4	0	2.6	H	
4681	3	23 04 06.0	-44 18 39	51	0.0175	0.0034	34.9	11.1	5.2	0.9	0	21.3	H	

(23h 3m)

I 4543

(23h 3m)



VARIABLE RADIO SOURCE GT 2303+599

FIELD CENTER: 23^h03^m40.8^s 59°56'31" (B1950)
 23^h05^m46.9^s 60°12'44" (J2000)
l: 110.16 *b*: -0.01

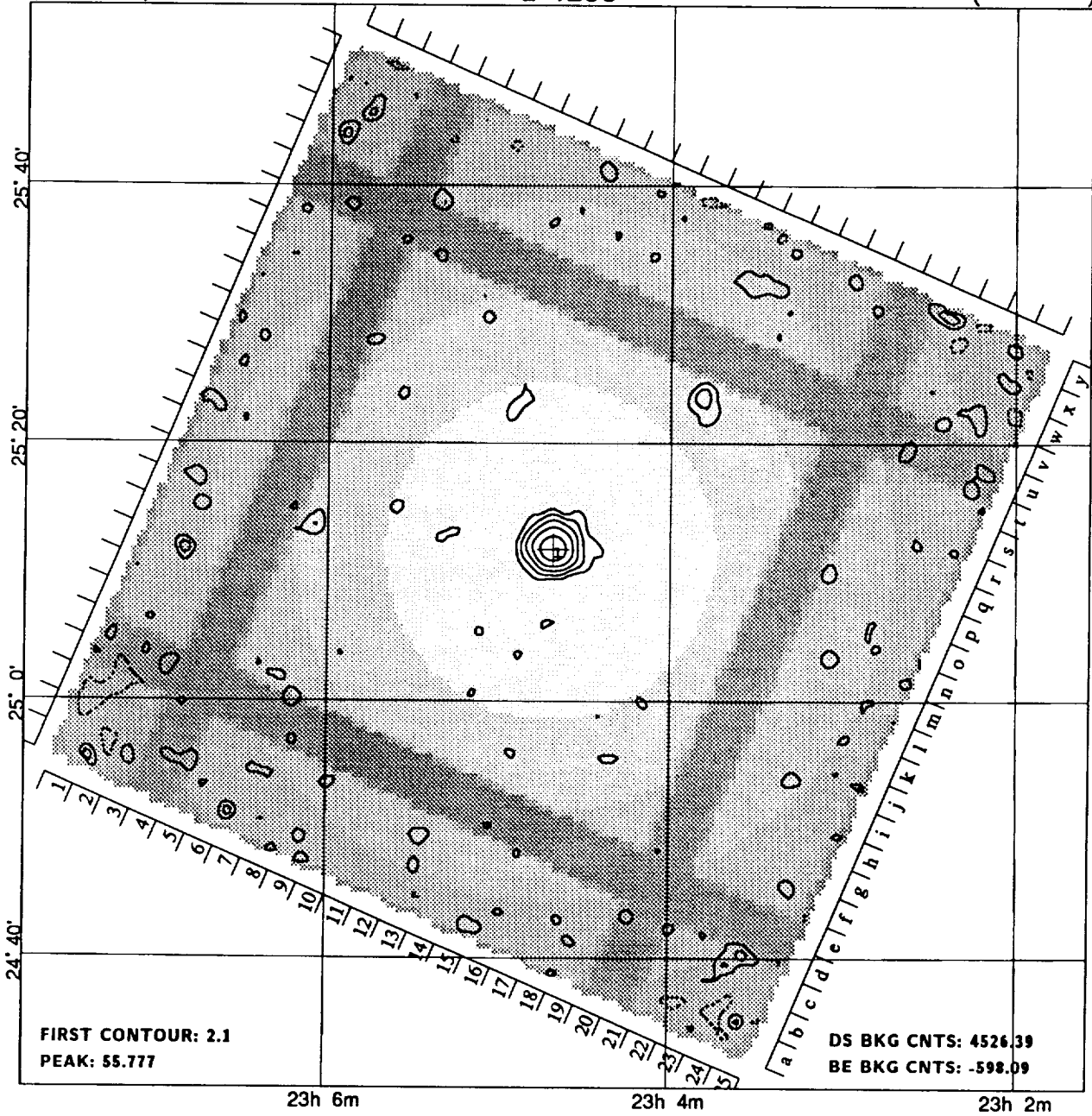
DATE: 1979/354 - 1979/354
 LIVETIME: 1649.6s
 ROLL ANGLE: 111.5°

NH: 7.5E+21
 REF/ID:
 FIELD FLAGS:

(23h 4m)

I 4233

(23h 4m)



56 PEG, LATE-TYPE STAR

FIELD CENTER: $23^{\text{h}}04^{\text{m}}39.9^{\text{s}}$ $25^{\circ}11'52''$ (B1950)
 $23^{\text{h}}07^{\text{m}}06.2^{\text{s}}$ $25^{\circ}28'07''$ (J2000)
 $l: 95.12$ $b: -31.71$

DATE: 1980/165 - 1980/165
 LIVETIME: 3667.8s
 ROLL ANGLE: -66.8°

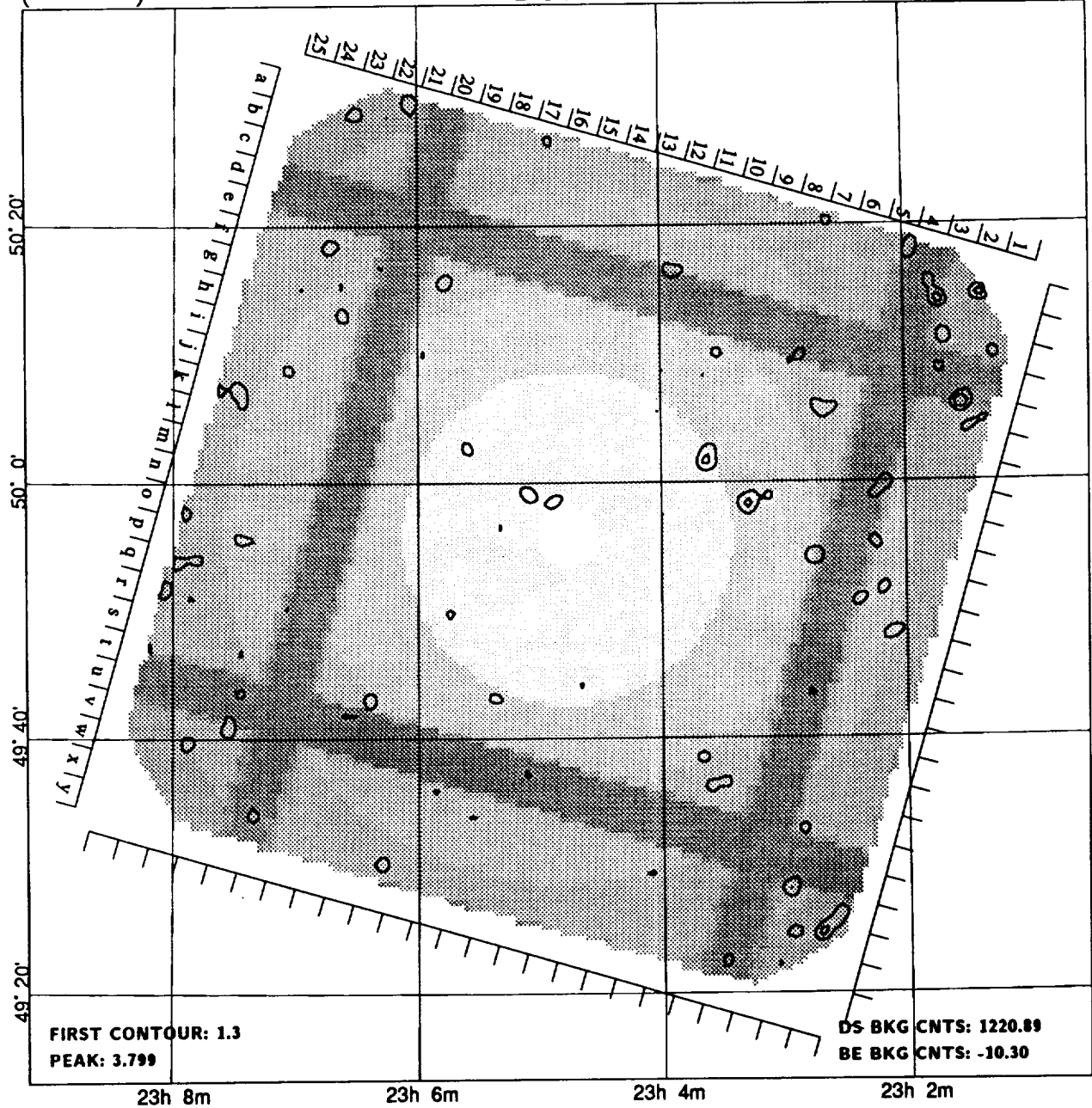
NH: $5.7\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4682	1	23 04 40.9	25 11 45	31	0.0867	0.0057	237.1	8.9	15.1	1.3	0	0.4	H S

(23h 4m)

I 5056

(23h 4m)



HD 218393, ACTIVE CLOSE BINARY STARS

FIELD CENTER: 23^h04^m50.9^s 49°55'18" (B1950)
 23^h07^m06.0^s 50°11'33" (J2000)
 l : 106.36 b : -9.29

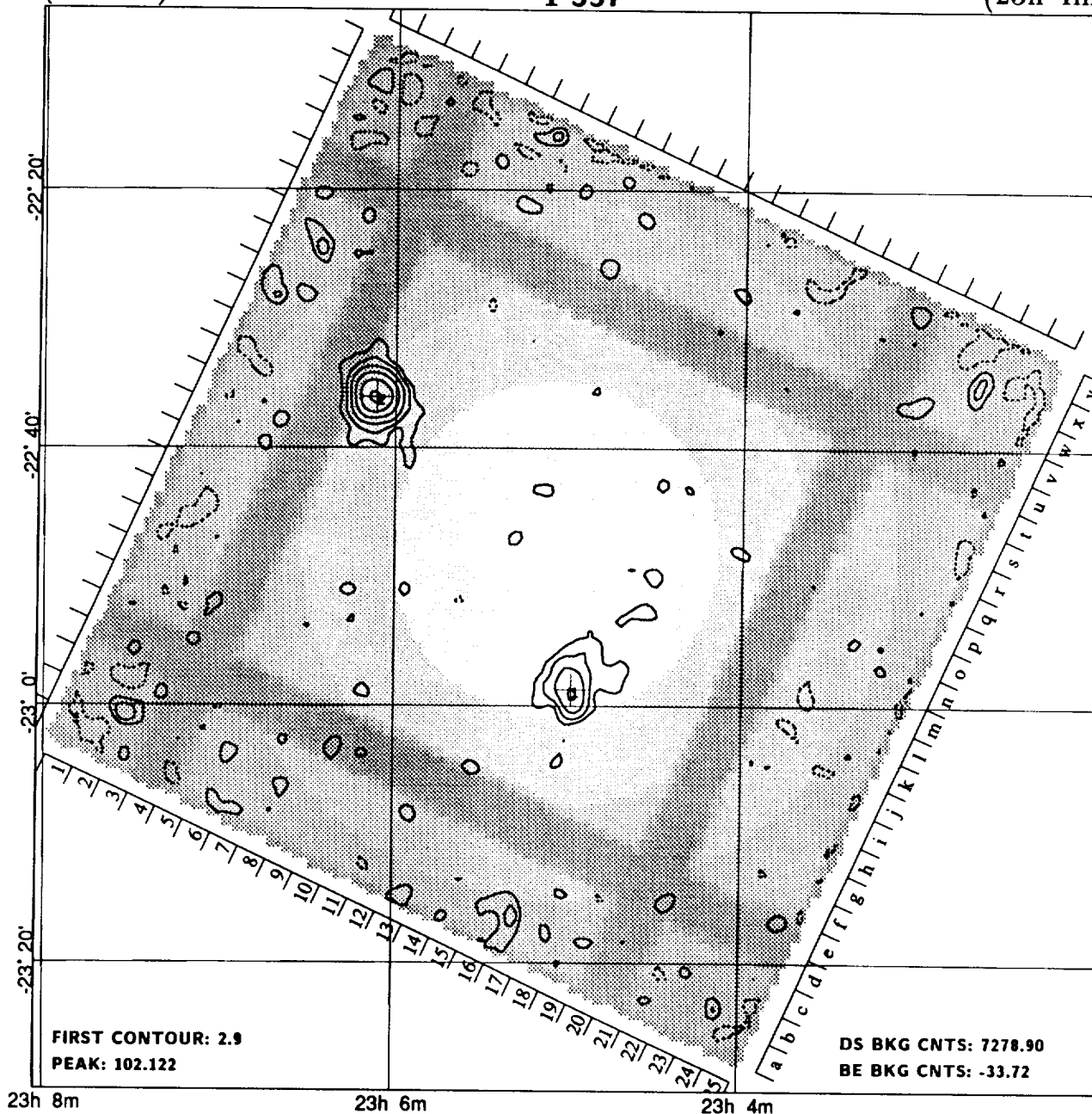
DATE: 1979/349 - 1979/349
 LIVETIME: 989.3s
 ROLL ANGLE: 106.0°

NH: 1.7E+21
 REF/ID:
 FIELD FLAGS:

(23h 4m)

I 337

(23h 4m)



A 2534 2536 2539 2540 2541 2546 SUPERCLUSTER STUDY

FIELD CENTER: $23^{\text{h}}04^{\text{m}}59.9^{\text{s}}$ $-22^{\circ}47'59''$ (B1950)
 $23^{\text{h}}07^{\text{m}}40.2^{\text{s}}$ $-22^{\circ}31'44''$ (J2000)
 $l: 38.27$ $b: -66.06$

DATE: 1979/145 - 1979/146
 LIVETIME: 5898.3s
 ROLL ANGLE: -65.2°

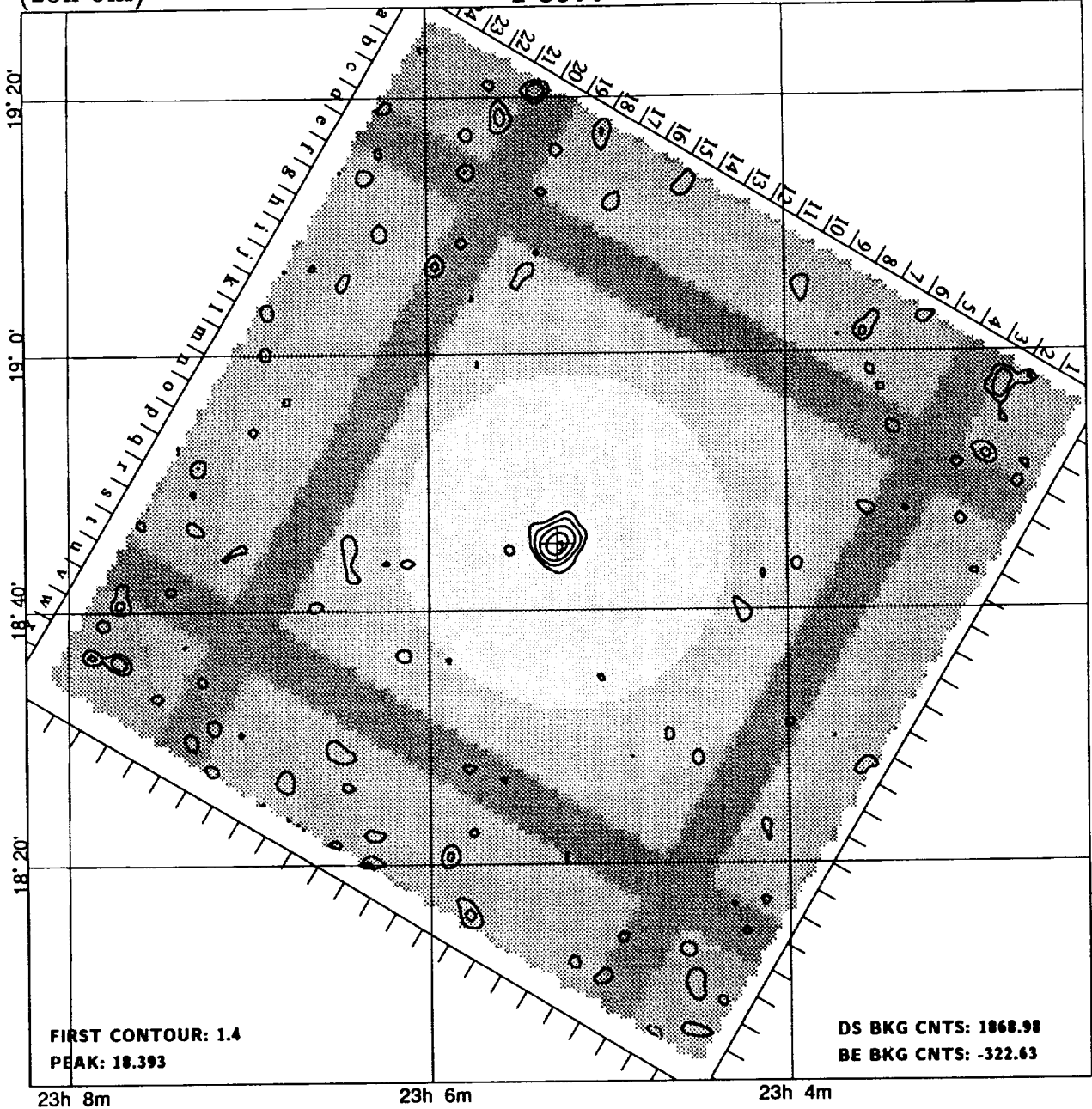
NH: $2.1E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4683	1	23 04 58.7	-22 58 45	38	0.0240	0.0027	92.9	17.1	8.9	1.8	0	10.5	H	AGN
4685	2	23 06 06.4	-22 36 03	47	0.1063	0.0059	335.2	10.8	18.0	1.4	400	19.6	AH	

(23h 5m)

I 3977

(23h 5m)



2305+187, BRIGHT NEARBY QUASAR

FIELD CENTER: $23^h 05^m 17.1^s$ $18^\circ 45' 05''$ (B1950)
 $23^h 07^m 45.5^s$ $19^\circ 01' 20''$ (J2000)
 $l: 91.56$ $b: -37.45$

DATE: 1980/ 1 - 1980/ 1
 LIVETIME: 1514.5s
 ROLL ANGLE: 120.7°

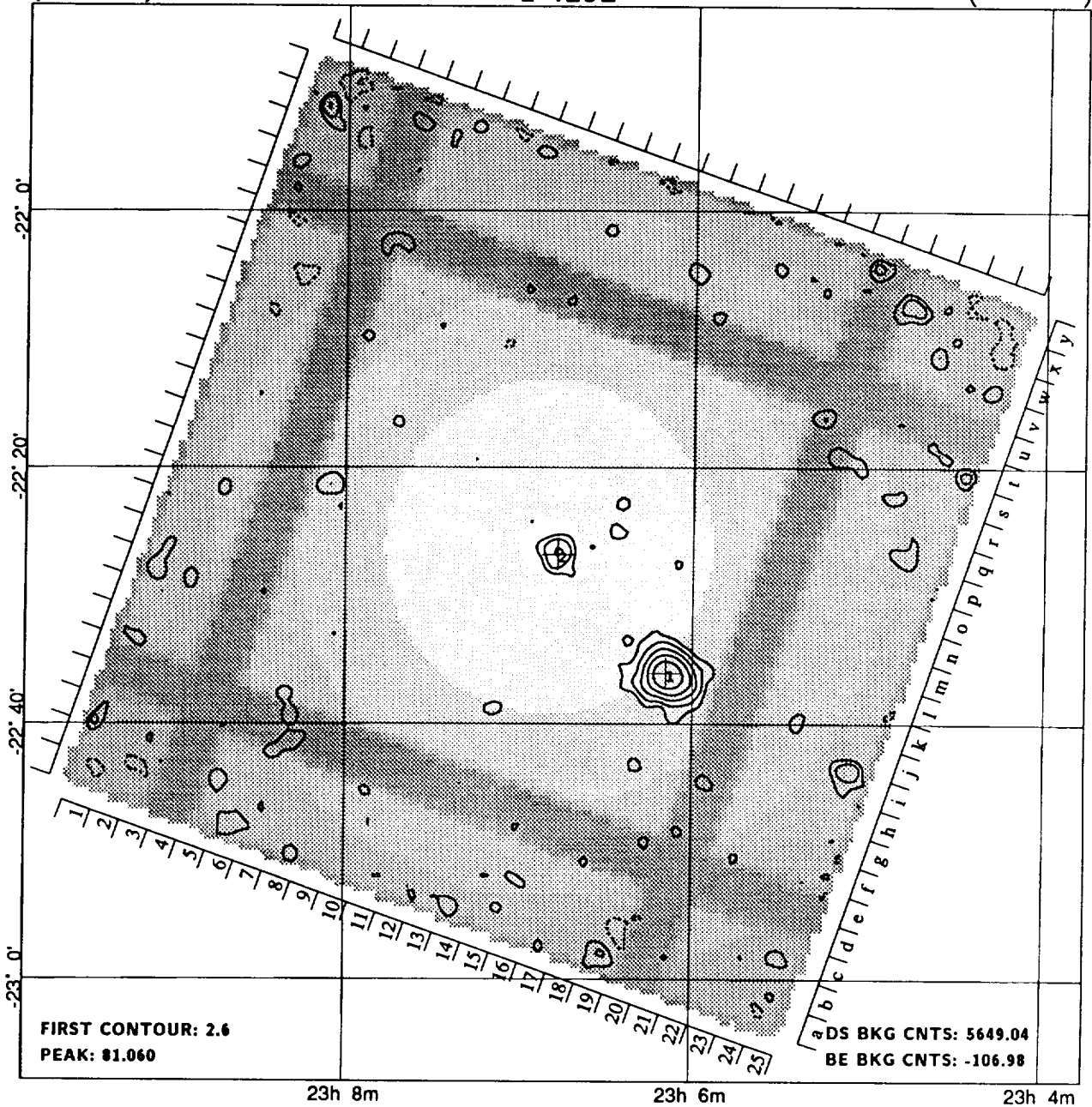
NH: $5.7E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4684	1	23 05 17.0	18 45 11	32	0.0633	0.0077	71.3	3.7	8.2	1.1	0	0.2	H

(23h 6m)

I 4292

(23h 6m)



23h 8m 23h 6m 23h 4m

A 2534 2536 2539 2540 2541 2546 SUPERCLUSTER STUDY

FIELD CENTER: $23^h 06^m 47.9^s$ $-22^\circ 25' 59''$ (B1950)
 $23^h 09^m 27.8^s$ $-22^\circ 09' 42''$ (J2000)
 $l: 39.44$ $b: -66.35$

DATE: 1979/144 - 1979/144
 LIVETIME: 4577.6s
 ROLL ANGLE: -70.7°

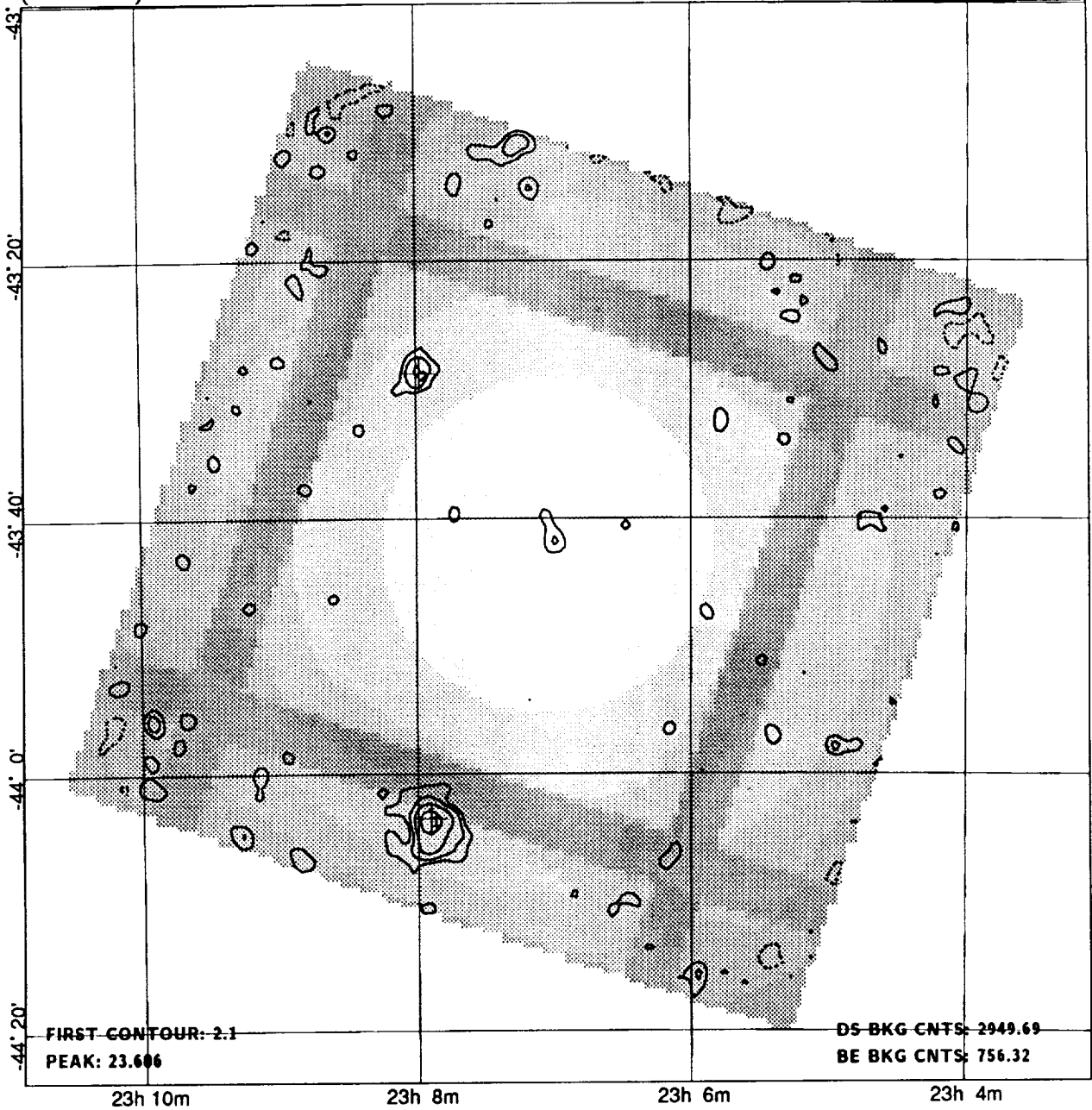
NH: $2.1E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4685	1	23 06 09.1	-22 36 02	38	0.0962	0.0060	271.0	10.0	16.2	1.4	0	13.4	AH
4686	2	23 06 46.7	-22 26 46	35	0.0136	0.0023	46.4	14.6	5.9	0.9	0	0.8	H

(23h 6m)

I 435

(23h 6m)



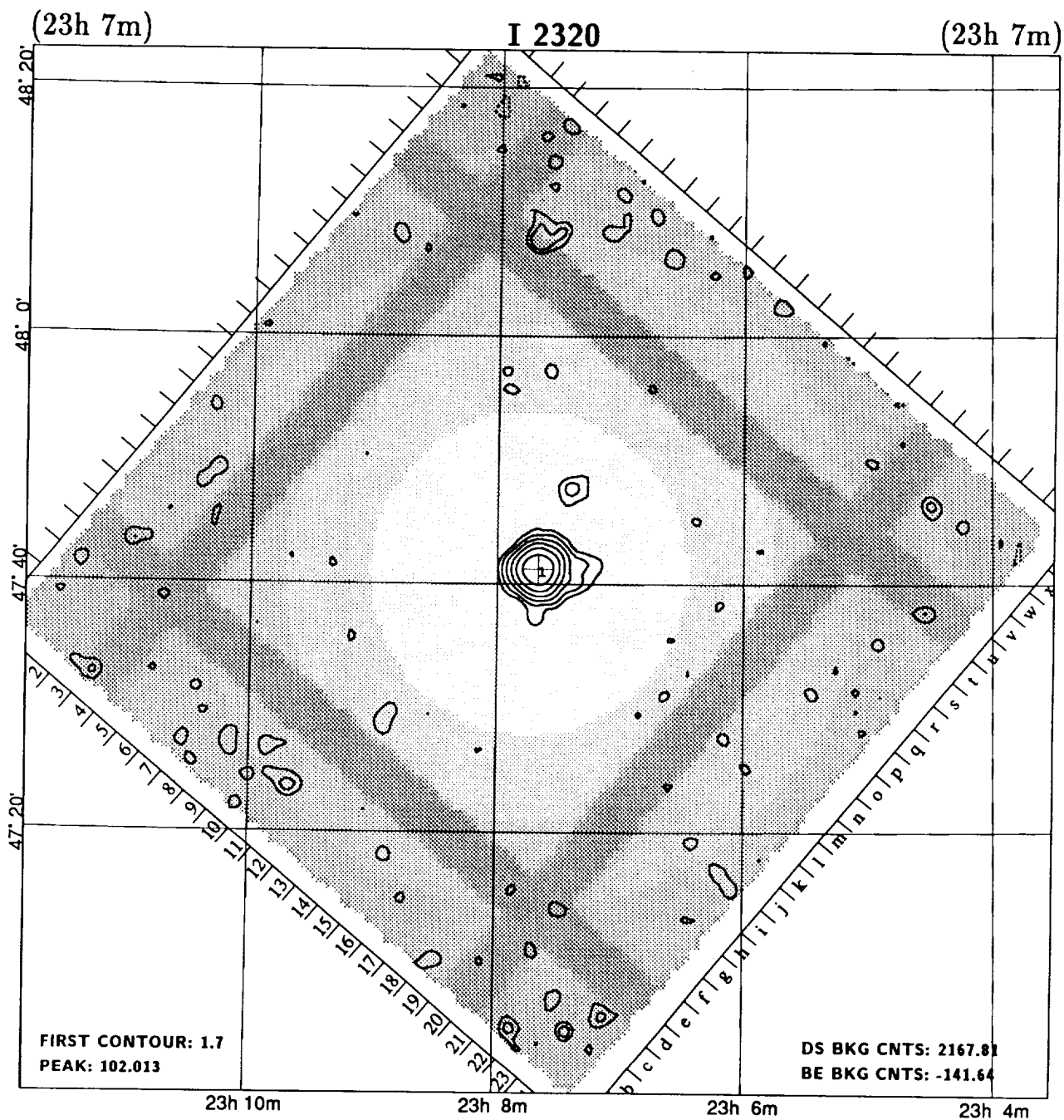
NGC 7496 ABNORMAL GALAXIES SURVEY

FIELD CENTER: $23^h 06^m 58.6^s$ $-43^\circ 41' 59''$ (B1950)
 $23^h 09^m 46.6^s$ $-43^\circ 25' 42''$ (J2000)
 $l: 347.84$ $b: -63.80$

DATE: 1979/141 - 1980/157
 LIVETIME: 2390.2s

NH: $2.0E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4689	1	23 07 54.3	-44 03 30	50	*0.0562	0.0075	61.5	5.5	7.5	2.0	803	23.6	H
4690	2	23 07 58.5	-43 28 42	51	0.0191	0.0043	25.5	7.5	4.4	0.9	0	17.3	H



HD21838: STELLAR SURVEY: RS CVN AND BY DRA STARS

FIELD CENTER: $23^h 07^m 39.6^s$ $47^\circ 40' 58''$ (B1950)
 $23^h 09^m 57.0^s$ $47^\circ 57' 15''$ (J2000)
 $l: 105.90$ $b: -11.53$

DATE: 1979/193 - 1979/193

LIVETIME: 1756.6s

ROLL ANGLE: -50.2°

NH: $1.4E+21$

REF/ID:

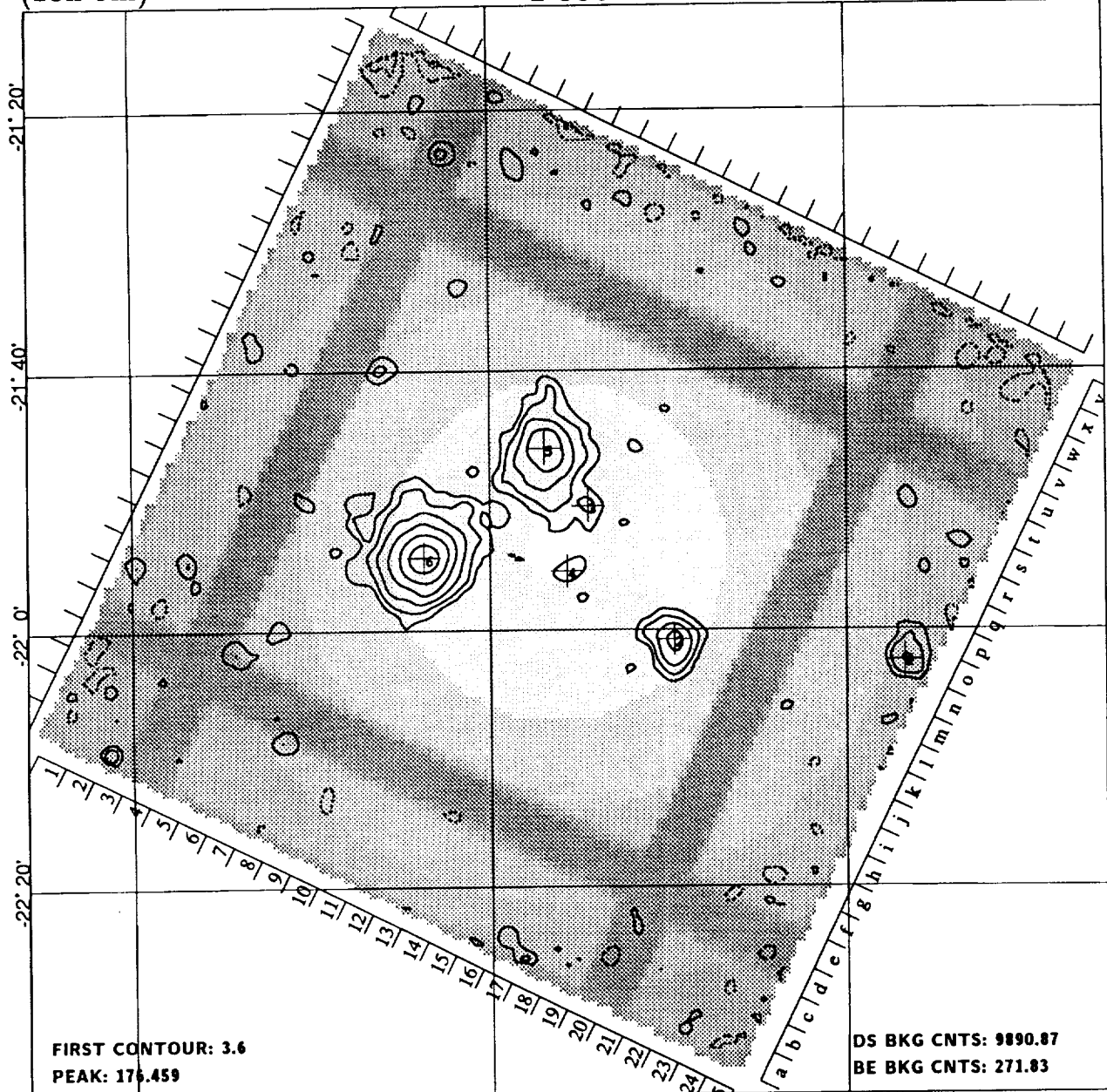
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4687	1	23 07 40.1	47 41 12	31	0.366	0.017	479.4	4.6	21.8	1.4	0	0.4	H	S

(23h 9m)

I 336

(23h 9m)



A 2547 2548 2550 2554 2555 2556 SUPERCLUSTER STUDY

FIELD CENTER: $23^h 09^m 33.9^s$ $-21^\circ 53' 59''$ (B1950)
 $23^h 12^m 13.4^s$ $-21^\circ 37' 40''$ (J2000)
 $l: 41.21$ $b: -66.79$

DATE: 1979/141 - 1979/142
 LIVETIME: 8014.8s
 ROLL ANGLE: -63.9°

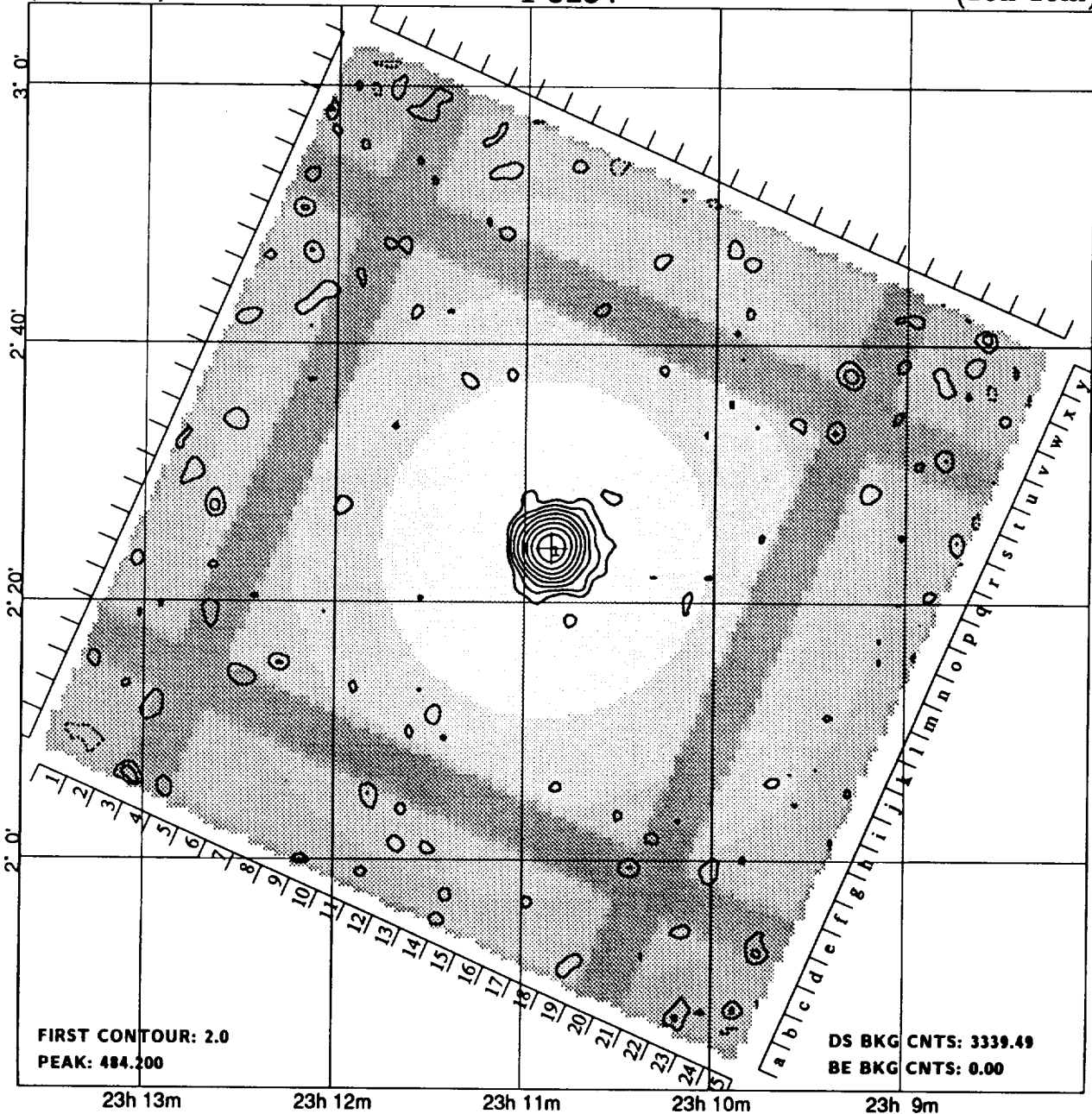
NH: $2.1E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4688	1	23 07 40.7	-22 02 25	53	0.0124	0.0024	37.6	16.4	5.1	1.2	200	27.8	H	
4691	2	23 08 58.0	-22 00 46	38	0.0246	0.0023	128.1	20.9	10.5	1.4	0	10.6	H	
4692	3	23 09 26.9	-21 50 31	36	0.0059	0.0013	33.9	26.1	4.4	19.8	0	3.9	H	
4693	4	23 09 34.0	-21 55 28	41	0.0046	0.0013	27.4	28.6	3.7	0.5	0	1.3	H	
4694	5	23 09 41.6	-21 46 04	38	0.0467	0.0031	257.7	25.3	15.3	2.7	0	8.1	H	
4695	6	23 10 22.2	-21 54 25	37	0.1425	0.0053	754.6	21.4	27.1	2.2	0	11.3	H	

(23h 10m)

I 3234

(23h 10m)



RS CVN SYSTEMS: SZ PSC

FIELD CENTER: $23^h 10^m 50.3^s$ $02^\circ 24' 09''$ (B1950)
 $23^h 13^m 23.5^s$ $02^\circ 40' 30''$ (J2000)
 $l: 80.66$ $b: -51.96$

DATE: 1979/168 - 1979/168
 LIVETIME: 2706.1s
 ROLL ANGLE: -46.2°

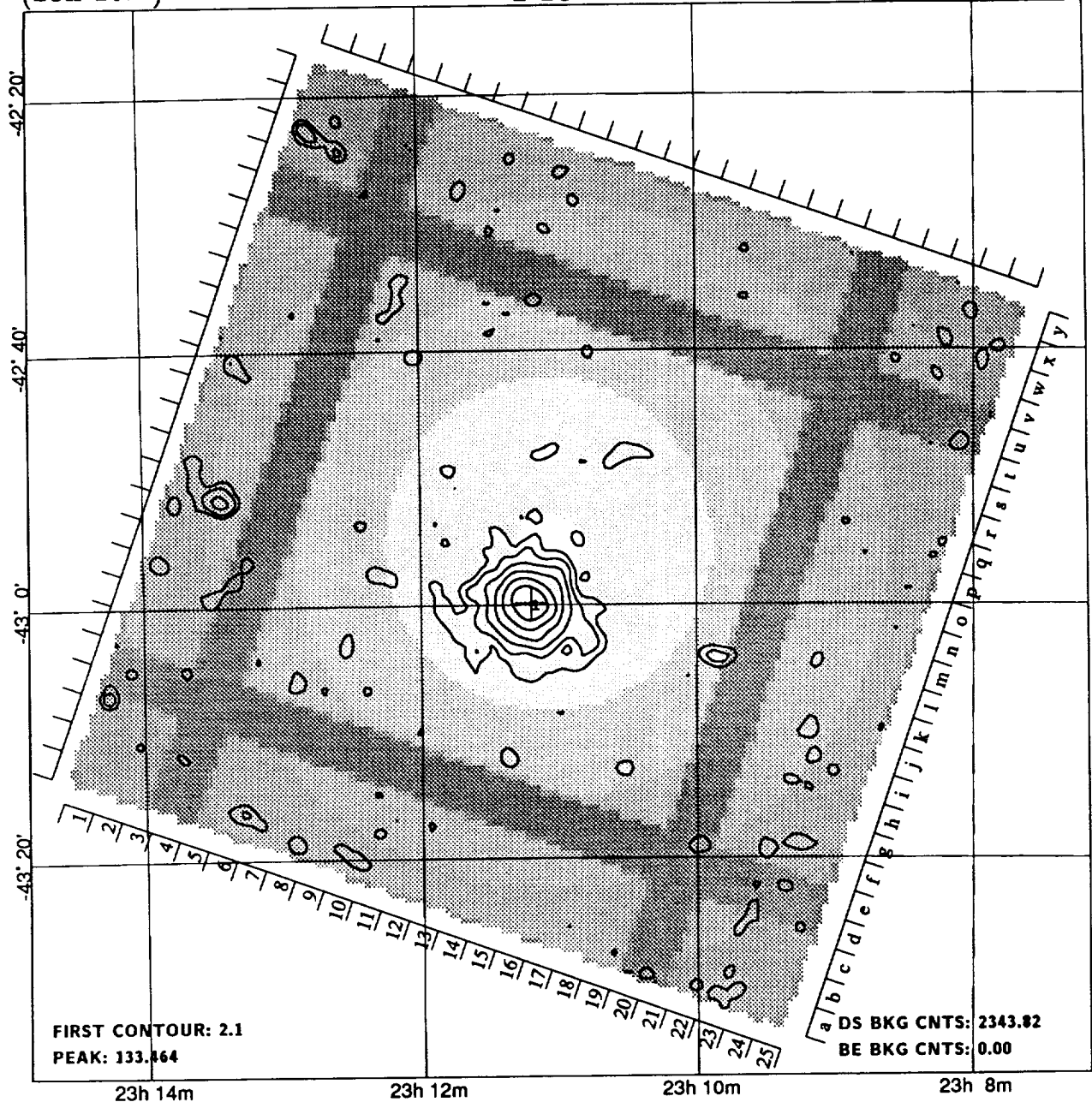
NH: $4.9E+20$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4697	1L	23 10 51.6	02 24 11	31	0.976	0.026	1969.5	193.5	37.4	1.3	0	0.3	CV	

(23h 10m)

I 1874

(23h 10m)



X-RAY STUDY OF CLUSTERS OF GALAXIES

FIELD CENTER: $23^h 10^m 59.8^s$ $-42^\circ 54' 59''$ (B1950)
 $23^h 13^m 46.3^s$ $-42^\circ 38' 38''$ (J2000)
 $l: 348.56$ $b: -64.82$

DATE: 1980/157 - 1980/157
 LIVETIME: 1899.3s
 ROLL ANGLE: -70.7°

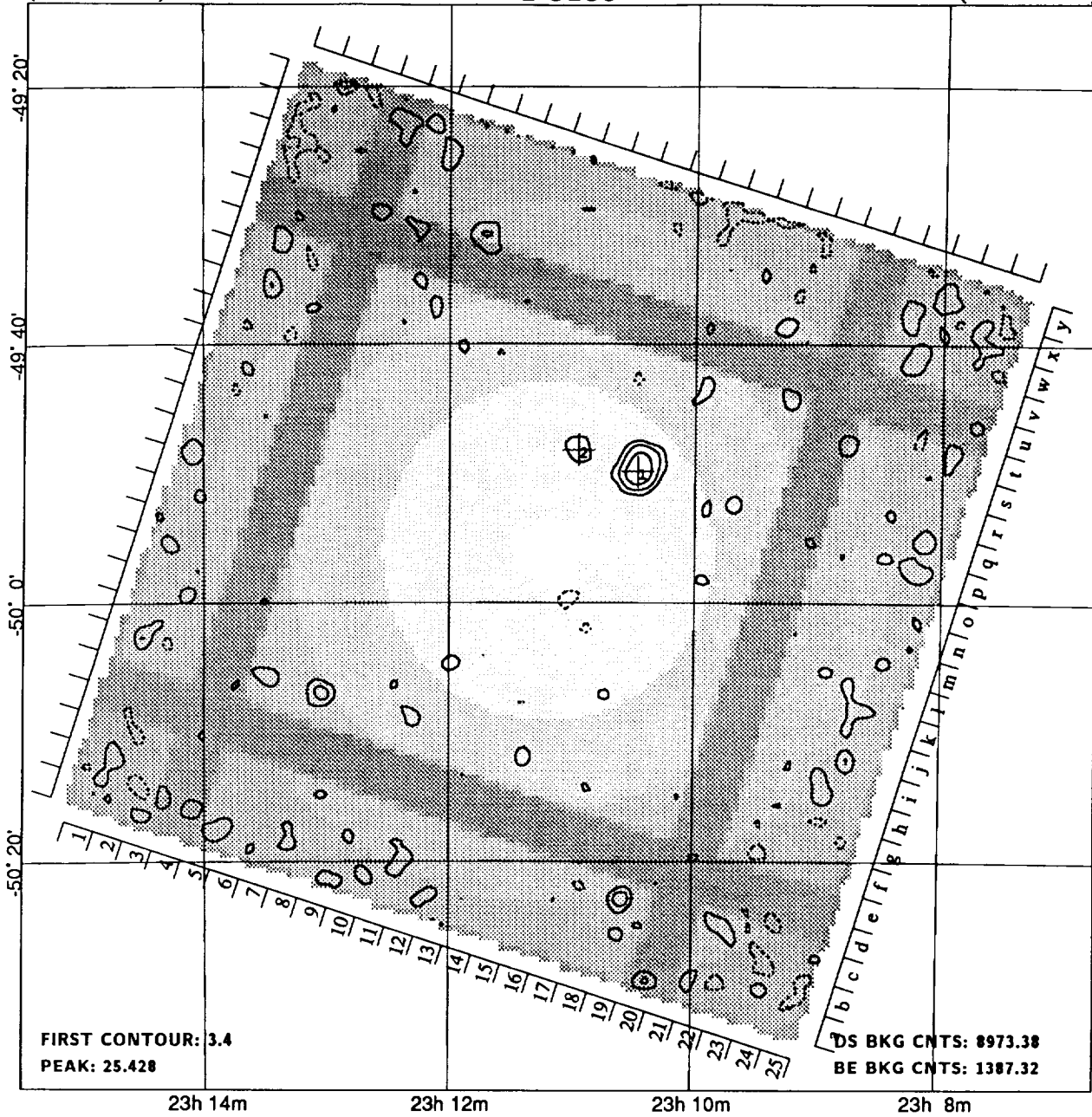
NH: $1.9E+20$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4699	1L	23 11 12.0	-42 59 48	37	0.298	0.021	405.5	187.5	13.9	2.1	0	5.3	A	CLG

(23h 11m)

I 5159

(23h 11m)



GAMMA RAY BURST SOURCE FIELDS #3

FIELD CENTER: $23^h 11^m 06.7^s$ $-49^\circ 55' 47''$ (B1950)
 $23^h 13^m 56.8^s$ $-49^\circ 39' 26''$ (J2000)
 $l: 336.05$ $b: -60.73$

DATE: 1980/157 - 1980/158
 LIVETIME: 7271.4s
 ROLL ANGLE: -72.4°

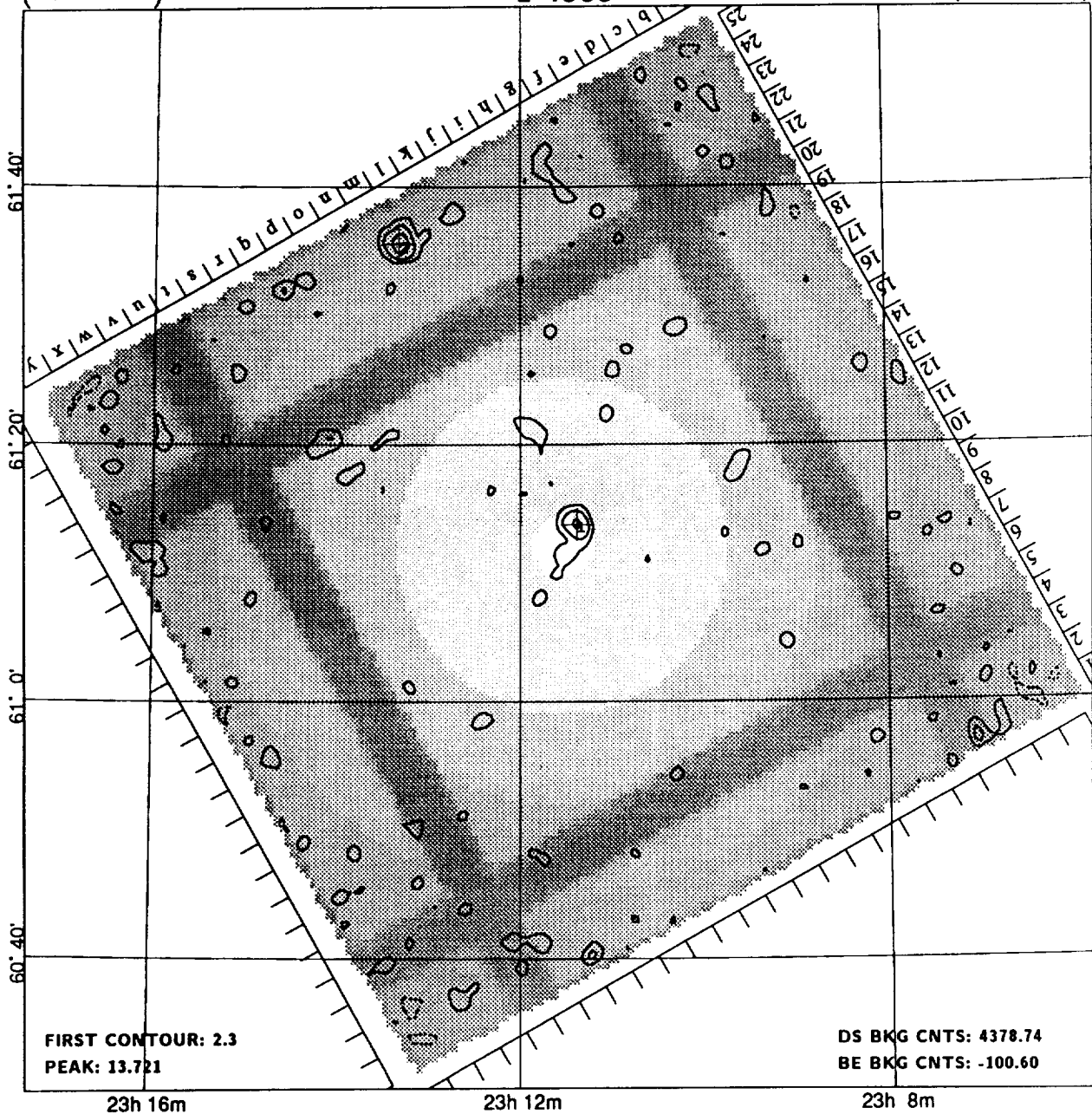
NH: $1.7E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4696	1	23 10 27.8	-49 49 47	38	0.0209	0.0023	102.1	22.9	9.1	1.1	0	8.9	H
4698	2	23 10 56.8	-49 48 06	43	0.0063	0.0015	31.1	24.9	4.2	0.6	0	8.1	

(23h 11m)

I 4585

(23h 11m)



NGC 7538 H II REGION/MOLECULAR CLOUD COMPLEX

FIELD CENTER: 23^h11^m34.8^s 61°11'59" (B1950)
 23^h13^m43.5^s 61°28'20" (J2000)
 l : 111.54 b : 0.78

DATE: 1980/ 36 - 1980/ 36
 LIVETIME: 3548.2s
 ROLL ANGLE: 150.8°

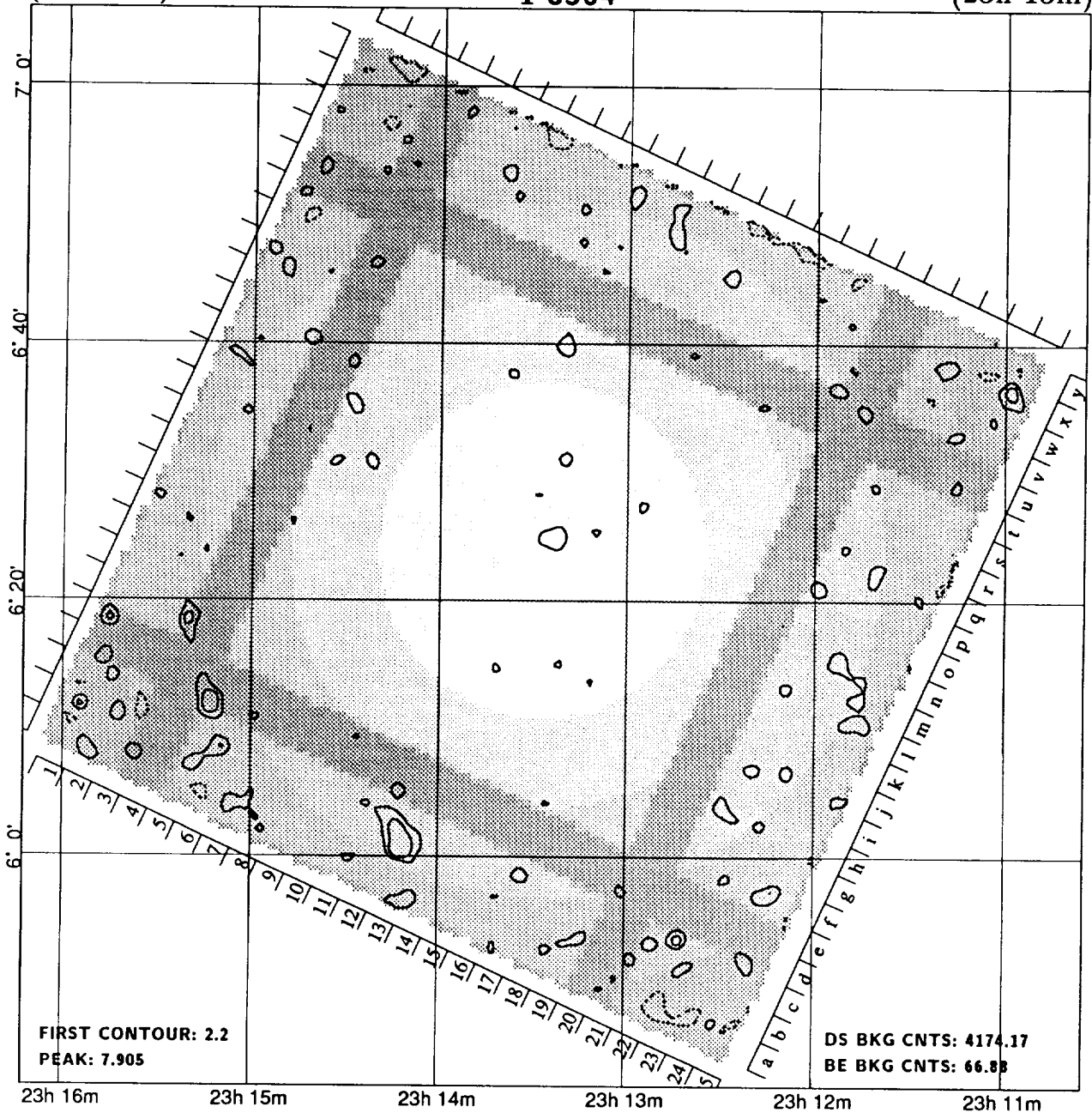
NH: 7.7E+21
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4700	1	23 11 22.8	61 13 47	35	0.0116	0.0025	30.3	12.7	4.6	1.1	0	2.5		
4703	2	23 13 20.1	61 35 34	51	0.0171	0.0039	24.4	6.6	4.4	1.0	0	26.7	H	S

(23h 13m)

I 8364

(23h 13m)



N 7562, ELLIPTICAL GALAXIES W/LARGE VELOCITY DISPERSIONS

FIELD CENTER: $23^h 13^m 23.7^s$ $06^\circ 23' 59''$ (B1950)
 $23^h 15^m 56.0^s$ $06^\circ 40' 22''$ (J2000)
 $l: 85.09$ $b: -49.05$

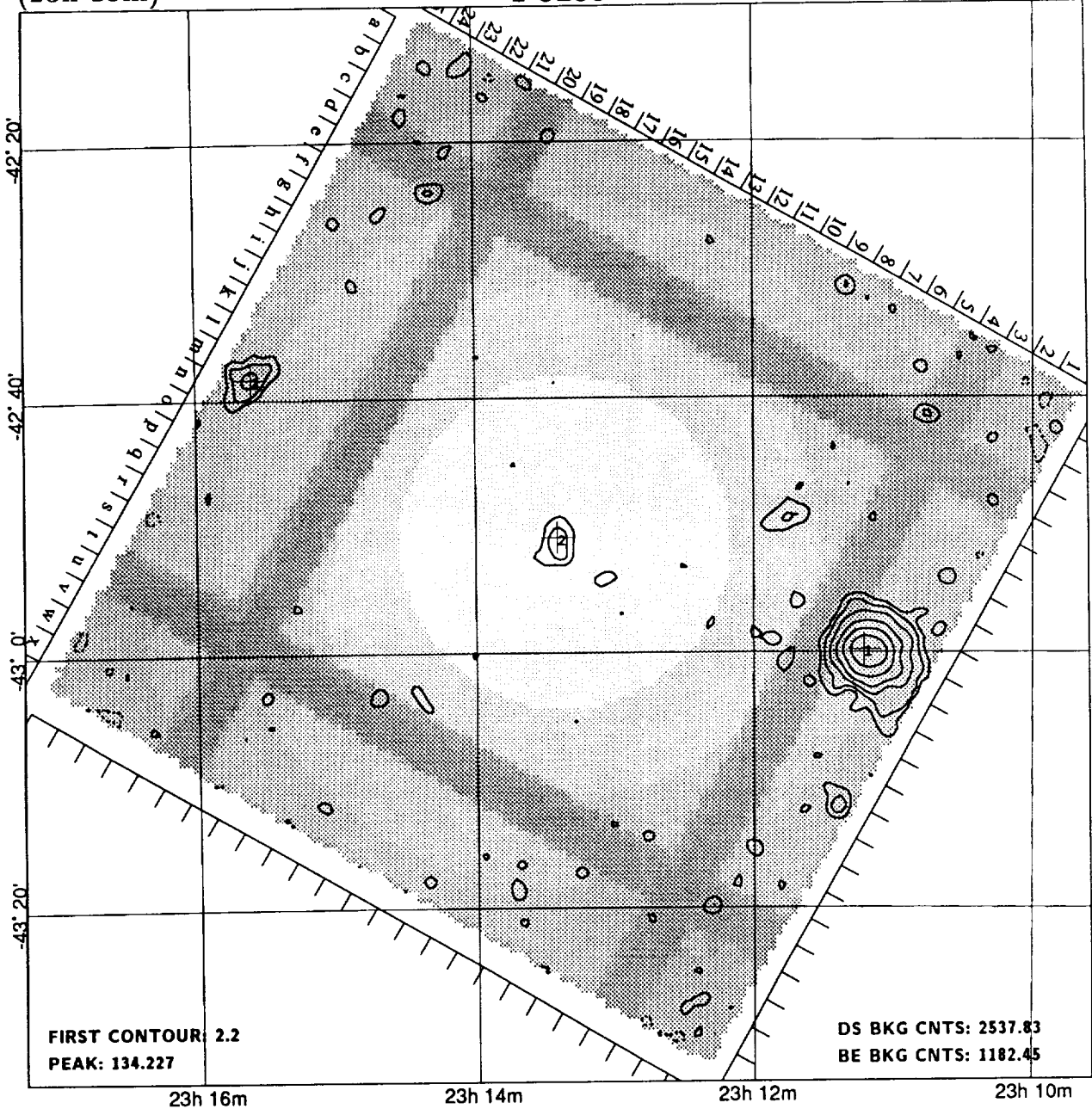
DATE: 1980/153 - 1980/153
 LIVETIME: 3382.4s
 ROLL ANGLE: -65.5°

NH: $5.7E+20$
 REF/ID: !
 FIELD FLAGS:

(23h 13m)

I 5259

(23h 13m)



NGC 7552,X-RAY AND OPTICAL STUDY OF NEARBY EMISSION-LINE GALAXIES

FIELD CENTER: $23^{\text{h}} 13^{\text{m}} 24.8^{\text{s}}$ $-42^{\circ} 51' 29''$ (B1950)
 $23^{\text{h}} 16^{\text{m}} 10.7^{\text{s}}$ $-42^{\circ} 35' 06''$ (J2000)
 $l: 348.14$ $b: -65.24$

DATE: 1979/324 - 1979/324
 LIVETIME: 2056.5s
 ROLL ANGLE: 119.7°

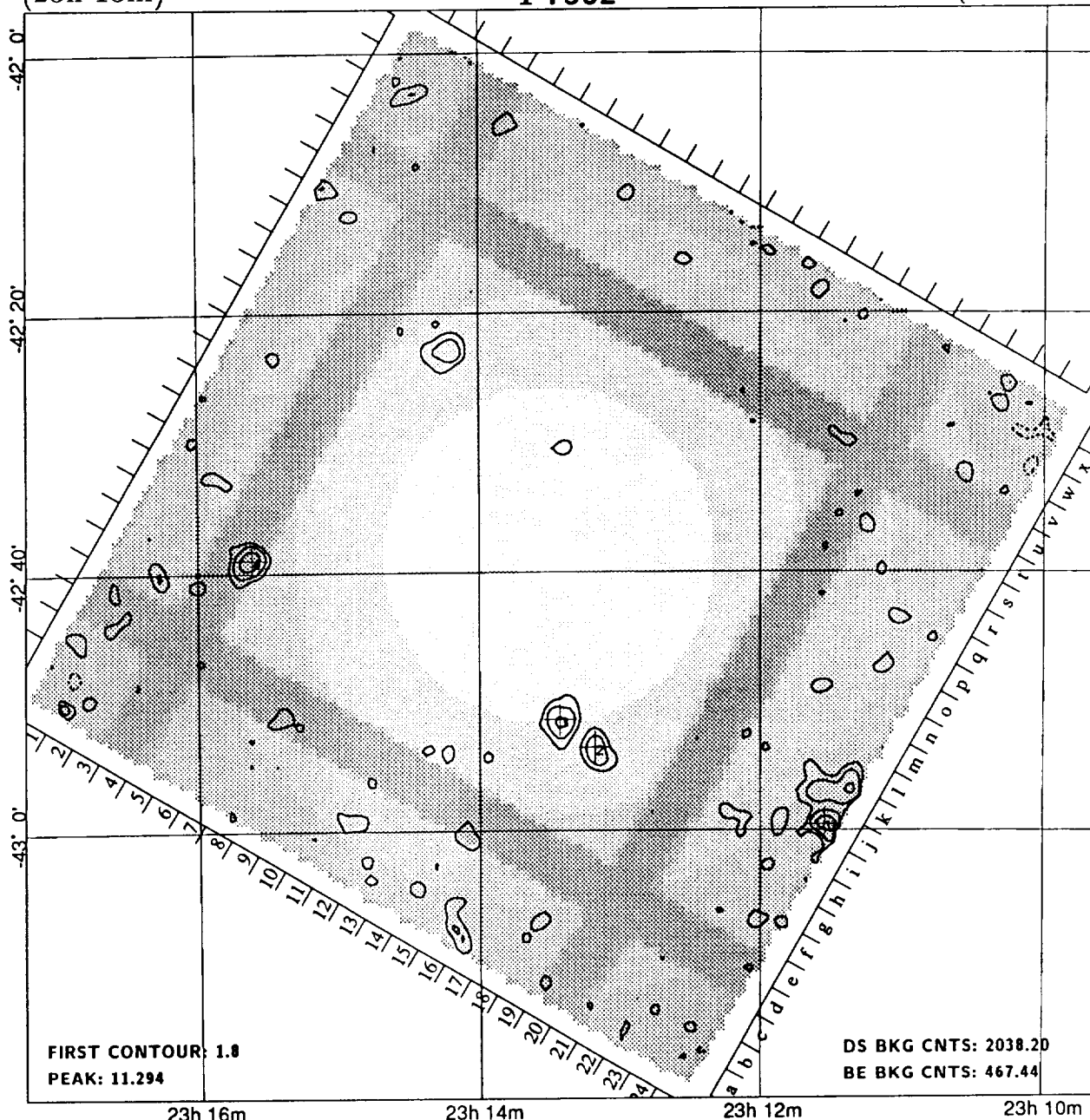
NH: $1.9\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4699	1	23 11 12.6	-42 59 47	47	*0.392	0.021	347.1	5.9	18.5	2.0	501	25.6	AH	CLG
4704	2	23 13 24.9	-42 50 56	36	0.0151	0.0038	23.2	10.8	4.0	1.0	0	0.4	AH	G
4706	3	23 15 36.2	-42 38 23	54	0.0269	0.0067	21.0	6.0	4.0	1.2	200	27.6	AH	G

(23h 13m)

I 7582

(23h 13m)



NGC 7552, NARROW LINE GALAXIES

FIELD CENTER: $23^h 13^m 24.8^s$ $-42^\circ 38' 41''$ (B1950)
 $23^h 16^m 10.6^s$ $-42^\circ 22' 18''$ (J2000)
 $l: 348.58$ $b: -65.34$

DATE: 1980/138 - 1980/138
 LIVETIME: 1651.6s
 ROLL ANGLE: -59.9°

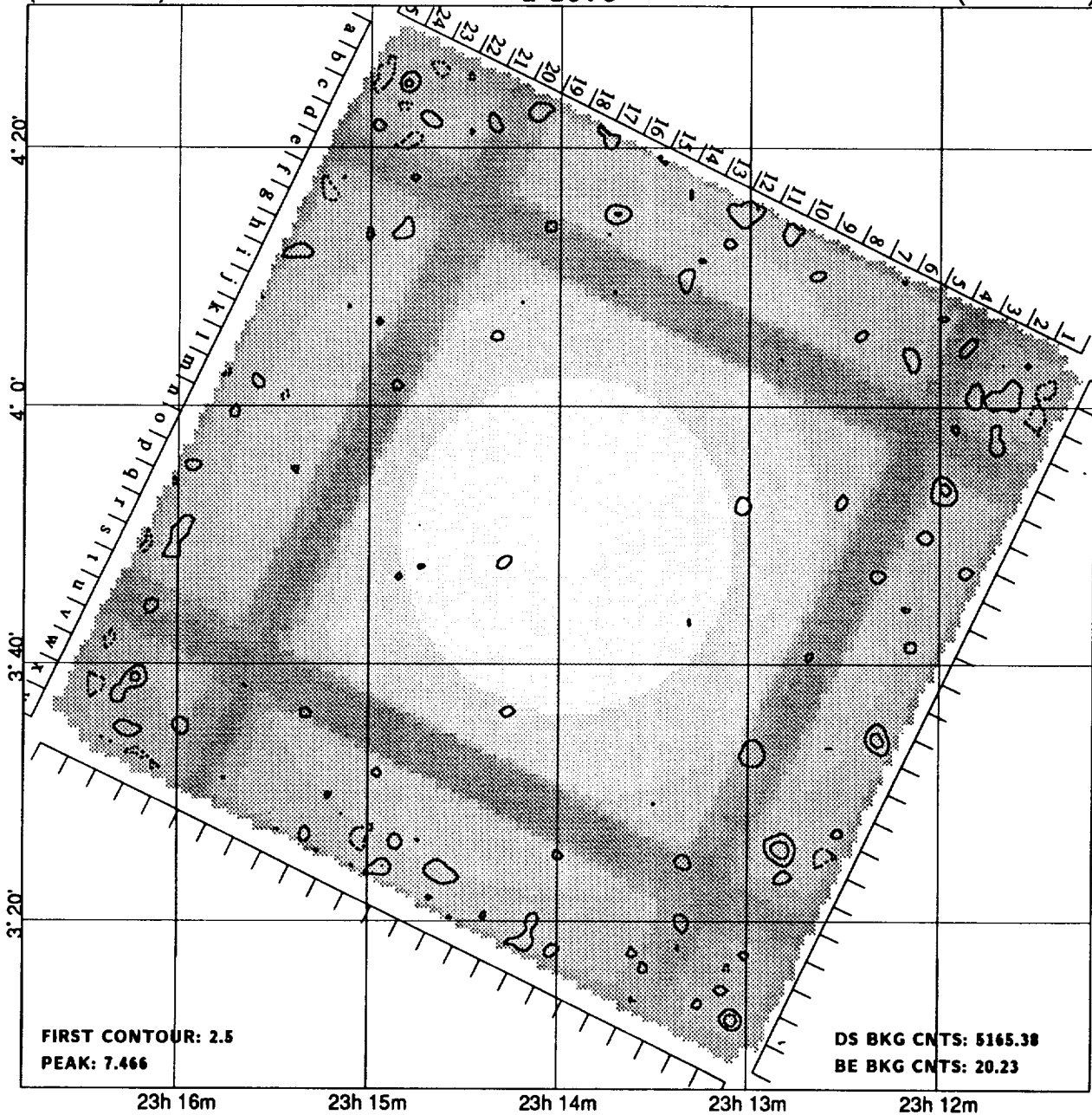
NH: $1.9E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4701	1	23 11 32.5	-42 59 31	53	*0.0354	0.0094	17.6	4.4	3.8	2.3	501	29.2	EH
4702	2	23 13 10.6	-42 53 33	44	0.0199	0.0051	19.3	4.7	3.9	1.0	0	14.8	H
4704	3	23 13 25.5	-42 51 23	42	0.0272	0.0056	28.4	5.6	4.9	1.0	0	12.4	AH G
4706	4	23 15 37.1	-42 38 57	51	*0.0333	0.0071	25.0	3.0	4.7	0.9	1208	24.4	A G

(23h 13m)

I 1979

(23h 13m)



FIRST CONTOUR: 2.5
 PEAK: 7.466

DS BKG CNTS: 5165.38
 BE BKG CNTS: 20.23

3C 459: SEYFERT AND N-TYPE GALAXIES

FIELD CENTER: $23^{\text{h}}13^{\text{m}}59.8^{\text{s}}$ $03^{\circ}48'59''$ (B1950)
 $23^{\text{h}}16^{\text{m}}32.6^{\text{s}}$ $04^{\circ}05'23''$ (J2000)
 $l: 83.03$ $b: -51.28$

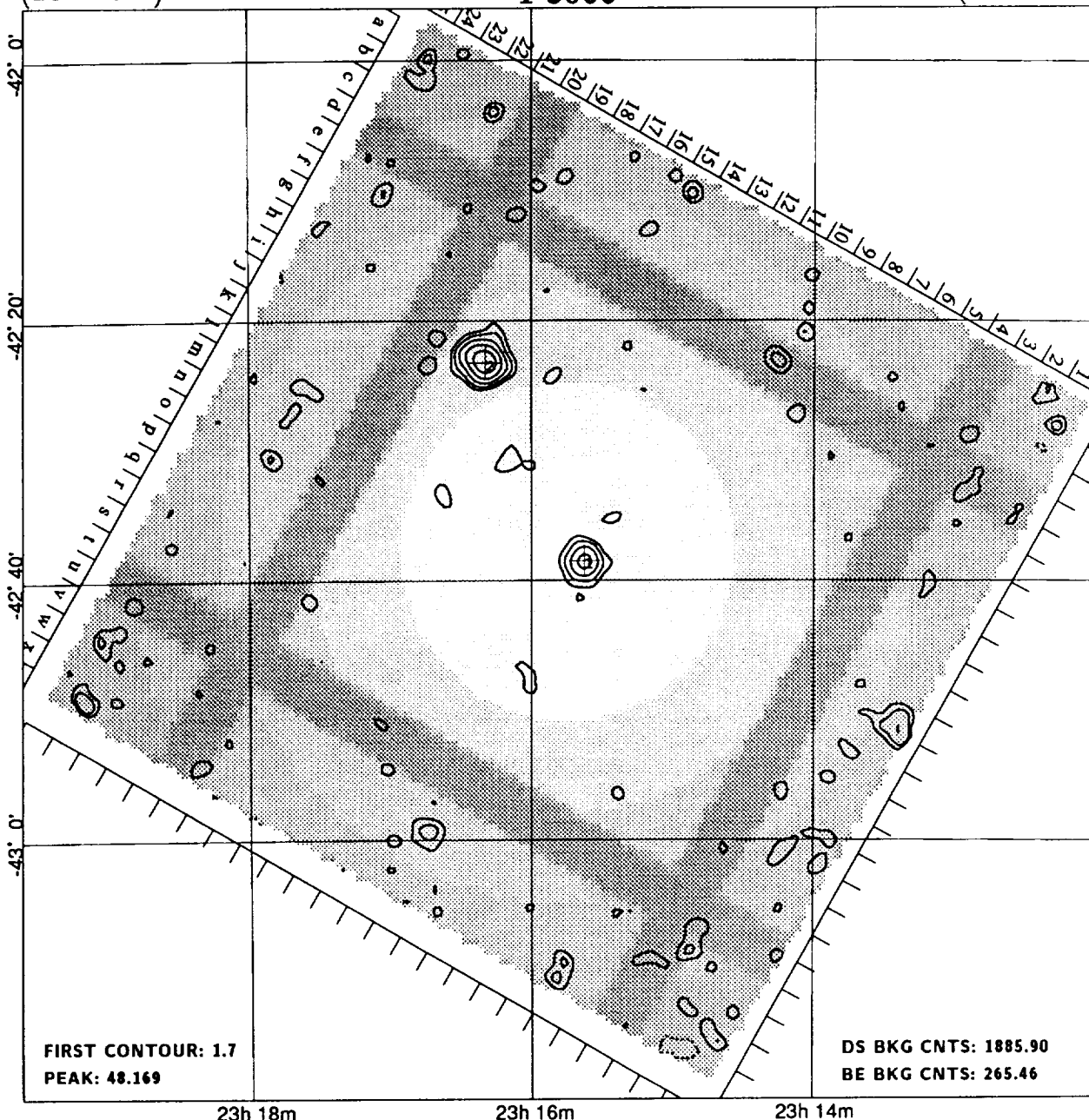
DATE: 1980/353 - 1991/ 6
 LIVETIME: 4185.6s
 ROLL ANGLE: 115.9°

NH: $5.1\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(23h 15m)

I 3066

(23h 15m)



NGC 7582: NARROW EMISSION LINE GALAXIES

FIELD CENTER: $23^{\text{h}}15^{\text{m}}47.8^{\text{s}}$ $-42^{\circ}37'59''$ (B1950)
 $23^{\text{h}}18^{\text{m}}33.0^{\text{s}}$ $-42^{\circ}21'34''$ (J2000)
 $l: 348.06$ $b: -65.73$

DATE: 1979/325 - 1979/325
 LIVETIME: 1528.2s
 ROLL ANGLE: 119.7°

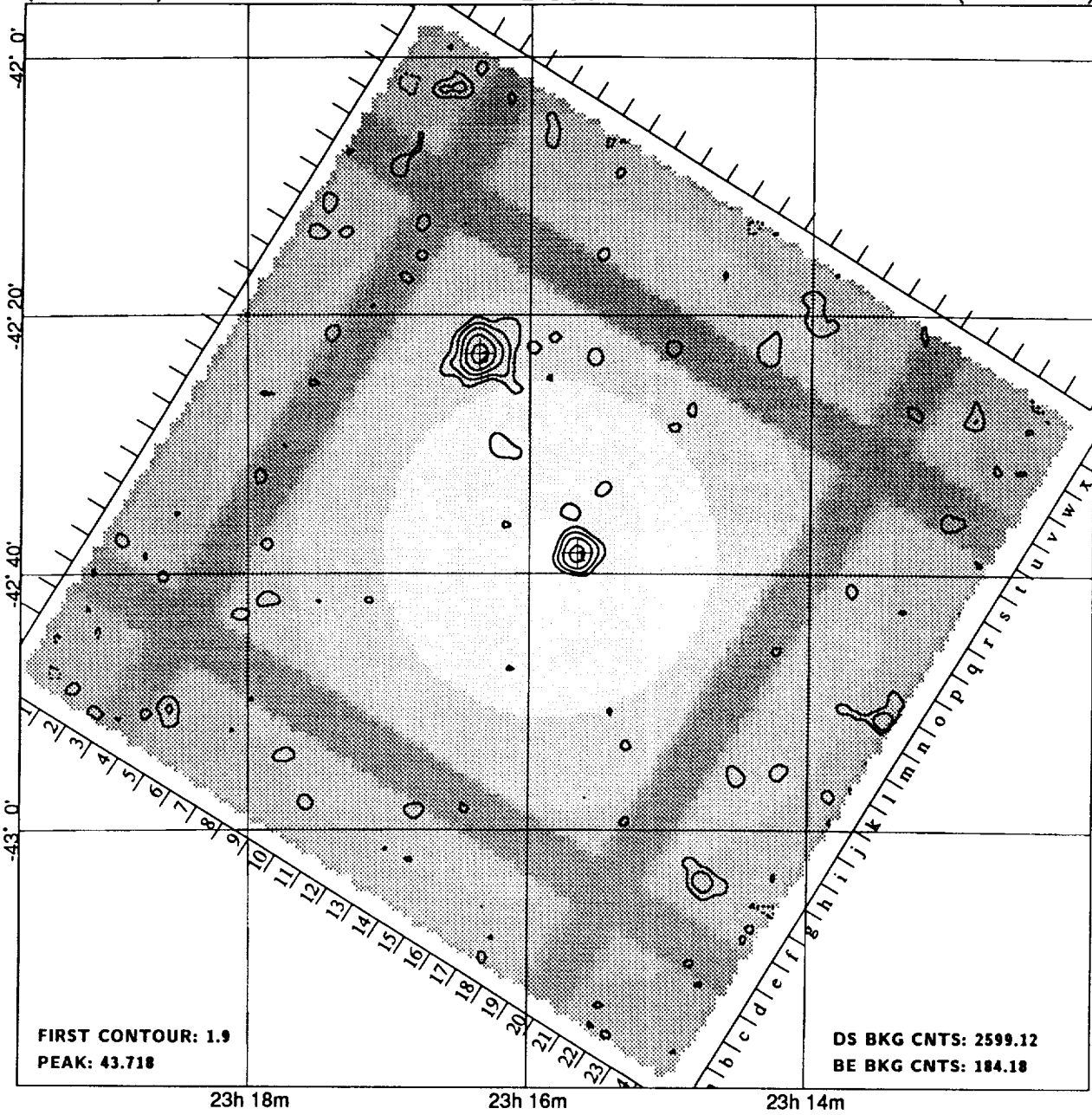
NH: $2.0\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4706	1	23 15 37.5	-42 38 31	34	0.0512	0.0070	58.0	5.0	7.3	1.0	0	2.0	AH G
4709	2	23 16 19.5	-42 23 14	48	0.150	0.013	132.2	3.8	11.3	1.1	0	16.0	AH *

(23h 15m)

I 3067

(23h 15m)



NGC 7582: NARROW EMISSION LINE GALAXIES

FIELD CENTER: 23^h 15^m 47.8^s -42° 37' 59" (B1950)
 23^h 18^m 33.0^s -42° 21' 34" (J2000)
 l : 348.06 b : -65.73

DATE: 1980/136 - 1980/136
 LIVETIME: 2106.1s
 ROLL ANGLE: -58.4°

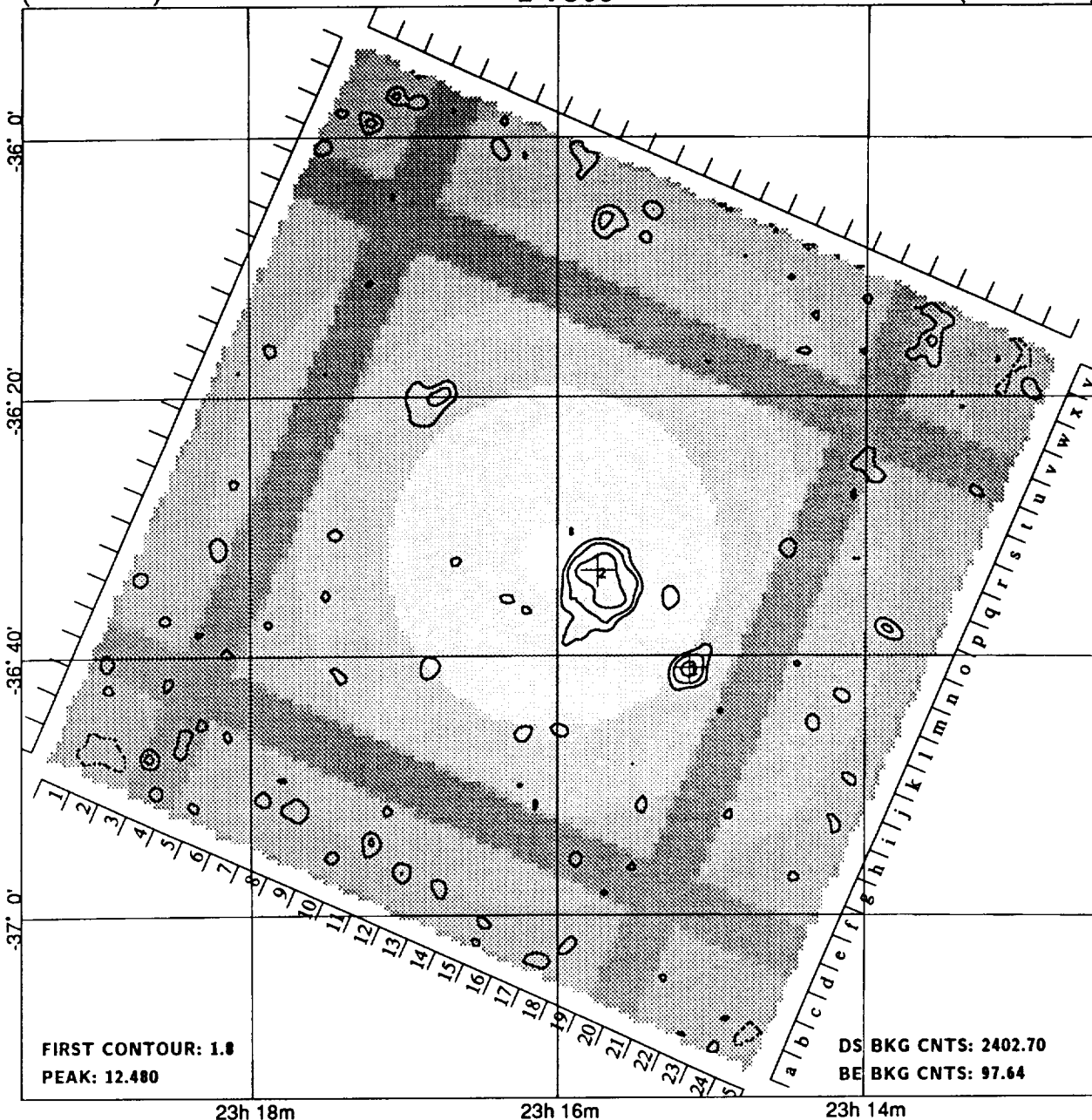
NH: 2.0E+20
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4706	1	23 15 39.4	-42 38 24	32	0.0497	0.0059	77.2	6.8	8.4	1.0	0	1.5	AH	G
4709	2	23 16 21.5	-42 23 02	48	0.1020	0.0094	123.1	5.9	10.8	1.3	0	16.1	AH	*

(23h 15m)

I 7569

(23h 15m)



2316-3632,SURVEY OF SOUTHERN CLUSTERS

FIELD CENTER: 23^h15^m59.8^s -36°31'59" (B1950)
 23^h18^m42.7^s -36°15'34" (J2000)
 $l: 2.24$ $b: -68.34$

DATE: 1980/152 - 1980/152
 LIVETIME: 1947.0s
 ROLL ANGLE: -66.3°

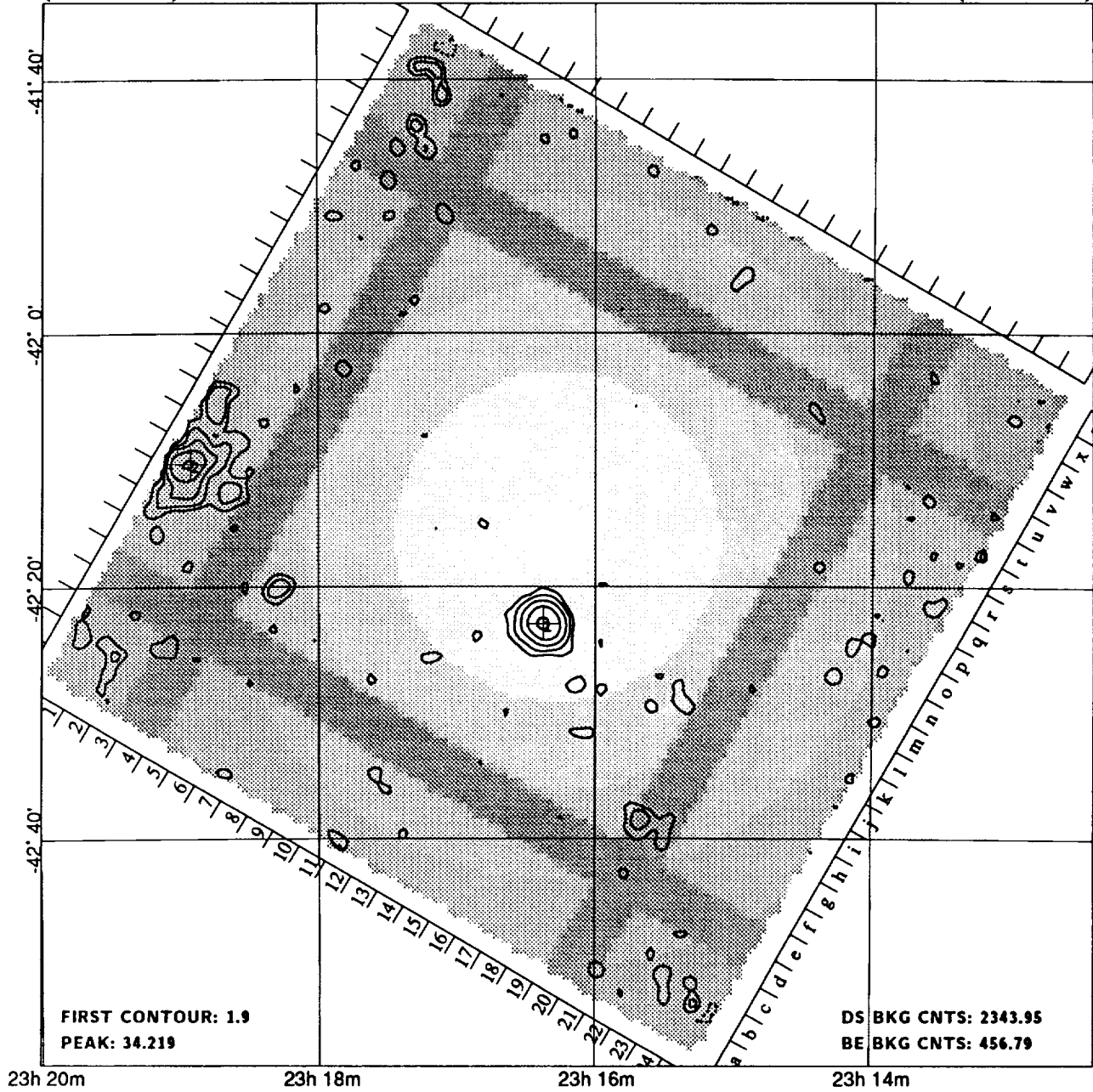
NH: 1.7E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4705	1	23 15 08.4	-36 40 54	42	0.0234	0.0048	28.0	5.0	4.9	0.9	0	13.4	H
4707	2	23 15 44.3	-36 33 23	35	0.0404	0.0056	57.1	5.9	7.2	2.7	0	3.5	H

(23h 16m)

I 6218

(23h 16m)



2316-4216, SURVEY OF SOUTHERN CLUSTERS

FIELD CENTER: $23^h 16^m 11.7^s$ $-42^\circ 16' 00''$ (B1950)
 $23^h 18^m 56.6^s$ $-41^\circ 59' 35''$ (J2000)
 $l: 348.74$ $b: -65.98$

DATE: 1980/157 - 1980/158
 LIVETIME: 1899.4s
 ROLL ANGLE: -60.0°

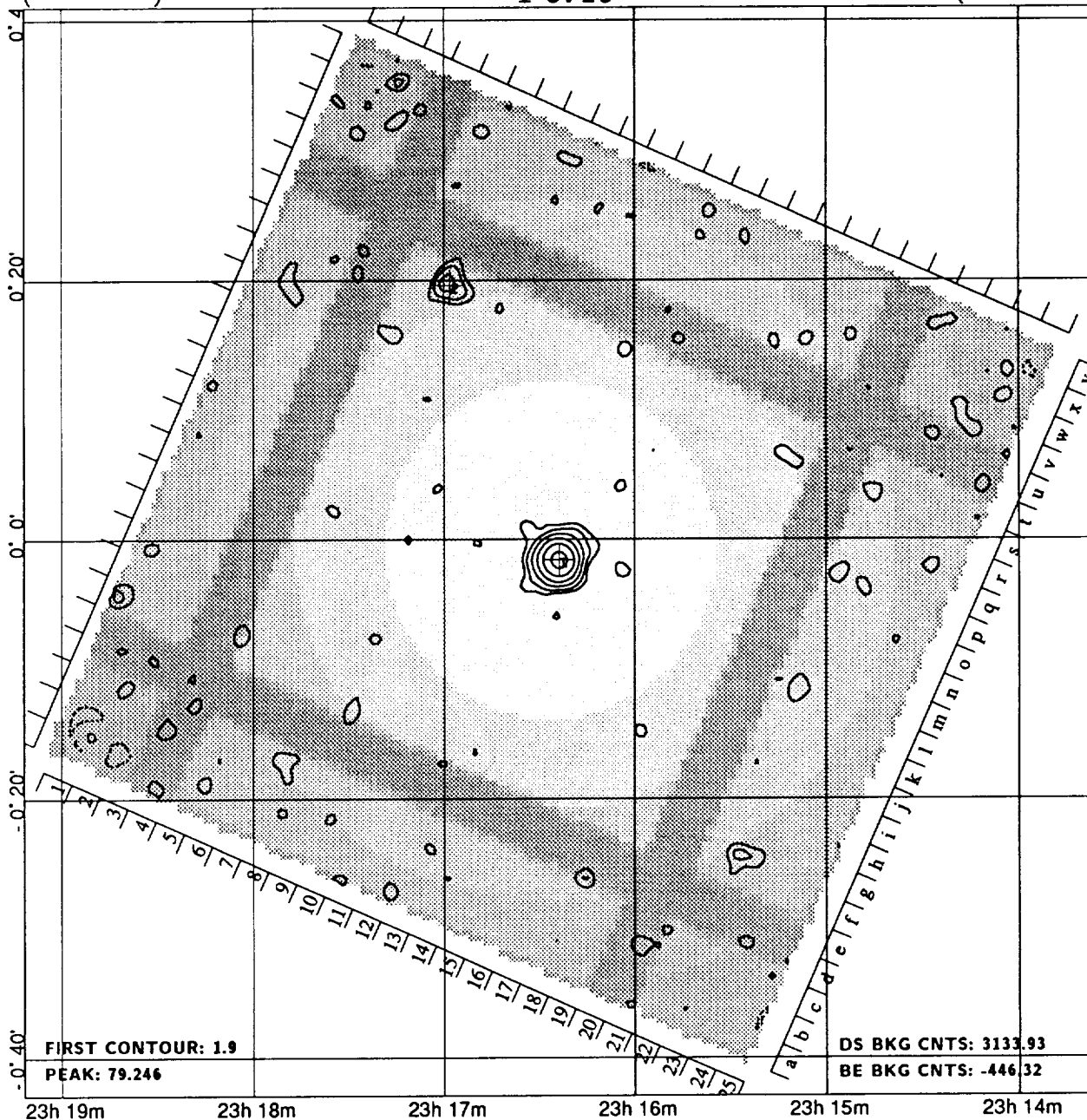
NH: $1.8E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4709	1	23 16 22.5	-42 22 56	38	0.1099	0.0093	145.6	7.4	11.8	1.3	0	7.4	AH	*
4721	2	23 18 54.8	-42 10 20	50	0.104	0.013	68.7	4.3	8.0	2.1	200	30.5	AH	

(23h 16m)

I 6719

(23h 16m)



SEYFERT VARIABILITY: NGC 7603

FIELD CENTER: $23^{\text{h}}16^{\text{m}}23.7^{\text{s}} -00^{\circ}00'00''$ (B1950)
 $23^{\text{h}}18^{\text{m}}57.5^{\text{s}} 00^{\circ}15'25''$ (J2000)
 $l: 80.09 \quad b: -54.73$

DATE: 1980/172 - 1980/172
 LIVETIME: 2539.5s
 ROLL ANGLE: -66.2°

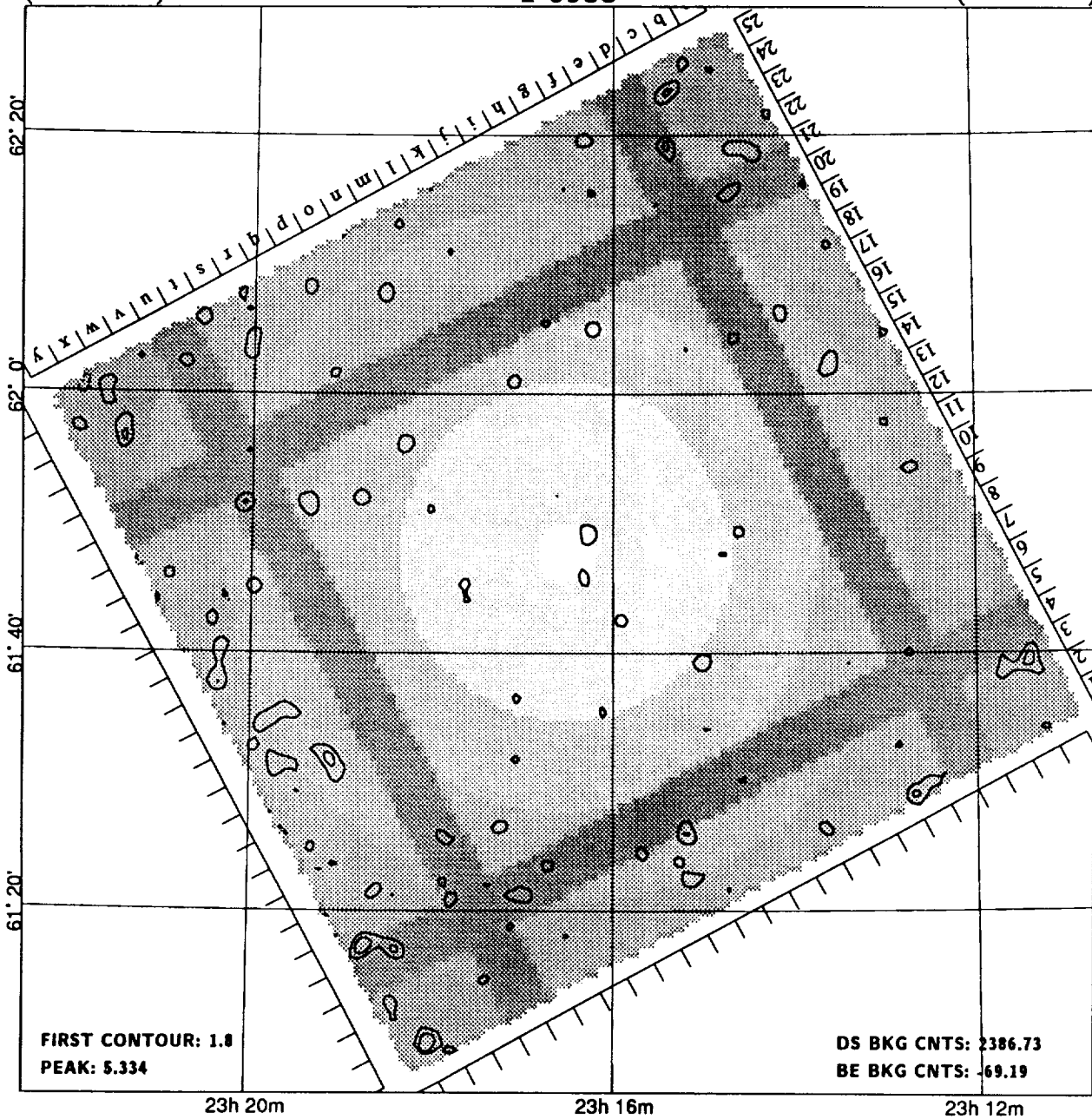
NH: $3.0\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4710	1	23 16 23.8	-00 01 35	31	0.1675	0.0095	316.4	6.6	17.6	1.2	0	0.4	H
4713	2	23 16 58.1	00 19 36	51	0.0202	0.0044	24.6	4.4	4.6	0.9	400	22.7	H

(23h 16m)

I 6935

(23h 16m)



4U 2316+61, GALACTIC SOURCE LOCATIONS & SPECTRA I

FIELD CENTER: $23^{\text{h}}16^{\text{m}}35.8^{\text{s}}$ $61^{\circ}47'59''$ (B1950)
 $23^{\text{h}}18^{\text{m}}46.6^{\text{s}}$ $62^{\circ}04'24''$ (J2000)
 $l: 112.31$ $b: 1.13$

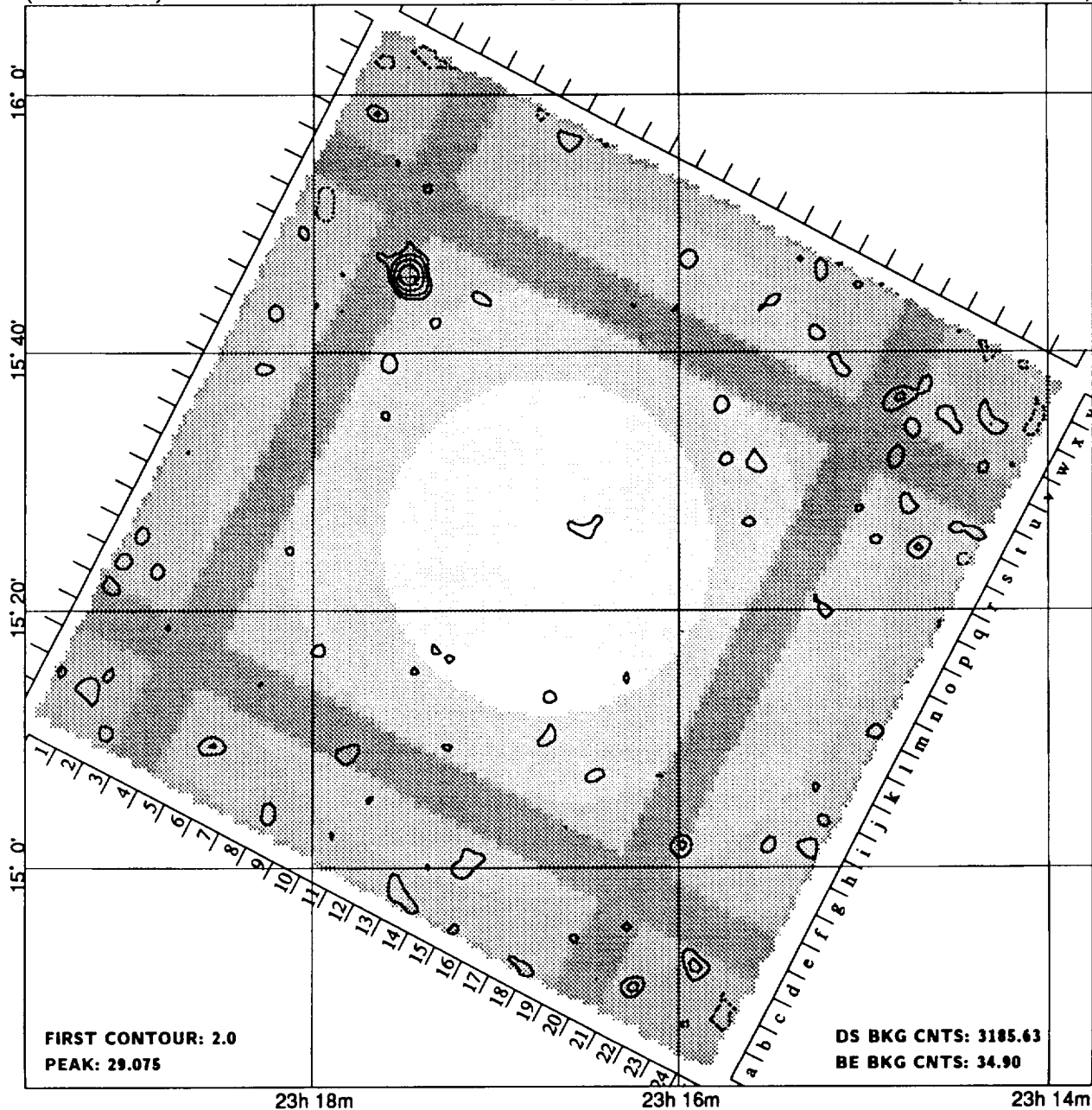
DATE: 1980/ 38 - 1980/ 38
 LIVETIME: 1934.0s
 ROLL ANGLE: 151.7°

NH: $7.9\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(23h 16m)

I 3094

(23h 16m)



RADIO SOURCES WITH STEEP SPECTRA: 4C15.78

FIELD CENTER: $23^{\text{h}}16^{\text{m}}39.6^{\text{s}}$ $15^{\circ}24'57''$ (B1950)
 $23^{\text{h}}19^{\text{m}}09.9^{\text{s}}$ $15^{\circ}41'22''$ (J2000)
 $l: 92.59$ $b: -41.68$

DATE: 1979/168 - 1979/168
 LIVETIME: 2581.4s
 ROLL ANGLE: -62.5°

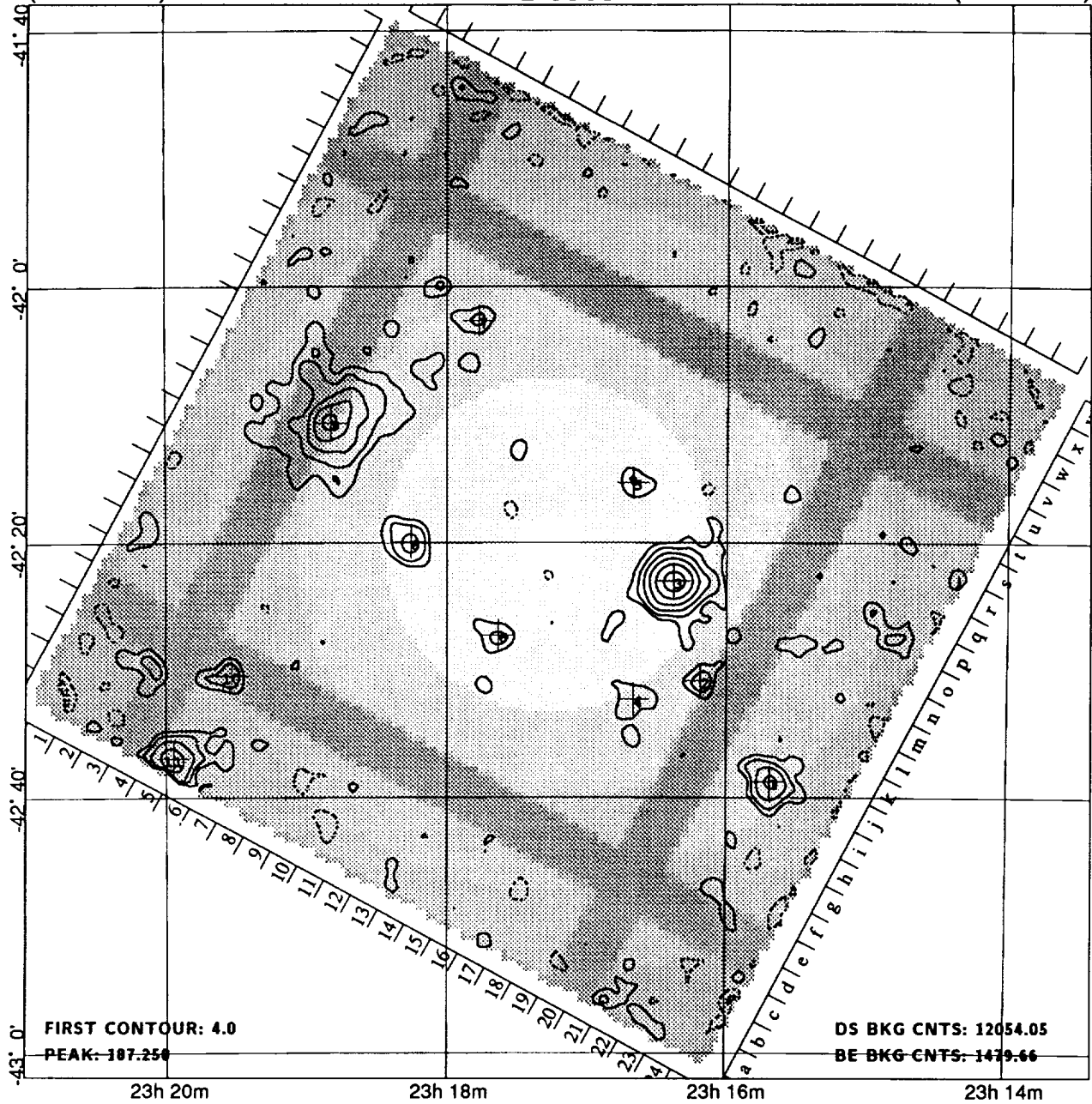
NH: $4.3\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4715	1	23 17 28.3	15 45 51	50	*0.0471	0.0066	54.7	4.3	7.1	0.9	906	24.1	H

(23h 17m)

I 6385

(23h 17m)



NGC 7582, SEYFERT VARIABILITY STUDY

FIELD CENTER: $23^{\text{h}}17^{\text{m}}11.8^{\text{s}}$ $-42^{\circ}19'59''$ (B1950)
 $23^{\text{h}}19^{\text{m}}56.4^{\text{s}}$ $-42^{\circ}03'33''$ (J2000)
 $l: 348.36$ $b: -66.10$

DATE: 1980/158 - 1980/161
 LIVETIME: 9767.8s
 ROLL ANGLE: -61.9°

NH: $1.9\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4706	1	23 15 41.2	-42 38 43	50	0.0217	0.0026	89.6	21.4	8.5	1.3	0	24.9	AH	G
4708	2	23 16 11.2	-42 30 49	51	*0.0056	0.0013	31.5	25.5	4.2	0.7	702	15.5	H	
4709	3	23 16 22.8	-42 22 58	37	0.1058	0.0041	685.4	29.6	25.6	1.4	0	9.4	AH	*
4711	4	23 16 40.0	-42 32 14	48	0.0048	0.0013	28.8	27.2	3.8	0.9	0	13.4	H	
4712	5	23 16 40.2	-42 15 18	46	0.0049	0.0012	32.8	28.2	4.2	0.7	0	7.2	H	
4716	6	23 17 38.0	-42 27 13	42	0.0055	0.0013	36.7	35.3	4.3	0.9	0	8.4	H	
4718	7	23 17 46.3	-42 02 36	55	0.0056	0.0014	29.2	26.8	3.9	0.7	0	18.4		
4719	8	23 18 15.3	-42 19 57	41	0.0126	0.0016	80.5	26.5	7.8	1.1	0	11.9	H	AGN
4721	9	23 18 49.5	-42 10 36	47	*0.0437	0.0031	219.4	15.6	14.3	2.8	908	20.6	AH	
4722	10	23 19 32.0	-42 30 24	59	*0.0068	0.0017	26.3	15.7	4.1	0.9	1409	28.0		

Source Table cont.

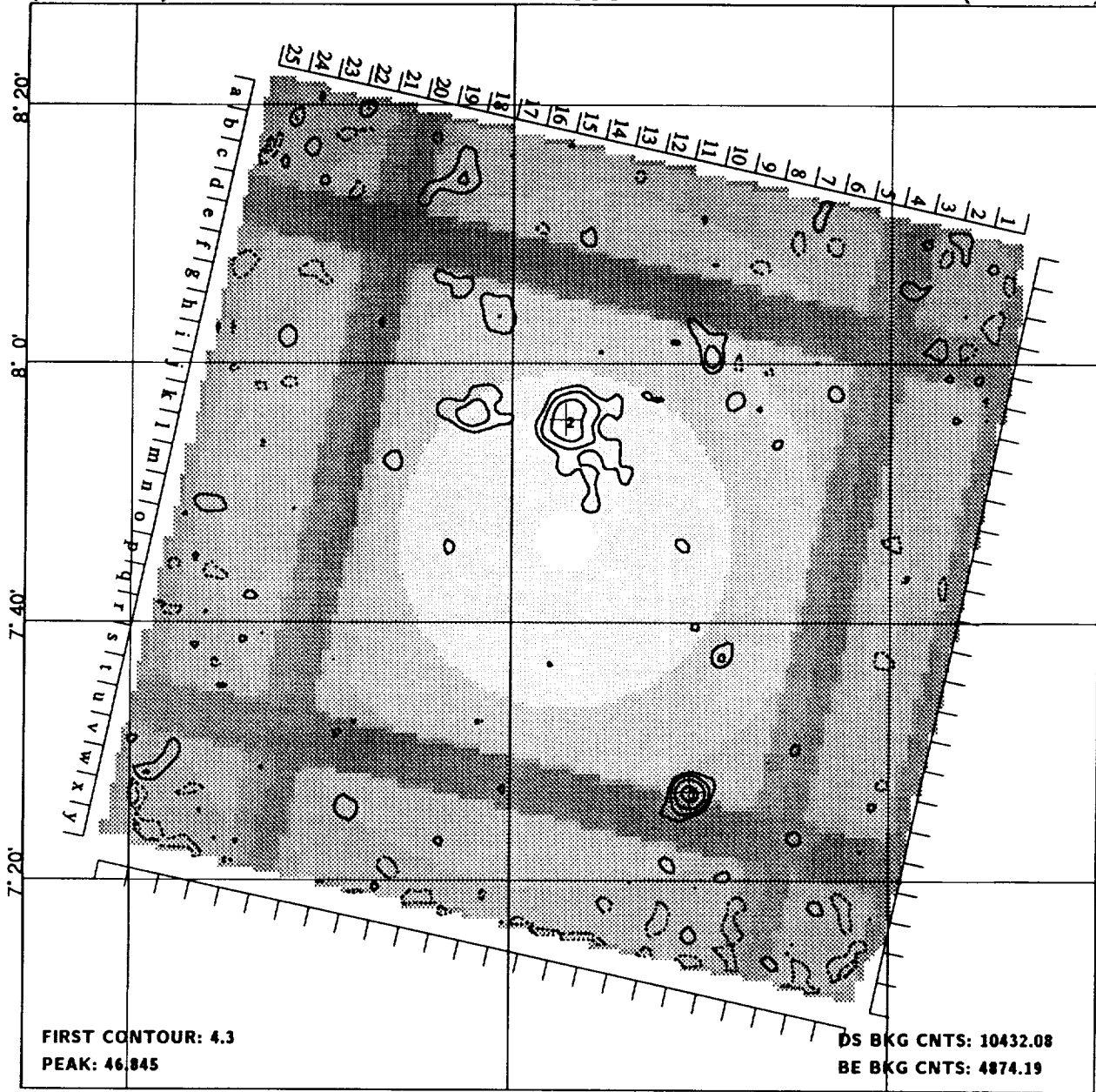
I 6385 cont.

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4723	11	23 19 56.9	-42 36 54	50	*0.0323	0.0039	82.6	15.4	8.3	1.4	902	35.0	H

(23h 17m)

I 2598

(23h 17m)



23h 20m

23h 18m

23h 16m

PEGASUS CLUSTER

FIELD CENTER: $23^h 17^m 43.8^s$ $07^\circ 45' 46''$ (B1950)
 $23^h 20^m 15.9^s$ $08^\circ 02' 13''$ (J2000)
 $l: 87.58$ $b: -48.48$

DATE: 1980/354 - 1980/354
 LIVETIME: 8757.0s
 ROLL ANGLE: 102.4°

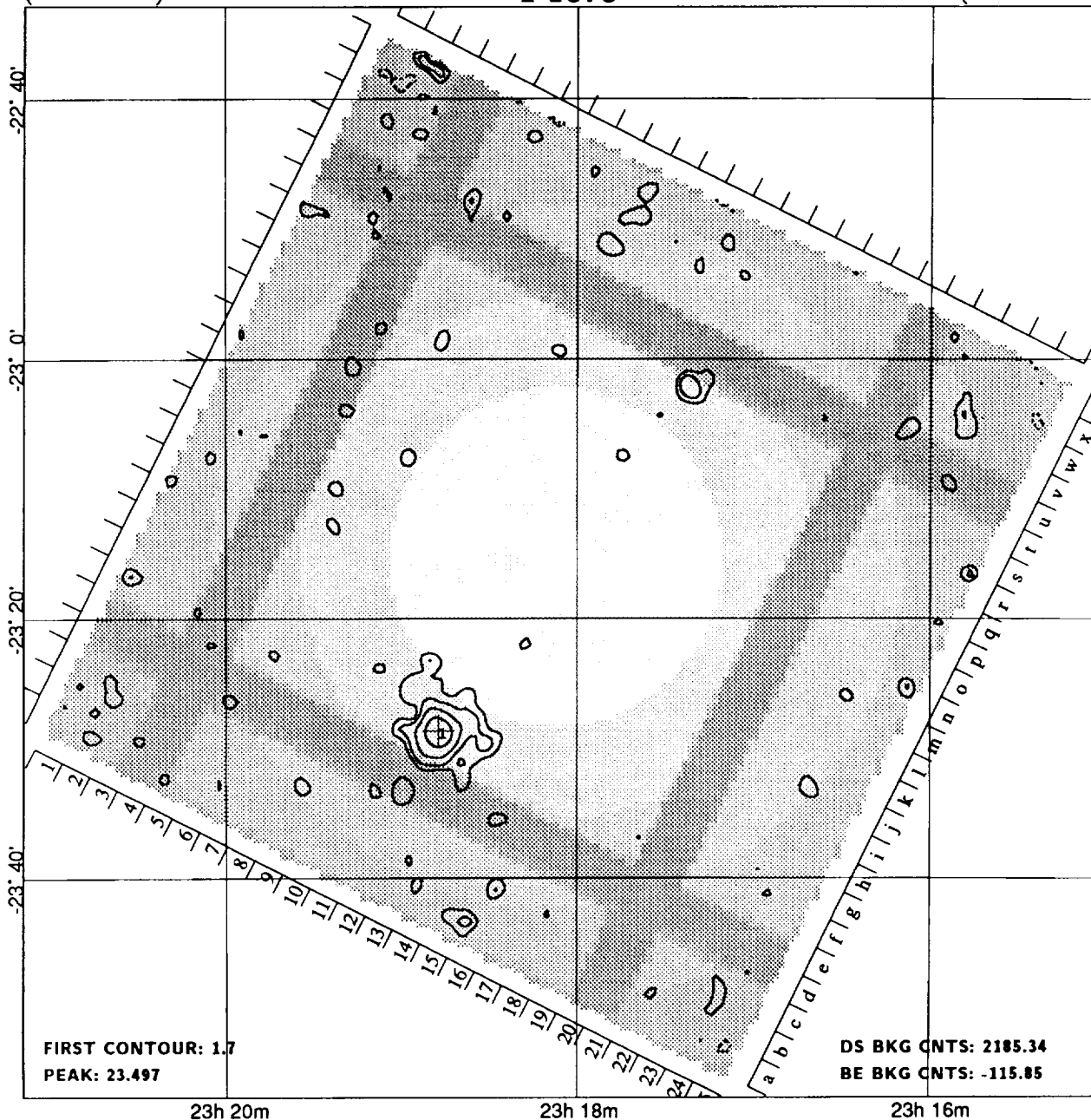
NH: $5.0E+20$
 REF/ID: CLG
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4714	1L	23 17 03.0	07 26 47	48	*0.0319	0.0041	134.5	17.0	7.6	1.0	805	21.6	*
4717	2L	23 17 42.9	07 55 40	38	0.0174	0.0029	102.9	89.1	6.0	2.0	0	9.7	G

(23h 18m)

I 1875

(23h 18m)



A2577: X-RAY STUDY OF CLUSTERS OF GALAXIES

FIELD CENTER: $23^{\text{h}}18^{\text{m}}05.8^{\text{s}}$ $-23^{\circ}14'59''$ (B1950)
 $23^{\text{h}}20^{\text{m}}44.6^{\text{s}}$ $-22^{\circ}58'33''$ (J2000)
 $l: 39.36$ $b: -69.08$

DATE: 1979/144 - 1979/144
 LIVETIME: 1770.8s
 ROLL ANGLE: -63.5°

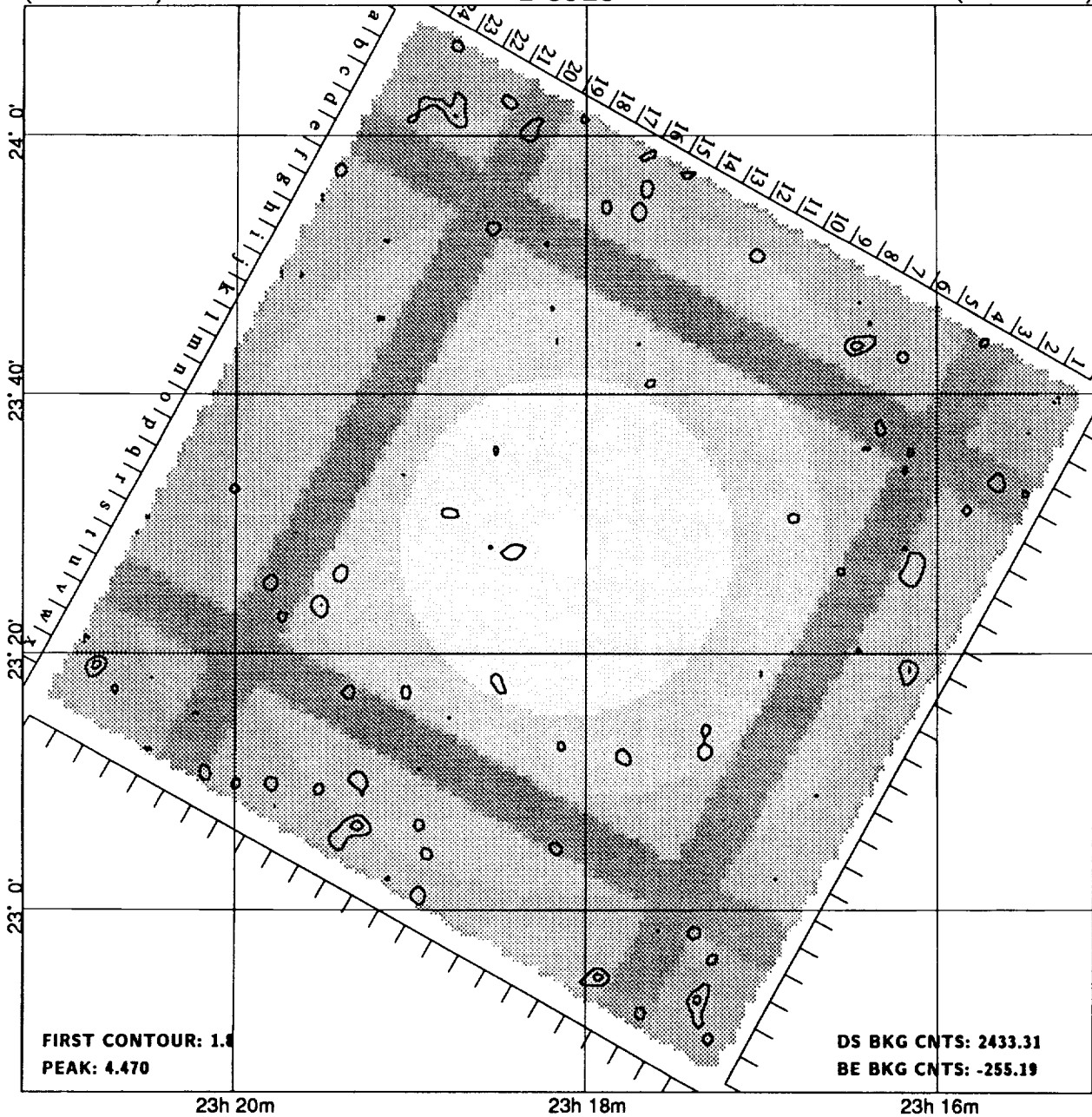
NH: $2.0\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4720	1	23 18 47.5	-23 28 39	48	0.0752	0.0088	76.2	3.8	8.5	2.0	0	16.6	H	CLG

(23h 18m)

I 8925

(23h 18m)



TAU PEG, EMISSION FROM DELTA SCUTI STARS

FIELD CENTER: $23^{\text{h}}18^{\text{m}}09.3^{\text{s}}$ $23^{\circ}27'58''$ (B1950)
 $23^{\text{h}}20^{\text{m}}37.9^{\text{s}}$ $23^{\circ}44'25''$ (J2000)
 $l: 97.51$ $b: -34.61$

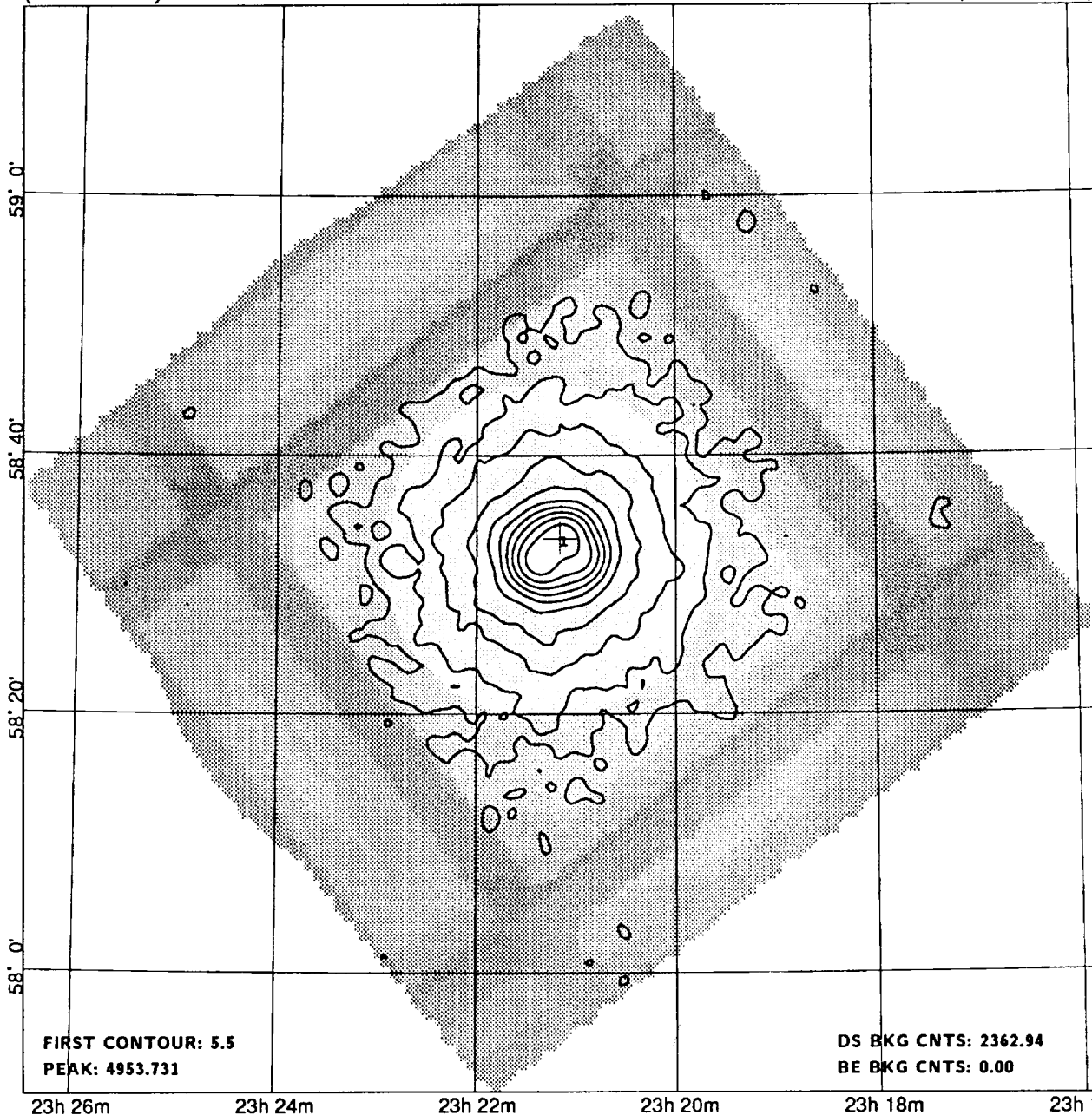
DATE: 1980/364 - 1980/364
 LIVETIME: 1971.8s
 ROLL ANGLE: 119.0°

NH: $4.9\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(23h 21m)

I 712

(23h 21m)



CAS A SMALL SNR SURFACE BRIGHTNESS

FIELD CENTER: $23^h 21^m 10.9^s$ $58^\circ 32' 47''$ (B1950)
 $23^h 23^m 26.6^s$ $58^\circ 49' 16''$ (J2000)
 $l: 111.74$ $b: -2.13$

DATE: 1979/ 33 - 1979/ 33
 LIVETIME: 1914.8s

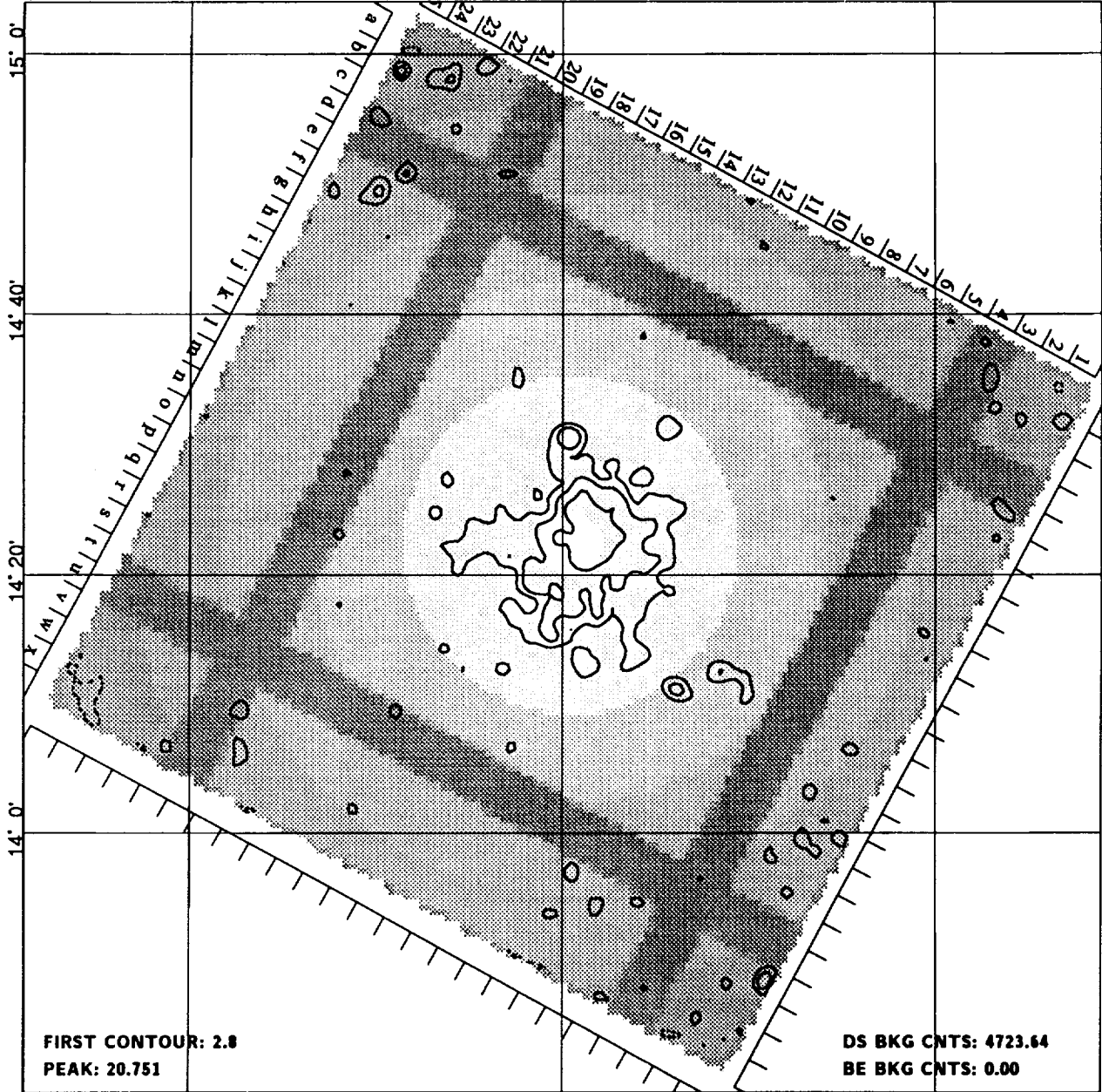
NH: 6.0E+21
 REF/ID: SNR
 FIELD FLAGS: LT

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4724	1L	23 21 09.8	58 33 35	31	7.80	0.14	11101.2	13079.9	57.3	3.3	0	0.8	SNR	

(23h 21m)

I 6134

(23h 21m)



FIRST CONTOUR: 2.8
 PEAK: 20.751

DS BKG CNTS: 4723.64
 BE BKG CNTS: 0.00

A 2593.DETAILED STUDY OF NEARBY CLUSTERS

FIELD CENTER: $23^h 21^m 59.8^s$ $14^\circ 21' 59''$ (B1950)
 $23^h 24^m 30.8^s$ $14^\circ 38' 29''$ (J2000)
 $l: 93.49$ $b: -43.21$

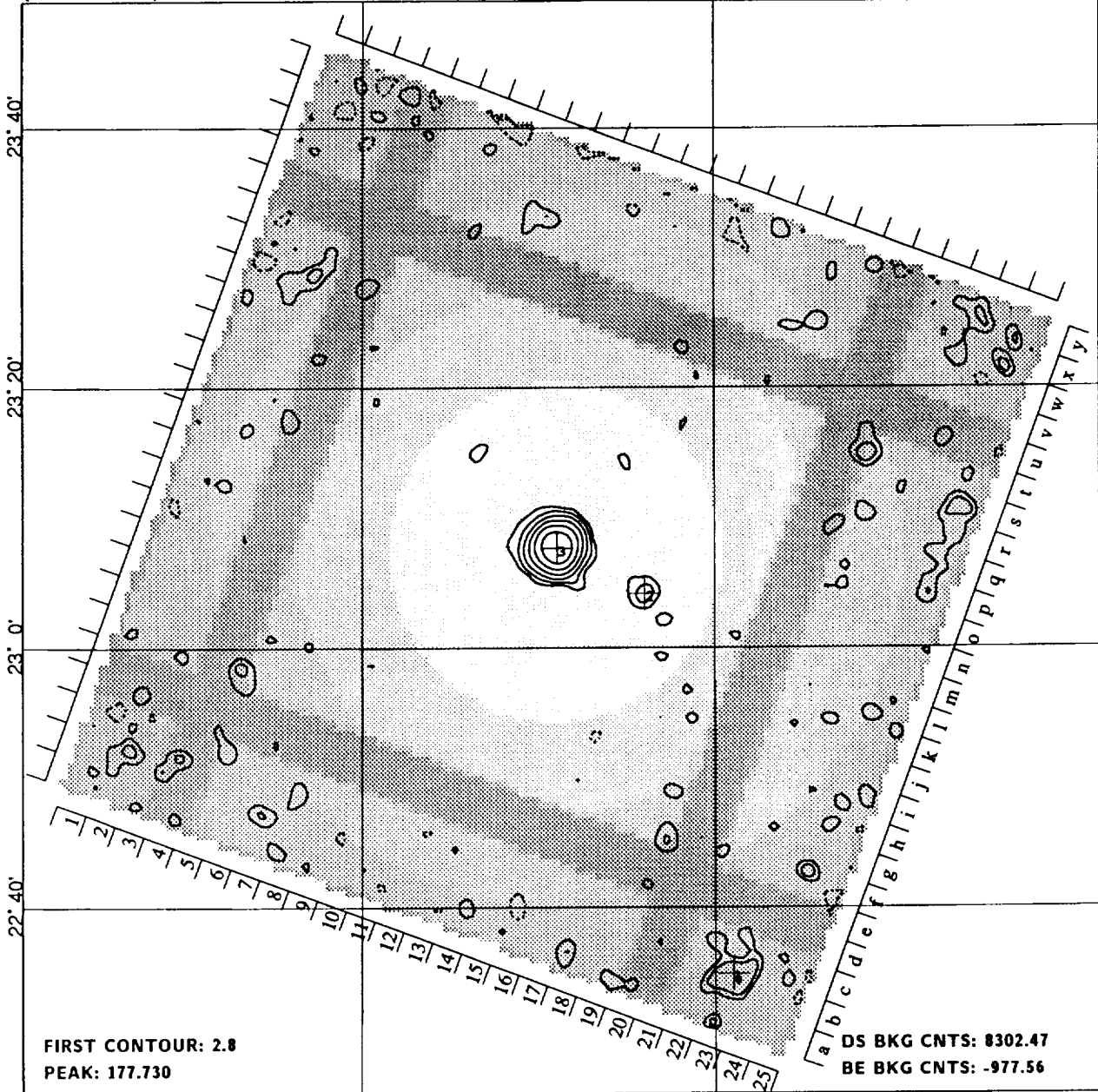
DATE: 1980 / 2 - 1980 / 3
 LIVETIME: 3827.7s
 ROLL ANGLE: 118.5°

NH: $4.1E+20$
 REF/ID: CLG
 FIELD FLAGS: LS

(23h 22m)

I 8396

(23h 22m)



NU PEG,SELECTED HERTZSPRUNG GAP STARS

FIELD CENTER: $23^h 22^m 52.6^s$ $23^\circ 07' 42''$ (B1950)
 $23^h 25^m 21.9^s$ $23^\circ 24' 12''$ (J2000)
 $l: 98.55$ $b: -35.36$

DATE: 1980/161 - 1980/161
 LIVETIME: 6727.7s
 ROLL ANGLE: -69.8°

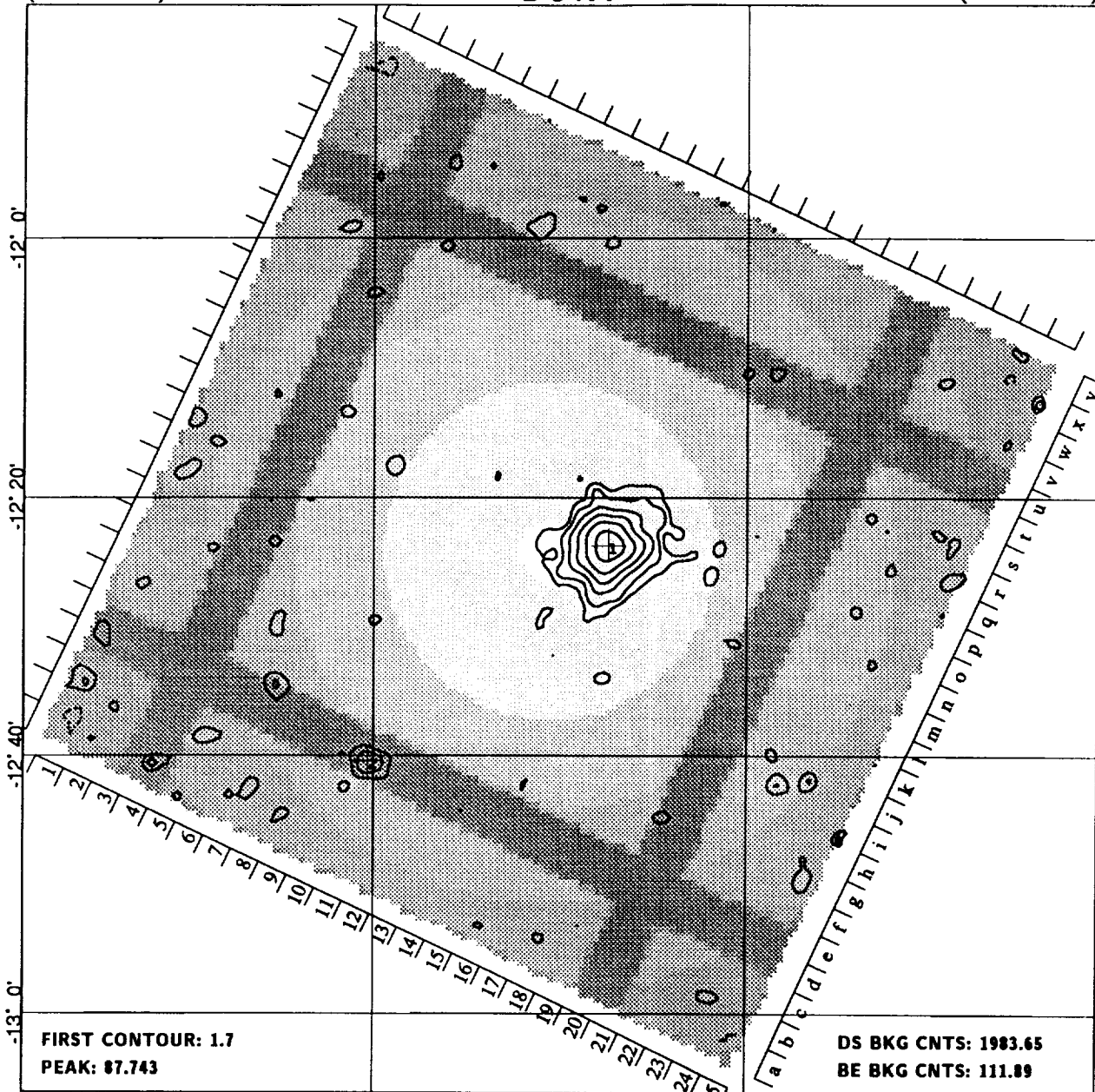
NH: $4.4E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4726	1	23 21 53.8	22 34 51	57	0.0125	0.0031	22.2	8.8	4.0	1.5	0	35.8	
4727	2	23 22 23.8	23 04 09	42	0.0067	0.0015	31.0	16.0	4.5	0.7	0	7.6	H
4729	3	23 22 53.5	23 07 40	31	0.1641	0.0058	822.5	16.5	28.4	1.3	0	0.4	H

(23h 22m)

I 3477

(23h 22m)



PKS 2322-12, BROAD AND NARROW-LINE RADIO GALAXIES

FIELD CENTER: $23^{\text{h}}22^{\text{m}}59.8^{\text{s}}$ $-12^{\circ}23'59''$ (B1950)
 $23^{\text{h}}25^{\text{m}}35.8^{\text{s}}$ $-12^{\circ}07'29''$ (J2000)
 $l: 65.44$ $b: -64.90$

DATE: 1979/144 - 1979/144
 LIVETIME: 1607.4s
 ROLL ANGLE: -64.8°

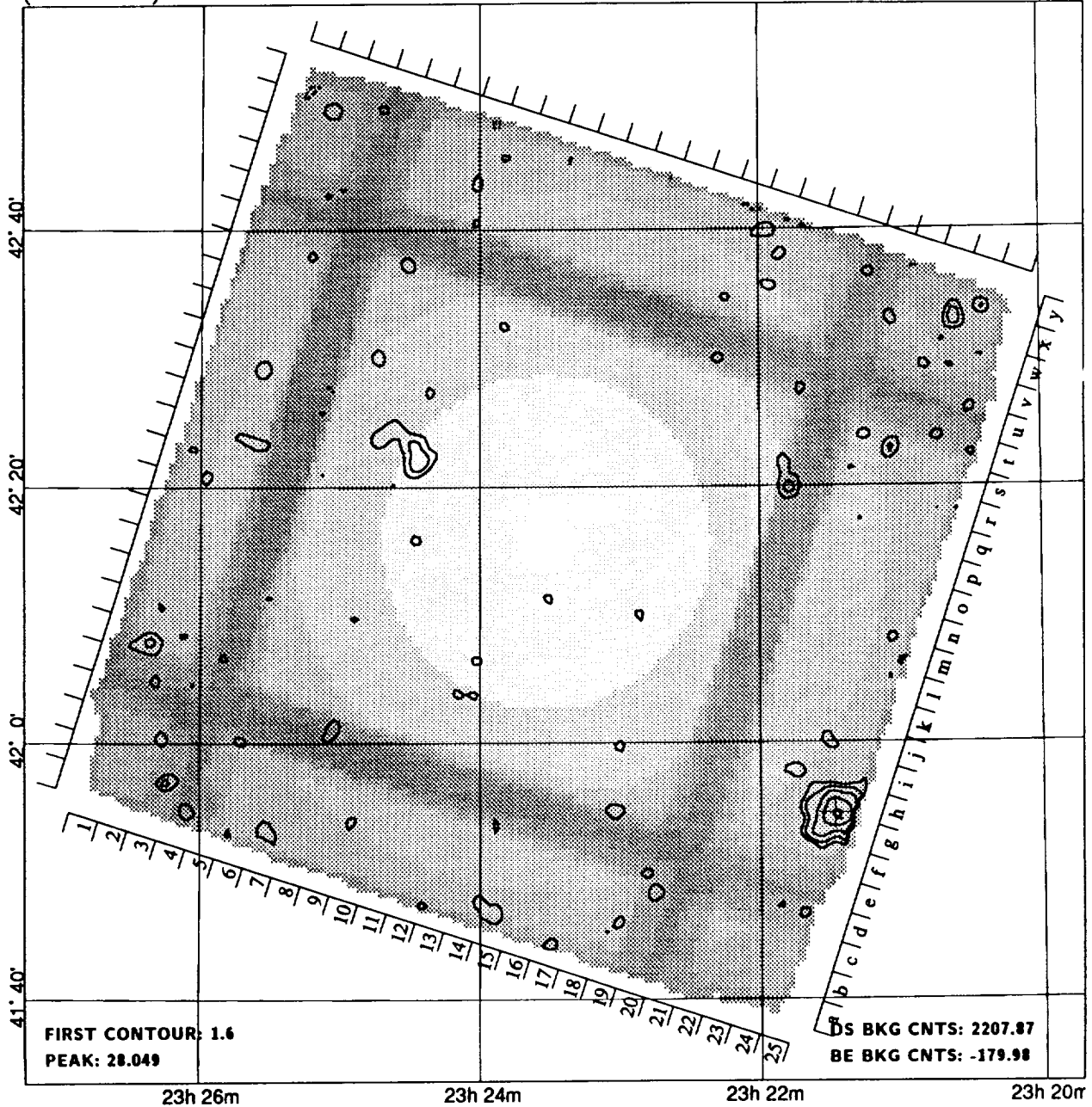
NH: $2.5E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE ±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4728	1	23 22 44.5	-12 23 44	31	0.348 0.017	401.8	4.2	19.9	2.0	0	3.6	H
4730	2	23 24 01.8	-12 40 24	55	*0.0215 0.0056	16.7	2.3	3.8	0.8	1409	22.5	

(23h 23m)

I 3361

(23h 23m)



EXPANDING STELLAR ATMOSPHERES: NGC 7662

FIELD CENTER: 23^h23^m28.8^s 42°15'35" (B1950)
 23^h25^m53.2^s 42°32'06" (J2000)
l: 106.56 *b*: -17.60

DATE: 1979/171 - 1979/172
 LIVETIME: 1789.1s
 ROLL ANGLE: -72.2°

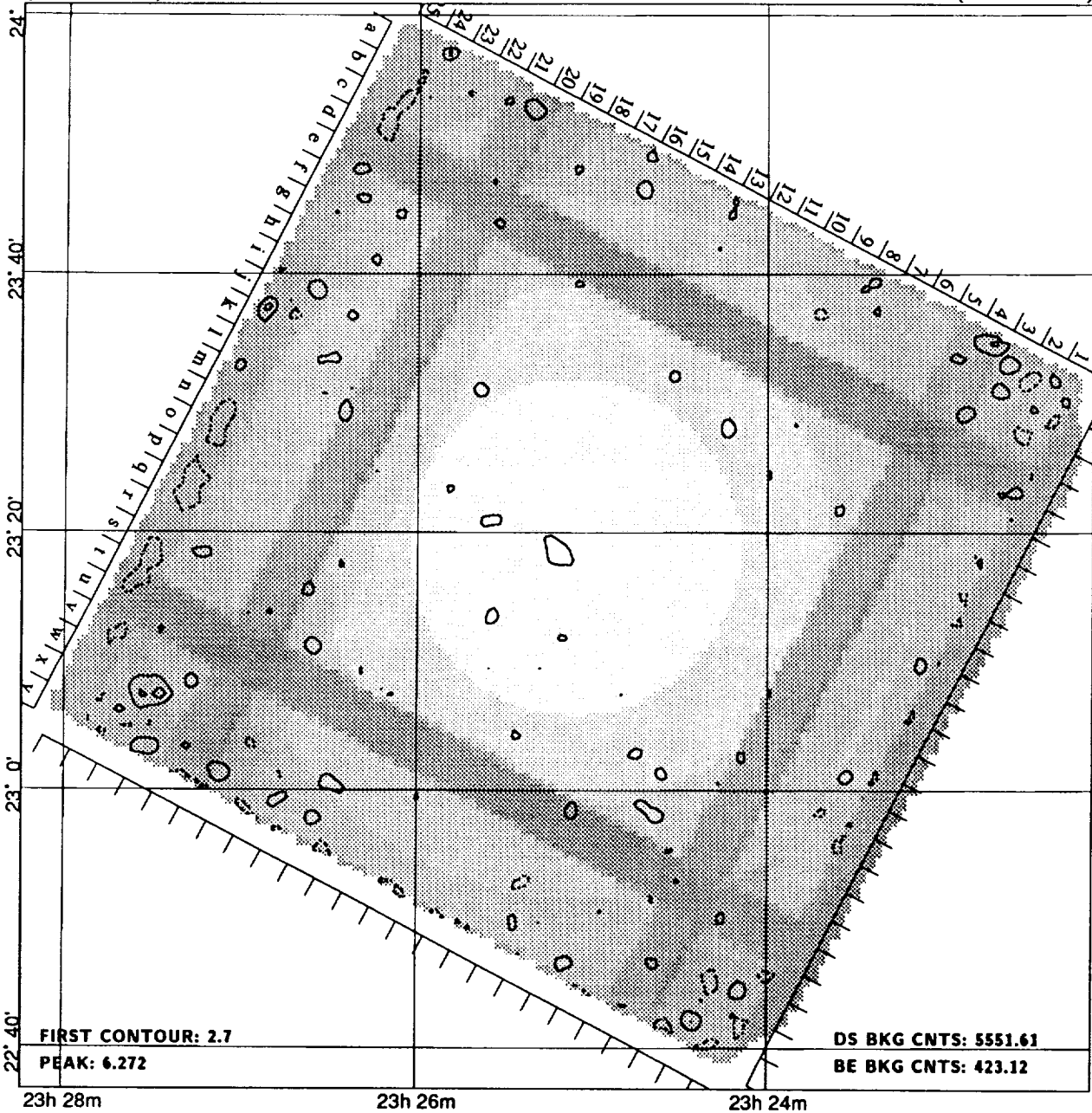
NH: 9.5E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4725	1	23 21 28.5	41 54 26	50	0.080	0.012	46.9	3.1	6.6	1.2	300	30.6	H

(23h 25m)

I 10201

(23h 25m)



MA 325: CLUMPY, IRREGULAR GALAXIES

FIELD CENTER: 23^h25^m11.8^s 23°18'52" (B1950)
 23^h27^m41.3^s 23°35'24" (J2000)
 l : 99.24 b : -35.40

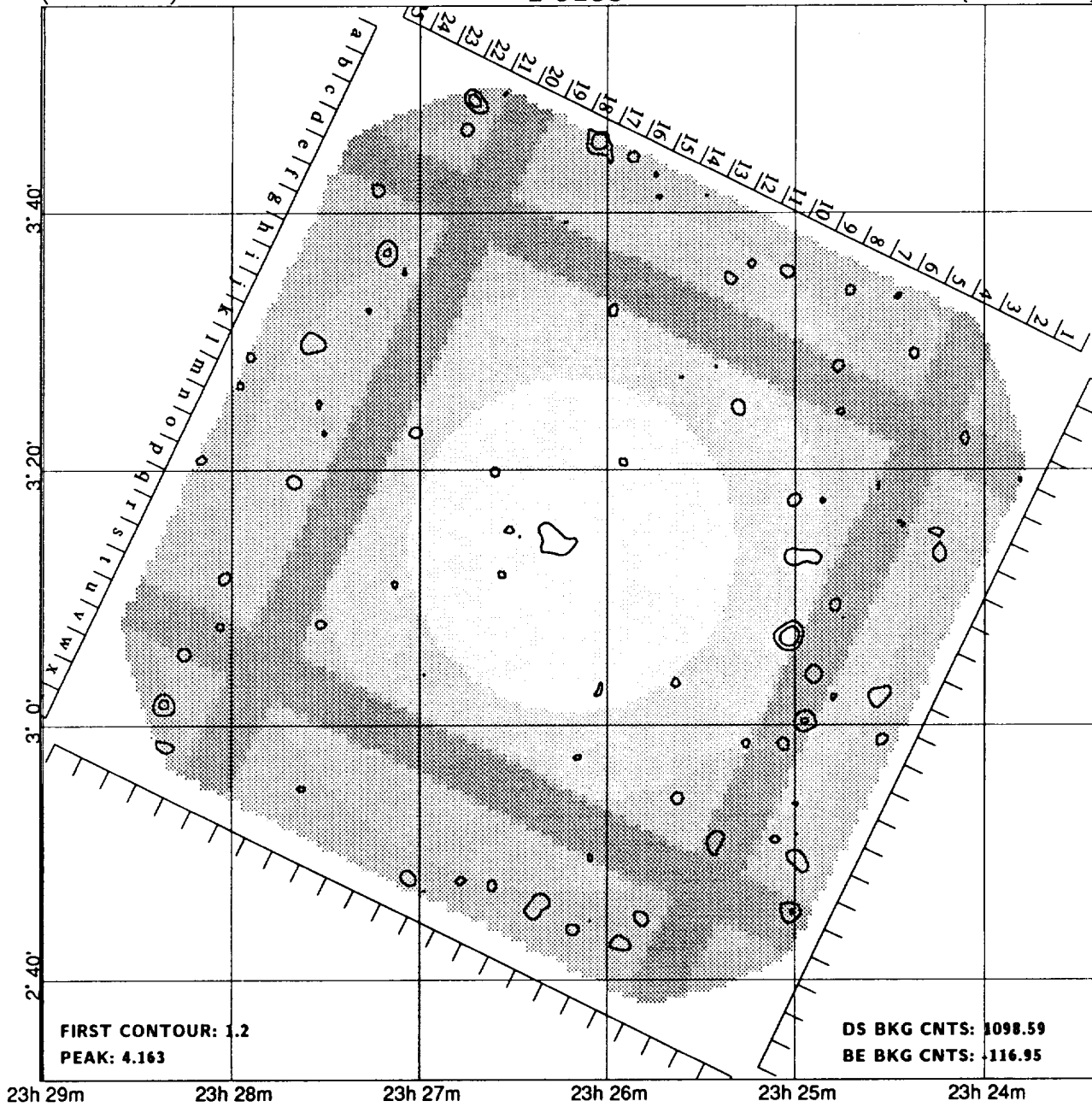
DATE: 1980/362 - 1980/363
 LIVETIME: 4498.6s
 ROLL ANGLE: 117.5°

NH: 4.4E+20
 REF/ID:
 FIELD FLAGS: S

(23h 26m)

I 9153

(23h 26m)



FIRST CONTOUR: 1.2
 PEAK: 4.163

DS BKG CNTS: 1098.59
 BE BKG CNTS: 116.95

GASEOUS HALOS IN FIELD E & SO GALAXIES: UGC 12618

FIELD CENTER: $23^{\text{h}}26^{\text{m}}12.6^{\text{s}}$ $03^{\circ}14'10''$ (B1950)
 $23^{\text{h}}28^{\text{m}}45.8^{\text{s}}$ $03^{\circ}30'43''$ (J2000)
 $l: 86.67$ $b: -53.44$

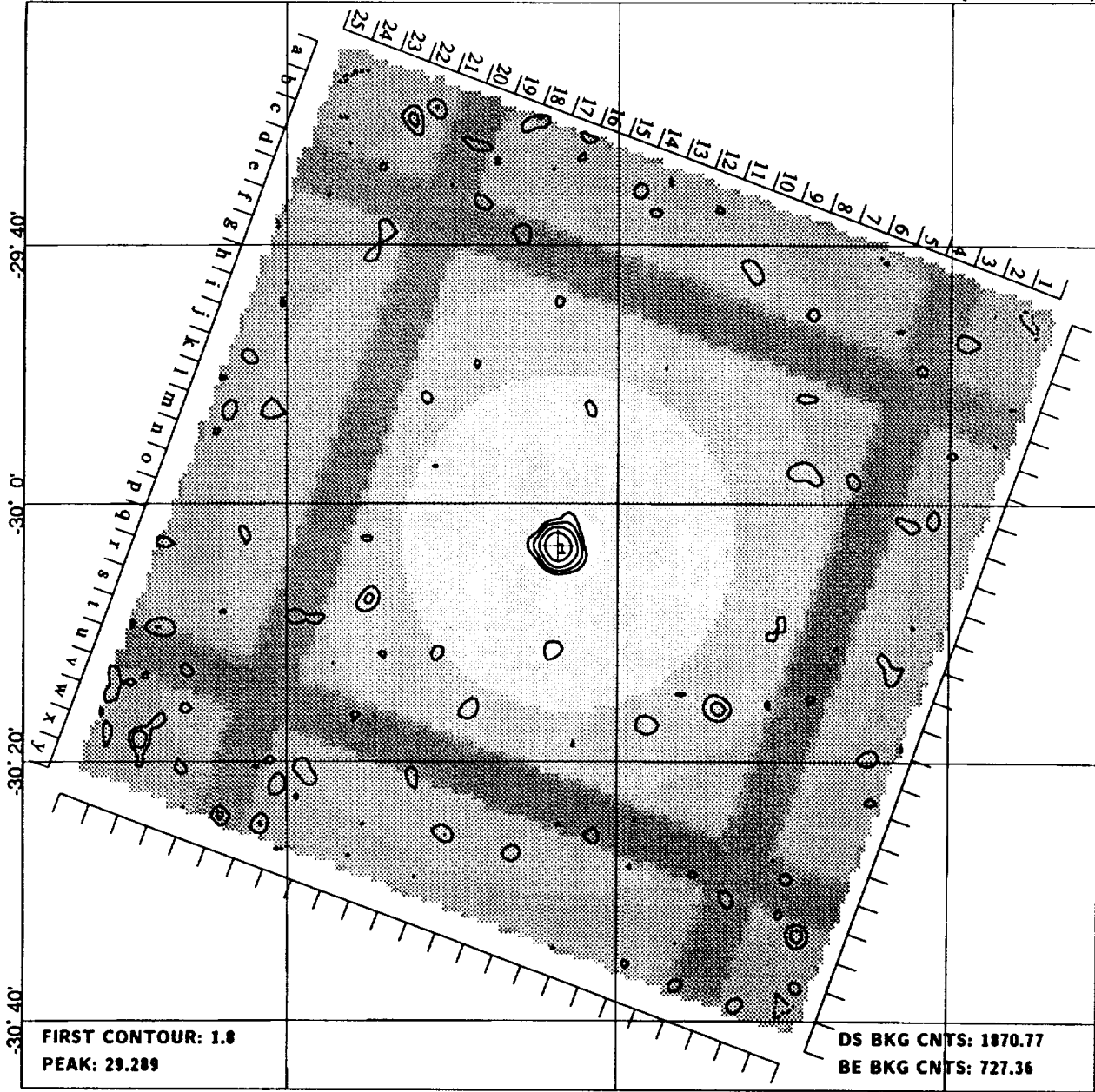
DATE: 1981/ 7 - 1981/ 7
 LIVETIME: 890.2s
 ROLL ANGLE: 115.9°

NH: $4.9\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(23h 26m)

I 4499

(23h 26m)



AM HER-LIKE OBJECT VY SCULPTORIS

FIELD CENTER: $23^h 26^m 20.6^s$ $-30^\circ 03' 17''$ (B1950)
 $23^h 28^m 59.8^s$ $-29^\circ 46' 45''$ (J2000)
 $l: 19.75$ $b: -71.71$

DATE: 1979/349 - 1979/349
 LIVETIME: 1515.9s
 ROLL ANGLE: 110.2°

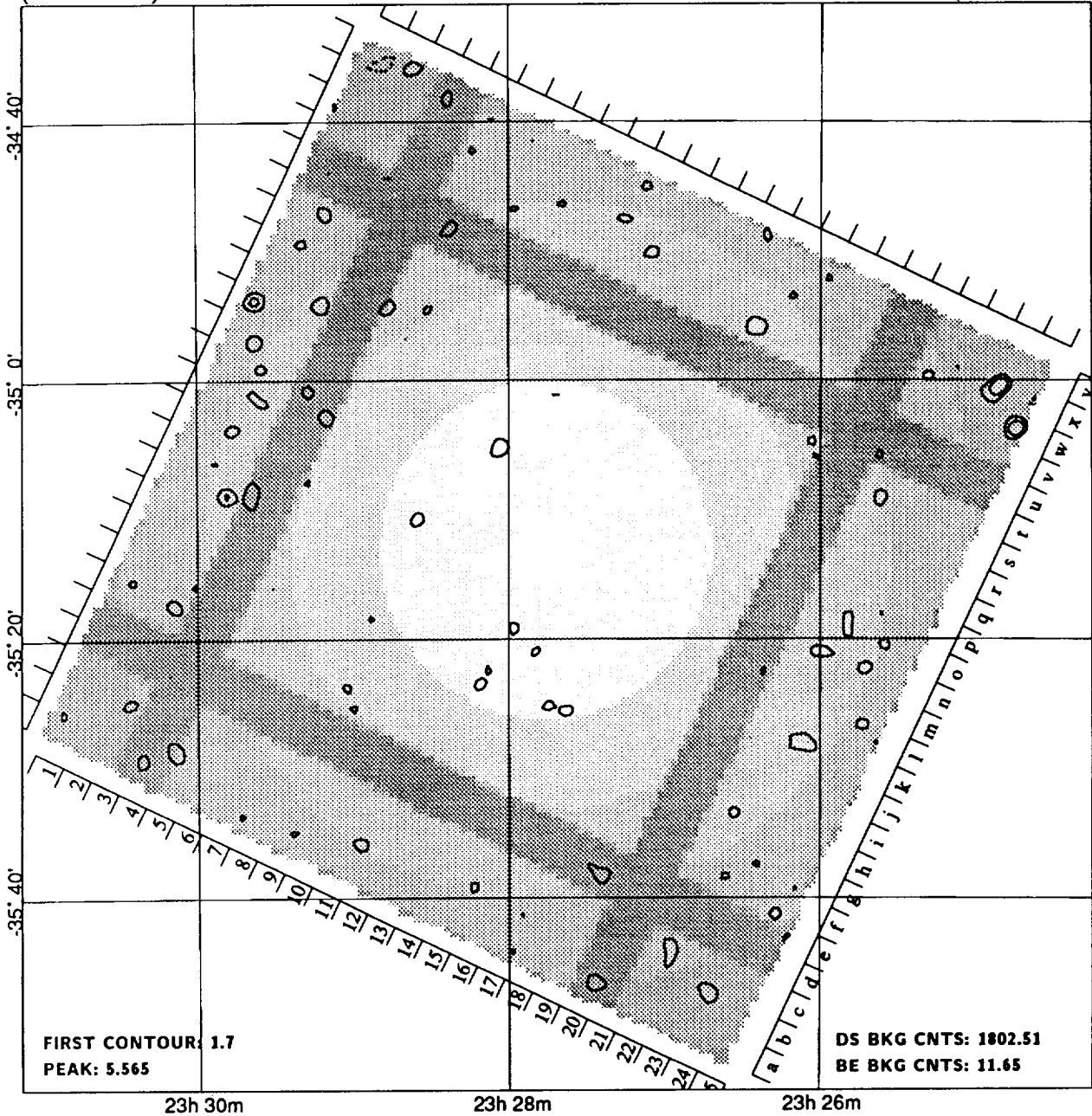
NH: $1.6E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4731	1	23 26 21.8	-30 03 14	31	0.1028	0.0098	116.0	7.0	10.5	1.1	0	0.2	H

(23h 27m)

I 6220

(23h 27m)



2327-3632, SURVEY OF SOUTHERN CLUSTERS

FIELD CENTER: $23^{\text{h}}27^{\text{m}}41.8^{\text{s}}$ $-35^{\circ}12'59''$ (B1950)
 $23^{\text{h}}30^{\text{m}}21.9^{\text{s}}$ $-34^{\circ}56'26''$ (J2000)
 $l: 3.68$ $b: -71.00$

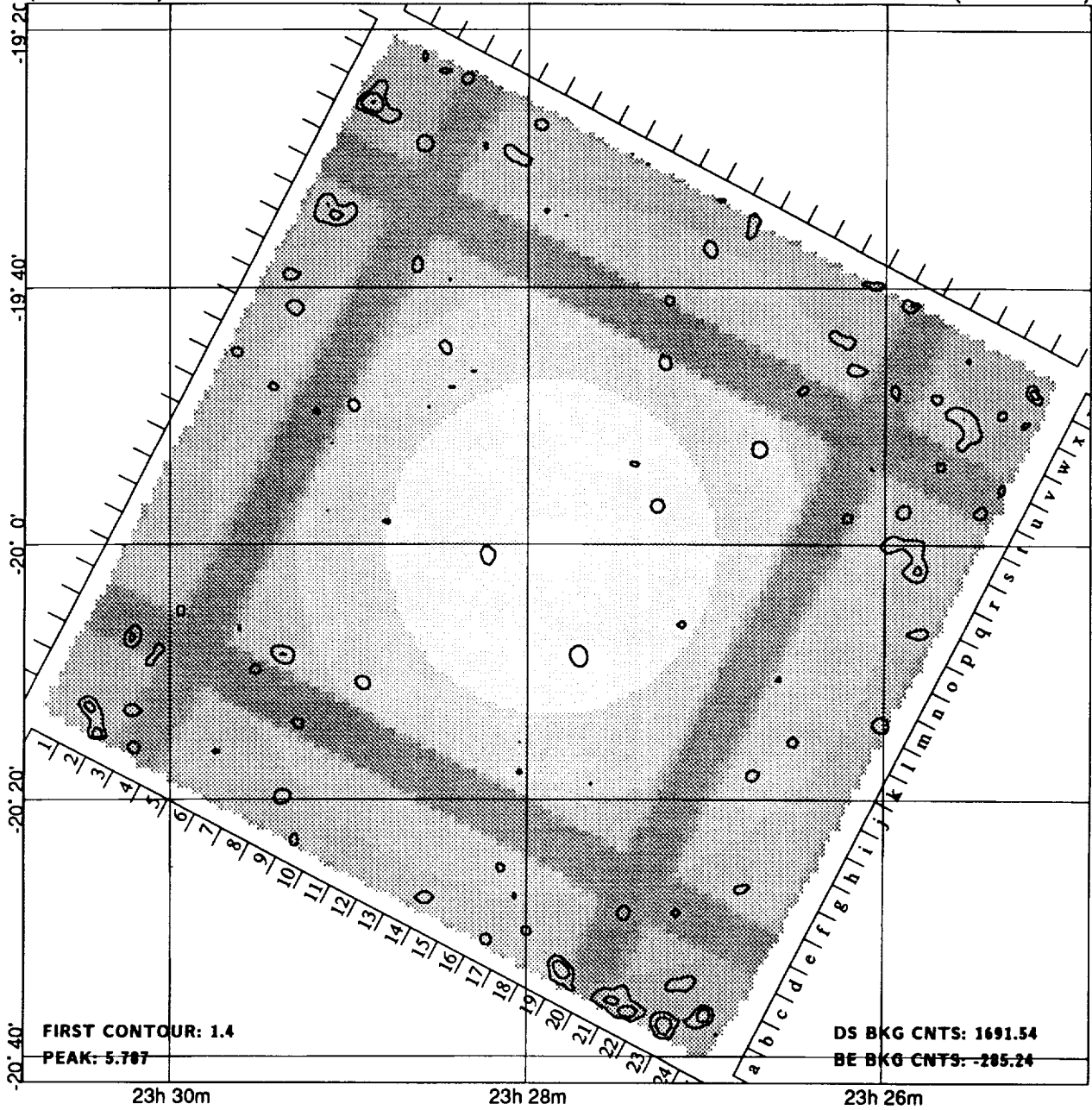
DATE: 1980/152 - 1980/152
 LIVETIME: 1460.6s
 ROLL ANGLE: -64.6°

NH: $1.4\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(23h 27m)

I 2504

(23h 27m)



2327-20K+M: SURVEY OF NEARBY RADIO PULSARS

FIELD CENTER: $23^h 27^m 49.8^s$ $-19^\circ 59' 59''$ (B1950)
 $23^h 30^m 26.8^s$ $-19^\circ 43' 26''$ (J2000)
 $l: 50.37$ $b: -70.03$

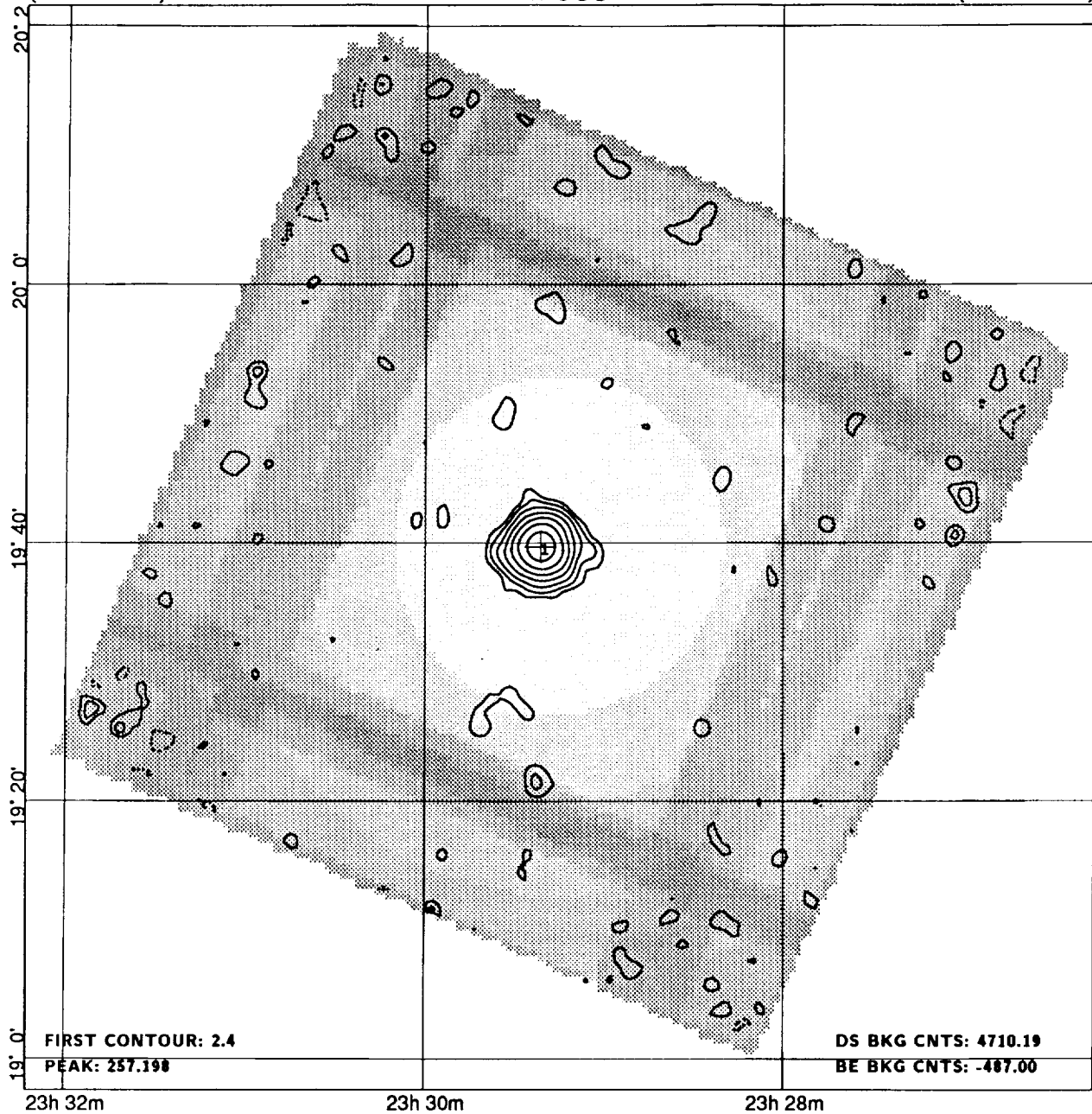
DATE: 1979/143 - 1979/143
 LIVETIME: 1370.7s
 ROLL ANGLE: -62.6°

NH: $2.2E+20$
 REF/ID:
 FIELD FLAGS:

(23h 29m)

I 933

(23h 29m)



EQ PEG STELLAR OBSERVATIONS, VARIABLE STARS

FIELD CENTER: $23^h 29^m 15.1^s$ $19^\circ 39' 32''$ (B1950)
 $23^h 31^m 45.8^s$ $19^\circ 56' 06''$ (J2000)
 $l: 98.54$ $b: -39.13$

DATE: 1979/167 - 1980/357
 LIVETIME: 3816.8s

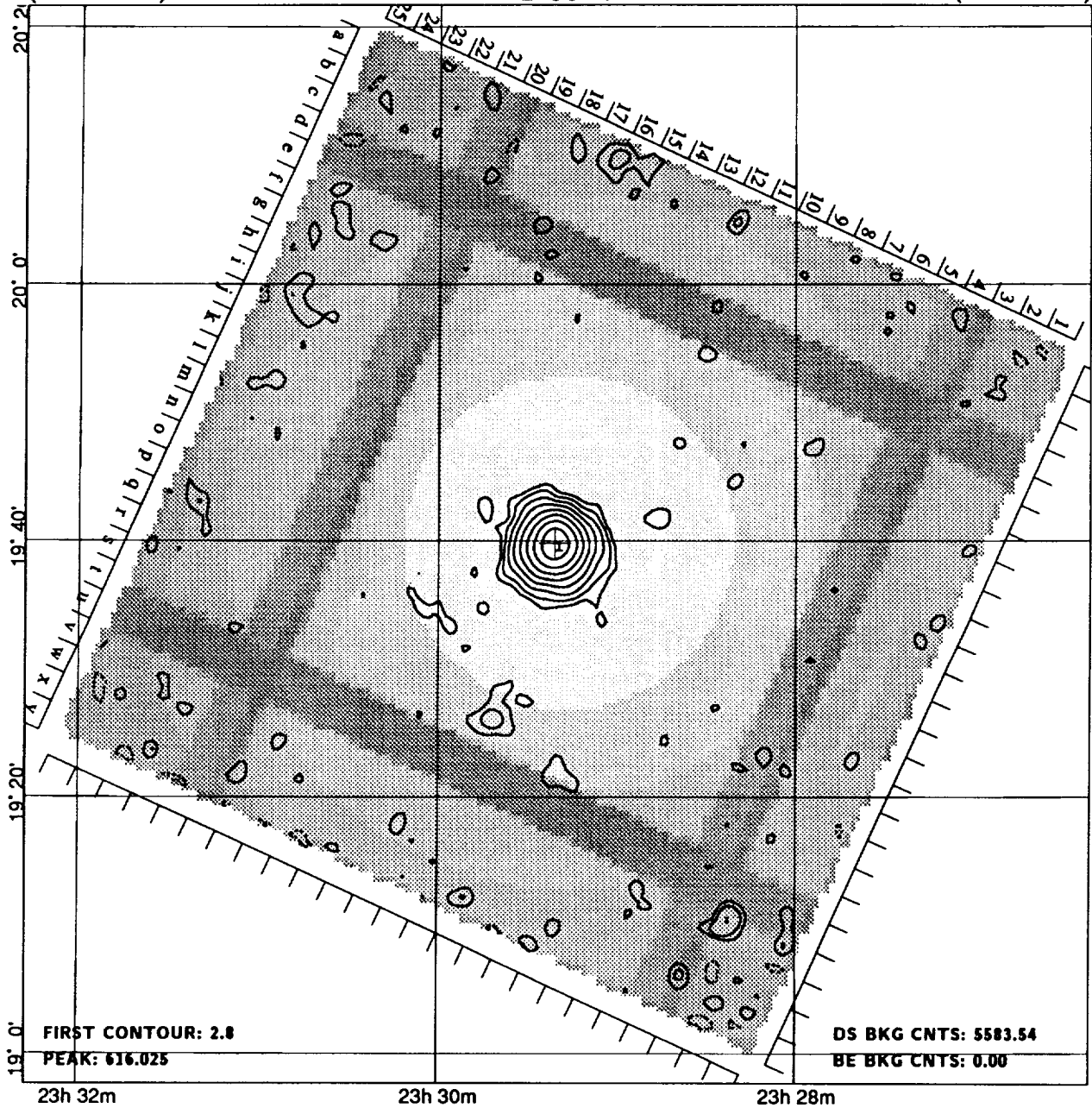
NH: $4.1E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4733	1	23 29 21.2	19 39 41	31	0.418	0.012	1183.3	9.7	34.3	1.6	0	1.5	AH	S

(23h 29m)

I 6972

(23h 29m)



DM+19(5116), STELLAR X-RAY VARIABILITY STUDIES

FIELD CENTER: 23^h29^m19.7^s 19°39'41" (B1950)
 23^h31^m50.4^s 19°56'15" (J2000)
 $l: 98.57$ $b: -39.14$

DATE: 1980/356 - 1980/356
 LIVETIME: 4524.5s
 ROLL ANGLE: 114.6°

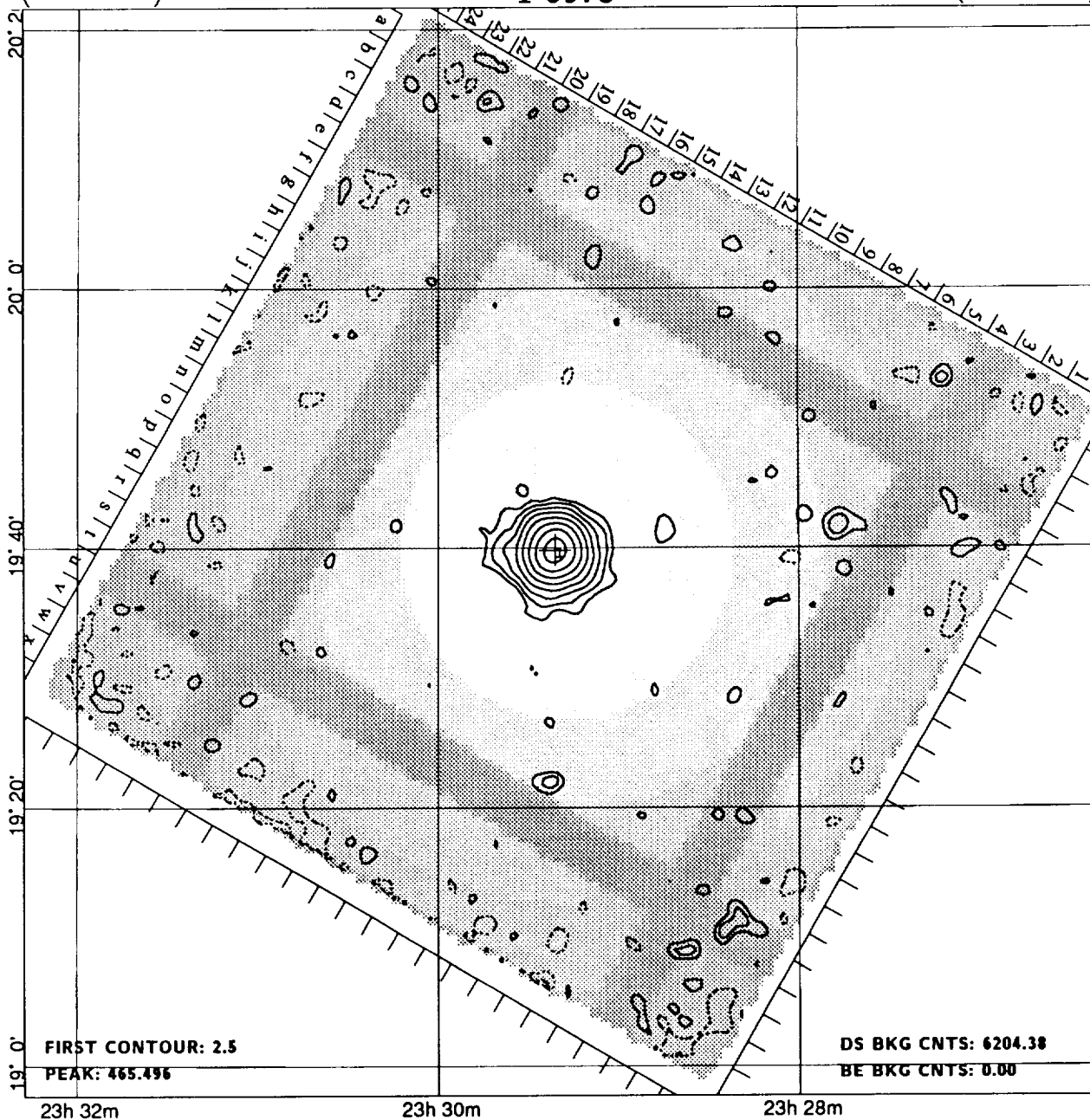
NH: 4.1E+20
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4733	1L	23 29 20.9	19 39 49	31	0.662	0.018	2226.4	630.6	35.7	1.6	0	0.3	A	S

(23h 29m)

I 6973

(23h 29m)



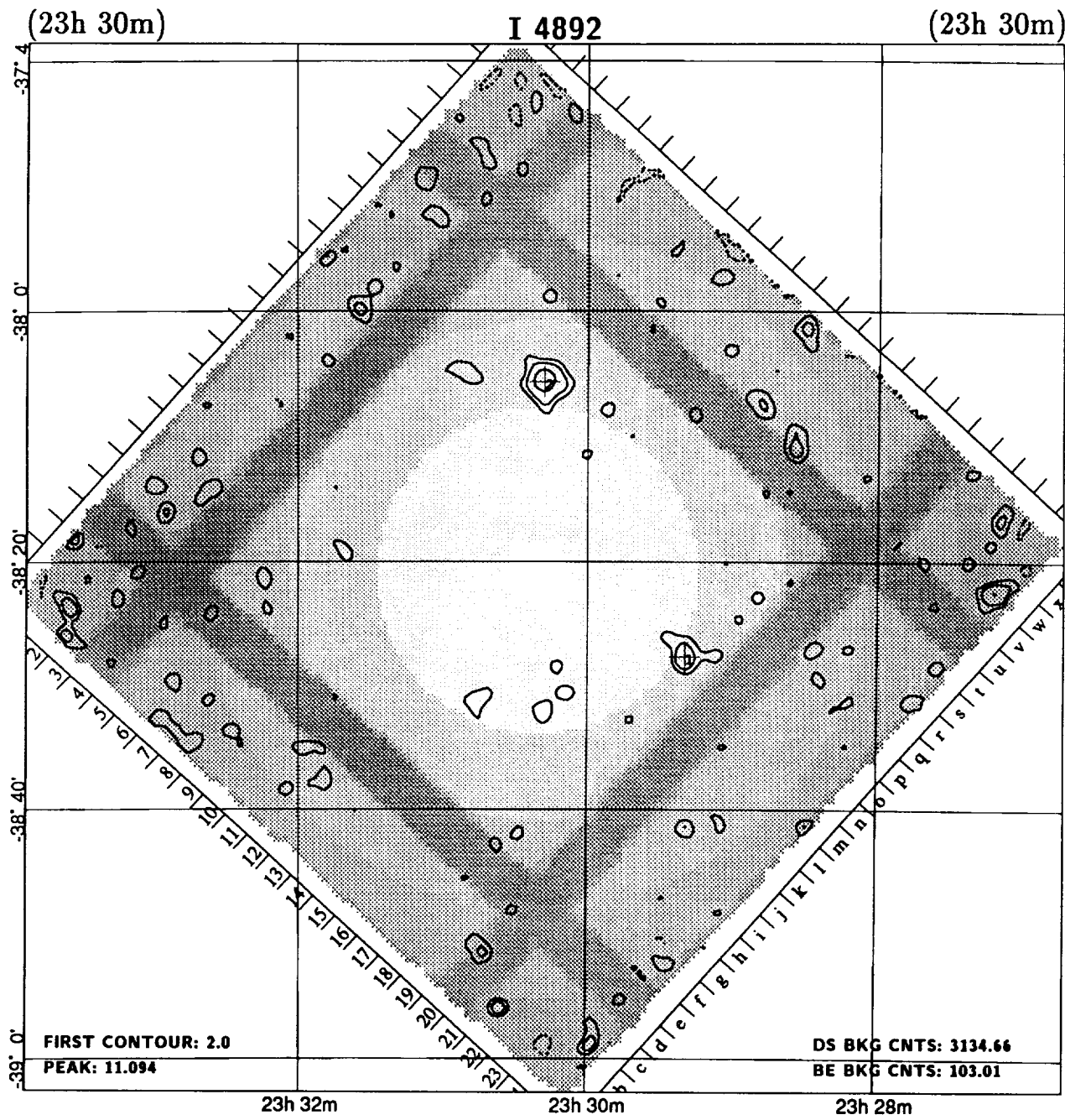
DM+19(5116), STELLAR X-RAY VARIABILITY STUDIES

FIELD CENTER: 23^h29^m19.7^s 19°39'41" (B1950)
 23^h31^m50.4^s 19°56'15" (J2000)
 l : 98.57 b : -39.14

DATE: 1981/ 5 - 1981/ 5
 LIVETIME: 5027.6s
 ROLL ANGLE: 120.1°

NH: 4.1E+20
 REF/ID:
 FIELD FLAGS: CL

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4733	1L	23 29 21.0	19 39 49	31	0.446	0.014	1668.5	490.5	30.7	1.6	0	0.3	A S



STAR BETA SCL (HD 221507),AP STARS

FIELD CENTER: $23^{\text{h}}30^{\text{m}}17.3^{\text{s}}$ $-38^{\circ}20'41''$ (B1950)
 $23^{\text{h}}32^{\text{m}}57.6^{\text{s}}$ $-38^{\circ}04'06''$ (J2000)
 $l: 354.38$ $b: -70.25$

DATE: 1980/136 - 1980/136
LIVETIME: 2540.1s
ROLL ANGLE: -48.1°

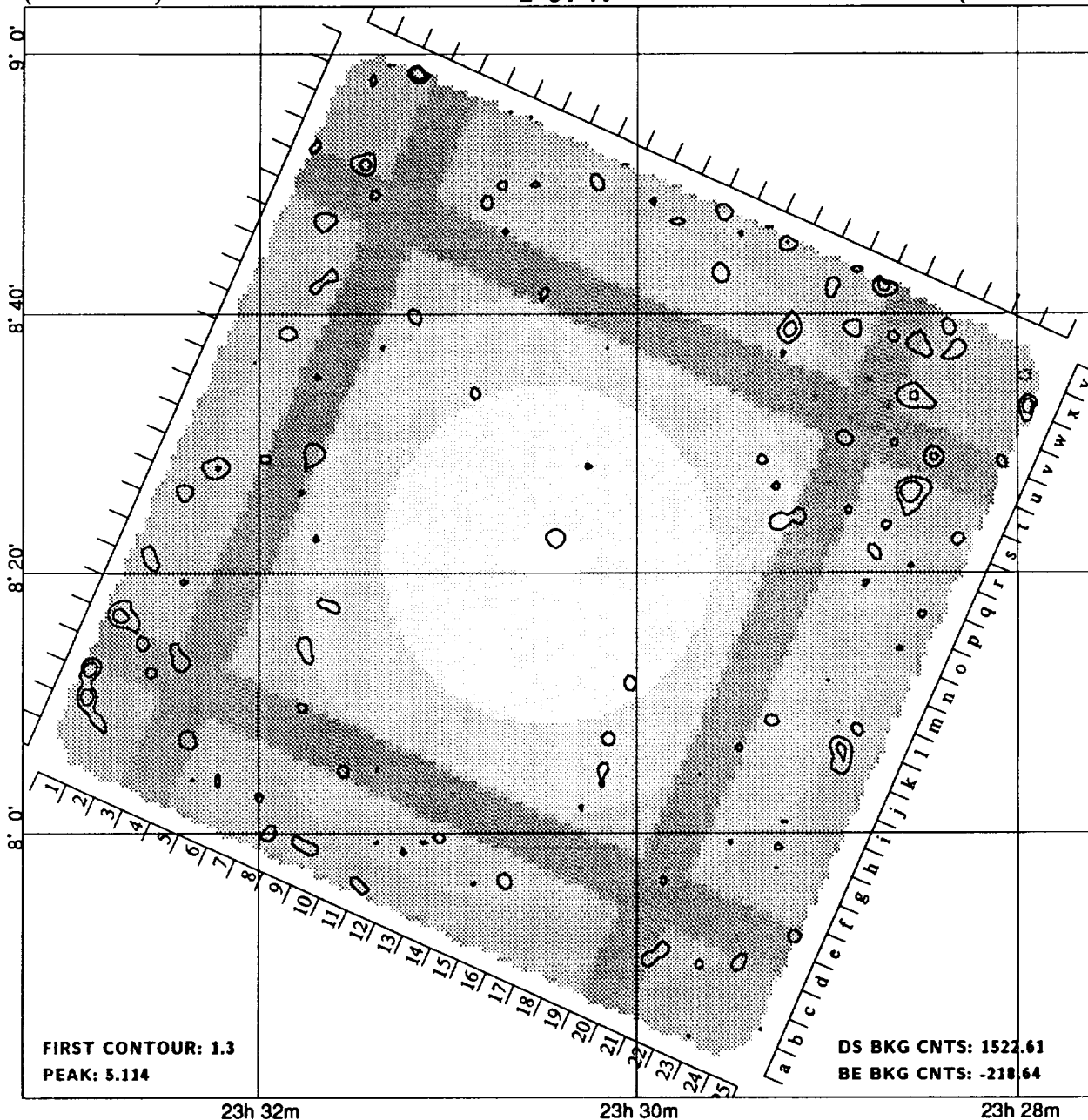
NH: $1.5\text{E}+20$
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4732	1	23 29 19.3	-38 27 37	43	0.0144	0.0035	22.4	6.6	4.2	1.0	0	13.1	H
4734	2	23 30 18.0	-38 05 43	50	0.0290	0.0047	43.3	5.7	6.2	1.2	0	15.3	H S

(23h 30m)

I 6747

(23h 30m)



SEARCH FOR HIGH LX QSO'S: 26

FIELD CENTER: $23^{\text{h}}30^{\text{m}}24.9^{\text{s}}$ $08^{\circ}21'35''$ (B1950)
 $23^{\text{h}}32^{\text{m}}57.4^{\text{s}}$ $08^{\circ}38'10''$ (J2000)
 $l: 92.19$ $b: -49.49$

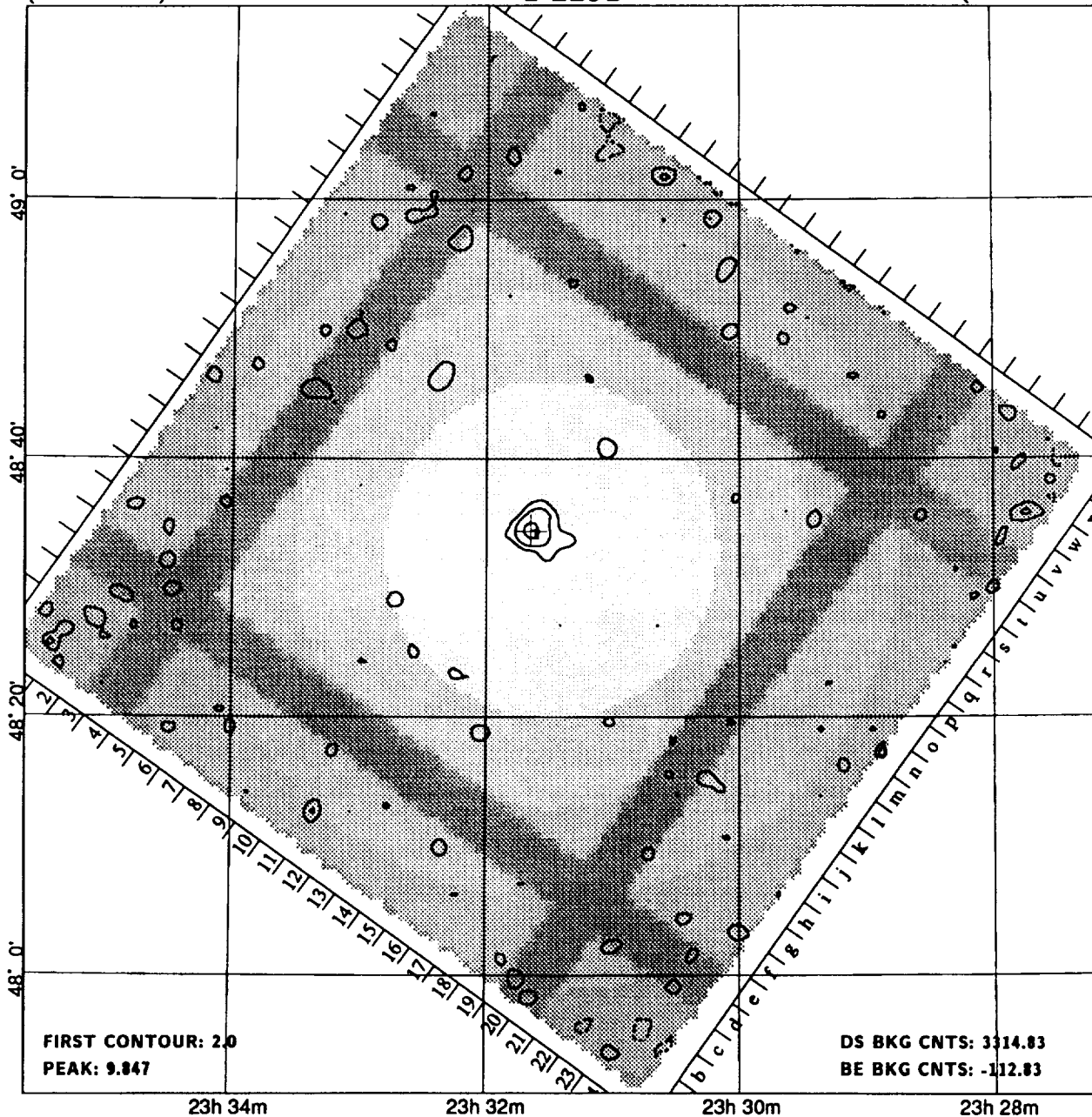
DATE: 1980/171 - 1980/171
LIVETIME: 1233.8s
ROLL ANGLE: -66.1°

NH: $5.5E+20$
REF/ID:
FIELD FLAGS:

(23h 31m)

I 2291

(23h 31m)



STELLAR SURVEY-SYMBIOTIC STARS: Z AND

FIELD CENTER: $23^{\text{h}}31^{\text{m}}23.7^{\text{s}}$ $48^{\circ}32'59''$ (B1950)
 $23^{\text{h}}33^{\text{m}}48.4^{\text{s}}$ $48^{\circ}49'34''$ (J2000)
 $l: 110.00$ $b: -12.09$

DATE: 1979/193 - 1979/193
 LIVETIME: 2686.1s
 ROLL ANGLE: -54.6°

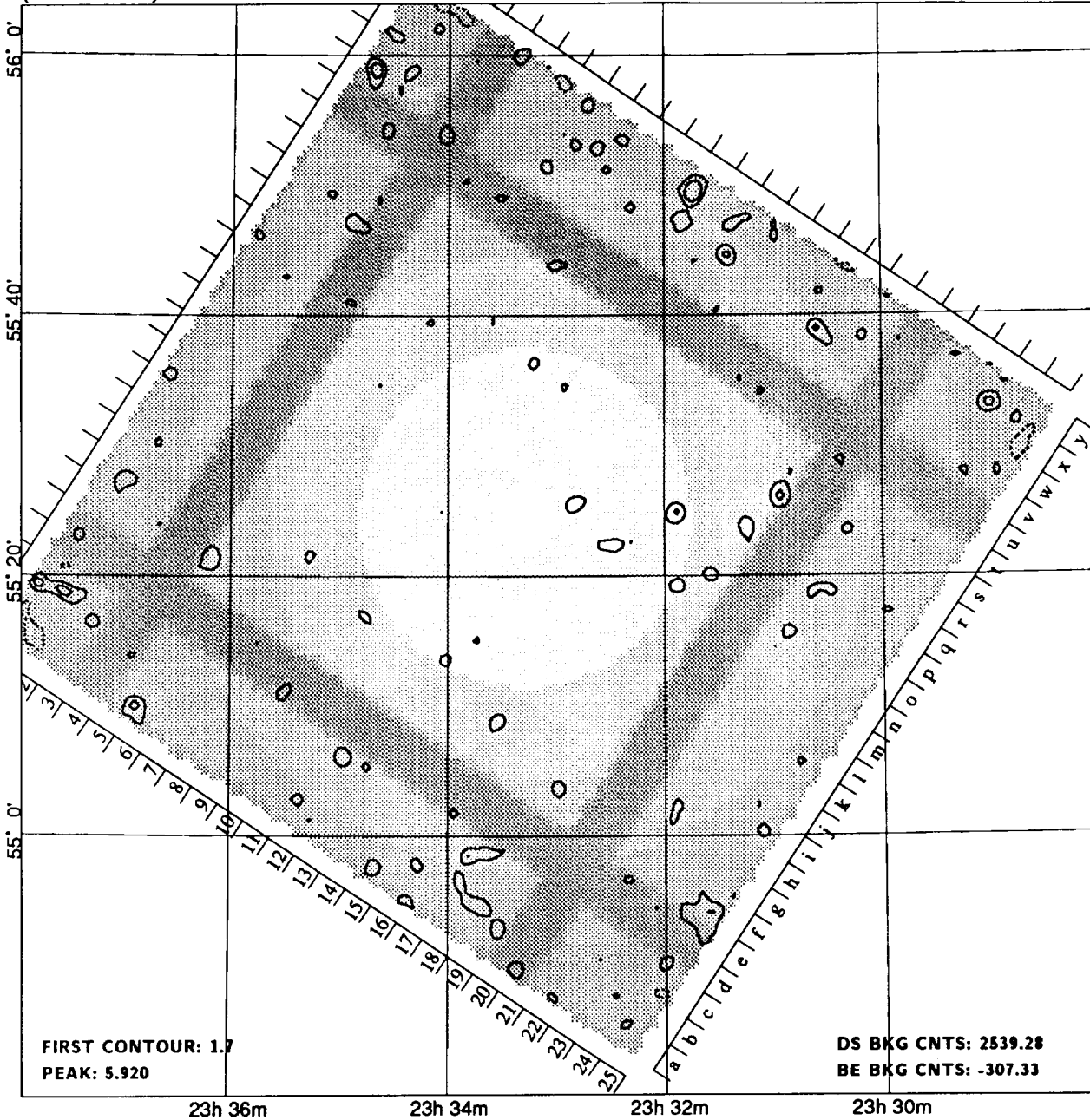
NH: $1.3\text{E}+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4735	1	23 31 39.0	48 34 26	35	0.0207	0.0035	41.0	8.0	5.9	1.4	0	3.1	H	*

(23h 32m)

I 1754

(23h 32m)



CP LAC, OPTICAL NOVA

FIELD CENTER: $23^{\text{h}}32^{\text{m}}59.8^{\text{s}}$ $55^{\circ}21'59''$ (B1950)
 $23^{\text{h}}35^{\text{m}}22.6^{\text{s}}$ $55^{\circ}38'35''$ (J2000)
 $l: 112.28$ $b: -5.65$

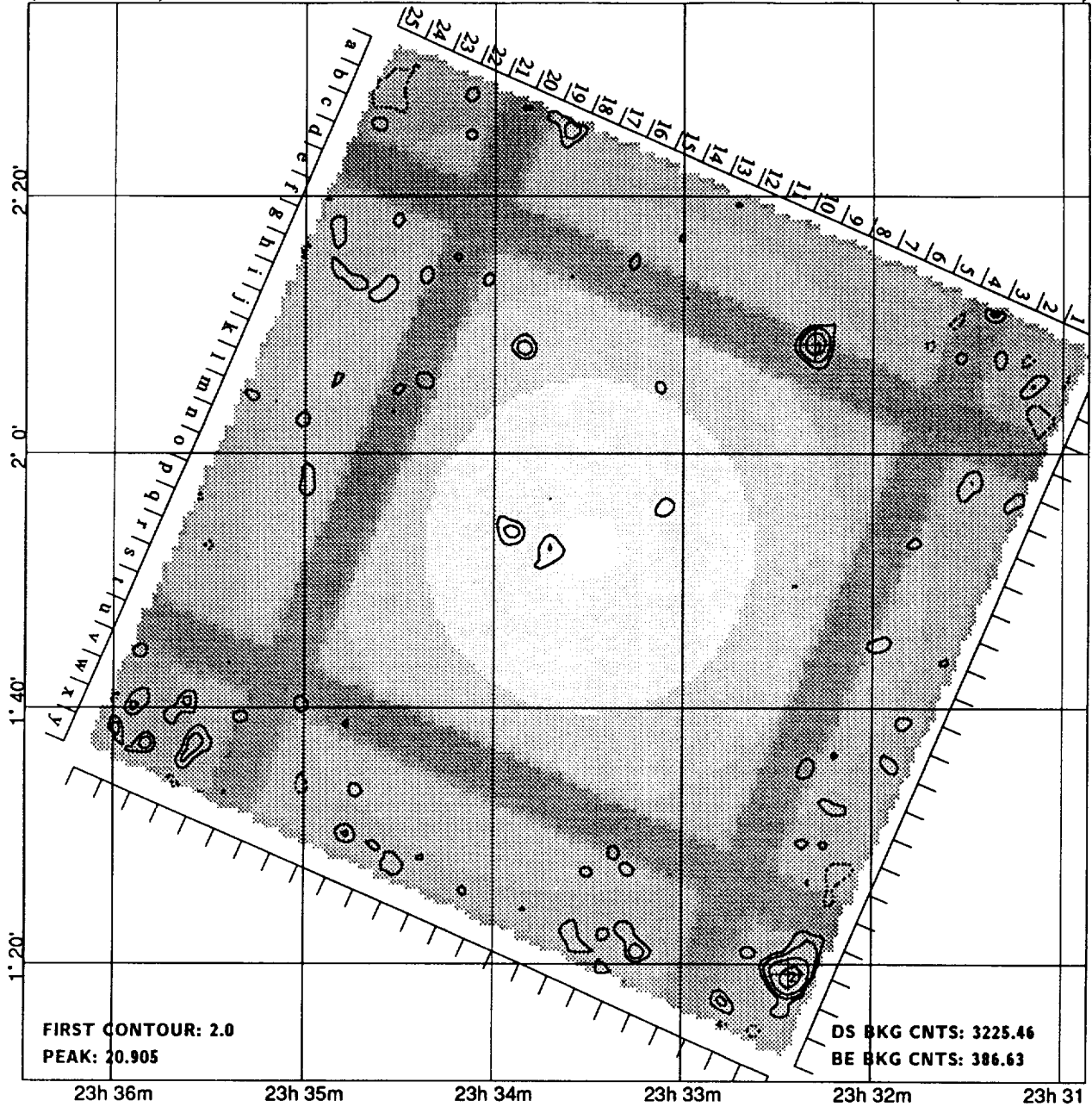
DATE: 1979/191 - 1979/191
 LIVETIME: 2057.6s
 ROLL ANGLE: -56.6°

NH: $3.6\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(23h 33m)

I 4043

(23h 33m)



FIRST CONTOUR: 2.0
PEAK: 20.905

DS BKG CNTS: 3225.46
BE BKG CNTS: 386.63

23h 36m 23h 35m 23h 34m 23h 33m 23h 32m 23h 31m

NGC 7714 NUCLEUS

FIELD CENTER: 23^h33^m39.8^s 01°52'59" (B1950)
23^h36^m13.3^s 02°09'36" (J2000)
l: 88.22 b: -55.56

DATE: 1979/354 - 1979/354
LIVETIME: 2613.7s
ROLL ANGLE: 113.5°

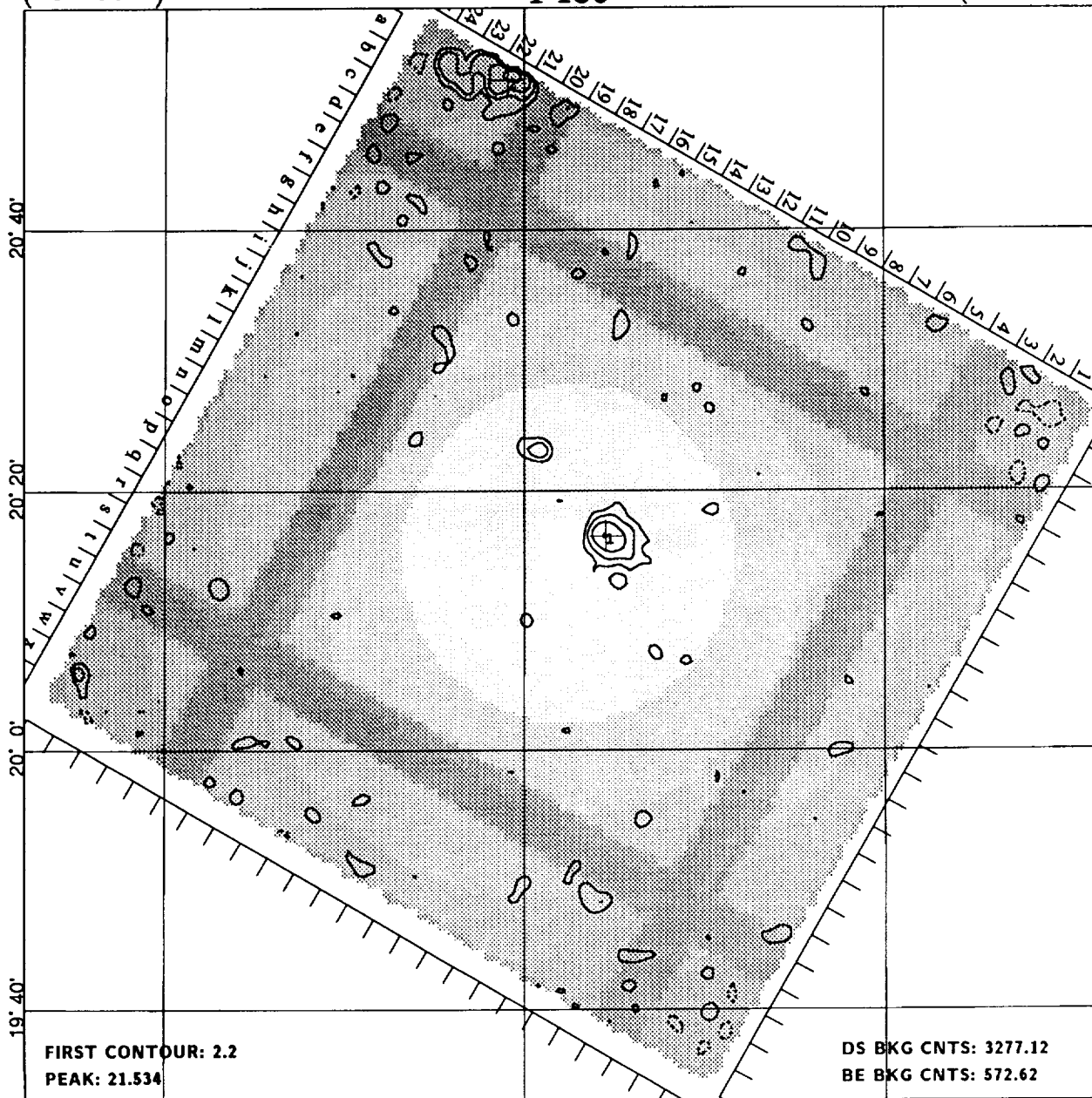
NH: 4.9E+20
REF/ID: !
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4736	1	23 32 18.4	02 08 26	51	*0.0253	0.0050	29.7	4.3	5.1	0.9	1007	25.7	H	
4737	2	23 32 26.0	01 19 15	51	0.0499	0.0096	31.2	4.8	5.2	1.4	0	38.2	H	S

(23h 33m)

I 156

(23h 33m)



A2625 CLUSTER SURFACE BRIGHTNESS

FIELD CENTER: $23^{\text{h}}33^{\text{m}}47.8^{\text{s}}$ $20^{\circ}14'59''$ (B1950)
 $23^{\text{h}}36^{\text{m}}18.9^{\text{s}}$ $20^{\circ}31'36''$ (J2000)
 $l: 100.11$ $b: -38.99$

DATE: 1979/ 6 - 1979/ 6
 LIVETIME: 2655.5s
 ROLL ANGLE: 119.9°

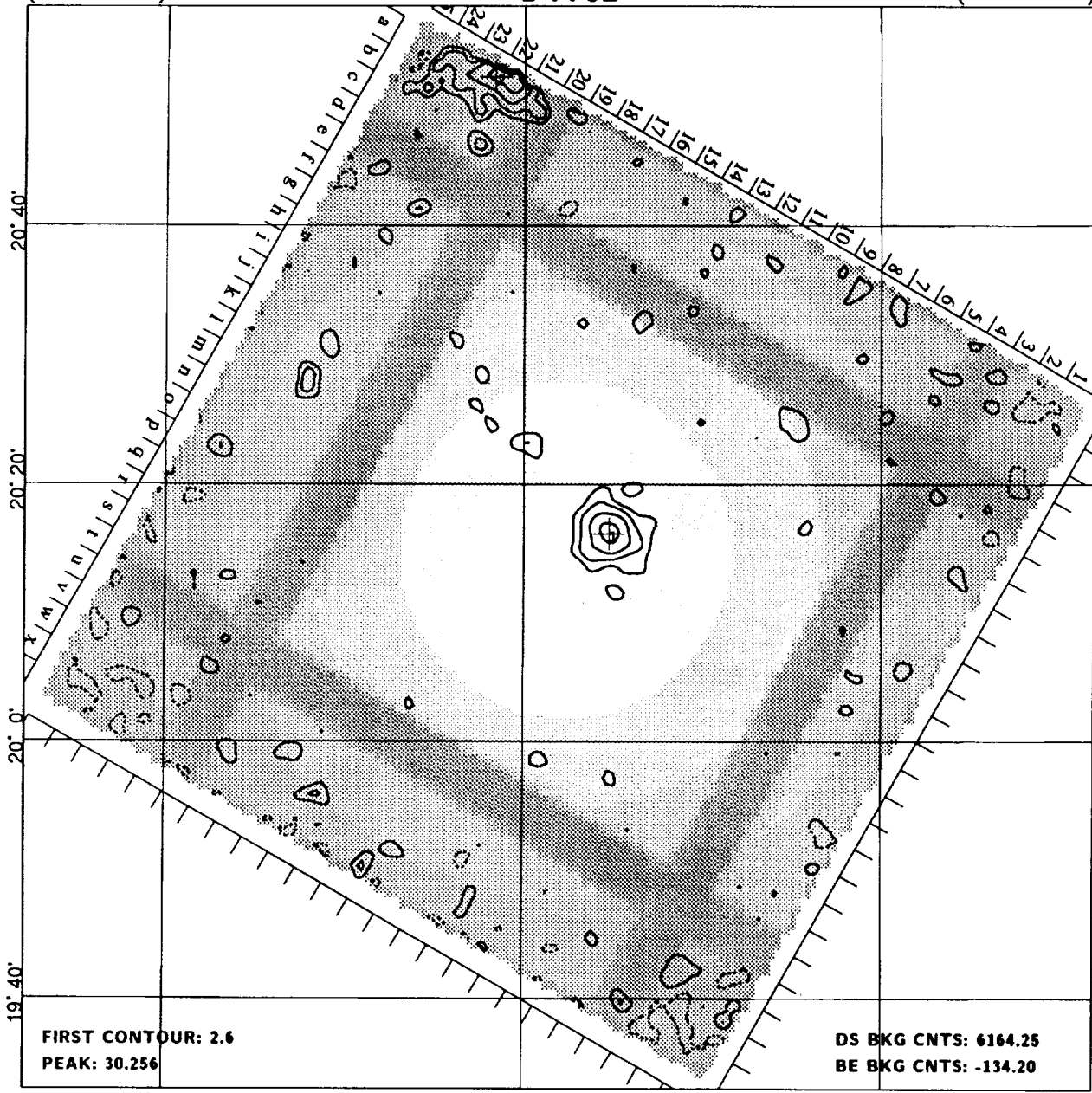
NH: $4.2\text{E}+20$
 REF/ID: !
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4738	1	23 33 32.7	20 16 25	32	0.0390	0.0048	75.5	9.5	8.2	1.5	0	3.6	AH	
4739	2	23 34 05.5	20 51 30	52	*0.0524	0.0099	30.7	3.3	5.3	1.8	501	36.7	AEH	CLG

(23h 33m)

I 7702

(23h 33m)



ABELL 2625, CLUSTERS OF GALAXIES

FIELD CENTER: $23^{\text{h}}33^{\text{m}}47.8^{\text{s}}$ $20^{\circ}14'59''$ (B1950)
 $23^{\text{h}}36^{\text{m}}18.9^{\text{s}}$ $20^{\circ}31'36''$ (J2000)
 $l: 100.11$ $b: -38.99$

DATE: 1981/ 5 - 1981/ 5
 LIVETIME: 4995.1s
 ROLL ANGLE: 119.7°

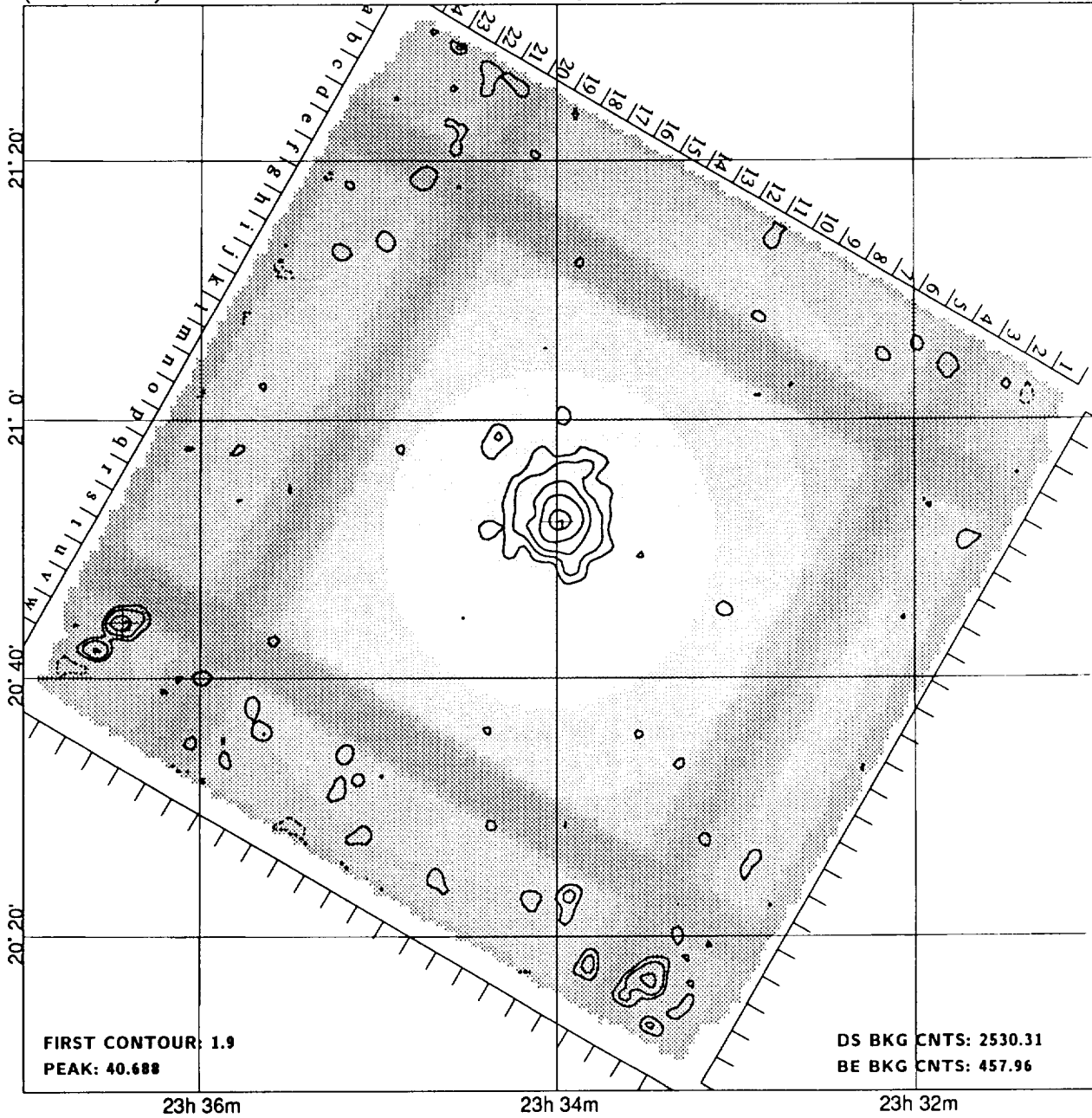
NH: $4.2\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4738	1	23 33 31.3	20 16 12	31	0.0320	0.0032	116.2	14.8	10.2	1.8	0	4.0	AH	
4739	2	23 34 09.9	20 51 34	51	*0.0313	0.0059	33.8	6.2	5.3	2.8	702	37.0	AEH	CLG

(23h 33m)

I 201

(23h 33m)



A2626 CLUSTER SURFACE BRIGHTNESS

FIELD CENTER: $23^h 33^m 59.8^s$ $20^\circ 49' 58''$ (B1950)
 $23^h 36^m 30.8^s$ $21^\circ 06' 35''$ (J2000)
 $l: 100.44$ $b: -38.47$

DATE: 1979/ 6 - 1979/ 7
 LIVETIME: 2050.4s
 ROLL ANGLE: 120.1°

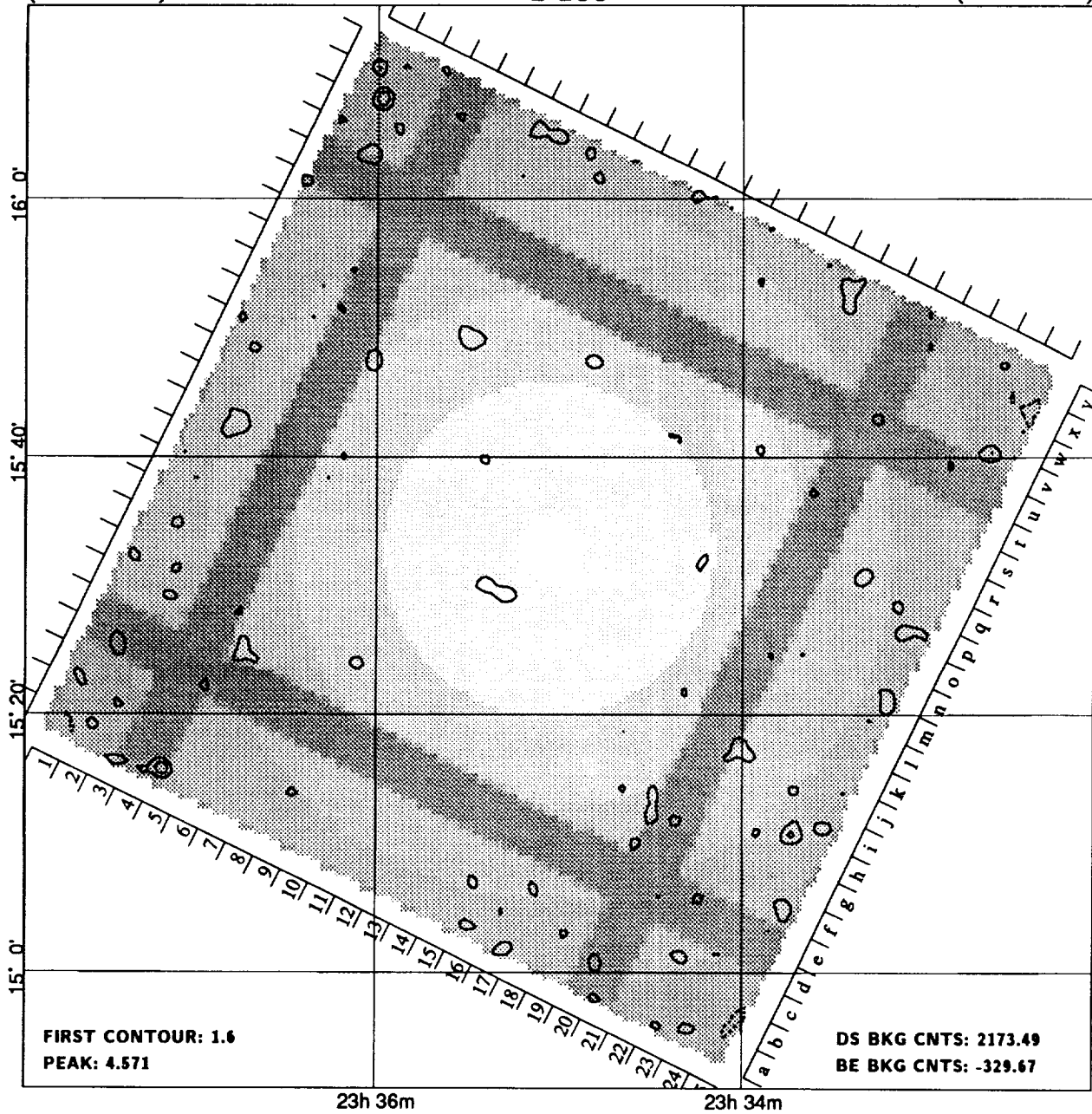
NH: $4.2E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4739	1	23 33 59.7	20 52 05	31	0.1154	0.0089	175.8	8.2	13.0	2.5	0	2.3	AH	CLG
4746	2	23 36 26.1	20 44 14	55	*0.0272	0.0075	15.9	3.1	3.6	0.9	501	34.7	H	

(23h 34m)

I 155

(23h 34m)



FIRST CONTOUR: 1.6
PEAK: 4.571

DS BKG CNTS: 2173.49
BE BKG CNTS: -329.67

23h 36m

23h 34m

A2630 CLUSTER SURFACE BRIGHTNESS

FIELD CENTER: 23^h34^m59.8^s 15°32'59" (B1950)
23^h37^m31.6^s 15°49'36" (J2000)
l: 98.10 *b*: -43.45

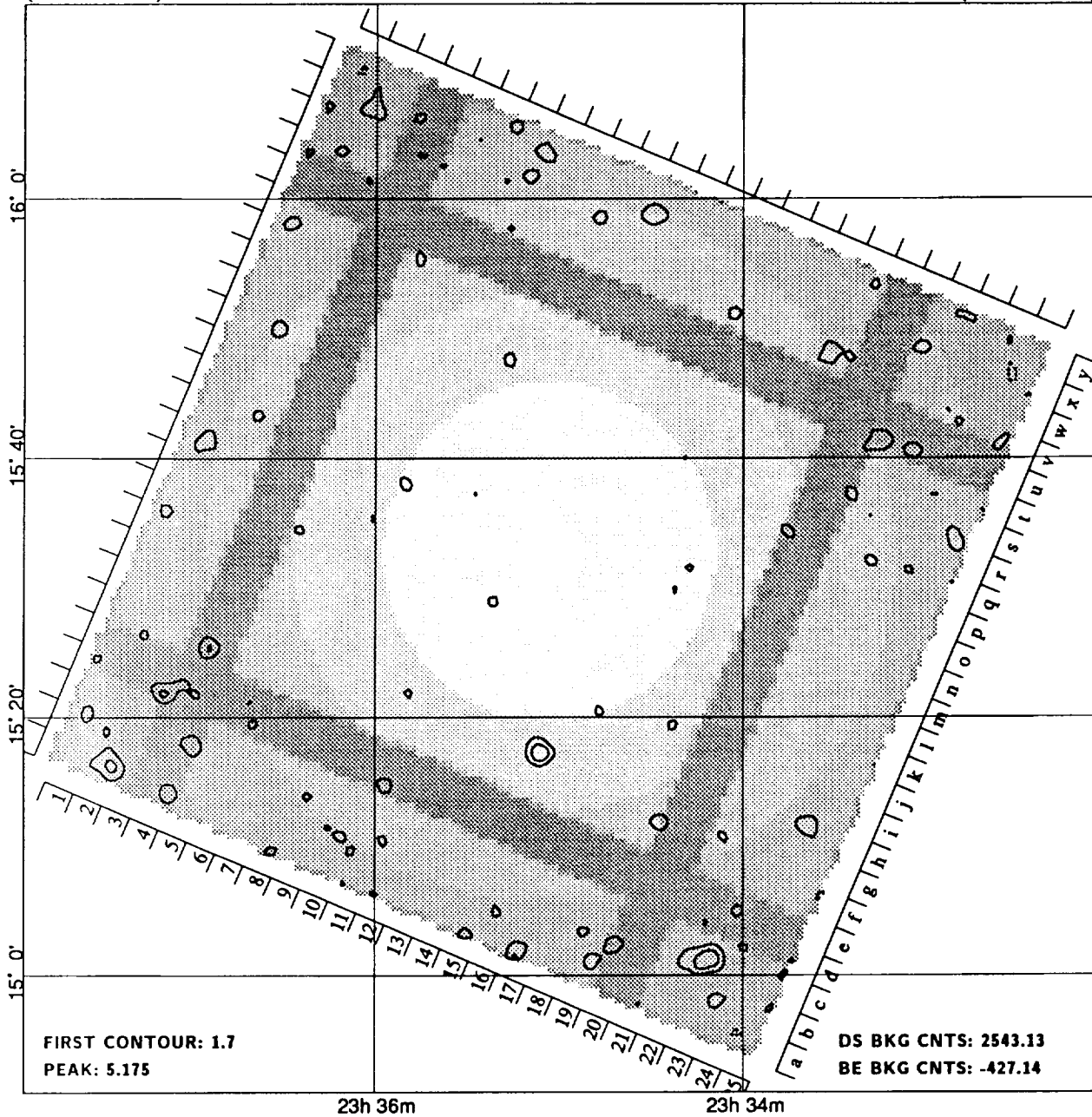
DATE: 1979/179 - 1979/179
LIVETIME: 1761.2s
ROLL ANGLE: -64.0°

NH: 3.7E+20
REF/ID:
FIELD FLAGS: C

(23h 34m)

I 7704

(23h 34m)



ABELL 2630, CLUSTERS OF GALAXIES

FIELD CENTER: $23^{\text{h}}34^{\text{m}}59.8^{\text{s}}$ $15^{\circ}32'59''$ (B1950)
 $23^{\text{h}}37^{\text{m}}31.6^{\text{s}}$ $15^{\circ}49'36''$ (J2000)
 $l: 98.10$ $b: -43.45$

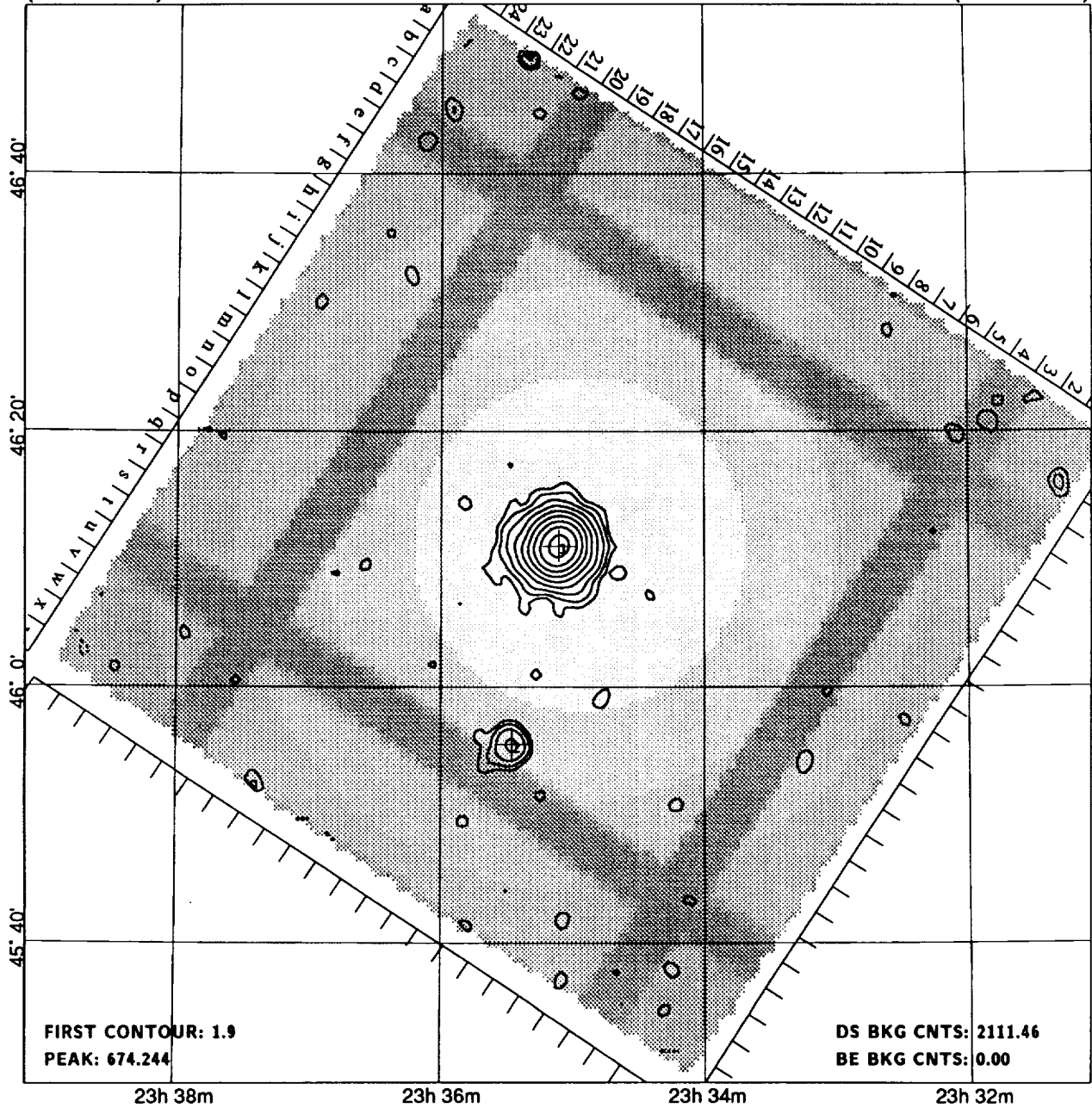
DATE: 1980/168 - 1980/168
 LIVETIME: 2060.8s
 ROLL ANGLE: -67.1°

NH: $3.7\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

(23h 35m)

I 3235

(23h 35m)



RS CVN SYSTEMS: LAMBDA AND

FIELD CENTER: $23^{\text{h}}35^{\text{m}}06.3^{\text{s}}$ $46^{\circ}11'13''$ (B1950)
 $23^{\text{h}}37^{\text{m}}32.8^{\text{s}}$ $46^{\circ}27'50''$ (J2000)
 $l: 109.90$ $b: -14.53$

DATE: 1980/ 8 - 1980/ 8
 LIVETIME: 1711.0s
 ROLL ANGLE: 123.2°

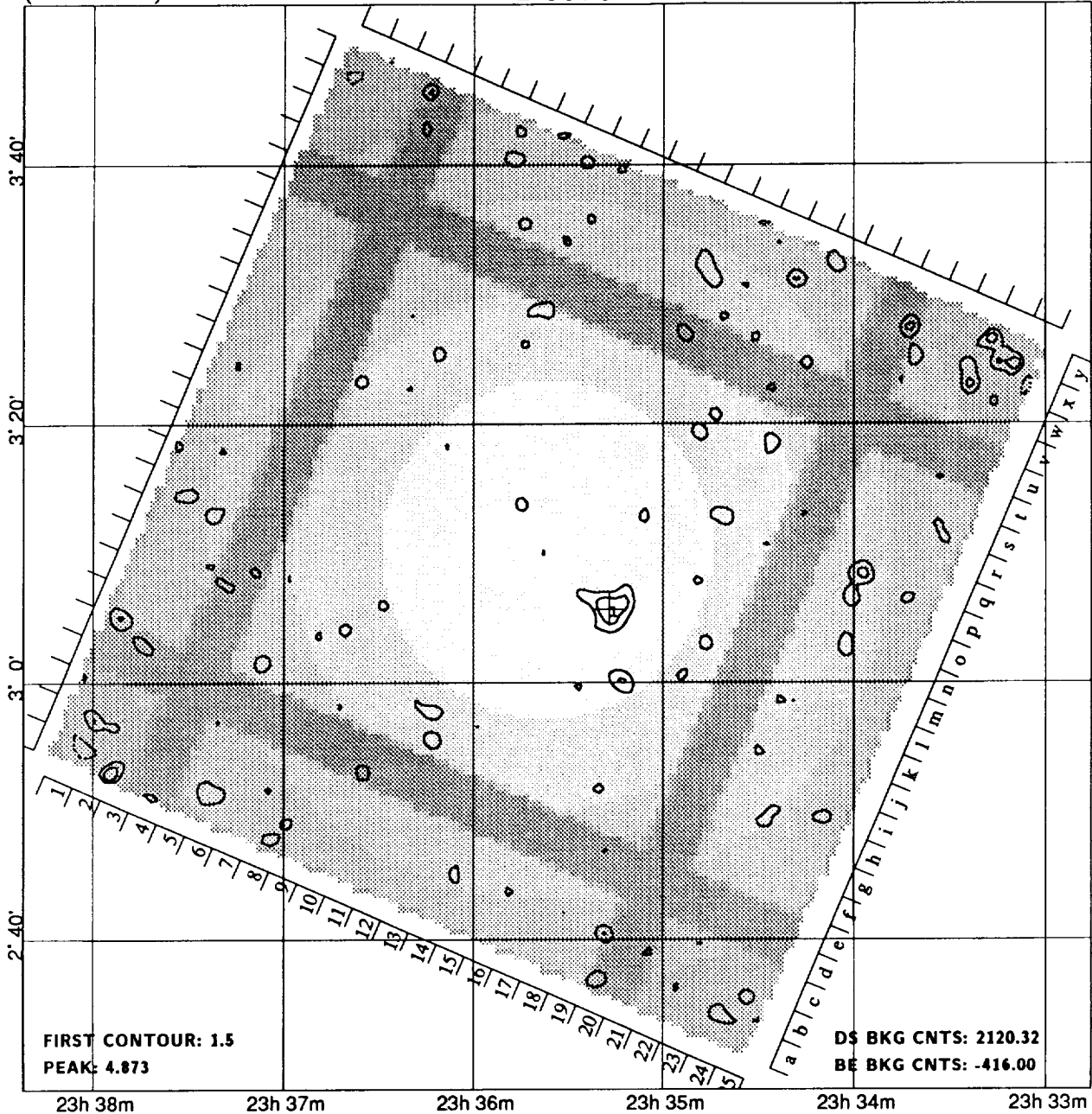
NH: $1.1\text{E}+21$
 REF/ID: S
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4740	1L	23 35 06.2	46 11 05	31	2.080	0.050	2631.4	453.6	41.3	1.4	0	0.2	CV
4742	2L	23 35 27.6	45 55 30	50	*0.0586	0.0097	56.8	3.9	5.9	1.1	501	16.2	S

(23h 35m)

I 3076

(23h 35m)



PKS 2335+03: BL LAC'S IN CLUSTERS OF GALAXIES

FIELD CENTER: $23^{\text{h}}35^{\text{m}}33.7^{\text{s}}$ $03^{\circ}10'23''$ (B1950)
 $23^{\text{h}}38^{\text{m}}07.1^{\text{s}}$ $03^{\circ}27'01''$ (J2000)
 $l: 90.05$ $b: -54.67$

DATE: 1979/166 - 1979/166
 LIVETIME: 1718.1s
 ROLL ANGLE: -66.8°

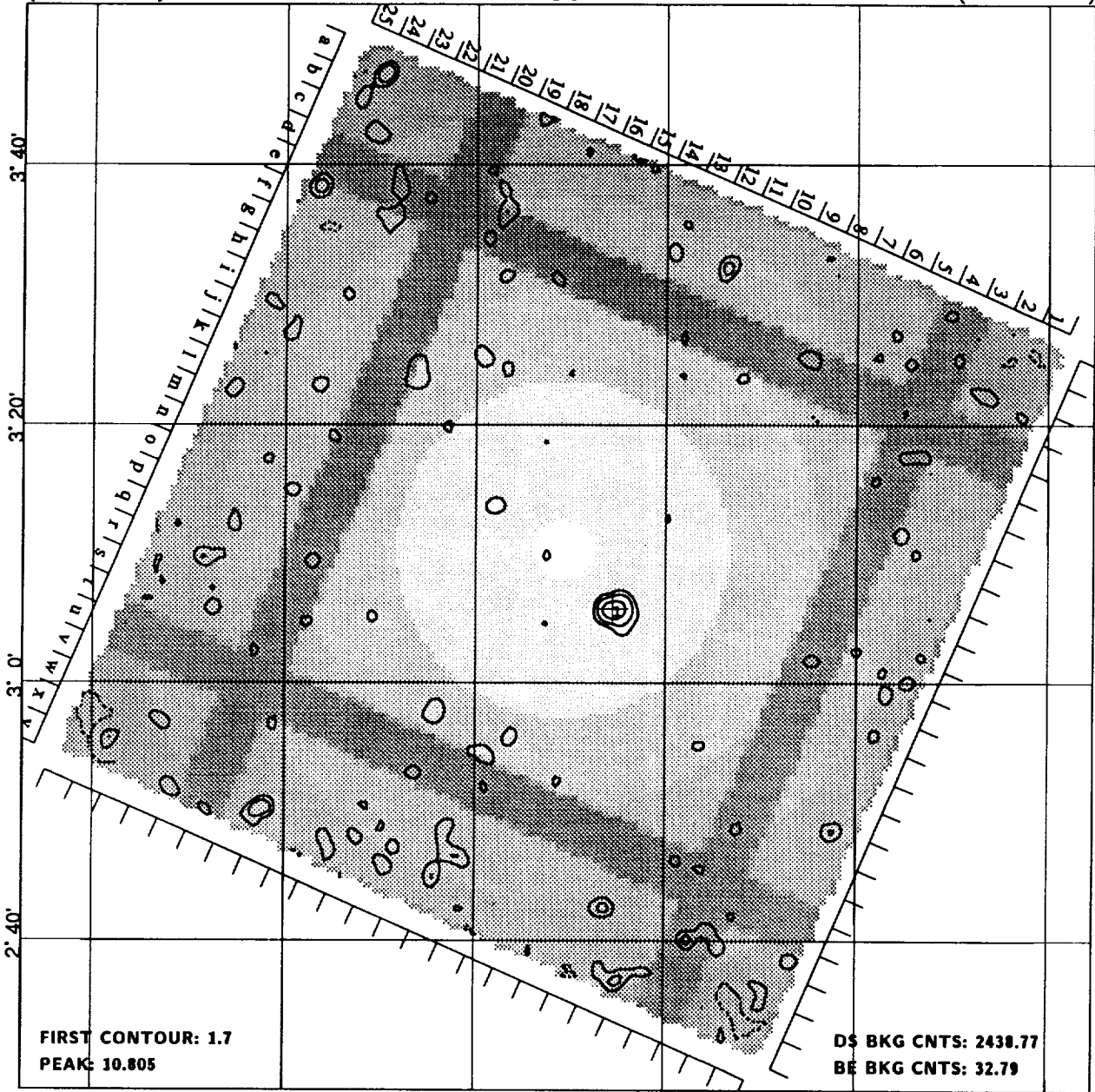
NH: $5.4\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4741	1	23 35 16.9	03 05 32	43	0.0151	0.0039	18.1	3.9	3.9	1.1	0	6.4	AH S

(23h 35m)

I 3077

(23h 35m)



PKS 2335+03: BL LAC'S IN CLUSTERS OF GALAXIES

FIELD CENTER: $23^{\text{h}}35^{\text{m}}33.7^{\text{s}}$ $03^{\circ}10'23''$ (B1950)
 $23^{\text{h}}38^{\text{m}}07.1^{\text{s}}$ $03^{\circ}27'01''$ (J2000)
 $l: 90.05$ $b: -54.67$

DATE: 1979/354 - 1979/354
 LIVETIME: 1976.2s
 ROLL ANGLE: 113.5°

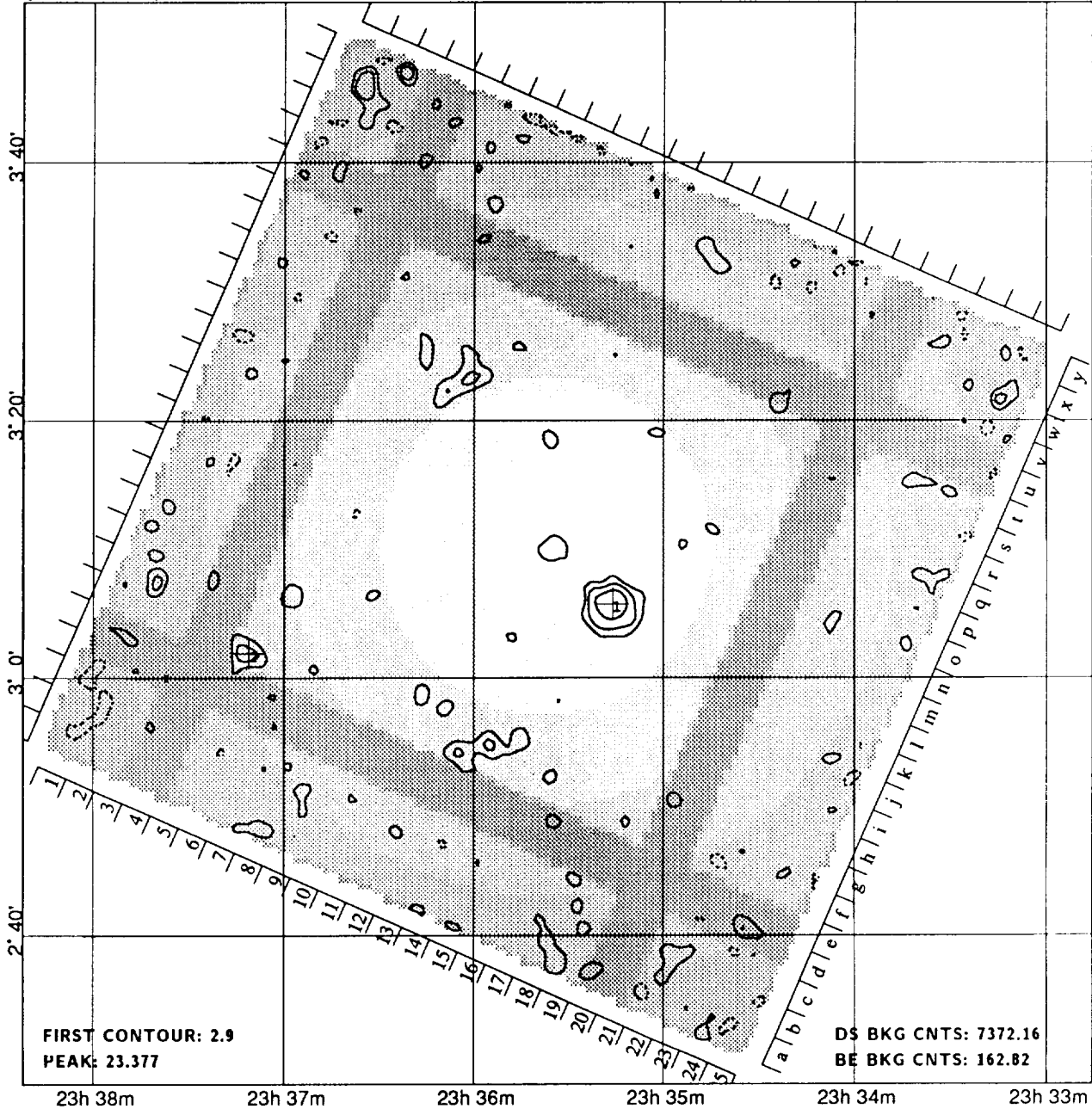
NH: $5.4\text{E}+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4741	1	23 35 16.7	03 05 46	41	0.0271	0.0048	37.9	6.1	5.7	1.0	0	6.2	AH	S

(23h 35m)

I 7730

(23h 35m)



FIRST CONTOUR: 2.9
PEAK: 23.377

DS BKG CNTS: 7372.16
BE BKG CNTS: 162.82

PKS 2335+03, BL LAC OBJECTS W/GROUPS OR CLUSTERS OF GALAXIES

FIELD CENTER: $23^h 35^m 33.7^s$ $03^{\circ} 10' 23''$ (B1950)
 $23^h 38^m 07.1^s$ $03^{\circ} 27' 01''$ (J2000)
 $l: 90.05$ $b: -54.67$

DATE: 1980/172 - 1980/173
 LIVETIME: 5973.9s
 ROLL ANGLE: -66.3°

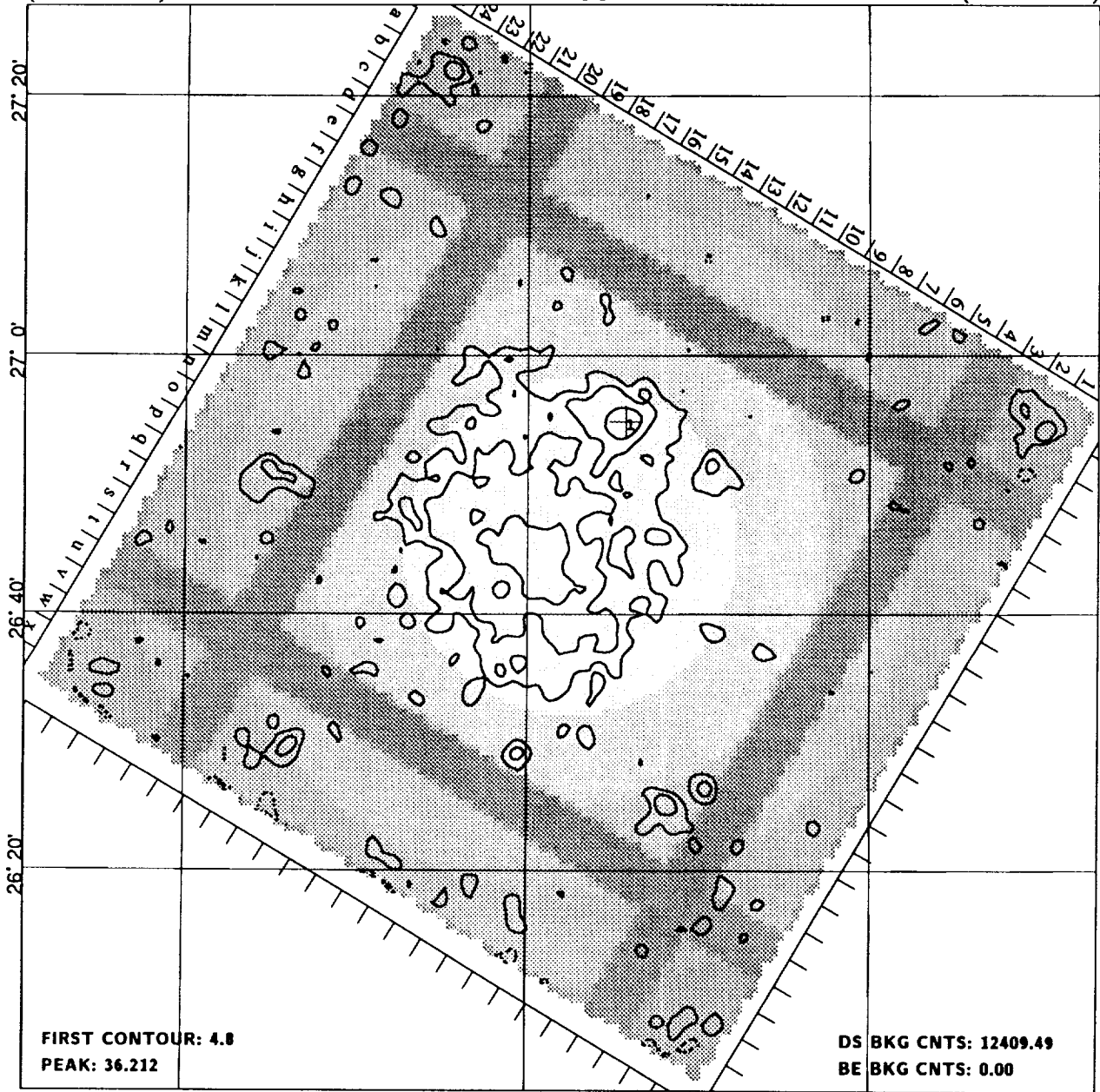
NH: $5.4E+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4741	1	23 35 16.0	03 05 44	38	0.0210	0.0025	87.6	18.4	8.5	1.4	0	6.4	AH S
4748	2	23 37 11.1	03 01 54	56	0.0078	0.0022	20.0	11.0	3.6	0.8	900	25.8	H

(23h 35m)

I 199

(23h 35m)



A2634 CLUSTER SURFACE BRIGHTNESS

FIELD CENTER: $23^{\text{h}}35^{\text{m}}47.8^{\text{s}}$ $26^{\circ}44'59''$ (B1950)
 $23^{\text{h}}38^{\text{m}}18.2^{\text{s}}$ $27^{\circ}01'37''$ (J2000)
 $l: 103.45$ $b: -33.06$

DATE: 1979/ 7 - 1979/ 7
 LIVETIME: 10055.7s
 ROLL ANGLE: 120.8°

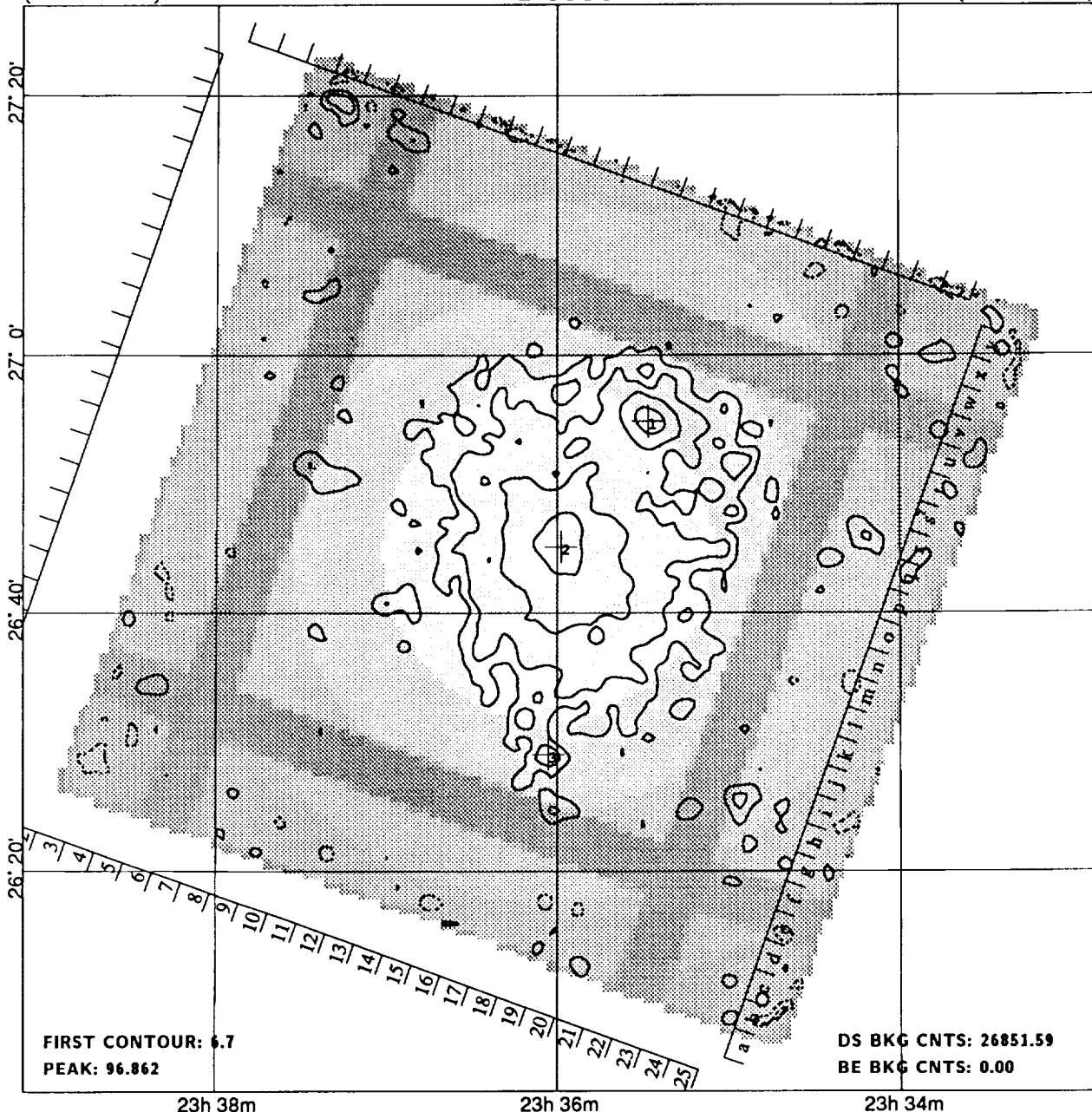
NH: $4.9\text{E}+20$
 REF/ID:
 FIELD FLAGS: LS

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4743	1L	23 35 25.5	26 54 49	38	0.0133	0.0024	88.3	85.7	5.3	22.1	0	11.1	A

(23h 35m)

I 8356

(23h 35m)



A2634, CLUSTERS OF GALAXIES W/ RADIO SOURCES

FIELD CENTER: $23^{\text{h}}35^{\text{m}}59.8^{\text{s}}$ $26^{\circ}44'59''$ (B1950)
 $23^{\text{h}}38^{\text{m}}30.2^{\text{s}}$ $27^{\circ}01'37''$ (J2000)
 $l: 103.50$ $b: -33.08$

DATE: 1980/163 - 1980/164
 LIVETIME: 21758.6s
 ROLL ANGLE: -70.4°

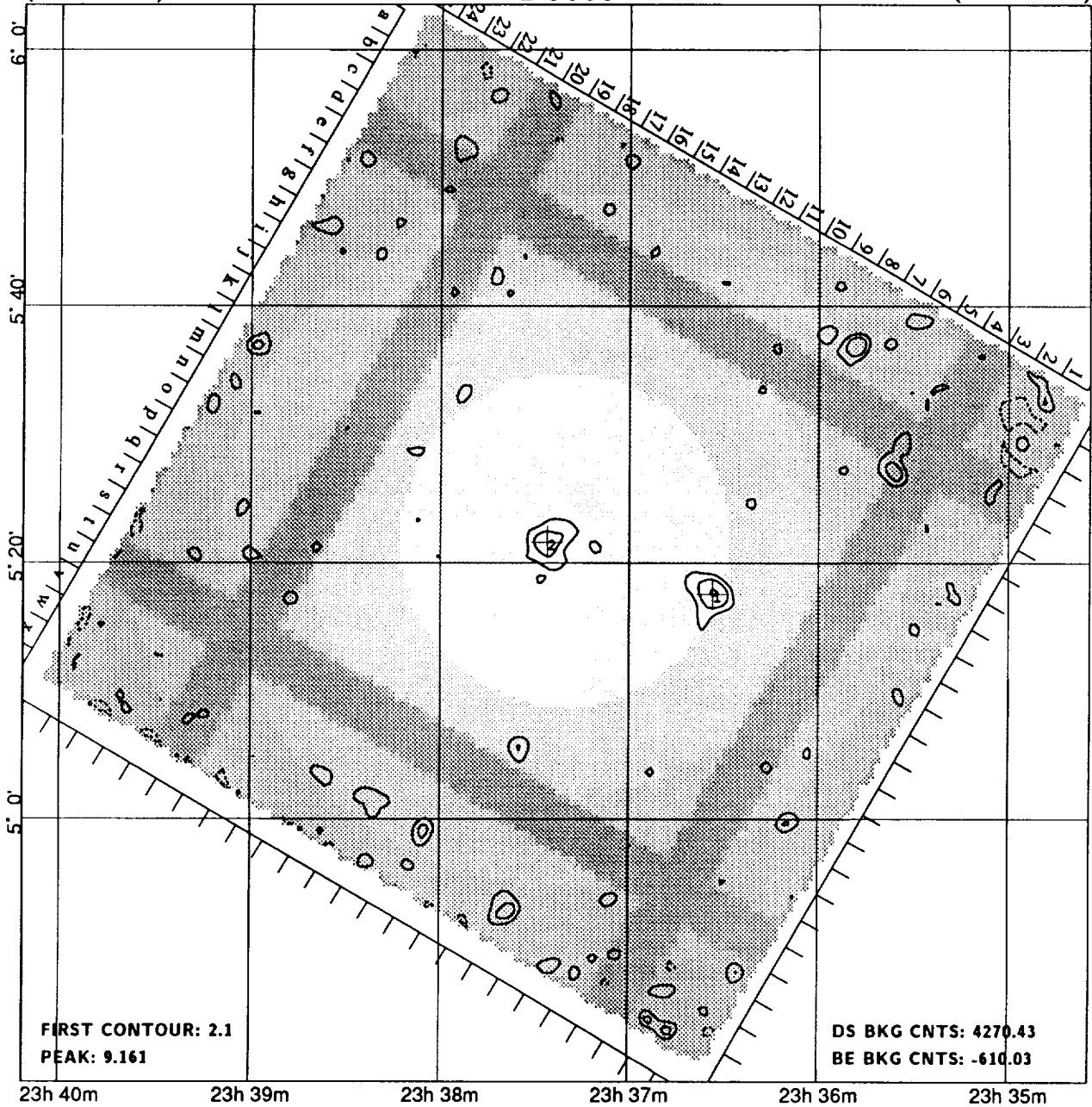
NH: $4.9\text{E}+20$
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4743	1L	23 35 28.0	26 54 50	38	0.0122	0.0017	166.2	191.8	7.0	26.1	0	12.1	A
4744	2L	23 35 58.7	26 45 04	31	0.0115	0.0018	186.3	364.7	6.2	18.5	0	0.2	†
4745	3L	23 36 03.2	26 29 04	55	0.0040	0.0011	50.8	68.2	3.6	114.1	0	16.1	

(23h 37m)

I 5666

(23h 37m)



lots PSC

FIELD CENTER: $23^{\text{h}}37^{\text{m}}22.8^{\text{s}}$ $05^{\circ}21'29''$ (B1950)
 $23^{\text{h}}39^{\text{m}}56.0^{\text{s}}$ $05^{\circ}38'07''$ (J2000)
 $l: 92.46$ $b: -52.95$

DATE: 1981/ 8 - 1981/ 8
 LIVETIME: 3460.4s
 ROLL ANGLE: 120.2°

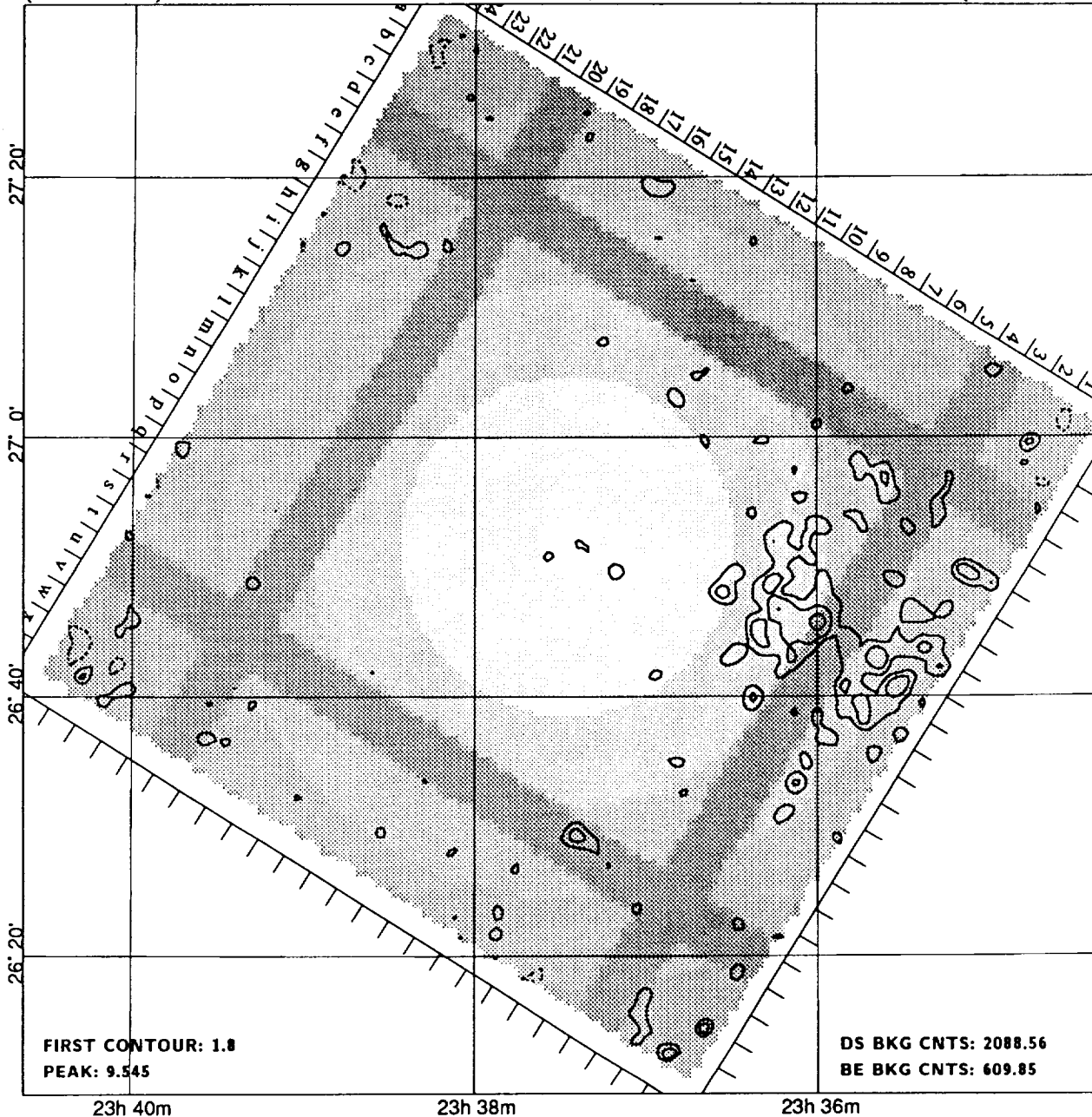
NH: $6.3E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4747	1	23 36 33.4	05 17 32	42	0.0144	0.0029	31.5	7.5	5.0	1.1	0	12.7	H
4749	2	23 37 26.1	05 21 36	36	0.0117	0.0024	30.0	9.0	4.8	1.2	0	0.9	H S

(23h 37m)

I 4552

(23h 37m)

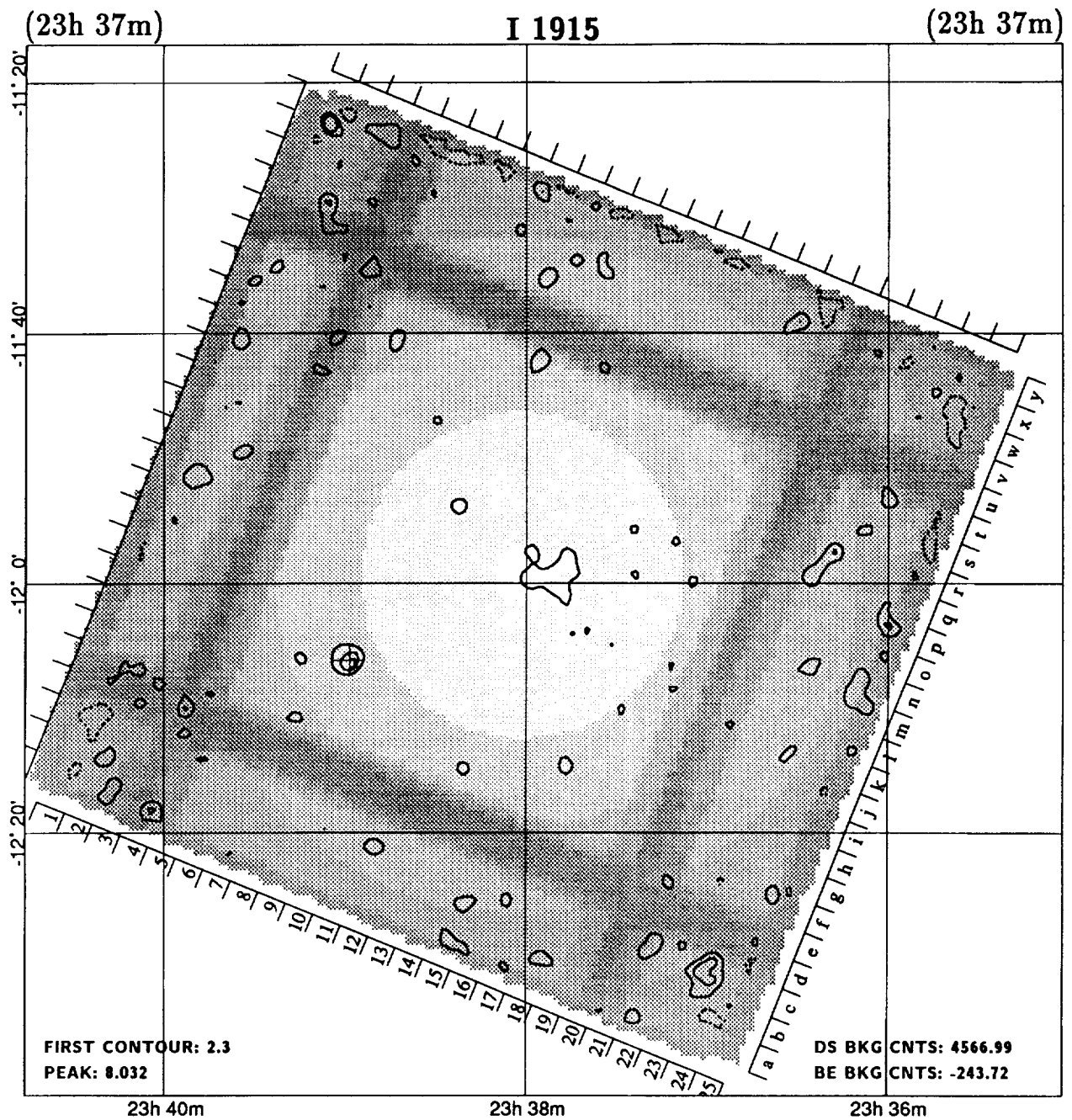


NGC 7728, EL & S0 GAL. WITH COMPACT RADIO CORE

FIELD CENTER: $23^{\text{h}}37^{\text{m}}30.0^{\text{s}}$ $26^{\circ}51'22''$ (B1950)
 $23^{\text{h}}40^{\text{m}}00.6^{\text{s}}$ $27^{\circ}08'00''$ (J2000)
 $l: 103.92$ $b: -33.09$

DATE: 1980/ 9 - 1980/ 9
 LIVETIME: 1692.4s
 ROLL ANGLE: 121.9°

NH: $5.0\text{E}+20$
 REF/ID:
 FIELD FLAGS: LS



A2638=M23-12: X-RAY STUDY OF CLUSTERS OF GALAXIES

FIELD CENTER: $23^{\text{h}}37^{\text{m}}53.7^{\text{s}}$ $-11^{\circ}58'59''$ (B1950)
 $23^{\text{h}}40^{\text{m}}28.8^{\text{s}}$ $-11^{\circ}42'21''$ (J2000)
 $l: 72.29$ $b: -67.30$

DATE: 1980/173 - 1980/173
 LIVETIME: 3700.8s
 ROLL ANGLE: -68.0°

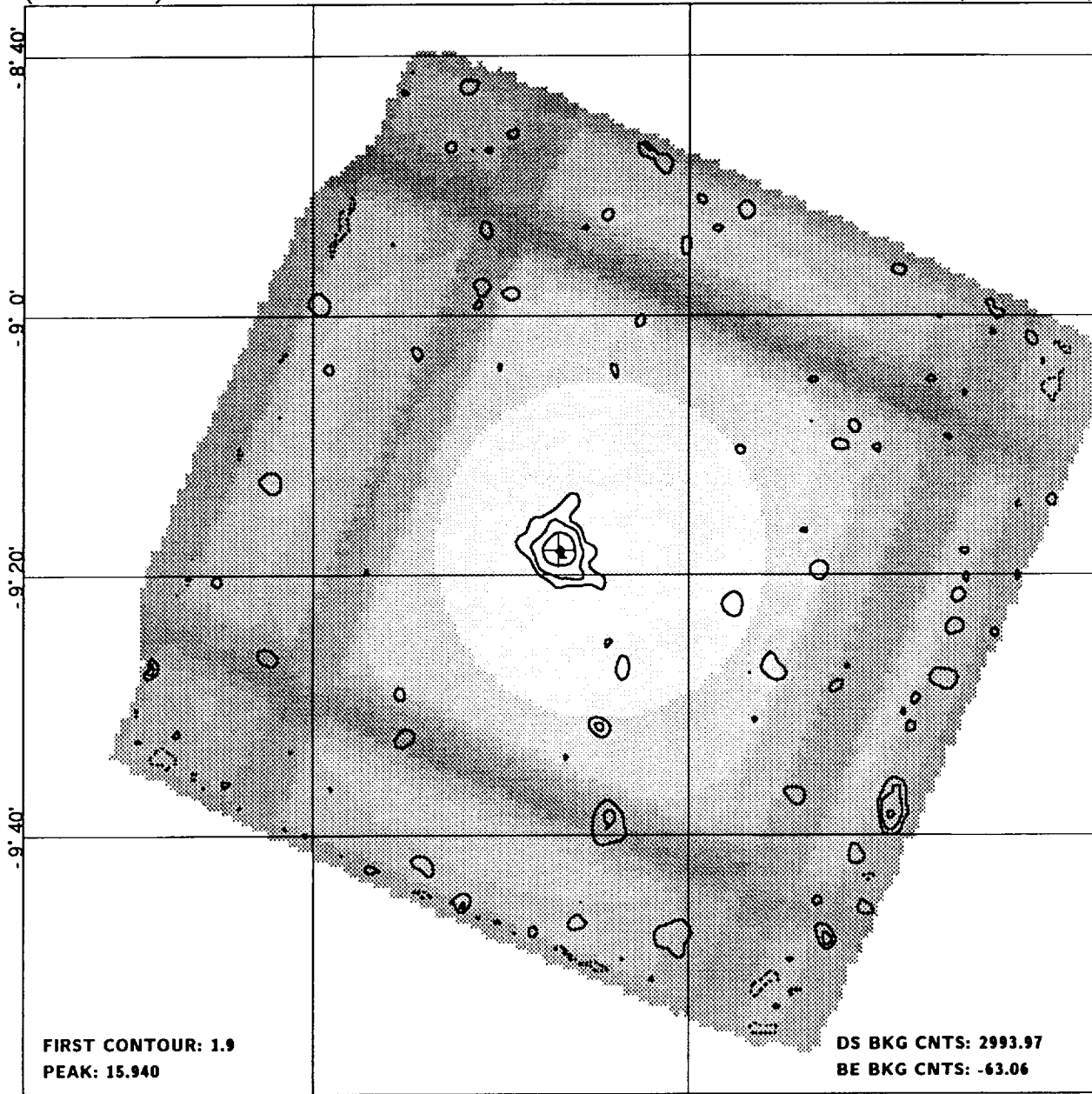
NH: $3.0\text{E}+20$
 REF/ID: !
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4753	1	23 38 58.6	-12 06 06	52	0.0102	0.0025	22.1	7.9	4.0	0.8	0	17.4	

(23h 38m)

I 6852

(23h 38m)



23h 40m

23h 38m

A2645.OBSERVATIONS OF BUTCHER-OEMLER CLUSTERS

FIELD CENTER: $23^{\text{h}}38^{\text{m}}41.8^{\text{s}}$ $-09^{\circ}17'59''$ (B1950)
 $23^{\text{h}}41^{\text{m}}16.5^{\text{s}}$ $-09^{\circ}01'21''$ (J2000)
 $l: 77.17$ $b: -65.45$

DATE: 1980/345 - 1980/346
 LIVETIME: 2426.1s

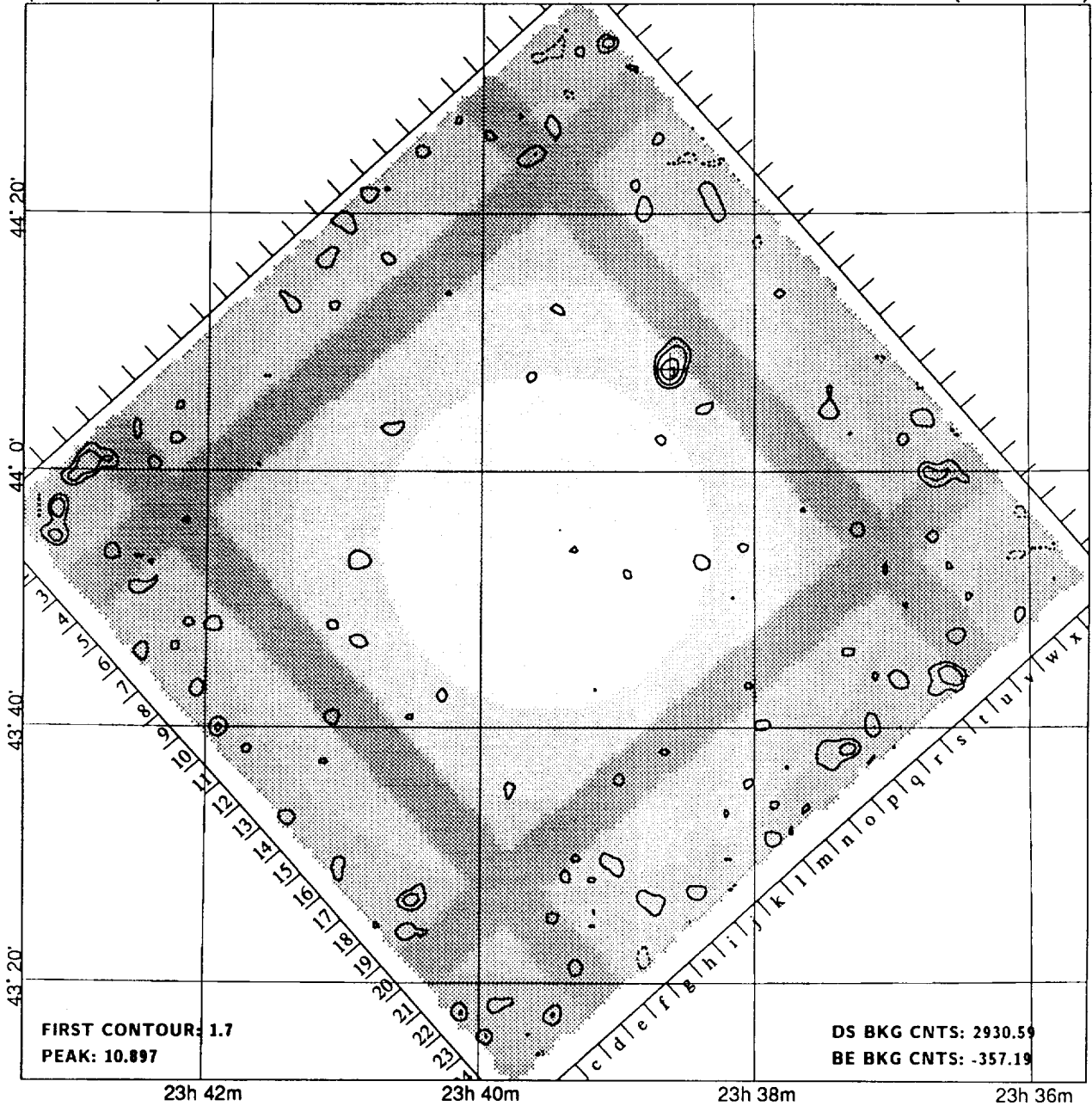
NH: $3.1\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4752	1	23 38 41.5	-09 18 06	35	0.0357	0.0047	63.7	6.3	7.6	1.7	0	0.2	H	CLG

(23h 39m)

I 7706

(23h 39m)



ROSS 248, NEARBY STARS

FIELD CENTER: $23^{\text{h}} 39^{\text{m}} 26.8^{\text{s}}$ $43^{\circ} 54' 23''$ (B1950)
 $23^{\text{h}} 41^{\text{m}} 55.1^{\text{s}}$ $44^{\circ} 11' 02''$ (J2000)
 $l: 109.99$ $b: -16.93$

DATE: 1980/211 - 1980/211
 LIVETIME: 2374.7s
 ROLL ANGLE: -41.8°

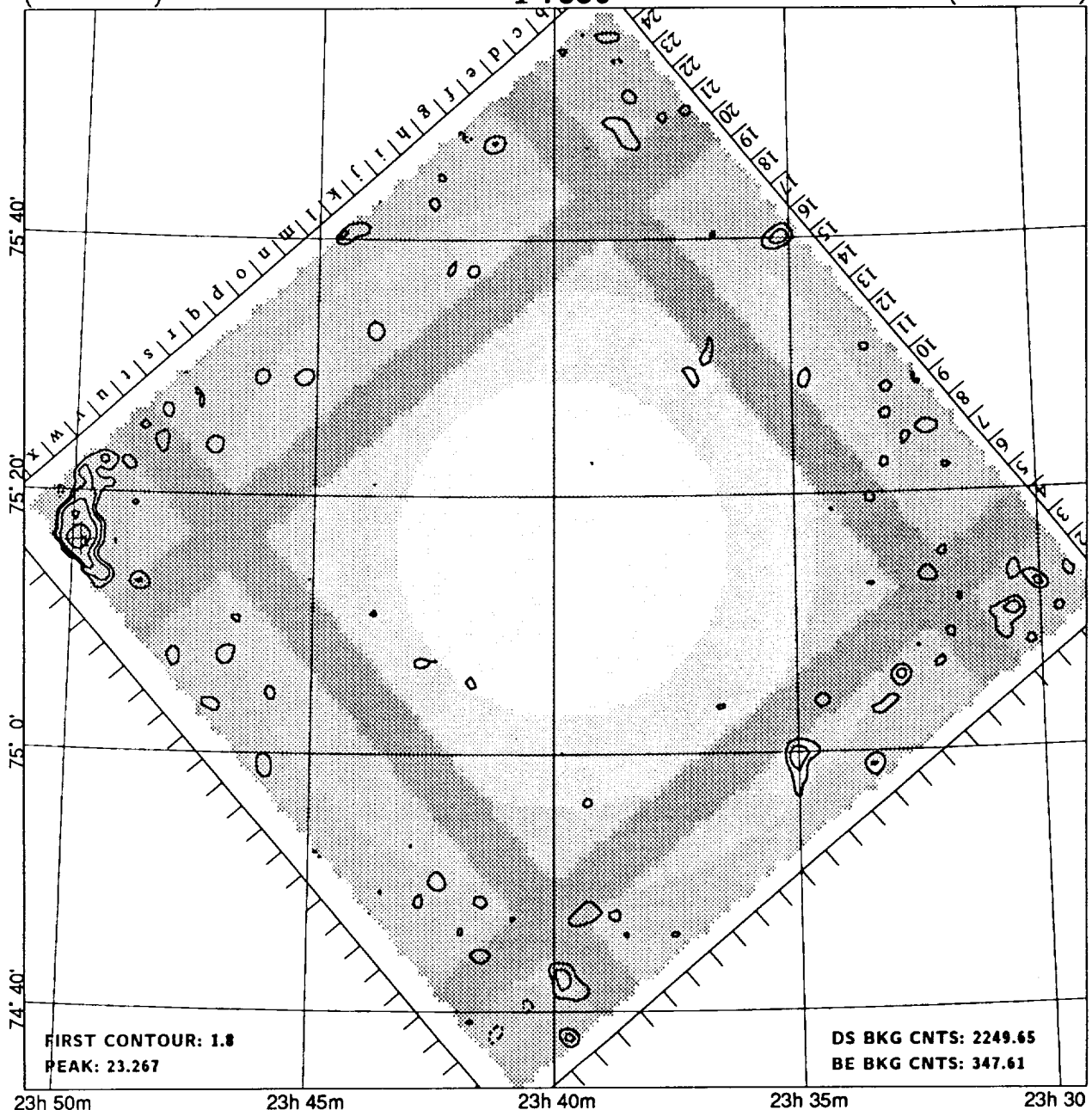
NH: $9.2E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4750	1	23 38 37.4	44 08 00	51	0.0233	0.0045	31.2	4.8	5.2	0.9	400	16.2	H

(23h 39m)

I 7356

(23h 39m)



HD223778,DM & DK STARS:CORRELATION OF ROTATION & X-RAYS

FIELD CENTER: $23^h 39^m 59.8^s$ $75^\circ 15' 59''$ (B1950)
 $23^h 42^m 12.4^s$ $75^\circ 32' 38''$ (J2000)
 $l: 118.56$ $b: 13.26$

DATE: 1981/ 30 - 1981/ 30
 LIVETIME: 1823.0s
 ROLL ANGLE: 139.6°

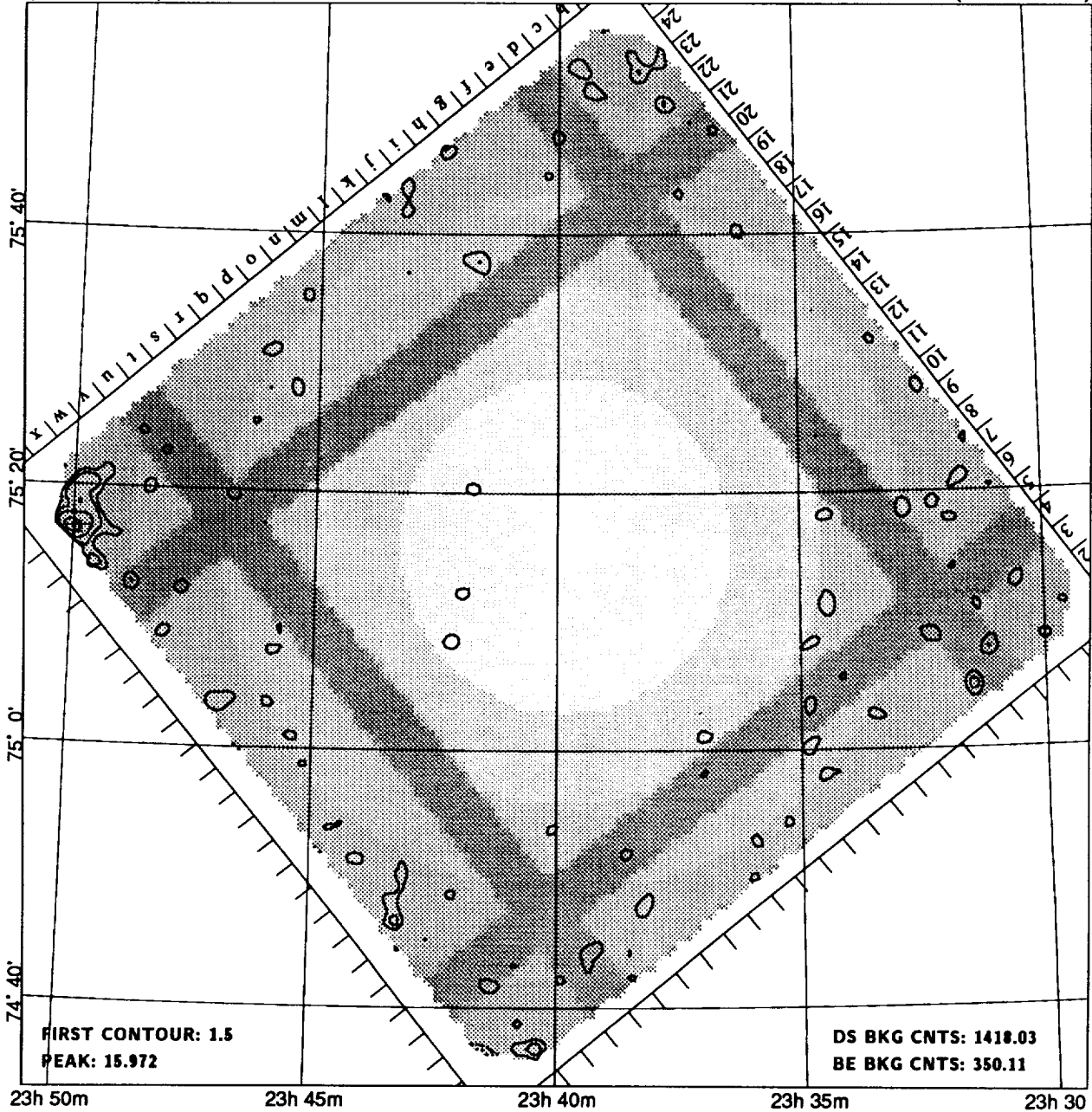
NH: $2.2E+21$
 REF/ID:
 FIELD FLAGS: CS

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4782	1	23 49 50.1	75 16 14	51	0.065	0.014	25.8	3.2	4.8	1.8	300	37.8	AH	S

(23h 39m)

I 7357

(23h 39m)



HD223778,DM & DK STARS:CORRELATION OF ROTATION & X-RAYS

FIELD CENTER: $23^{\text{h}}39^{\text{m}}59.8^{\text{s}}$ $75^{\circ}15'59''$ (B1950)
 $23^{\text{h}}42^{\text{m}}12.4^{\text{s}}$ $75^{\circ}32'38''$ (J2000)
 $l: 118.56$ $b: 13.26$

DATE: 1981/ 31 - 1981/ 31
 LIVETIME: 1149.1s
 ROLL ANGLE: 141.2°

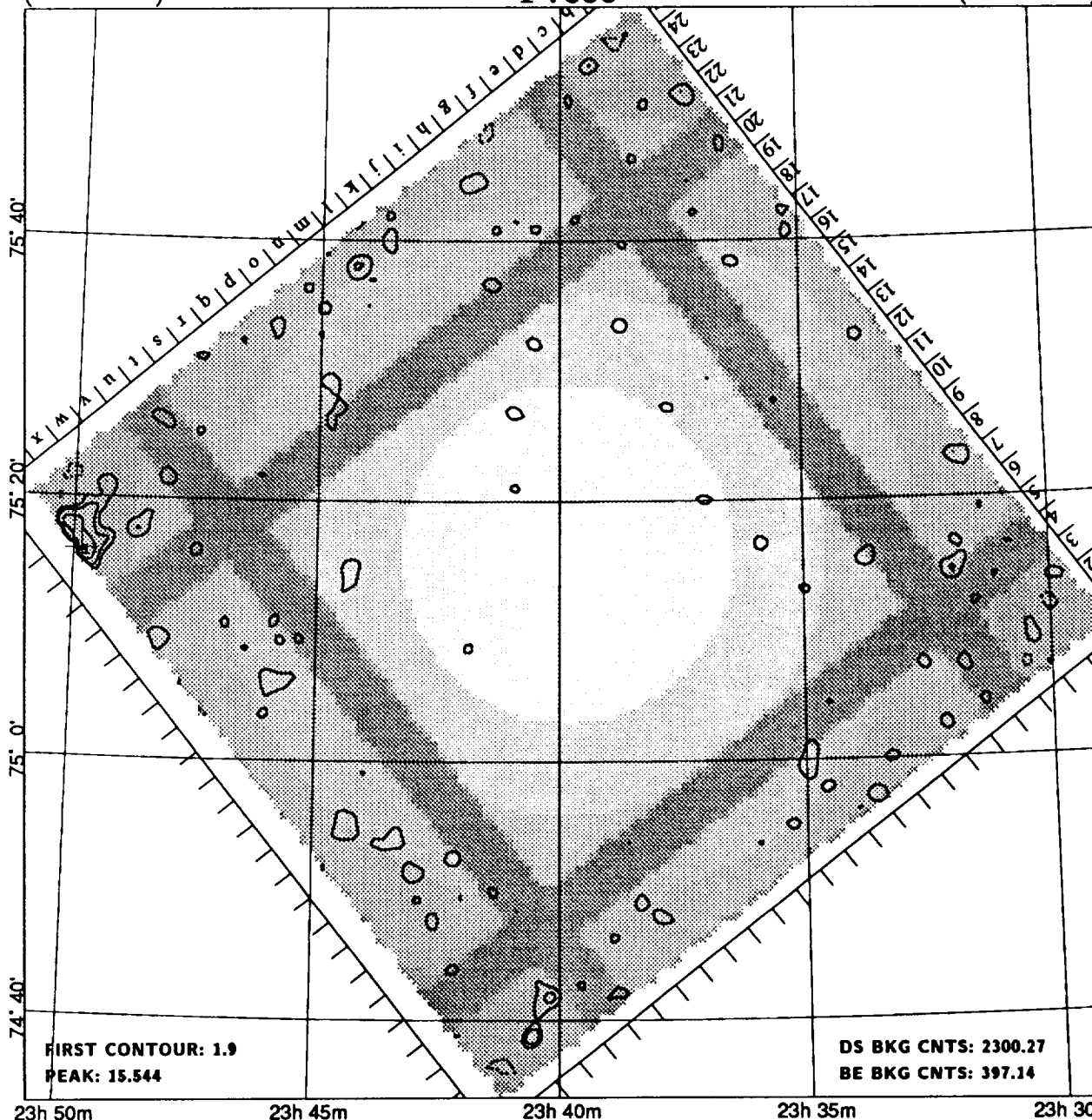
NH: $2.2\text{E}+21$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4782	1	23 49 58.3	75 16 48	54	*0.081	0.020	17.9	2.1	4.0	1.6	601	37.8	AEH	S

(23h 39m)

I 7358

(23h 39m)



HD223778,DM & DK STARS:CORRELATION OF ROTATION & X-RAYS

FIELD CENTER: 23^h39^m59.8^s 75°15'59" (B1950)
 23^h42^m12.4^s 75°32'38" (J2000)
 l : 118.56 b : 13.26

DATE: 1981/ 32 - 1981/ 32
 LIVETIME: 1864.0s
 ROLL ANGLE: 141.8°

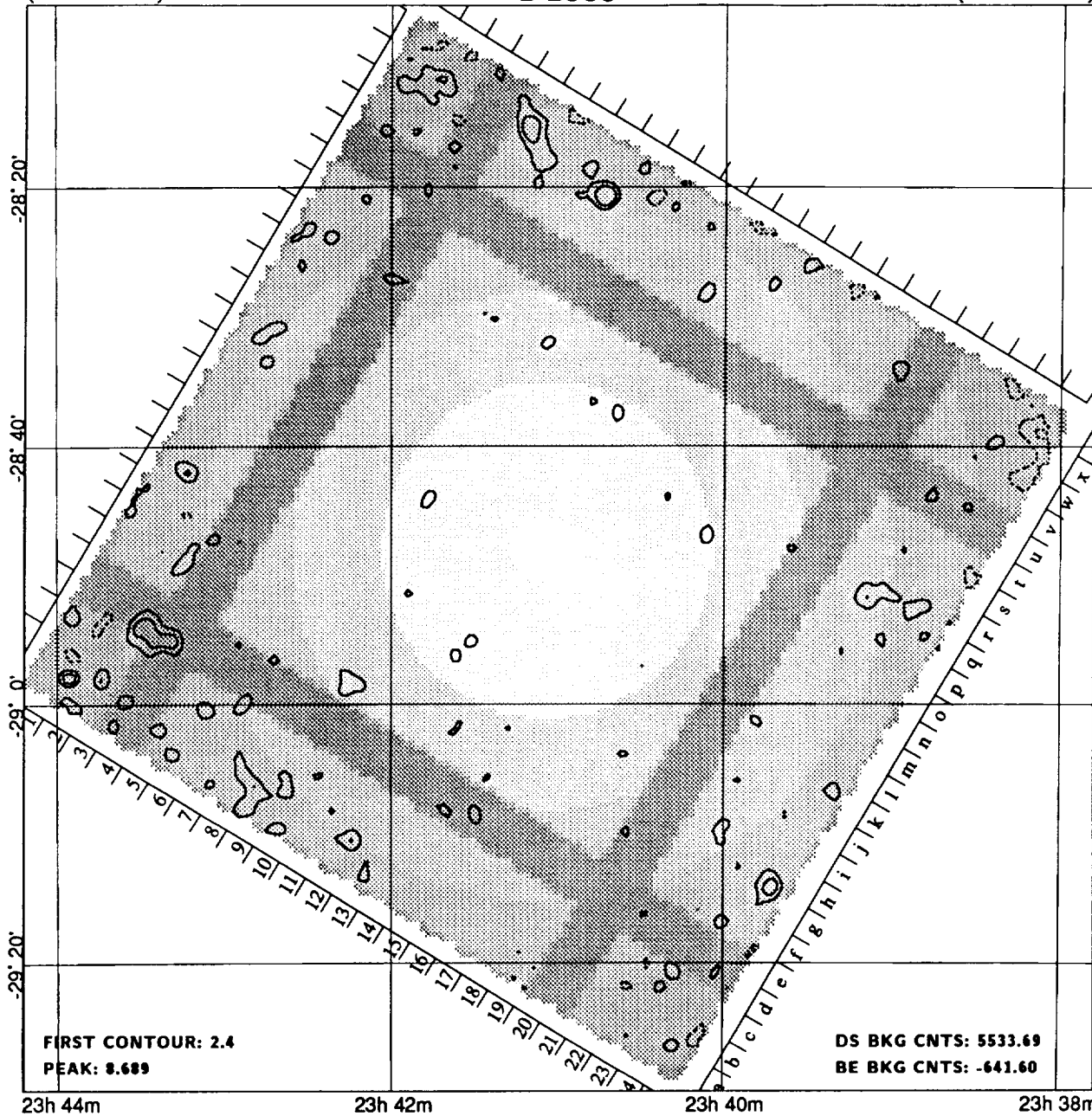
NH: 2.2E+21
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC	ID
4782	1	23 49 49.9	75 15 56	53	*0.075	0.016	23.7	3.3	4.6	2.4	804	37.5	AEH	S

(23h 40m)

I 2388

(23h 40m)



SOUTHERN HEMISPHERE SURVEY :4U2344-27=KLEMOLA 44(CLUSTER)

FIELD CENTER: $23^h 40^m 59.8^s$ $-28^{\circ} 47' 59''$ (B1950)
 $23^h 43^m 36.4^s$ $-28^{\circ} 31' 20''$ (J2000)
 $l: 23.68$ $b: -74.95$

DATE: 1979/142 - 1979/142
LIVETIME: 4484.1s
ROLL ANGLE: -59.0°

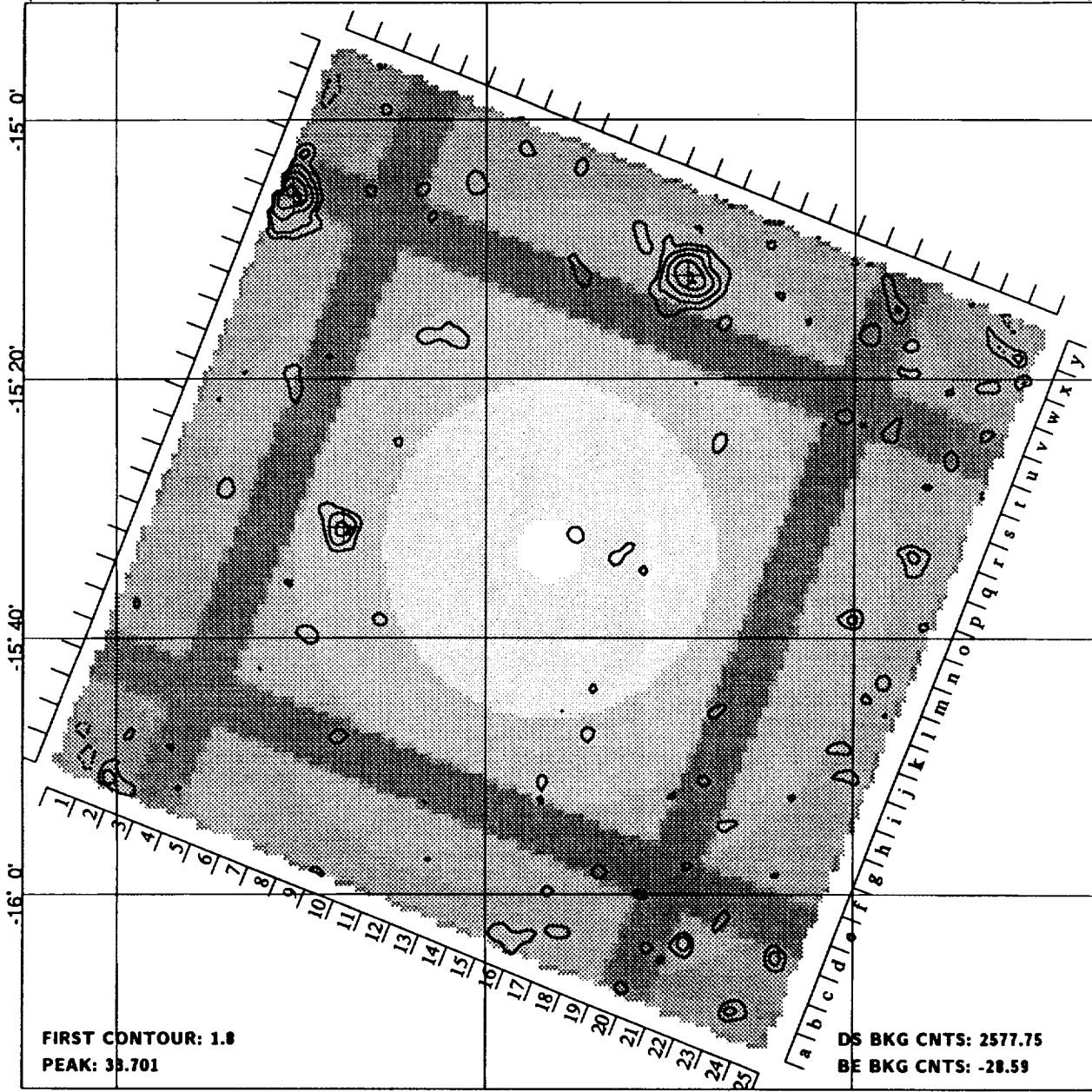
NH: $1.5E+20$
REF/ID:
FIELD FLAGS:

C-6

(23h 41m)

I 2294

(23h 41m)



STELLAR SURVEY-SYMBIOTIC STARS: R AQR

FIELD CENTER: $23^{\text{h}}41^{\text{m}}35.8^{\text{s}}$ $-15^{\circ}32'59''$ (B1950)
 $23^{\text{h}}44^{\text{m}}10.9^{\text{s}}$ $-15^{\circ}16'20''$ (J2000)
 $l: 66.71$ $b: -70.38$

DATE: 1980/173 - 1980/173
 LIVETIME: 2088.8s
 ROLL ANGLE: -68.5°

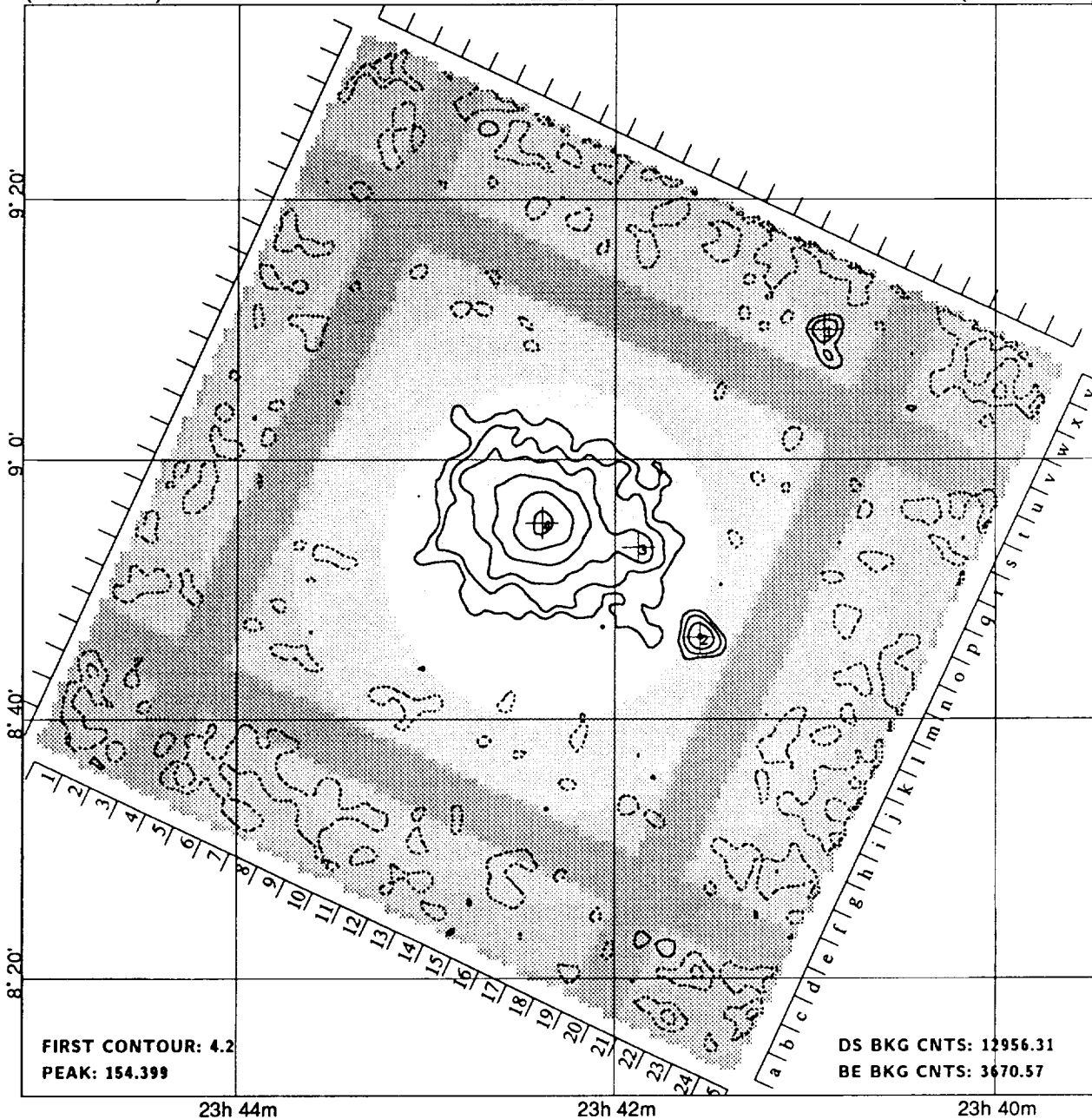
NH: $2.2E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4755	1	23 40 54.2	-15 12 01	50	0.0736	0.0091	69.3	4.7	8.1	1.4	0	23.3	H	
4759	2	23 42 46.4	-15 31 29	51	0.0202	0.0045	24.0	5.0	4.5	0.9	0	17.0	H	
4760	3	23 43 02.8	-15 05 50	50	*0.086	0.013	47.4	2.6	6.7	1.4	1209	34.4	H	

(23h 42m)

I 290

(23h 42m)



A 2657 DETAILED CLUSTER STUDY

FIELD CENTER: $23^h 42^m 17.8^s$ $08^\circ 52' 59''$ (B1950)
 $23^h 44^m 50.8^s$ $09^\circ 09' 39''$ (J2000)
 $l: 96.66$ $b: -50.28$

DATE: 1979/180 - 1979/180
 LIVETIME: 10498.9s
 ROLL ANGLE: -65.0°

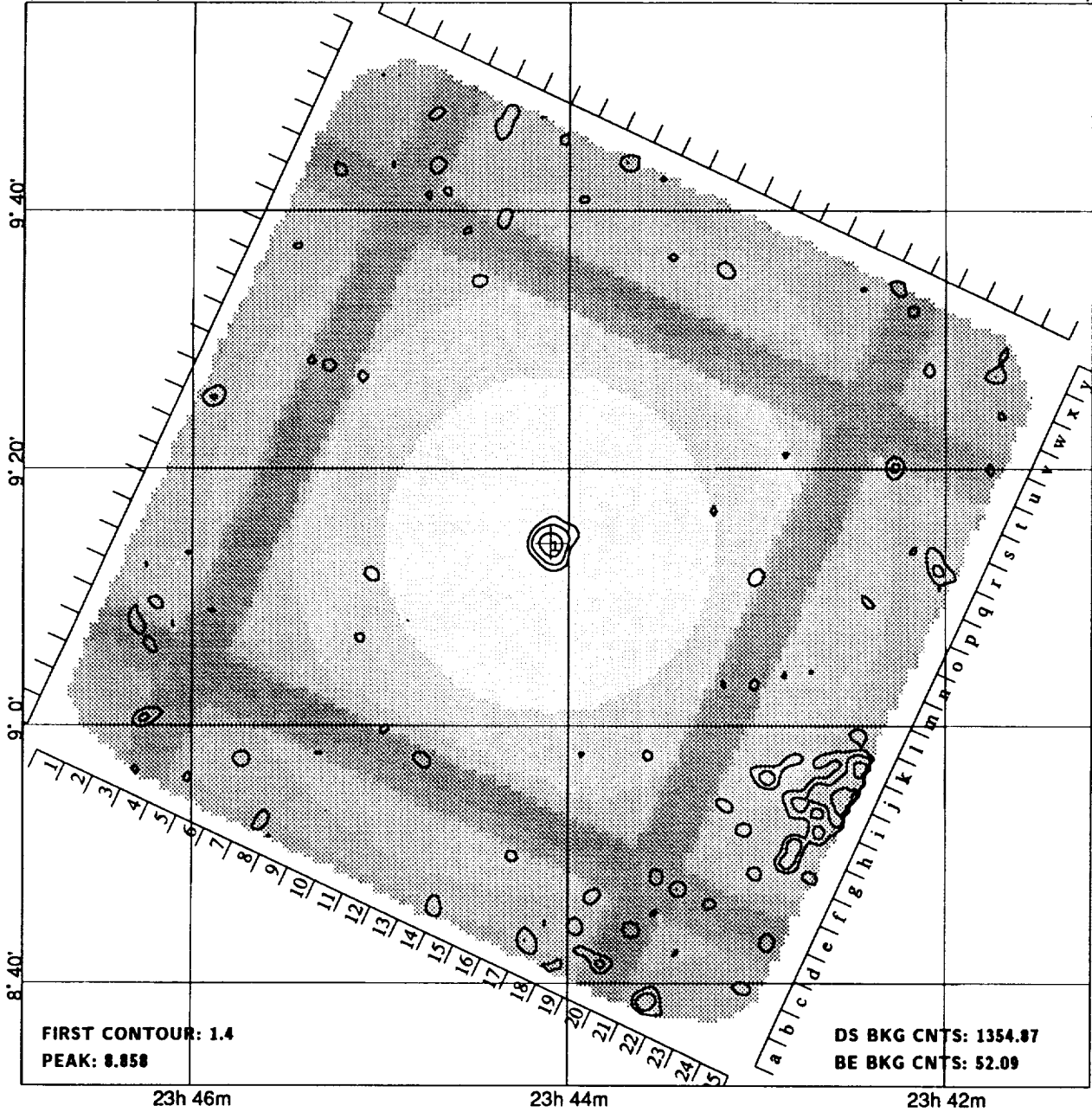
NH: $6.0E+20$
 REF/ID:
 FIELD FLAGS: D

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4754	1	23 40 53.8	09 09 58	55	0.0078	0.0019	31.8	26.2	4.2	1.1	0	26.9	H	
4756	2	23 41 33.1	08 46 19	38	0.0166	0.0018	107.1	34.9	9.0	1.0	0	12.6	H	
4757	3	23 41 52.6	08 53 14	38	0.0172	0.0018	125.7	41.3	9.7	31.8	0	6.0	H	
4758	4	23 42 23.2	08 55 07	31	0.1049	0.0038	808.6	38.4	27.8	5.4	0	3.1	H	CLG

(23h 44m)

I 538

(23h 44m)



4C 09.74 (QSO 2344+092) QUASAR SURVEY

FIELD CENTER: $23^h 44^m 03.5^s$ $09^\circ 14' 04''$ (B1950)
 $23^h 46^m 36.5^s$ $09^\circ 30' 45''$ (J2000)
 $l: 97.50$ $b: -50.13$

DATE: 1979/179 - 1979/179
 LIVETIME: 1097.9s
 ROLL ANGLE: -65.1°

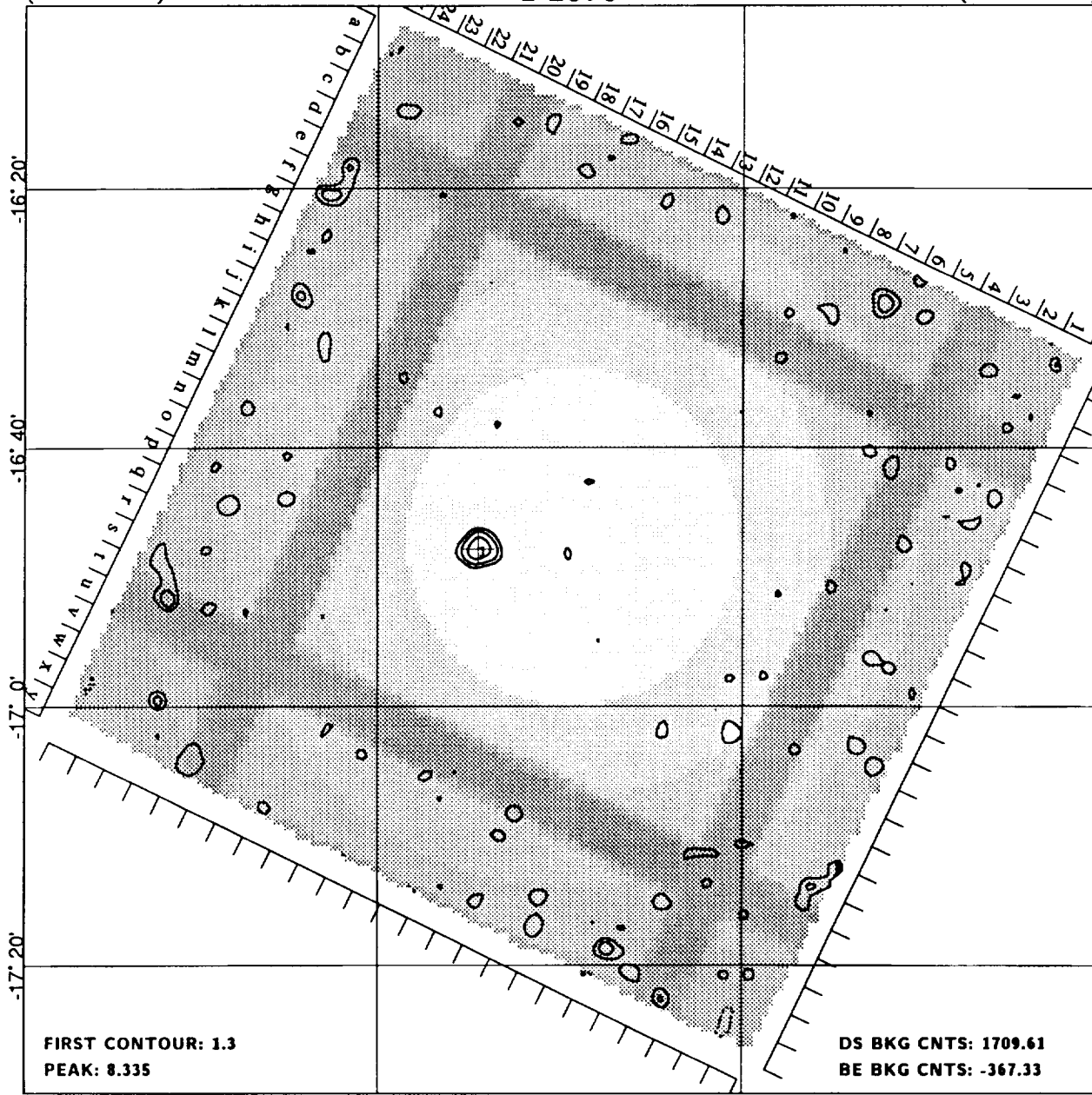
NH: $5.7E+20$
 REF/ID:
 FIELD FLAGS: D

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4761	1	23 44 05.8	09 14 12	35	0.0434	0.0076	35.6	3.4	5.7	1.1	0	0.7	H	Q

(23h 44m)

I 2076

(23h 44m)



X-RAY STUDY OF QUASARS: 2345-16

FIELD CENTER: 23^h44^m59.9^s -16°47'59" (B1950)
 23^h47^m34.9^s -16°31'19" (J2000)
 l : 65.31 b : -71.81

DATE: 1979/339 - 1979/339
 LIVETIME: 1385.3s
 ROLL ANGLE: 115.8°

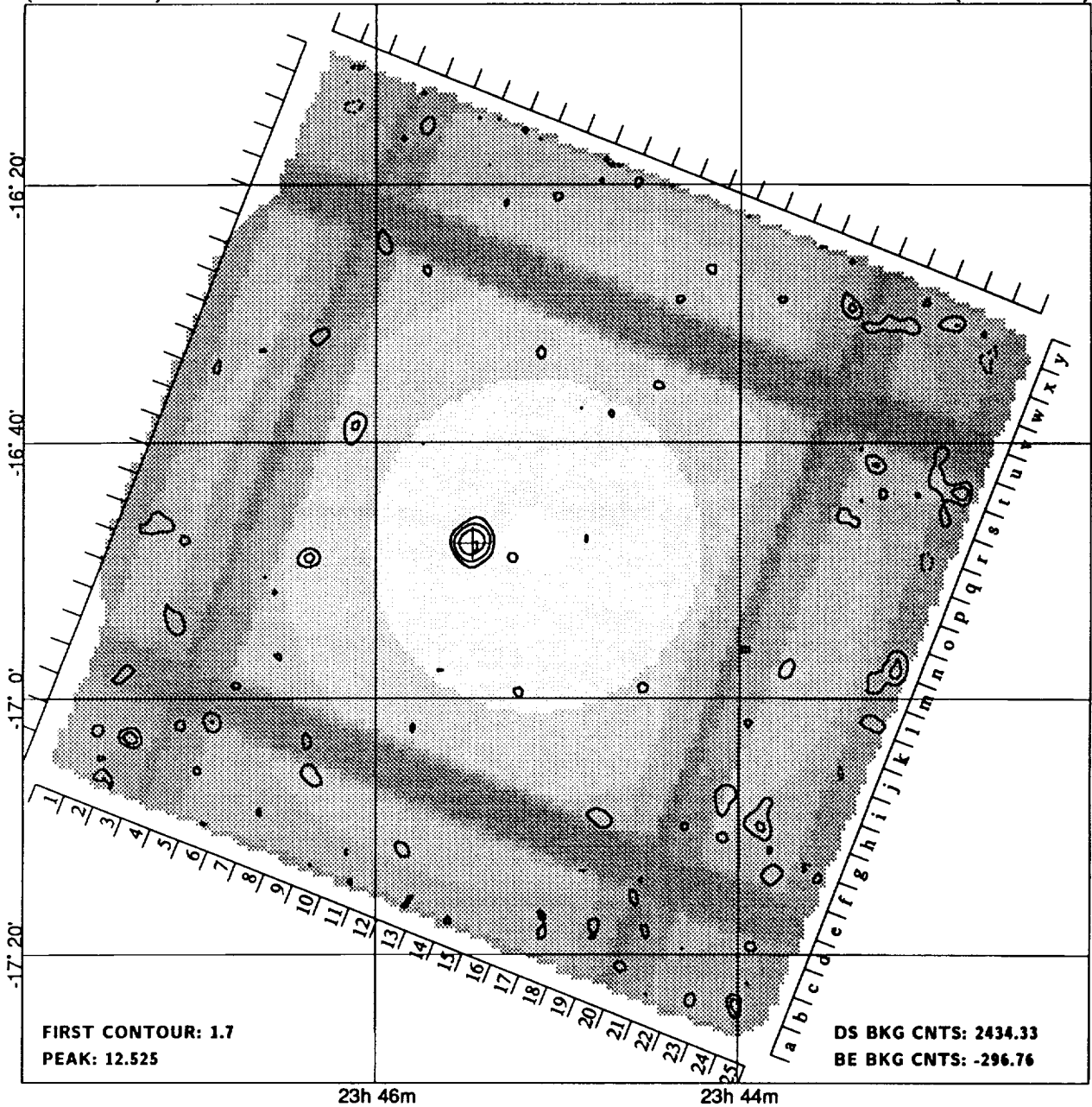
NH: 1.9E+20
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4762	1	23 45 26.9	-16 47 49	41	0.0324	0.0061	31.1	2.9	5.3	0.9	0	6.5	AH	Q

(23h 44m)

I 2077

(23h 44m)



X-RAY STUDY OF QUASARS: 2345-16

FIELD CENTER: 23^h44^m59.9^s -16°47'59" (B1950)
 23^h47^m34.9^s -16°31'19" (J2000)
 l : 65.31 b : -71.81

DATE: 1980/173 - 1980/173
 LIVETIME: 1972.6s
 ROLL ANGLE: -68.6°

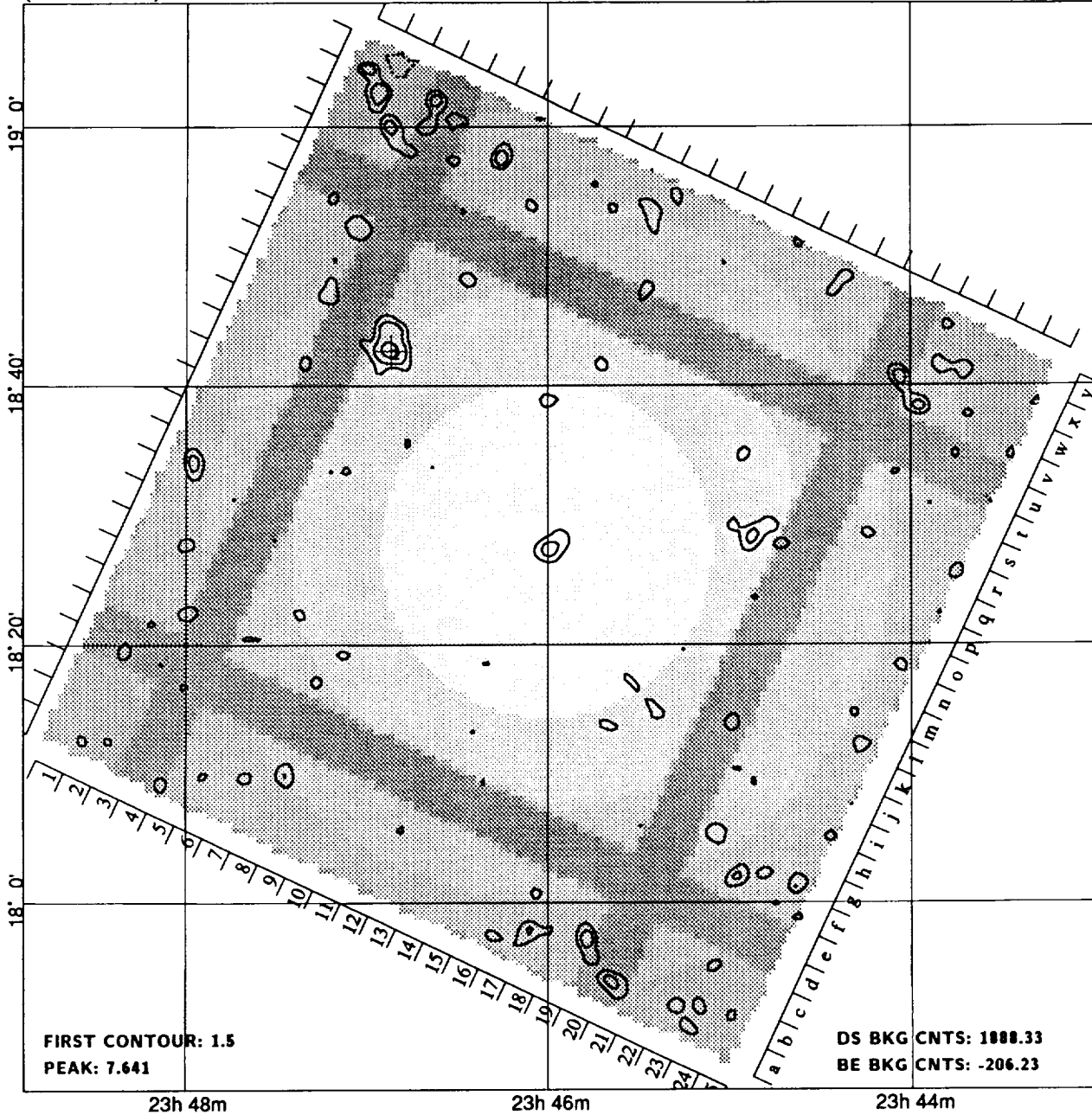
NH: 1.9E+20
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4762	1	23 45 28.2	-16 47 54	41	0.0319	0.0050	45.3	5.7	6.3	1.0	0	6.8	AH	Q

(23h 45m)

I 1981

(23h 45m)



3C 467: SEYFERT AND N-TYPE GALAXIES

FIELD CENTER: $23^{\text{h}}45^{\text{m}}56.9^{\text{s}}$ $18^{\circ}27'29''$ (B1950)
 $23^{\text{h}}48^{\text{m}}29.4^{\text{s}}$ $18^{\circ}44'10''$ (J2000)
 $l: 102.82$ $b: -41.66$

DATE: 1979/179 - 1979/179
 LIVETIME: 1530.2s
 ROLL ANGLE: -64.8°

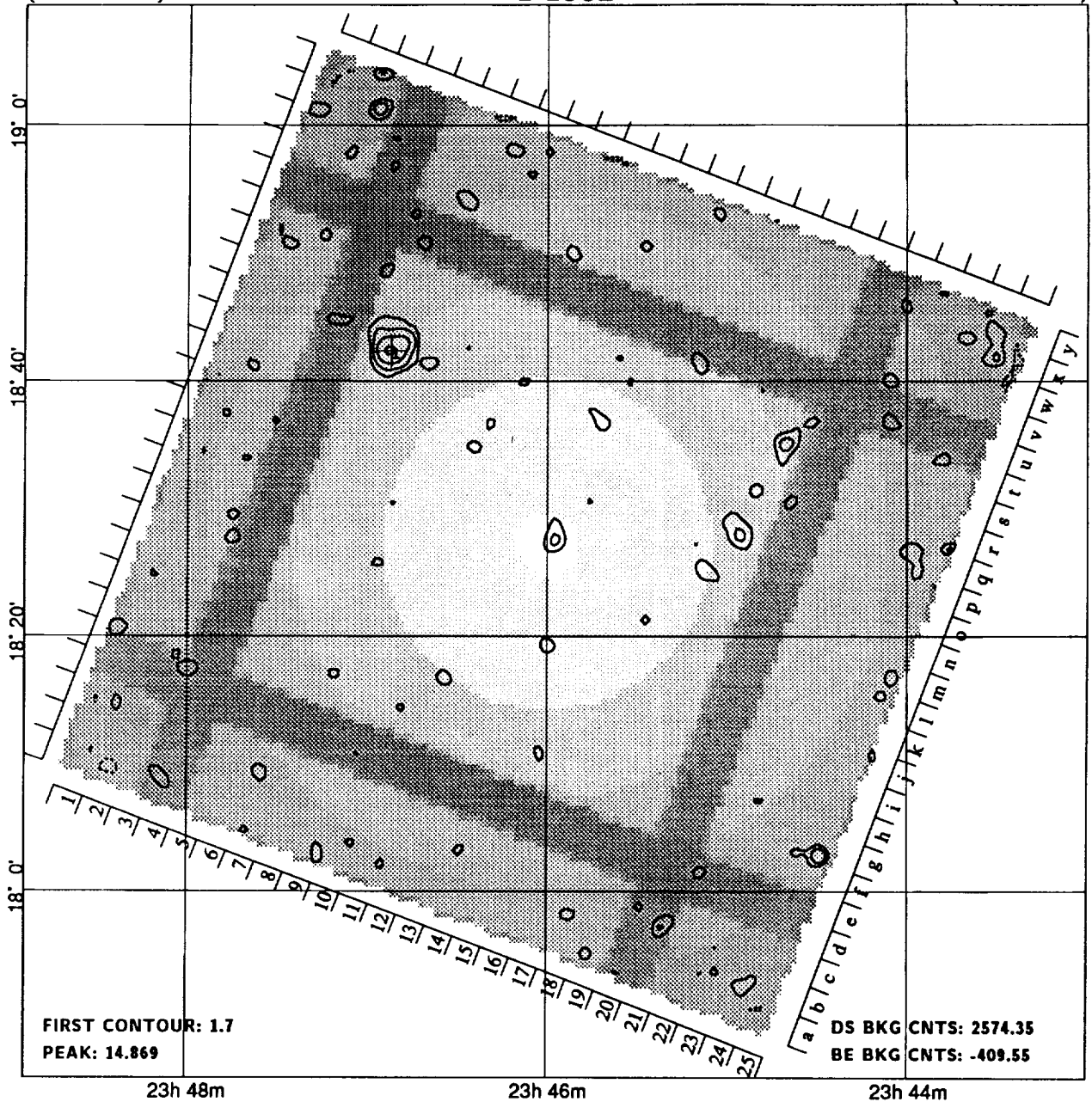
NH: $4.1\text{E}+20$
 REF/ID: !
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4763	1	23 46 52.1	18 42 38	52	0.0273	0.0062	21.6	2.4	4.4	1.2	200	20.1	AH

(23h 45m)

I 1982

(23h 45m)



3C 467: SEYFERT AND N-TYPE GALAXIES

FIELD CENTER: $23^{\text{h}}45^{\text{m}}56.9^{\text{s}}$ $18^{\circ}27'29''$ (B1950)
 $23^{\text{h}}49^{\text{m}}29.4^{\text{s}}$ $18^{\circ}44'10''$ (J2000)
 $l: 102.82$ $b: -41.66$

DATE: 1980/164 - 1980/165
 LIVETIME: 2086.1s
 ROLL ANGLE: -69.3°

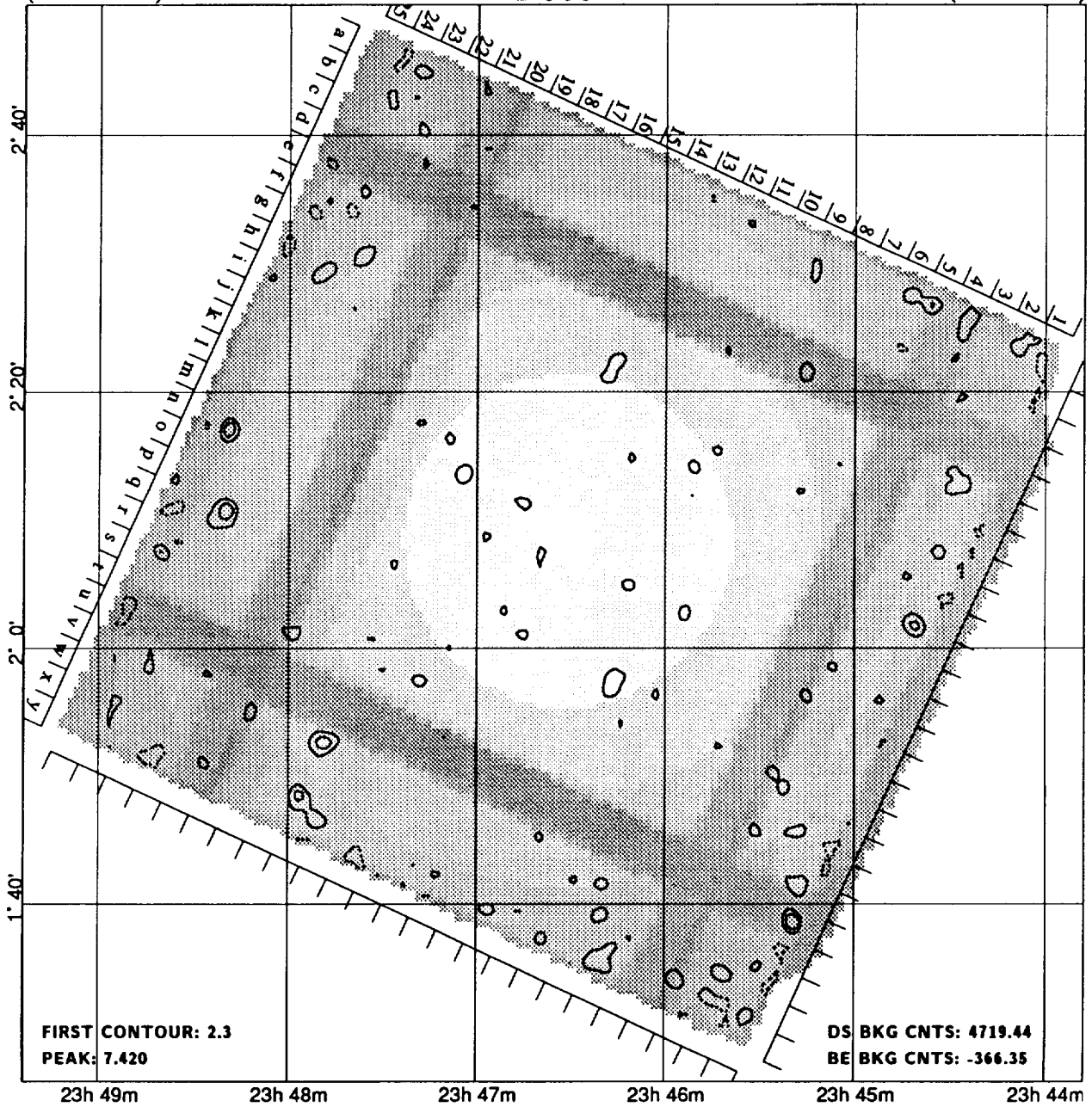
NH: $4.1\text{E}+20$
 REF/ID: 1
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4763	1	23 46 52.4	18 42 23	50	0.0394	0.0063	42.5	3.5	6.3	1.2	100	20.0	AH

(23h 46m)

I 5667

(23h 46m)



FIRST CONTOUR: 2.3
 PEAK: 7.420

DS BKG CNTS: 4719.44
 BE BKG CNTS: -366.35

23h 49m

23h 48m

23h 47m

23h 46m

23h 45m

23h 44m

DM+1 4774

FIELD CENTER: $23^{\text{h}}46^{\text{m}}35.8^{\text{s}} 02^{\circ}08'11''$ (B1950)
 $23^{\text{h}}49^{\text{m}}09.4^{\text{s}} 02^{\circ}24'52''$ (J2000)
 $l: 93.55 \quad b: -56.86$

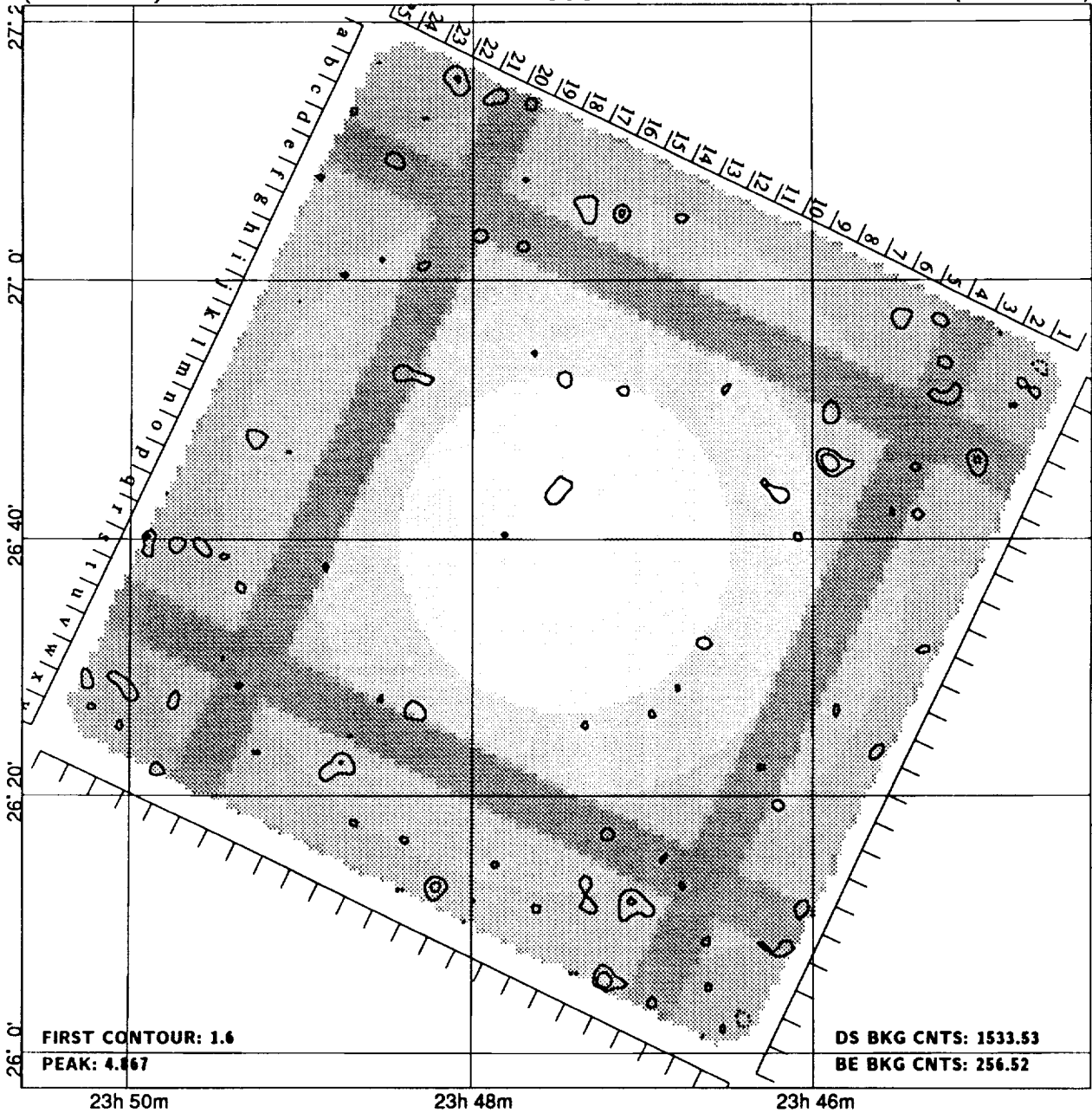
DATE: 1981/ 8 - 1981/ 8
 LIVETIME: 3824.3s
 ROLL ANGLE: 114.6°

NH: $4.1\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(23h 47m)

I 5952

(23h 47m)



CATACLYSMIC VARIABLES SURVEY: VZ SCL

FIELD CENTER: $23^{\text{h}}47^{\text{m}}29.8^{\text{s}}$ $26^{\circ}39'19''$ (B1950)
 $23^{\text{h}}50^{\text{m}}01.9^{\text{s}}$ $26^{\circ}56'00''$ (J2000)
 $l: 106.40$ $b: -33.96$

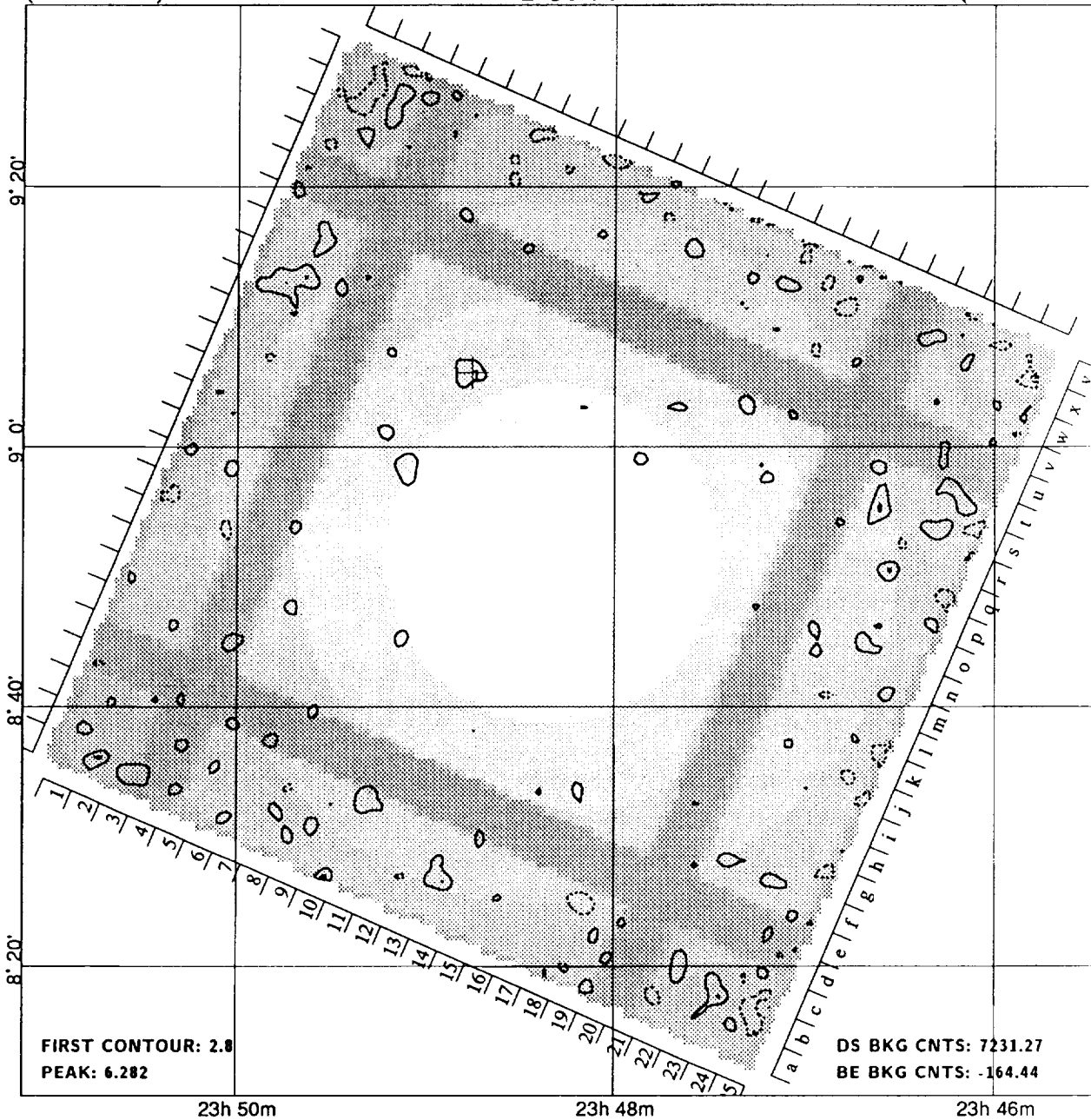
DATE: 1980/364 - 1980/364
 LIVETIME: 1242.7s
 ROLL ANGLE: 115.6°

NH: $4.6\text{E}+20$
 REF/ID:
 FIELD FLAGS:

(23h 48m)

I 5744

(23h 48m)



Mispointed

FIELD CENTER: $23^{\text{h}}48^{\text{m}}17.8^{\text{s}}$ $08^{\circ}51'59''$ (B1950)
 $23^{\text{h}}50^{\text{m}}51.1^{\text{s}}$ $09^{\circ}08'41''$ (J2000)
 $l: 98.81$ $b: -50.87$

DATE: 1980/171 - 1980/172
 LIVETIME: 5859.7s
 ROLL ANGLE: -66.7°

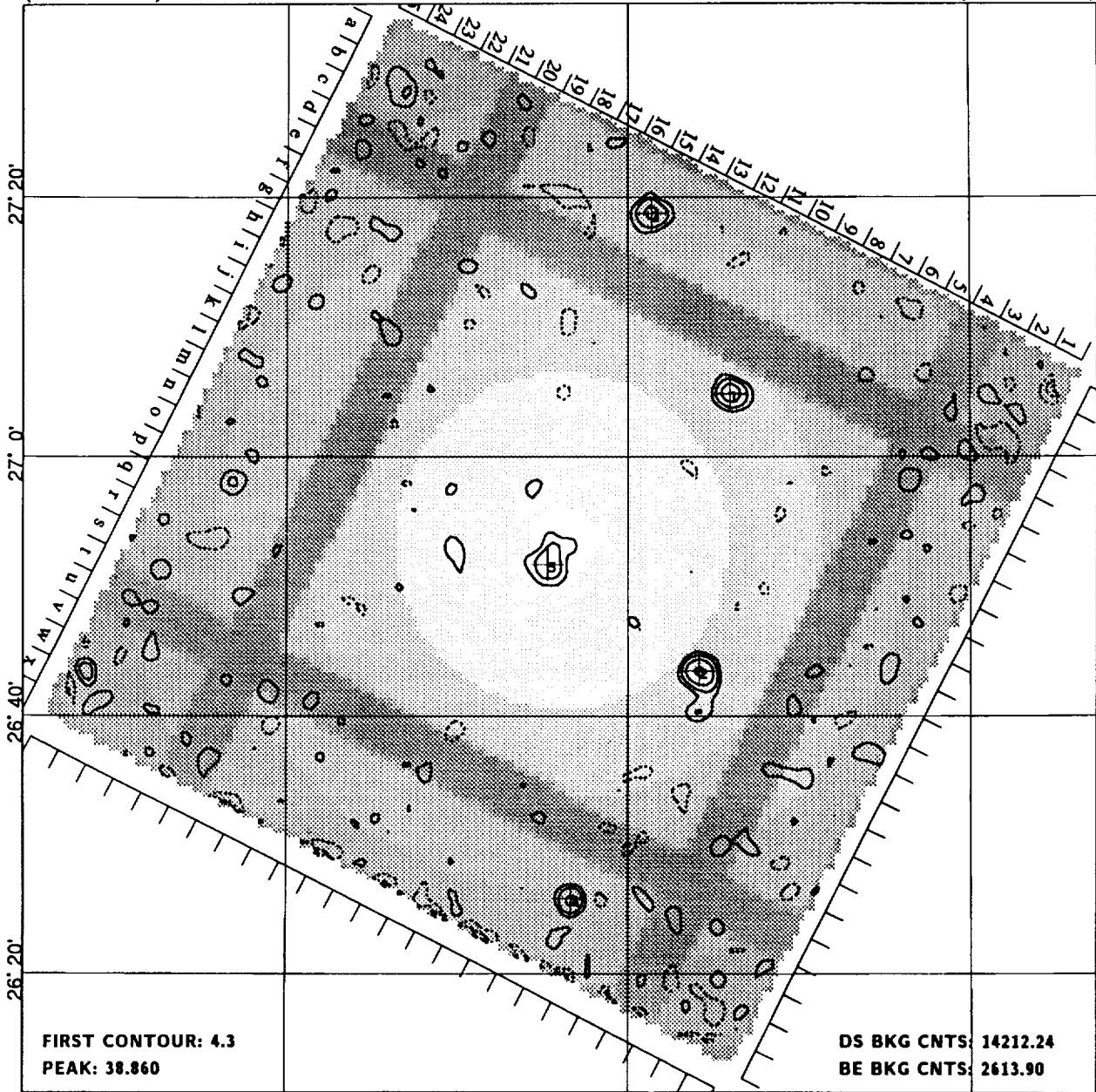
NH: $5.7E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	ID
4774	1	23 48 45.5	09 05 43	61	0.0060	0.0017	20.4	12.6	3.6	0.6	0	15.3		

(23h 48m)

I 294

(23h 48m)



A2666 DETAILED CLUSTER STUDY

FIELD CENTER: $23^{\text{h}}48^{\text{m}}23.7^{\text{s}}$ $26^{\circ}52'59''$ (B1950)
 $23^{\text{h}}50^{\text{m}}56.0^{\text{s}}$ $27^{\circ}09'41''$ (J2000)
 $l: 106.71$ $b: -33.80$

DATE: 1979/ 12 - 1979/ 13
 LIVETIME: 11516.6s
 ROLL ANGLE: 116.9°

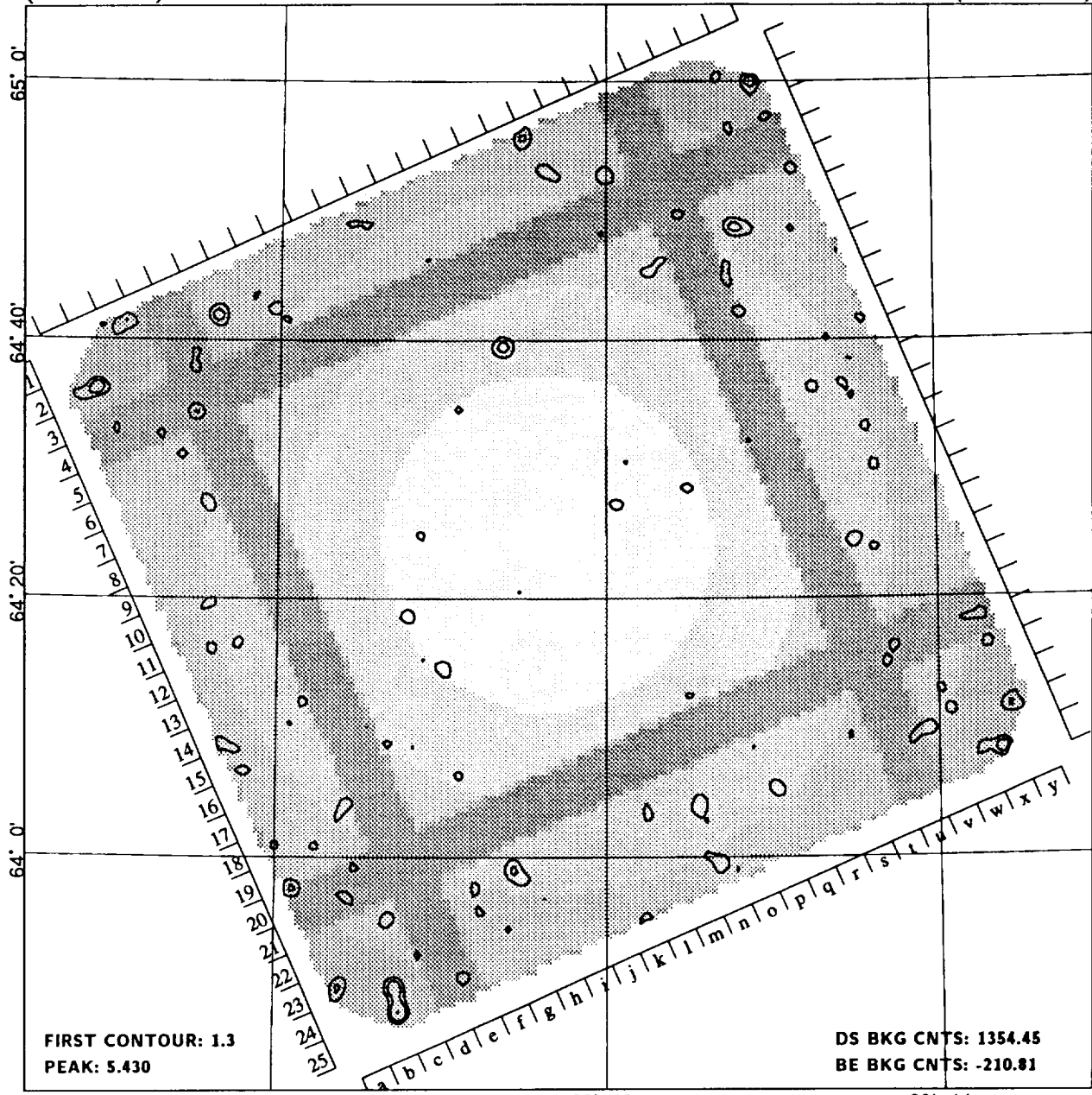
NH: $4.6E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4764	1	23 47 24.1	27 04 55	50	0.0106	0.0016	67.4	31.6	6.8	0.8	0	17.7	H	
4766	2	23 47 34.9	26 43 29	38	0.0173	0.0018	118.4	34.6	9.6	1.0	0	14.4	H	
4767	3	23 47 51.7	27 18 43	51	0.0086	0.0018	41.1	28.9	4.9	0.9	0	26.7	H	
4770	4	23 48 20.0	26 25 54	51	0.0087	0.0018	38.6	26.4	4.8	0.7	0	27.1	H	
4772	5	23 48 28.3	26 51 46	35	0.0080	0.0012	67.5	43.5	6.4	1.1	0	1.3	H	CLG

(23h 48m)

I 7221

(23h 48m)



FIRST CONTOUR: 1.3
 PEAK: 5.430

DS BKG CNTS: 1354.45
 BE BKG CNTS: -210.81

23h 52m

23h 48m

23h 44m

3C468.1, SCINTAR

FIELD CENTER: $23^h 48^m 35.8^s$ $64^\circ 23' 59''$ (B1950)
 $23^h 51^m 03.3^s$ $64^\circ 40' 40''$ (J2000)
 $l: 116.53$ $b: 2.56$

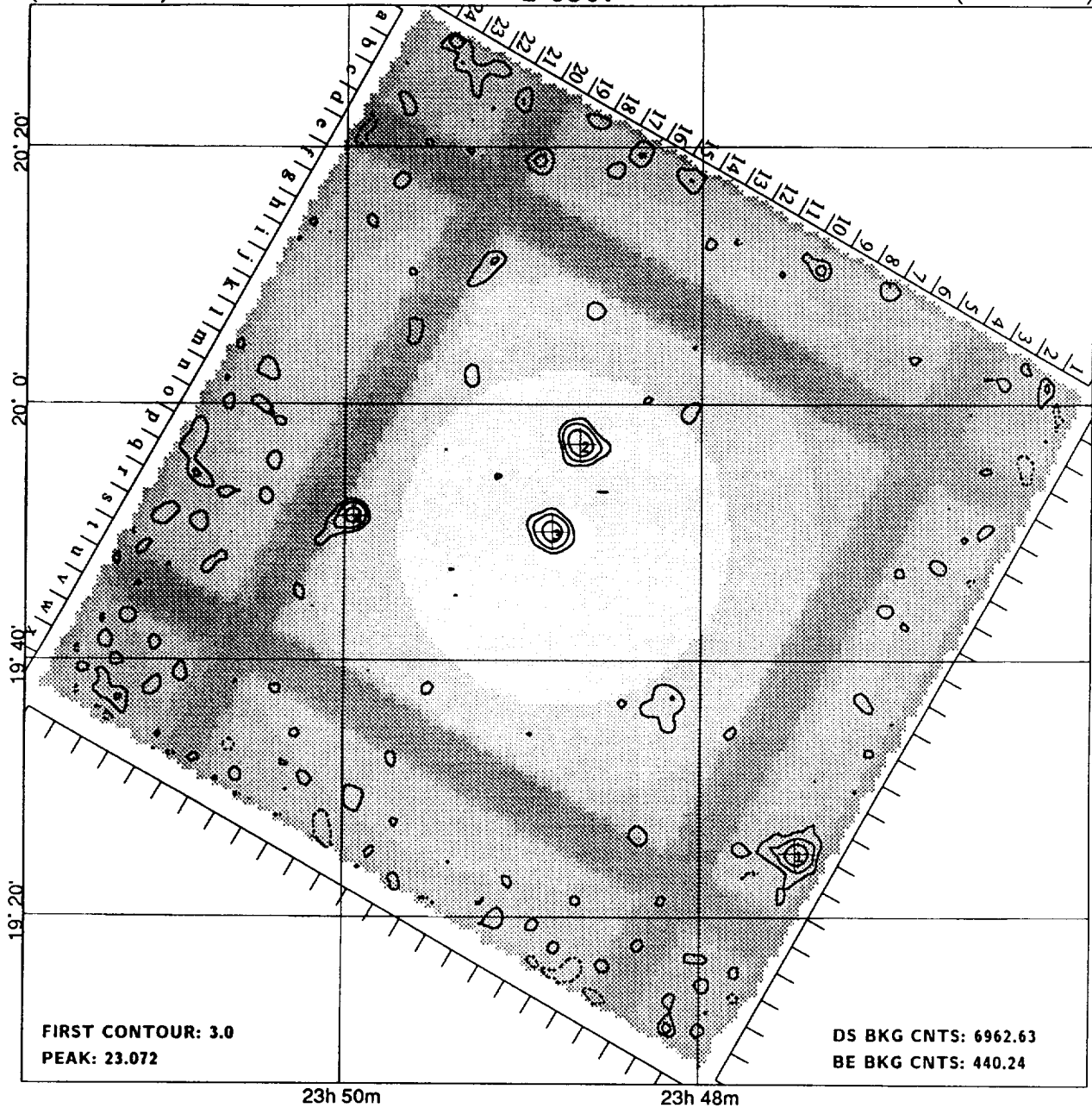
DATE: 1980/237 - 1980/237
 LIVETIME: 1097.5s
 ROLL ANGLE: -23.7°

NH: 7.6E+21
 REF/ID:
 FIELD FLAGS:

(23h 48m)

I 6367

(23h 48m)



N 7770,EMISSION LINE GALAXY SURVEY

FIELD CENTER: $23^{\text{h}}48^{\text{m}}47.8^{\text{s}}$ $19^{\circ}48'59''$ (B1950)
 $23^{\text{h}}51^{\text{m}}20.5^{\text{s}}$ $20^{\circ}05'41''$ (J2000)
 $l: 104.24$ $b: -40.59$

DATE: 1980/ 10 - 1980/ 10
 LIVETIME: 5642.0s
 ROLL ANGLE: 119.6°

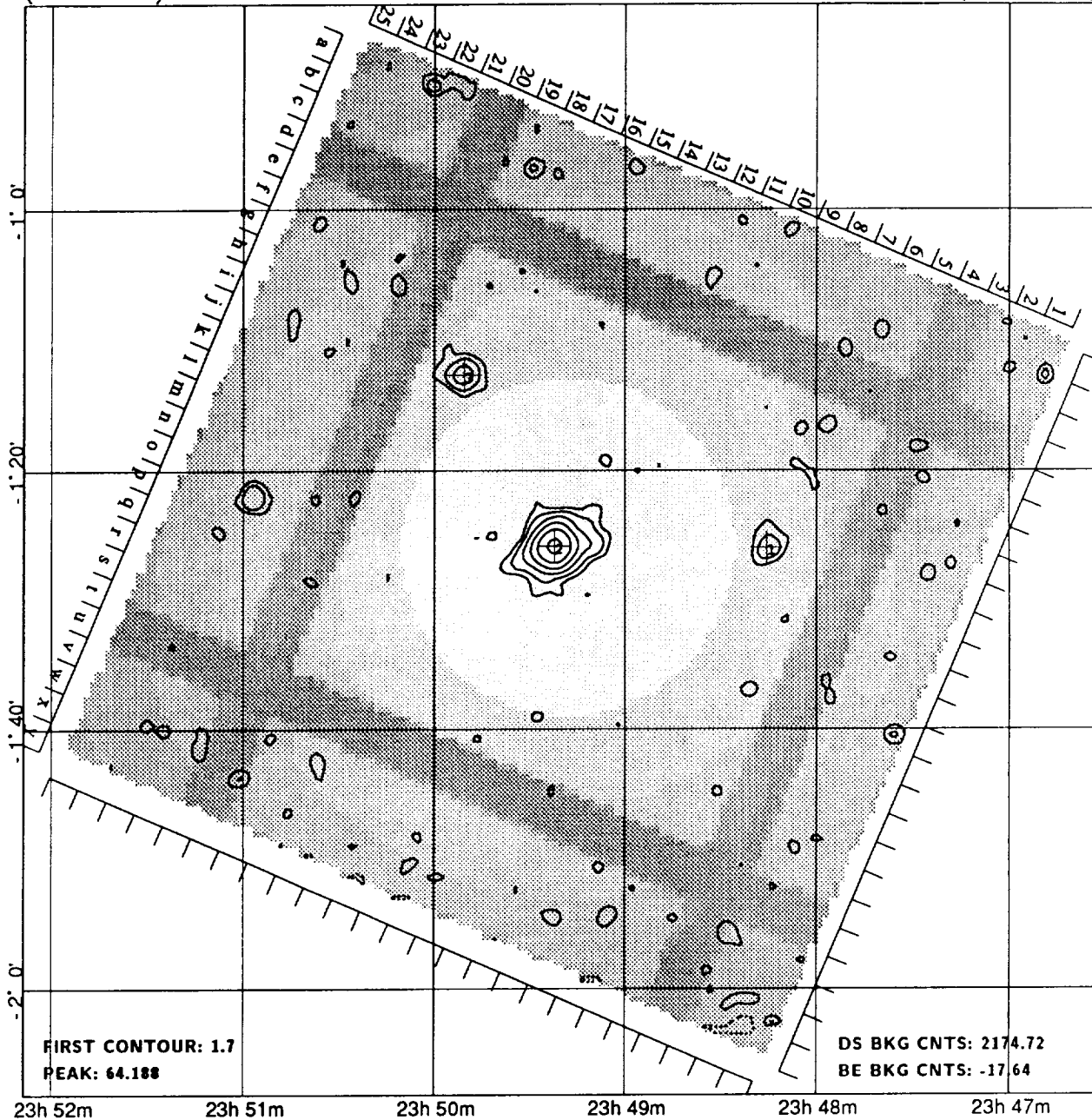
NH: $4.3E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4765	1	23 47 28.1	19 24 58	51	0.0165	0.0034	31.7	11.3	4.8	1.2	200	30.6	H	
4773	2	23 48 40.9	19 56 54	38	0.0216	0.0026	84.3	18.7	8.3	1.0	0	8.0	H	AGN
4775	3	23 48 50.0	19 50 05	34	0.0166	0.0023	69.8	20.2	7.4	1.0	0	1.0	H	
4784	4	23 49 57.0	19 51 17	50	*0.0126	0.0023	40.0	13.0	5.5	0.9	703	16.6	H	S

(23h 49m)

I 5387

(23h 49m)



SURVEY OF BRIGHT QUASARS (PG)

FIELD CENTER: $23^h 49^m 20.6^s$ $-01^{\circ} 26' 13''$ (B1950)
 $23^h 51^m 54.5^s$ $-01^{\circ} 09' 32''$ (J2000)
 $l: 91.65$ $b: -60.36$

DATE: 1981/ 7 - 1981/ 7
 LIVETIME: 1762.2s
 ROLL ANGLE: 113.2°

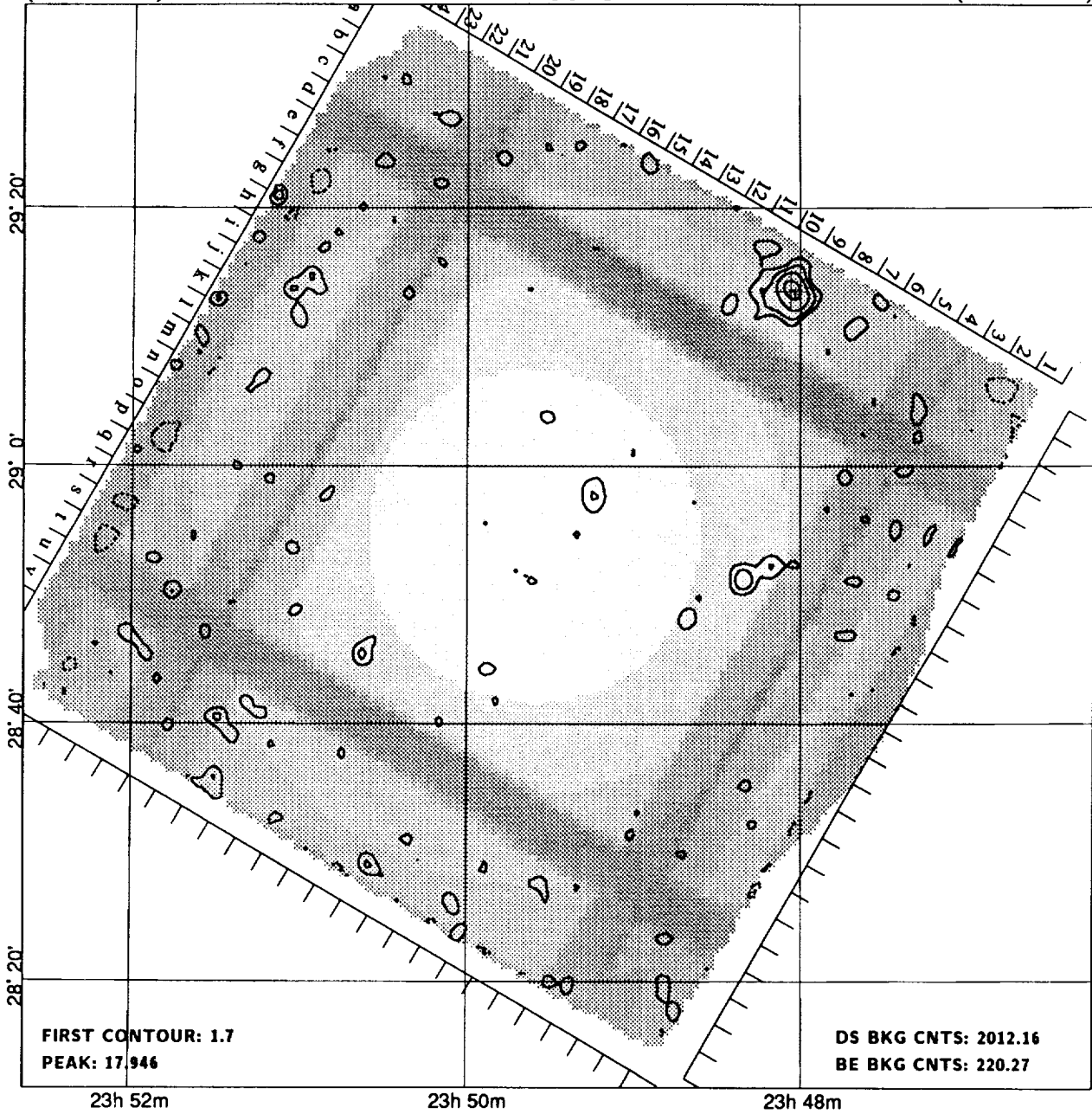
NH: $2.5E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4769	1	23 48 15.4	-01 25 59	54	0.0172	0.0046	17.7	4.3	3.8	0.9	0	16.1	H
4779	2	23 49 22.2	-01 25 50	31	0.215	0.013	281.4	5.6	16.6	1.4	0	0.6	H
4783	3	23 49 50.5	-01 12 39	51	0.0255	0.0053	26.2	3.8	4.8	1.0	0	15.5	H

(23h 49m)

I 3043

(23h 49m)



HIGH REDSHIFT CLUSTERS OF GALAXIES: 4C28.58

FIELD CENTER: $23^{\text{h}}49^{\text{m}}26.8^{\text{s}}$ $28^{\circ}53'46''$ (B1950)
 $23^{\text{h}}51^{\text{m}}59.1^{\text{s}}$ $29^{\circ}10'28''$ (J2000)
 $l: 107.63$ $b: -31.92$

DATE: 1979/ 8 - 1979/ 8
 LIVETIME: 1630.5s
 ROLL ANGLE: 120.1°

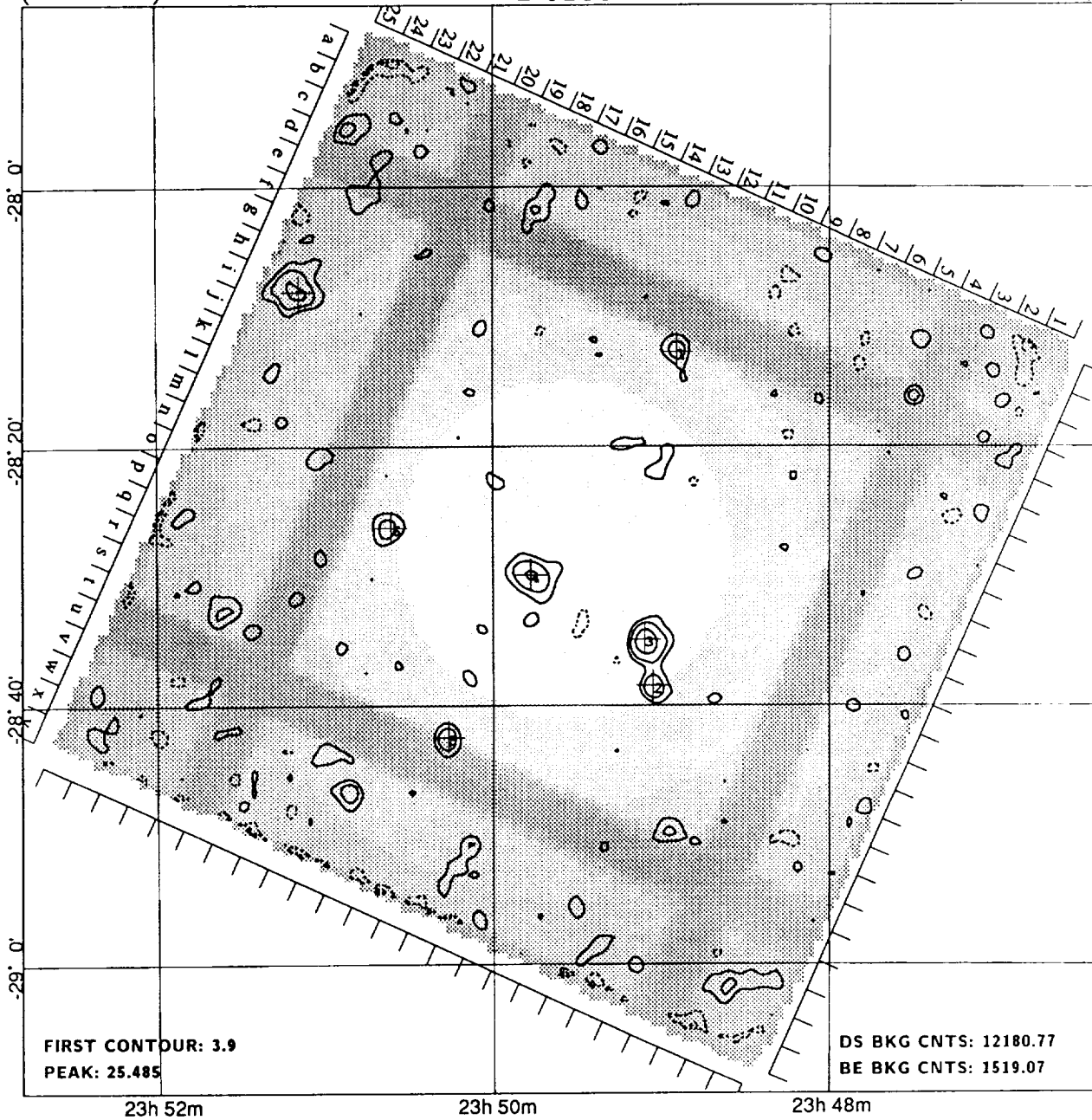
NH: $5.0E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4768	1	23 48 03.4	29 13 32	50	0.0554	0.0098	35.3	3.7	5.7	1.3	0	26.8	H

(23h 49m)

I 6108

(23h 49m)



2349-28, DETAILED STUDY OF NEARBY CLUSTERS

FIELD CENTER: 23^h49^m36.7^s -28°27'59" (B1950)
 23^h52^m11.9^s -28°11'18" (J2000)
l: 24.88 *b*: -76.85

DATE: 1979/349 - 1979/351
 LIVETIME: 9870.4s
 ROLL ANGLE: 114.3°

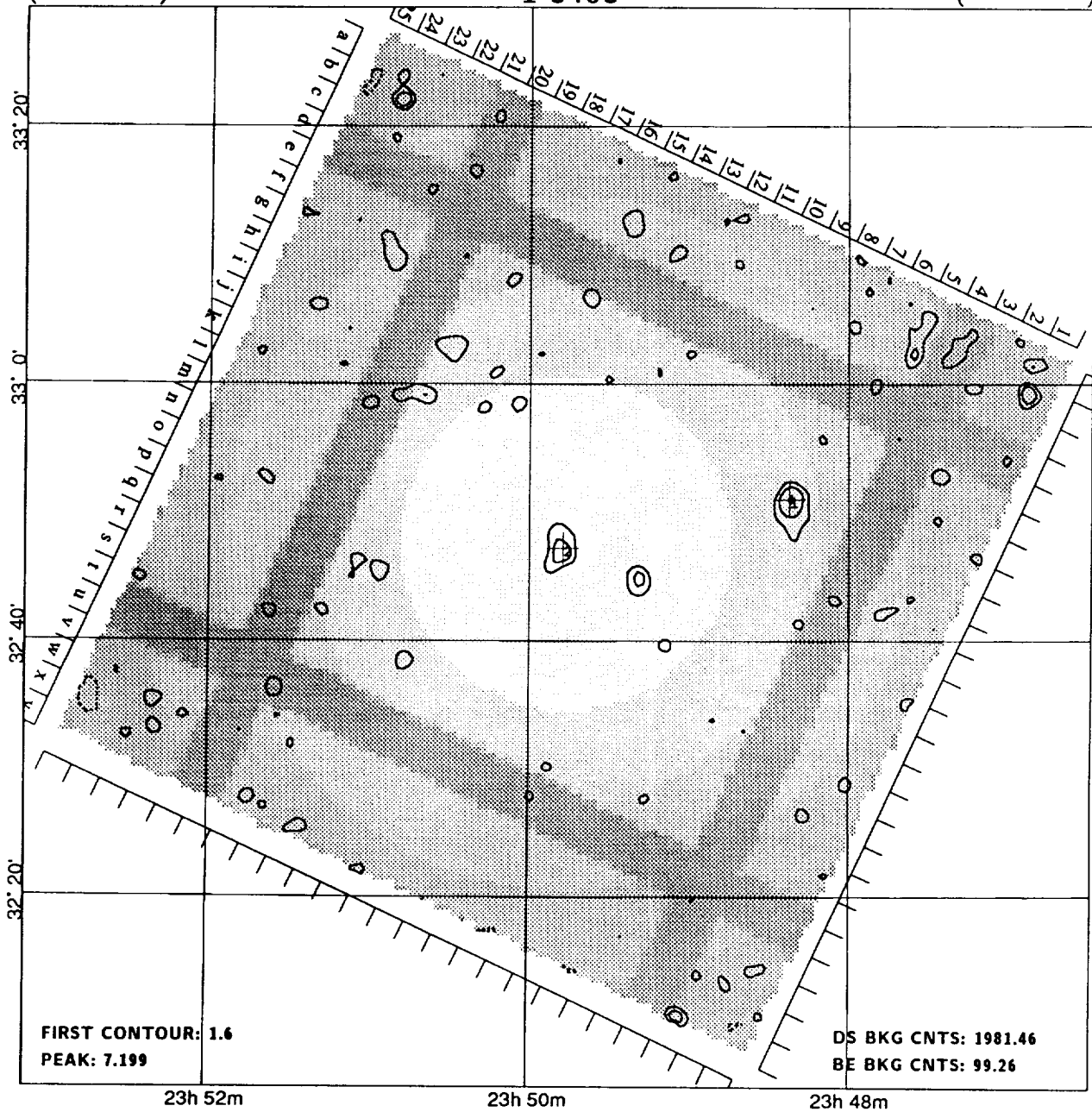
NH: 1.6E+20
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4776	1	23 48 54.3	-28 12 44	53	*0.0056	0.0013	30.6	19.4	4.3	0.7	702	18.0	H
4777	2	23 49 02.7	-28 38 28	42	0.0065	0.0013	40.6	27.4	4.9	3.1	0	12.6	H
4778	3	23 49 05.7	-28 34 52	38	0.0132	0.0017	87.7	33.3	8.0	1.4	0	9.6	H
4780	4	23 49 46.4	-28 29 55	35	0.0093	0.0014	67.1	35.9	6.6	1.1	0	3.0	H
4785	5	23 50 16.1	-28 42 24	51	*0.0051	0.0013	28.1	24.9	3.9	0.7	805	16.9	
4786	6	23 50 36.4	-28 26 14	42	0.0061	0.0013	36.9	28.1	4.6	0.8	0	13.0	
4787	7	23 51 09.3	-28 08 04	52	0.0133	0.0023	48.1	20.9	5.8	1.3	0	28.3	H

(23h 49m)

I 8408

(23h 49m)



FIELD CENTER: $23^h 49^m 48.8^s$ $32^\circ 47' 17''$ (B1950)
 $23^h 52^m 20.8^s$ $33^\circ 03' 59''$ (J2000)
 $l: 108.90$ $b: -28.19$

DATE: 1980/363 - 1980/363
 LIVETIME: 1605.6s
 ROLL ANGLE: 115.0°

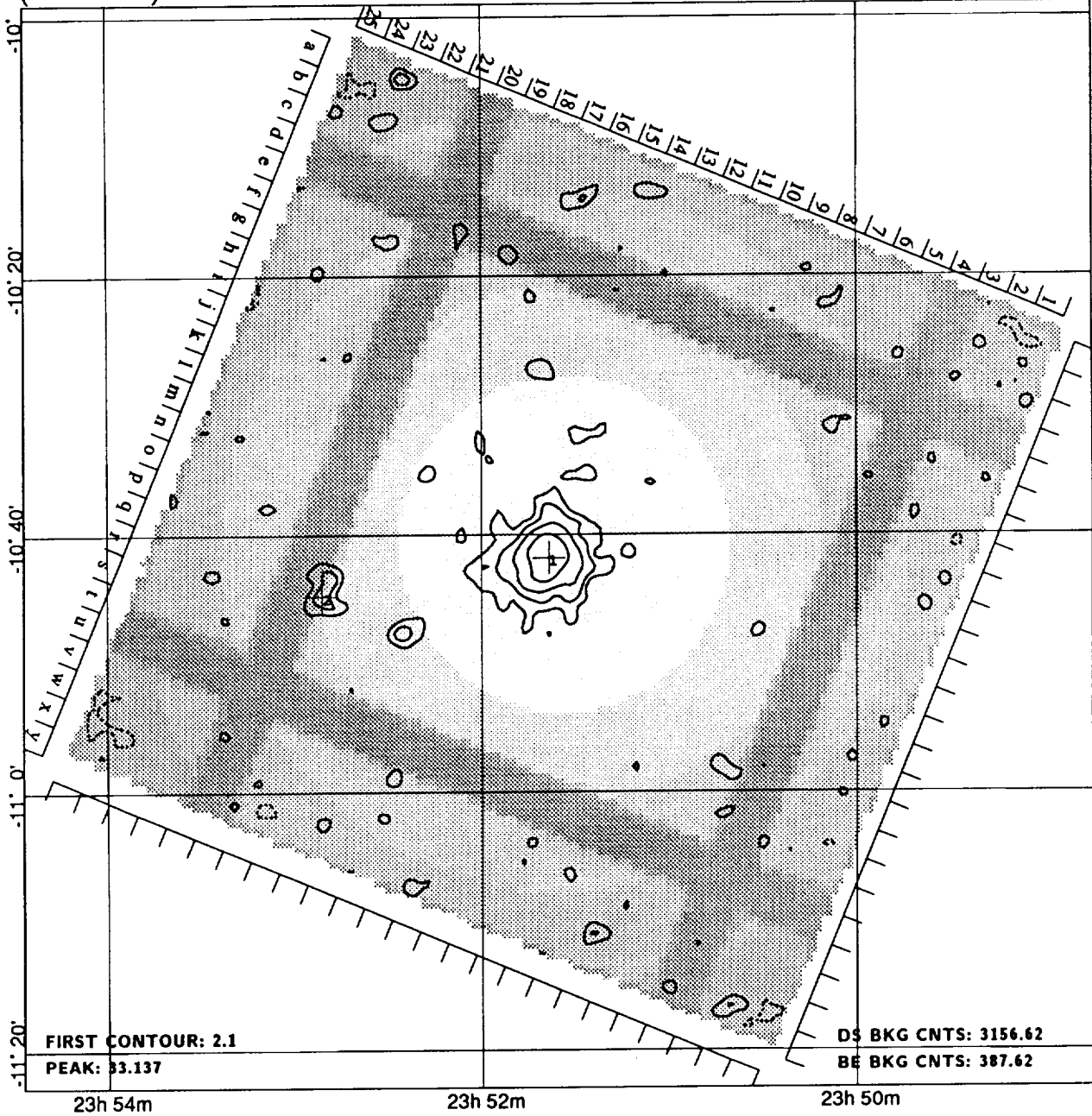
NH: $5.8E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4771	1	23 48 22.2	32 51 04	52	0.0196	0.0052	17.1	3.9	3.7	1.0	0	18.6	H
4781	2	23 49 47.2	32 47 16	38	0.0191	0.0044	22.8	5.2	4.3	0.9	0	0.2	H

(23h 51m)

I 314

(23h 51m)



A 2670 CLUSTERS WITH WELL STUDIED OPTICAL PROPERTIES

FIELD CENTER: $23^h 51^m 35.8^s$ $-10^\circ 40' 59''$ (B1950)
 $23^h 54^m 10.0^s$ $-10^\circ 24' 18''$ (J2000)
 $l: 81.32$ $b: -68.52$

DATE: 1978/358 - 1978/358
 LIVETIME: 2557.9s
 ROLL ANGLE: 112.4°

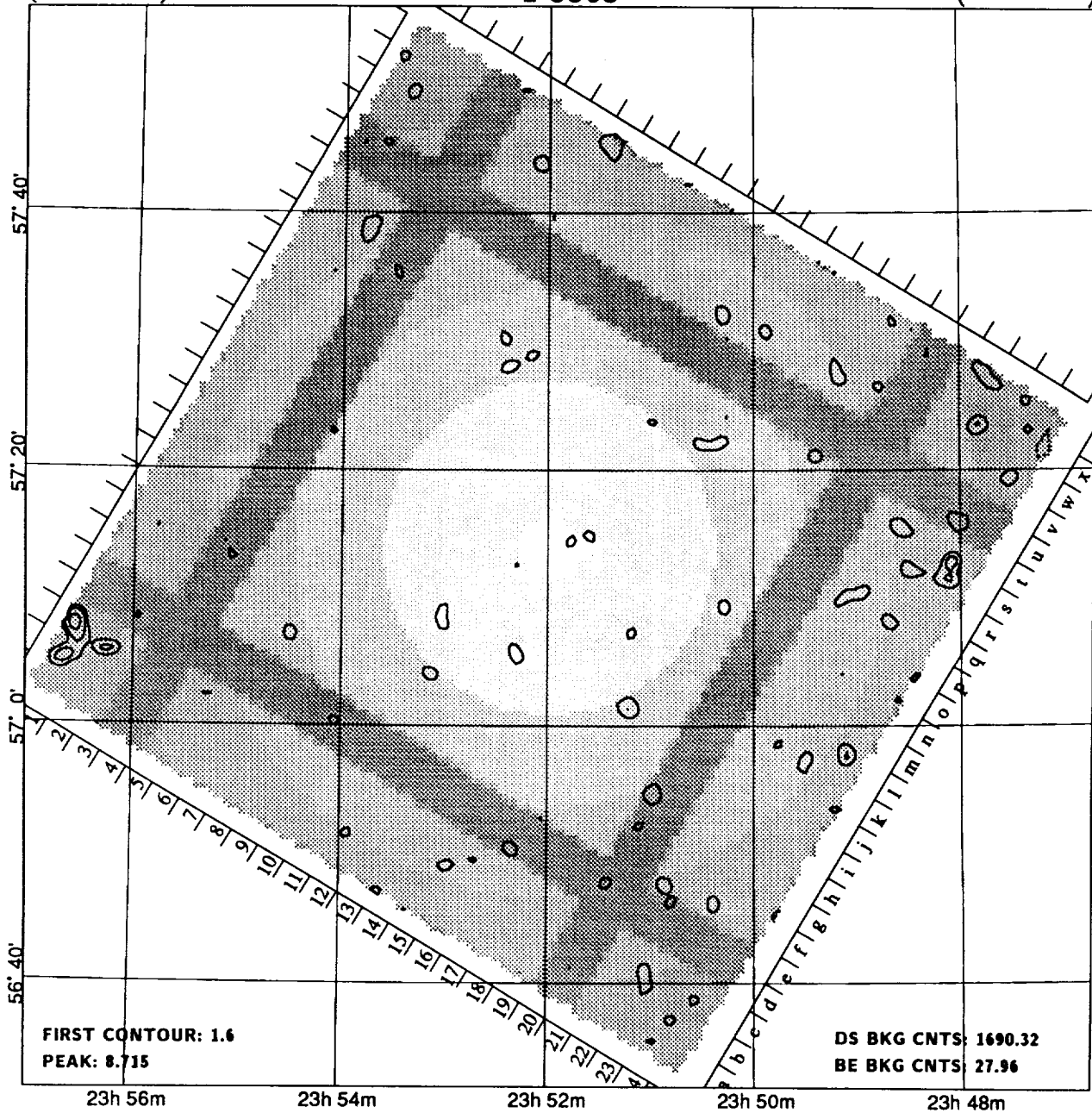
NH: $2.7E+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4788	1	23 51 38.4	-10 41 47	31	0.0888	0.0070	168.0	9.0	12.6	2.7	0	0.9	H	CLG
4790	2	23 52 51.4	-10 44 42	56	*0.0128	0.0035	17.0	5.0	3.6	1.3	906	18.5	H	

(23h 51m)

I 3363

(23h 51m)



EXPANDING STELLAR ATMOSPHERES: RHO CASSIOPEIAE

FIELD CENTER: $23^{\text{h}}51^{\text{m}}52.8^{\text{s}}$ $57^{\circ}13'59''$ (B1950)
 $23^{\text{h}}54^{\text{m}}23.4^{\text{s}}$ $57^{\circ}30'41''$ (J2000)
 $l: 115.30$ $b: -4.51$

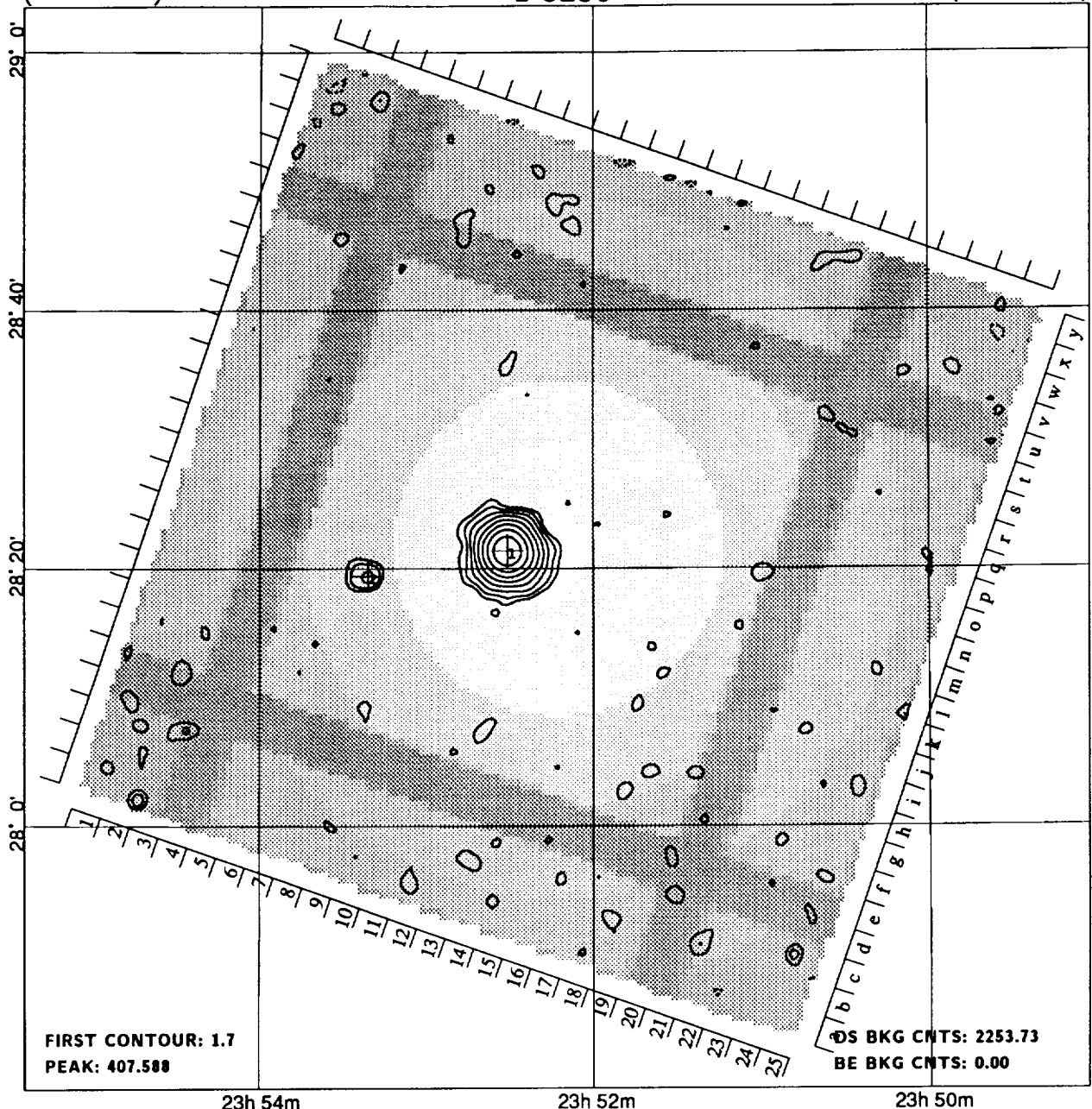
DATE: 1979/193 - 1979/193
 LIVETIME: 1369.7s
 ROLL ANGLE: -59.4°

NH: $3.9\text{E}+21$
 REF/ID:
 FIELD FLAGS:

(23h 52m)

I 3236

(23h 52m)



RS CVN SYSTEMS: HD 224085

FIELD CENTER: 23^h52^m13.7^s 28°21'35" (B1950)
 23^h54^m46.4^s 28°38'17" (J2000)
 $l: 108.16$ $b: -32.60$

DATE: 1979/167 - 1979/167
 LIVETIME: 1826.3s
 ROLL ANGLE: -70.8°

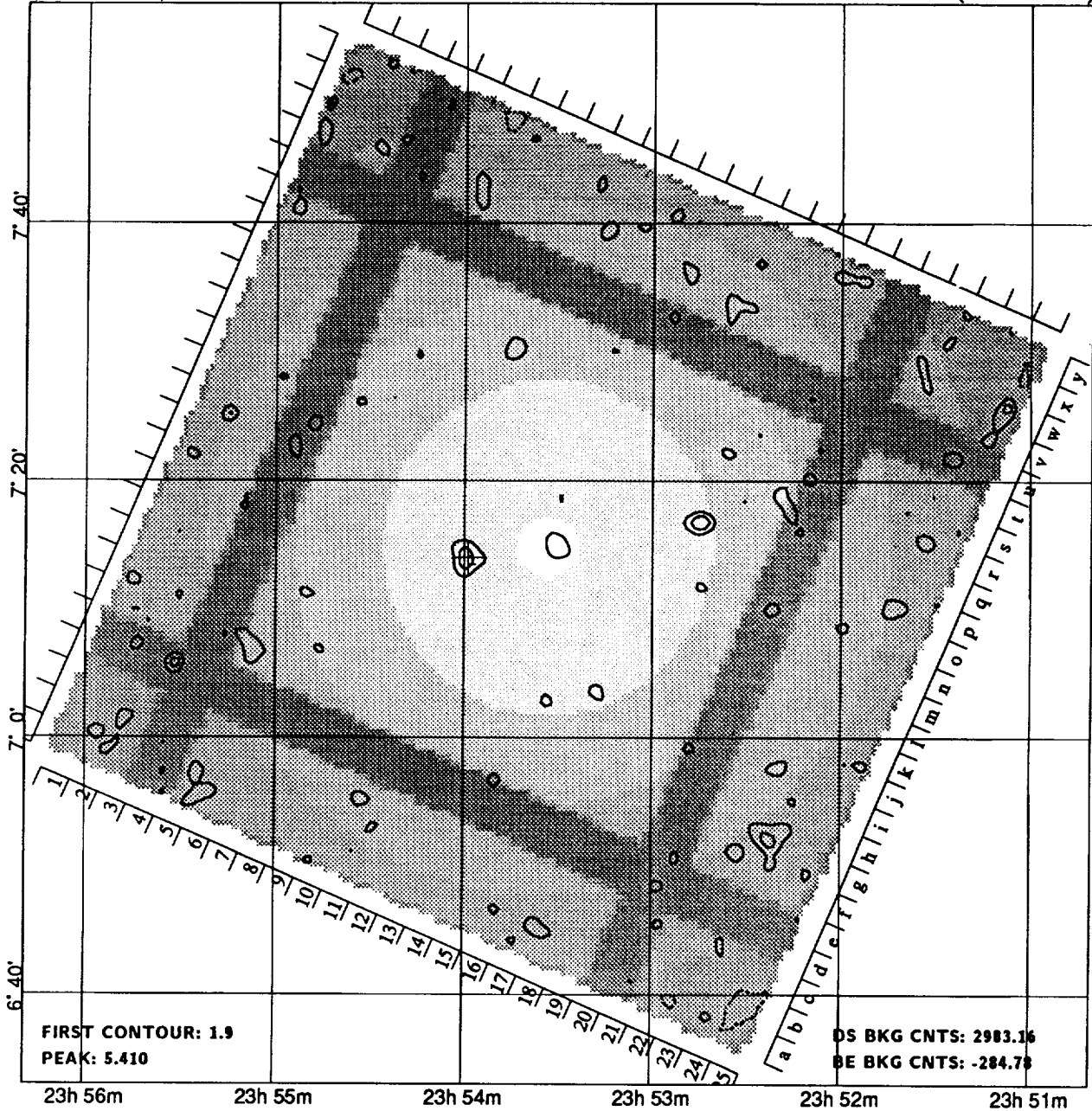
NH: 4.9E+20
 REF/ID:
 FIELD FLAGS: L

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE ±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4789	1L	23 52 30.9	28 21 23	31	1.156 0.036	1524.2	209.8	32.1	1.3	0	3.8	
4791	2L	23 53 21.1	28 19 24	42	0.0242 0.0057	25.9	3.1	4.1	0.8	0	15.0	Q

(23h 53m)

I 2651

(23h 53m)



SEYFERT GALAXY SURVEY: MKN 541

FIELD CENTER: $23^h 53^m 29.8^s$ $07^{\circ} 14' 59''$ (B1950)
 $23^h 56^m 03.3^s$ $07^{\circ} 31' 41''$ (J2000)
 $l: 99.81$ $b: -52.84$

DATE: 1980/172 - 1980/172
 LIVETIME: 2417.3s
 ROLL ANGLE: -66.7°

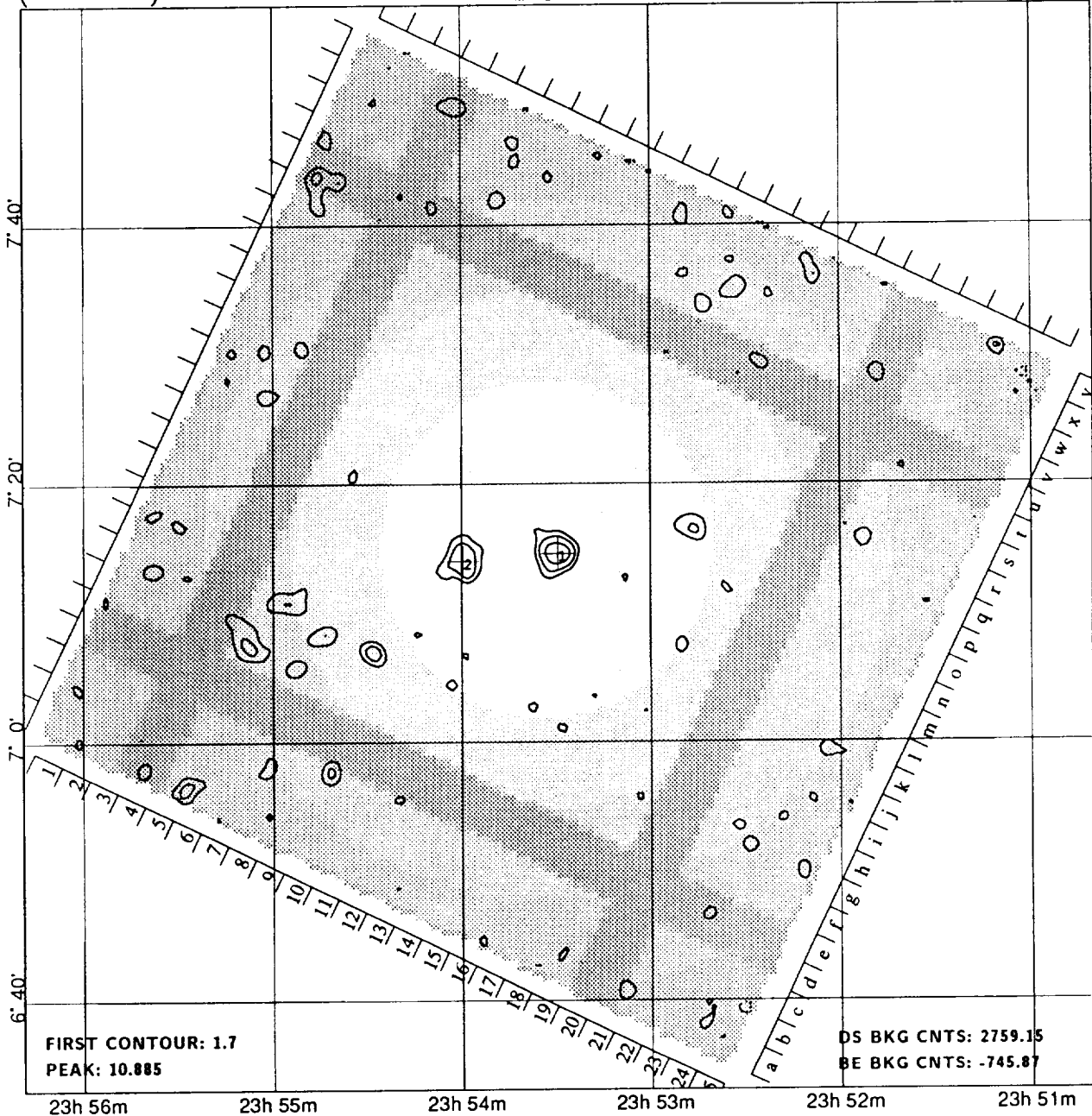
NH: $5.2E+20$
 REF/ID:
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4794	1	23 53 58.8	07 14 02	44	0.0125	0.0031	21.2	6.8	4.0	0.8	0	7.4	A	Q

(23h 53m)

I 3167

(23h 53m)



HIGH MASS SEYFERTS: MKN 541

FIELD CENTER: 23^h53^m29.8^s 07°14'59" (B1950)
 23^h56^m03.3^s 07°31'41" (J2000)
 $l: 99.81$ $b: -52.84$

DATE: 1979/190 - 1979/190
 LIVETIME: 2235.8s
 ROLL ANGLE: -64.4°

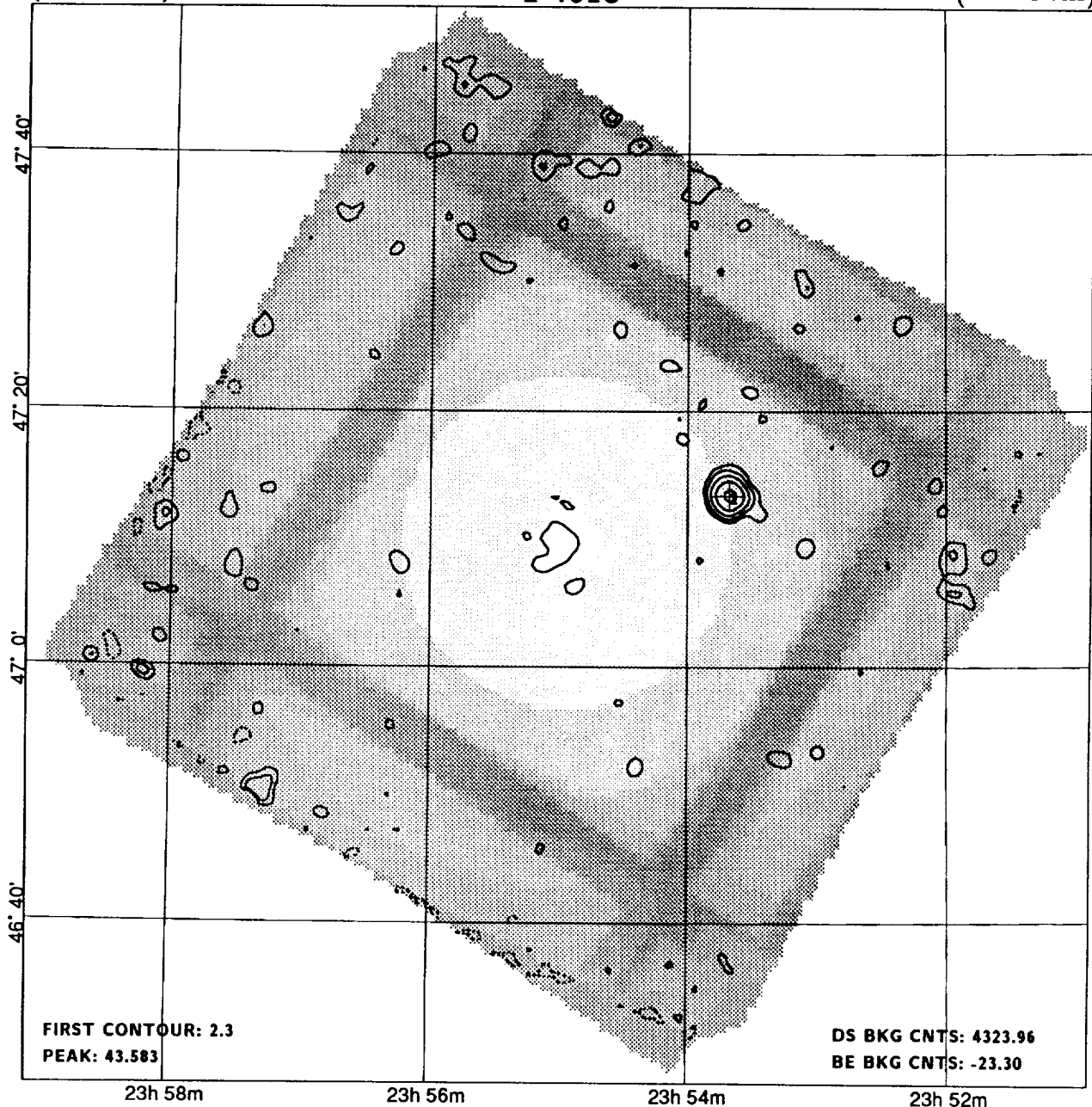
NH: 5.2E+20
 REF/ID: !
 FIELD FLAGS: C

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4792	1	23 53 29.4	07 14 33	35	0.0272	0.0042	45.2	4.8	6.4	0.9	0	0.4	H	
4794	2	23 53 59.6	07 13 59	42	0.0167	0.0036	26.1	4.9	4.7	1.1	0	7.1	AH	Q

(23h 54m)

I 4618

(23h 54m)



FIRST CONTOUR: 2.3
 PEAK: 43.583

DS BKG CNTS: 4323.96
 BE BKG CNTS: -23.30

23h 58m

23h 56m

23h 54m

23h 52m

POOR ZWICKY CLUSTER: 2354+471

FIELD CENTER: $23^{\text{h}}54^{\text{m}}59.8^{\text{s}} 47^{\circ}09'29''$ (B1950)
 $23^{\text{h}}57^{\text{m}}32.4^{\text{s}} 47^{\circ}26'11''$ (J2000)
 $l: 113.56 \quad b: -14.45$

DATE: 1980/ 9 - 1980/ 9
 LIVETIME: 3503.8s

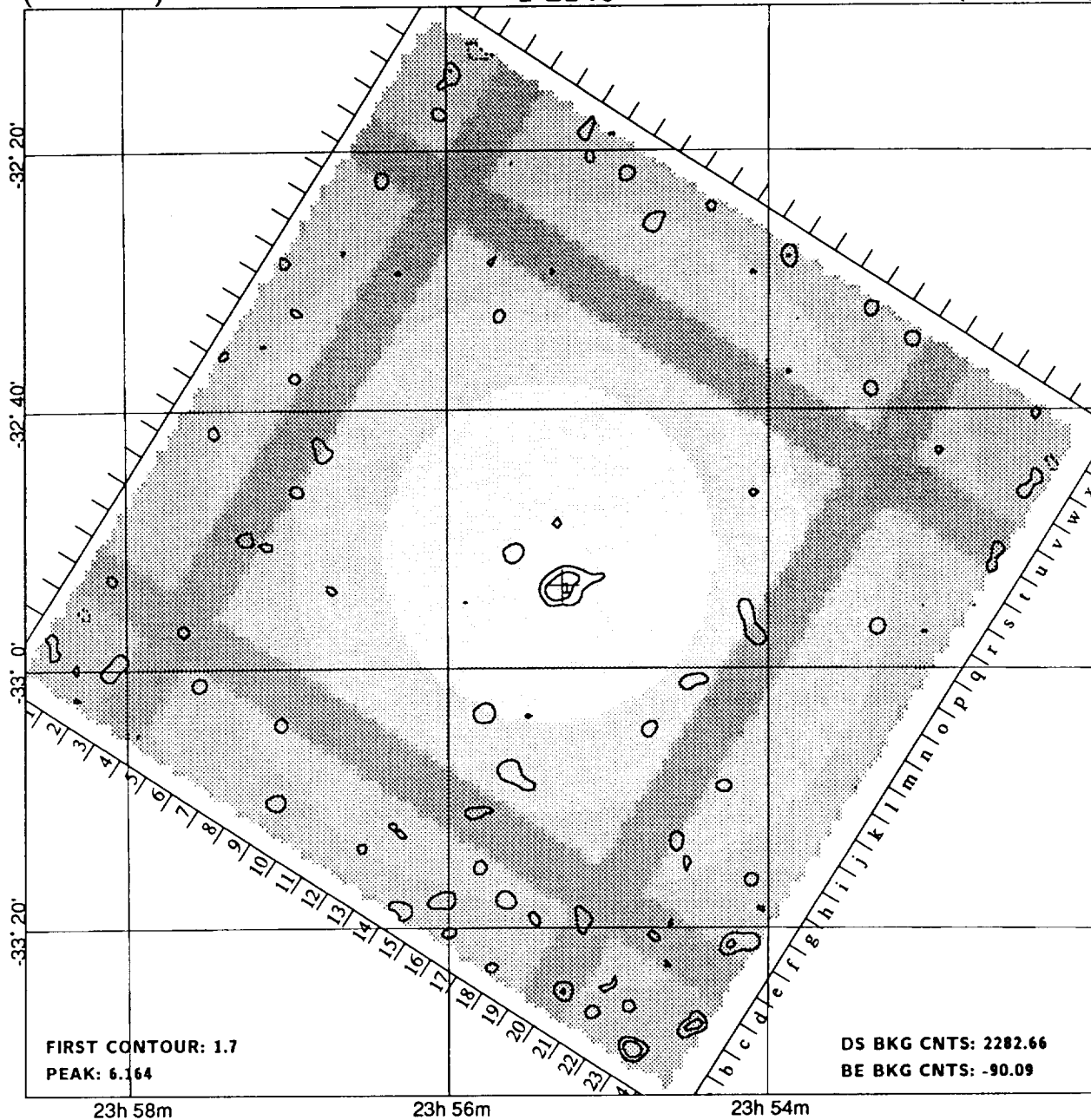
NH: $9.4\text{E}+20$
 REF/ID: G
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	ID FLG
4793	1	23 53 40.6	47 13 26	38	0.0607	0.0055	131.4	8.6	11.1	1.0	0	14.1	H	

(23h 55m)

I 2146

(23h 55m)



X-RAY SURVEY OF NORMAL GALAXIES: NGC7793

FIELD CENTER: $23^{\text{h}}55^{\text{m}}17.8^{\text{s}}$ $-32^{\circ}50'59''$ (B1950)
 $23^{\text{h}}57^{\text{m}}52.2^{\text{s}}$ $-32^{\circ}34'17''$ (J2000)
 $l: 4.58$ $b: -77.19$

DATE: 1979/145 - 1979/145
 LIVETIME: 1849.7s
 ROLL ANGLE: -57.5°

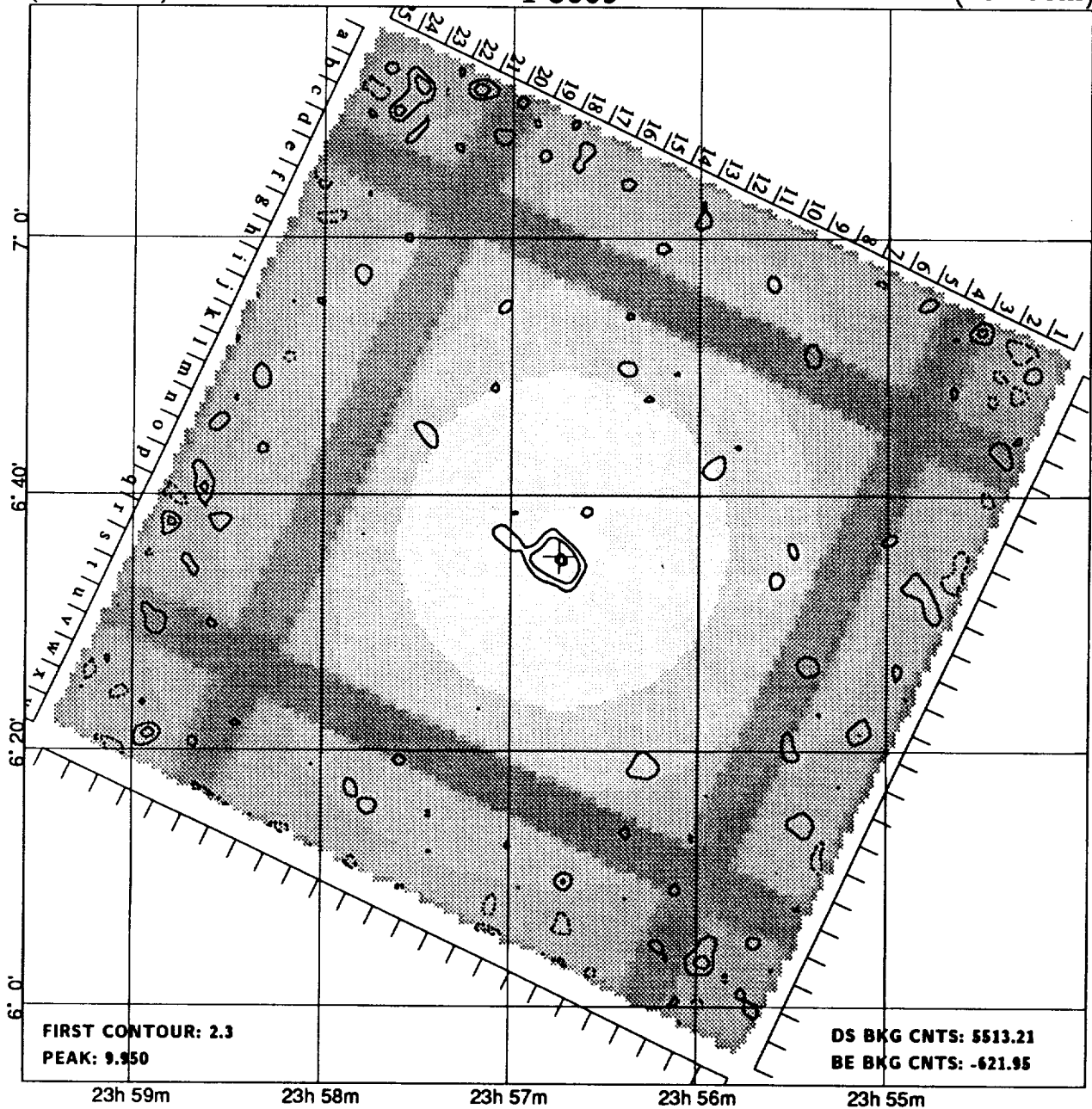
NH: $1.1\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID FLG
4796	1	23 55 17.0	-32 53 32	36	0.0220	0.0044	29.8	6.2	5.0	1.1	0	2.5	H G

(23h 56m)

I 5669

(23h 56m)



FIRST CONTOUR: 2.3
PEAK: 9.950

DS BKG CNTS: 5513.21
BE BKG CNTS: -621.95

Omega PSC

FIELD CENTER: $23^{\text{h}}56^{\text{m}}44.8^{\text{s}}$ $06^{\circ}35'59''$ (B1950)
 $23^{\text{h}}59^{\text{m}}18.5^{\text{s}}$ $06^{\circ}52'42''$ (J2000)
 $l: 100.70$ $b: -53.73$

DATE: 1981/ 6 - 1981/ 7
 LIVETIME: 4467.5s
 ROLL ANGLE: 115.2°

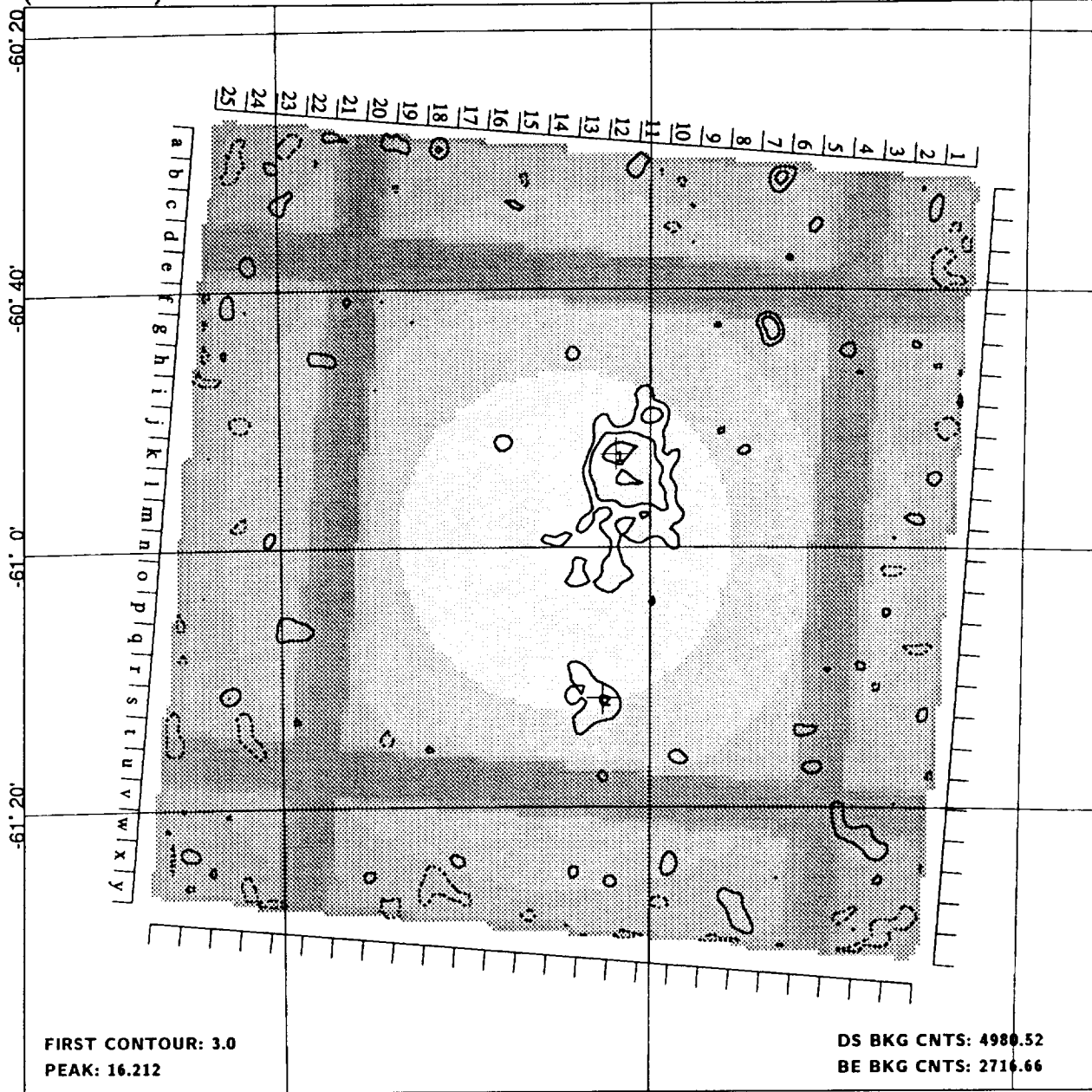
NH: $4.9\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4801	1	23 56 44.5	06 35 16	35	0.0136	0.0023	45.0	11.0	6.0	1.7	0	0.7	H S

(23h 56m)

I 5745

(23h 56m)



0h 0m

23h 56m

23h 52m

CLUSTERS WITH IPC: SC2357-610

FIELD CENTER: $23^{\text{h}}56^{\text{m}}59.8^{\text{s}}$ $-60^{\circ}59'59''$ (B1950)
 $23^{\text{h}}59^{\text{m}}34.4^{\text{s}}$ $-60^{\circ}43'17''$ (J2000)
 $l: 314.04$ $b: -55.27$

DATE: 1980/363 - 1980/363
 LIVETIME: 4035.9s
 ROLL ANGLE: 94.6°

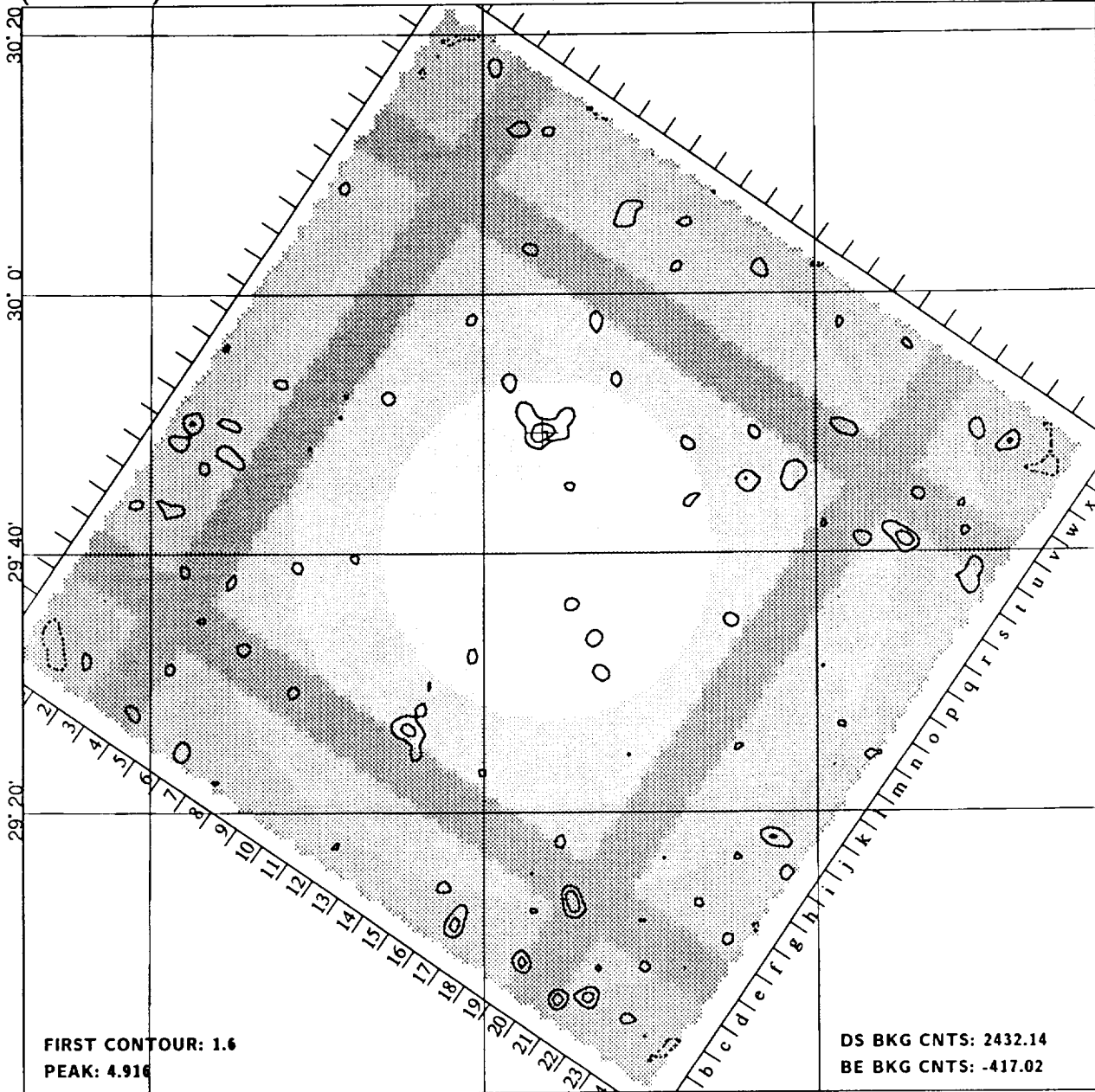
NH: $1.7\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4798	1	23 56 22.3	-60 52 43	41	0.0235	0.0033	65.4	20.6	7.1	4.9	0	8.6	H
4800	2	23 56 30.9	-61 11 32	46	0.0115	0.0027	29.4	17.6	4.3	1.7	0	12.2	

(23h 57m)

I 8693

(23h 57m)



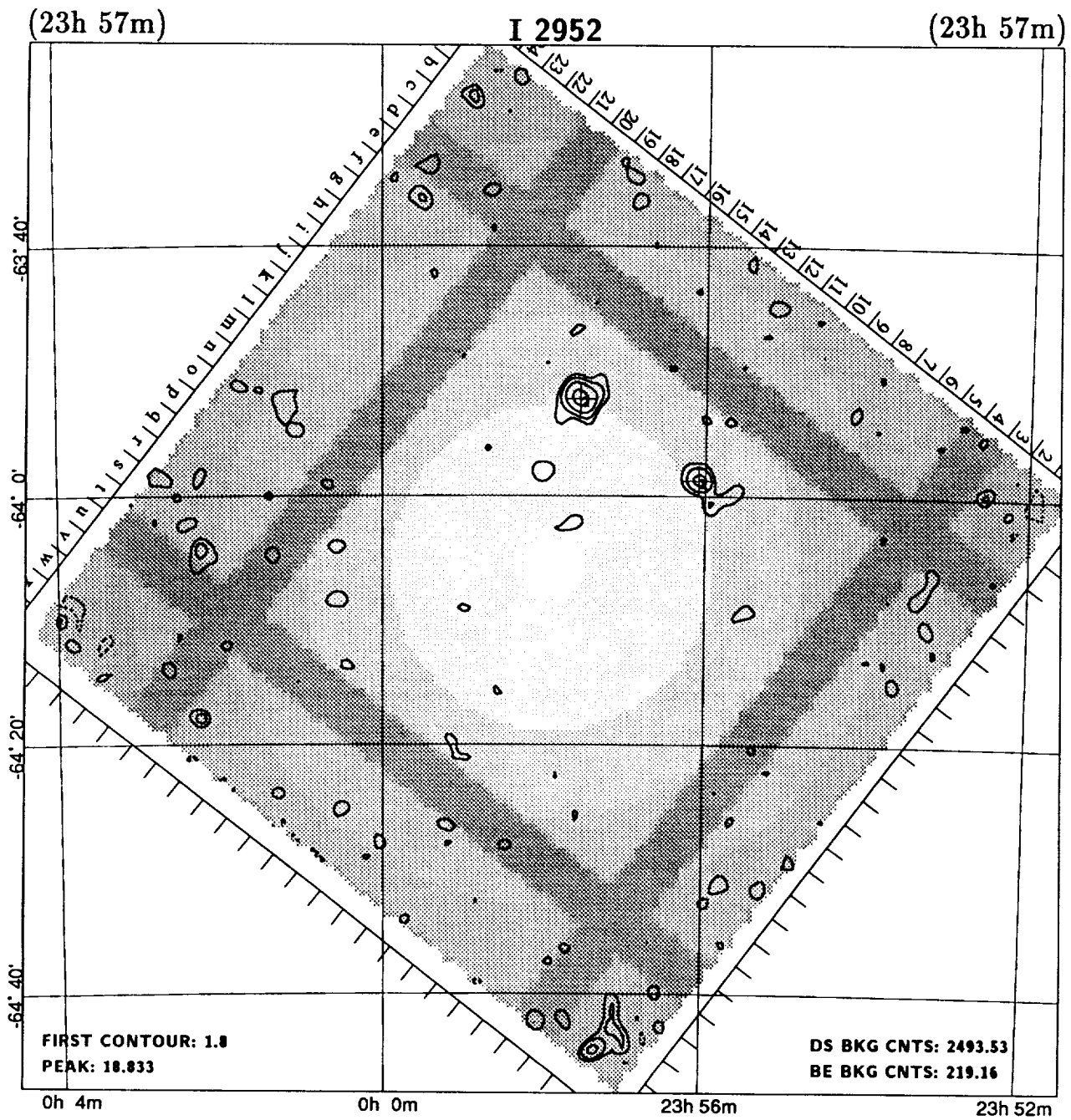
PG 2357+29, VERY HOT WHITE DWARFS

FIELD CENTER: $23^{\text{h}}57^{\text{m}}32.8^{\text{s}}$ $29^{\circ}40'19''$ (B1950)
 $00^{\text{h}}00^{\text{m}}06.4^{\text{s}}$ $29^{\circ}57'02''$ (J2000)
 $l: 109.87$ $b: -31.62$

DATE: 1980/203 - 1980/203
 LIVETIME: 1970.8s
 ROLL ANGLE: -55.7°

NH: $5.2\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	\pm "	COUNT RATE	\pm	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
4806	1	23 57 38.6	29 49 18	45	0.0125	0.0034	16.6	4.4	3.6	1.1	0	9.0	H



MX2348-65: X-RAY TRANSIENTS AND NOVA-LIKE OBJECTS

FIELD CENTER: 23^h57^m59.8^s -64°05'59" (B1950)
00^h00^m34.0^s -63°49'16" (J2000)
 l : 312.09 b : -52.39

DATE: 1979/325 - 1979/325
LIVETIME: 2020.6s
ROLL ANGLE: 127.5°

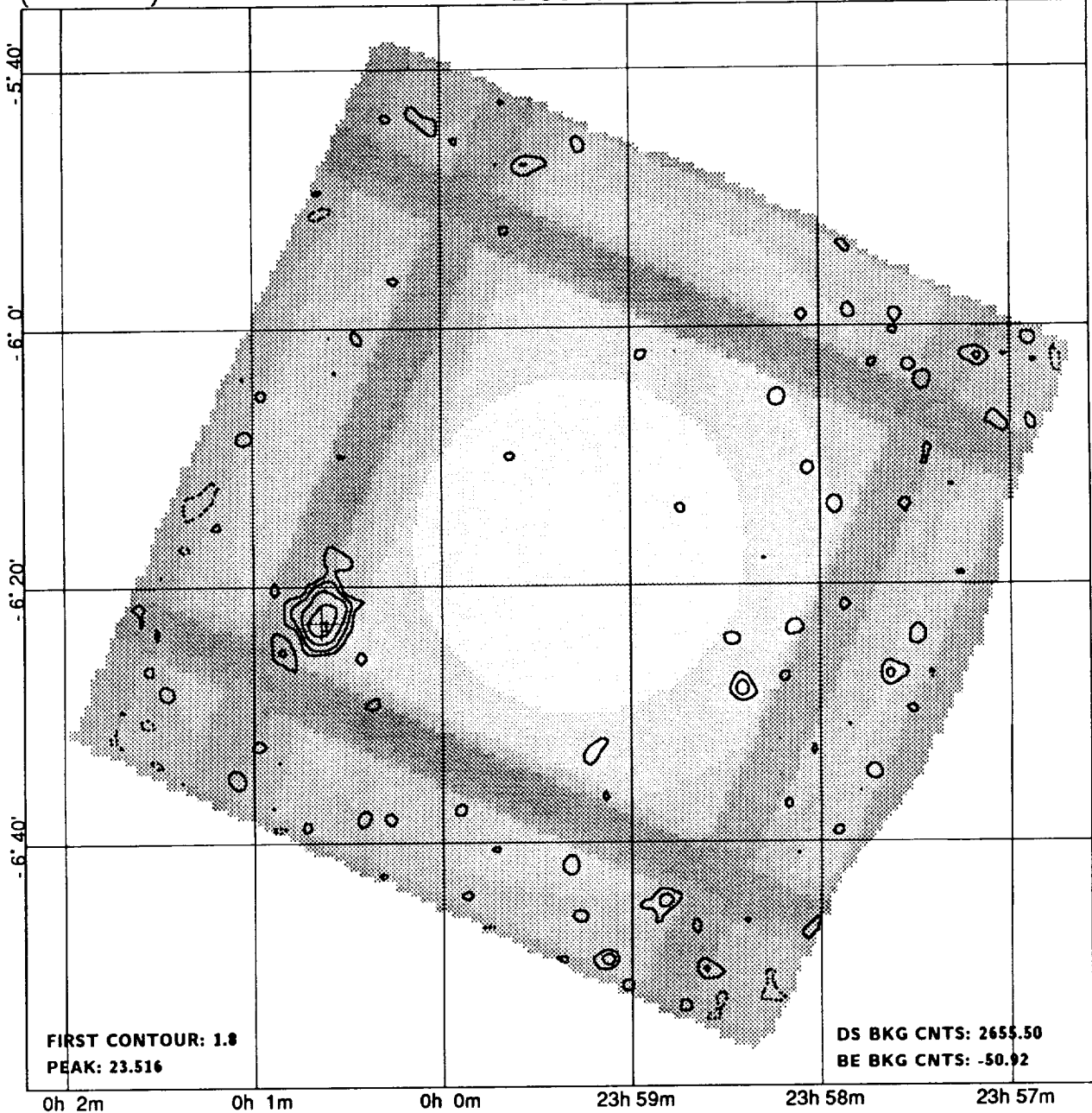
NH: 2.2E+20
REF/ID:
FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID	FLG
4797	1	23 56 05.0	-63 58 45	42	0.0213	0.0046	26.3	5.7	4.7	1.1	0	14.3	H	
4805	2	23 57 33.1	-63 52 13	41	0.0510	0.0067	63.0	6.0	7.6	1.1	0	14.1	H	

(23h 59m)

I 5670

(23h 59m)



30 PSC

FIELD CENTER: $23^{\text{h}}59^{\text{m}}23.7^{\text{s}}$ $-06^{\circ}16'59''$ (B1950)
 $00^{\text{h}}01^{\text{m}}57.5^{\text{s}}$ $-06^{\circ}00'17''$ (J2000)
 $l: 91.59$ $b: -65.82$

DATE: 1980/346 - 1980/346
 LIVETIME: 2151.8s

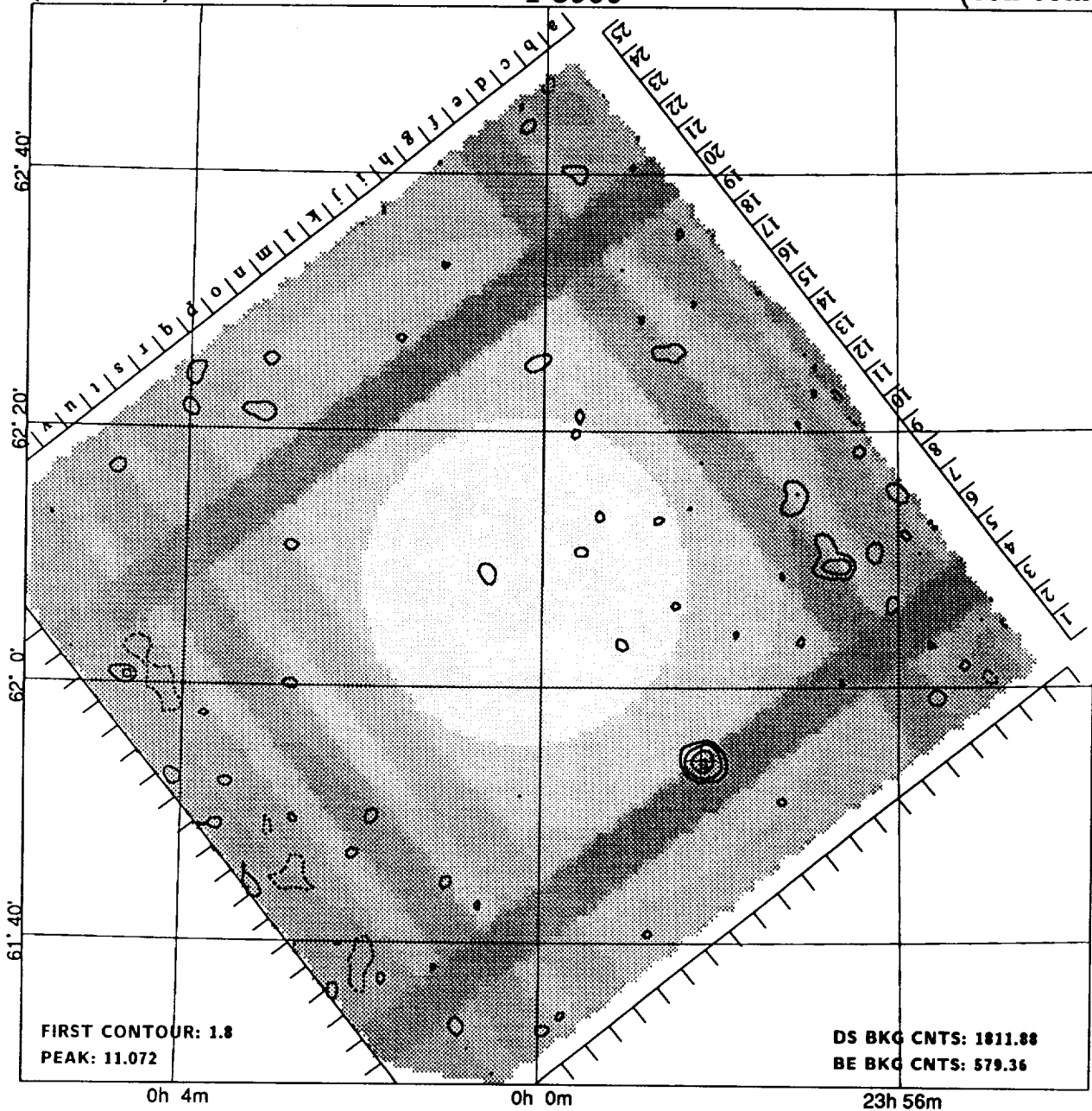
NH: $3.2\text{E}+20$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC ID
1	1	00 00 38.4	-06 22 52	50	*0.0654	0.0081	69.3	3.7	8.1	1.8	1509	19.5	H

(23h 59m)

I 5906

(23h 59m)



SUPERNOVA REMNANT SURVEY: CTB 1

FIELD CENTER: $23^{\text{h}}59^{\text{m}}47.8^{\text{s}}$ $62^{\circ}10'59''$ (B1950)
 $00^{\text{h}}02^{\text{m}}22.2^{\text{s}}$ $62^{\circ}27'41''$ (J2000)
 $l: 117.29$ $b: 0.13$

DATE: 1980/ 38 - 1980/ 38
 LIVETIME: 1468.2s
 ROLL ANGLE: 141.6°

NH: $6.7E+21$
 REF/ID:
 FIELD FLAGS:

CAT #	FLD #	RA (1950)	DEC (1950)	± "	COUNT RATE	±	NET CTS	BKG CTS	S/N	SIZE COR	RECO	R'	SRC FLG	ID
4807	1	23 58 12.0	61 54 18	51	*0.0428	0.0078	32.8	3.2	5.5	1.0	805	20.0	H	



REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE April 1993	3. REPORT TYPE AND DATES COVERED Technical Memorandum	
4. TITLE AND SUBTITLE Einstein Observatory Catalog of IPC X-Ray Sources Volume 7-Right Ascension Range 20h 00m to 23h 59m			5. FUNDING NUMBERS C NAS 8-30751	
6. AUTHOR(S) D.E.Harris, W.Forman, I.M.Gioia, J.A.Hale, F.R.Harnden, Jr. C.Jones, T.Karakashian, T.Maccacaro, J.D.McSweeney, F.A. Primini, J.Schwarz, H.D.Tananbaum, and J.Thurman				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Smithsonian Institution Astrophysical Observatory 60 Garden Street, Cambridge, MA 02138			8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) National Aeronautics and Space Administration Washington, DC 20546			10. SPONSORING/MONITORING AGENCY REPORT NUMBER NASA TM-108401 Volume 7	
11. SUPPLEMENTARY NOTES The cdrom version of the catalog is available rom NSSDC, GSFC/NASA, Code 633, Greenbelt, MD 20771 (request@NSSDCA.GSFC.NASA.GOV)				
12a. DISTRIBUTION/AVAILABILITY STATEMENT Unclassified-Unlimited Subject Category 90			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) The Einstein Observatory (HEAO-2, launched November 13, 1978) achieved radically improved sensitivity over previous x-ray missions through the use of focusing optics, which simultaneously afforded greatly reduced background and produced true images. During its 2.5-yr mission, the Einstein X-Ray Telescope was pointed toward some 5,000 celestial targets, most of which were detected, and discovered several thousand additional "serendipitous" sources in the observed fields. This catalog contains contour diagrams and source data, obtained with the imaging proportional counter in the 0.16 to 3.5 keV energy band, and describes methods for recovering upper limits for any sky position within the observed images. The main catalog consists of six volumes (numbered 2 through 7) of right ascension ordered pages, each containing data for one observation. Along with the primary documentation describing how the catalog was constructed, volume 1 contains a complete source list, results for merged fields, a reference system to published papers and data useful for calculating upper limits and fluxes. A machine readable version of the catalog is available as a set of three CD-ROM (Compact Disk-Read Only Memory), and source information is also accessible via an on-line computer service.				
14. SUBJECT TERMS astronomy, Einstein Observatory, x-ray sources, catalogs, HEAO-2			15. NUMBER OF PAGES 515	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT Unlimited	