

Part II: Tables and Figures

HH 12

Alternative names :		
Type :	LEO	[40]
Coordinates :		
	$\alpha_{1950} =$	$3^h 25^m 52.1$
	$\delta_{1950} =$	$31^\circ 09' 51''$
Proper motion (Knot B) :		[21]
	$\mu_\alpha \cos \delta =$	$5''.0 \pm 0''.7 \text{ cen}^{-1}$
	$\mu_\delta =$	$14''.4 \pm 0''.6 \text{ cen}^{-1}$
Radial velocity :	$-58 \pm 3 \text{ km s}^{-1}$	[40]
Suspected source :	SVS 12	
Region :	NGC 1333	
Distance :	220 pc	
Characteristic size :	$45'' \times 70''$	
Associated with molecular outflow :	Yes	[11]
P.A. of jet :	$\sim 10^\circ$	

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWP	05148	L	L	05-01-85	150.0	B=120	338.97
2	SWP	24842	L	L	05-01-85	195.0	B=100	338.97

HH 11

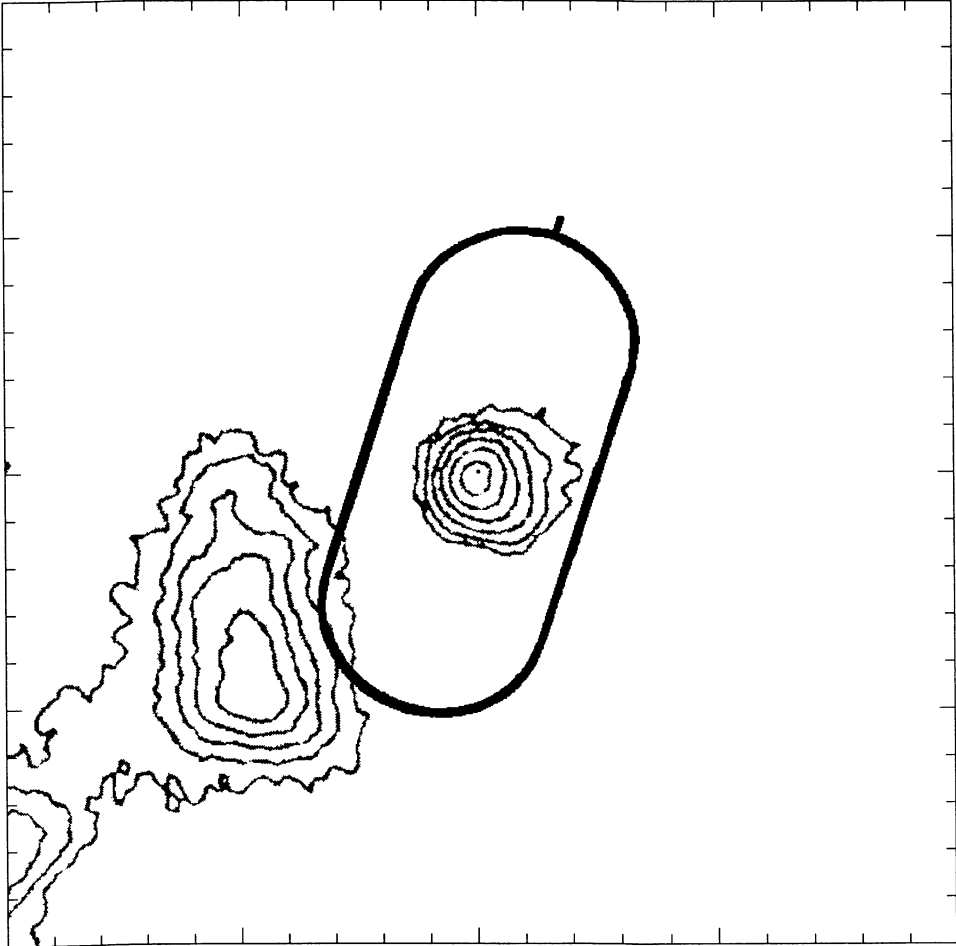
Alternative names :		
Type :	LEO	[2]
Coordinates :		
	$\alpha_{1950} = 3^h 25^m 59^s.0$	
	$\delta_{1950} = 31^\circ 05' 35''$	
Proper motion (Knot A) :		
	$\mu_\alpha \cos \delta = 3''.0 \pm 0''.5 \text{ cen}^{-1}$	[21]
	$\mu_\delta = -1''.8 \pm 0''.8 \text{ cen}^{-1}$	
Radial velocity :	$-139 \pm 17 \text{ km s}^{-1}$	[40]
Suspected source :	SVS 13	
Region :	NGC 1333	
Distance :	220 pc	
Characteristic size :	$8'' \times 8''$	
Asociated with molecular outflow :	Yes	[37]
P.A. of jet :	117°	[32]

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWP	09798	L	L	27-12-86	240.0	E=183,B=153	343.03
2	LWP	09807	L	L	28-12-86	240.0	E=200,C=202,B=170	342.76
3	LWP	09813	L	L	29-12-86	390.0		342.24
4	SWP	29982	L	L	28-12-86	640.0	C=138,B=115	342.76
5	SWP	32622	L	L	26-12-87	835.0	B=146	343.93

HH 11

CENTER = HH11A PA = 342°
 $\alpha_C = 3^h 25^m 58^s.99$ $\delta_C = 31^\circ 05' 33''.1$

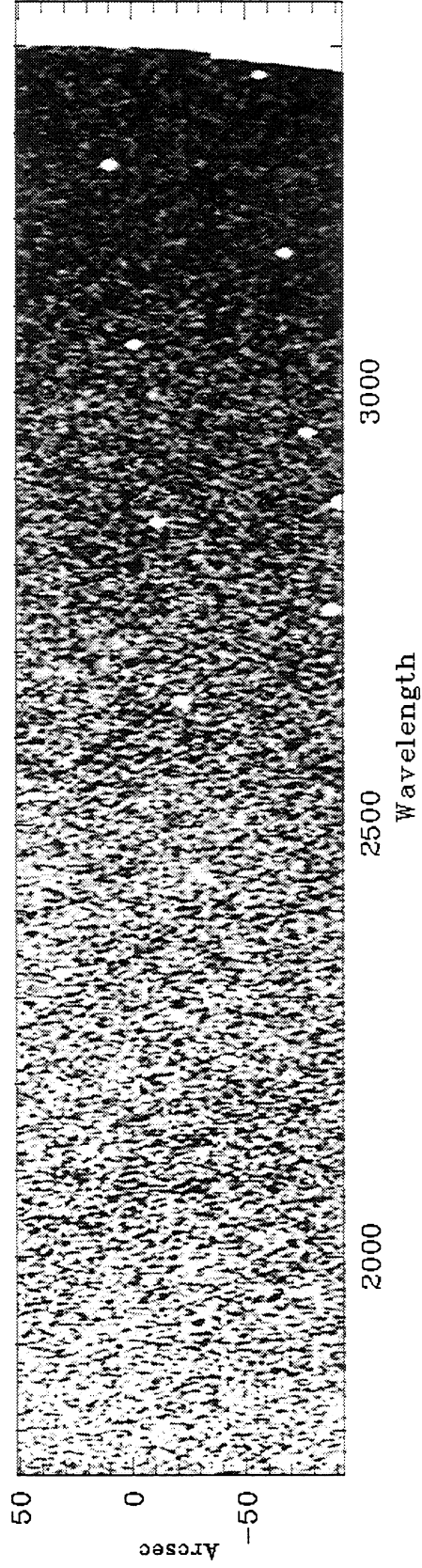
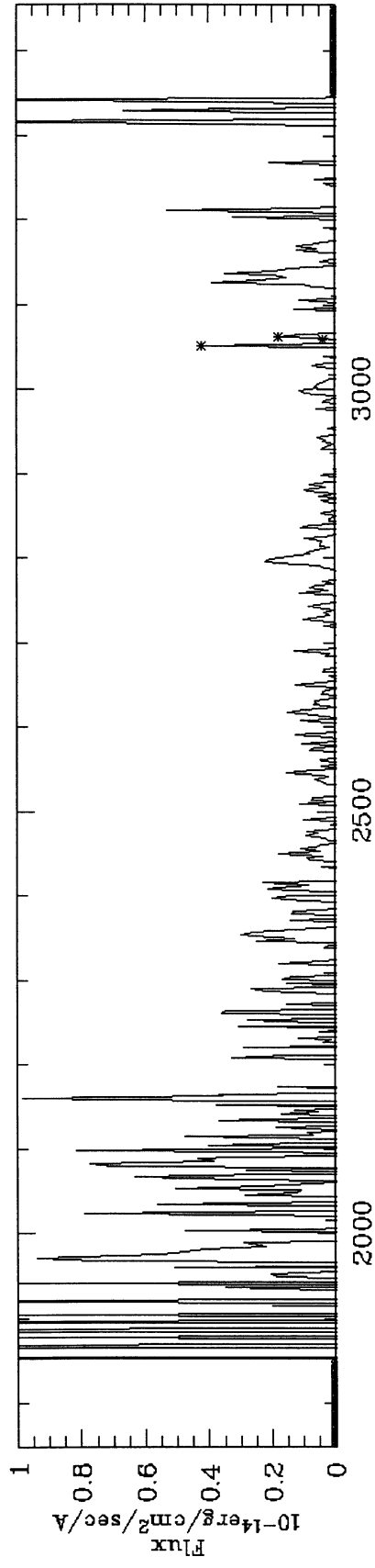


From the [S II] data in Raga *et al.* (1988)

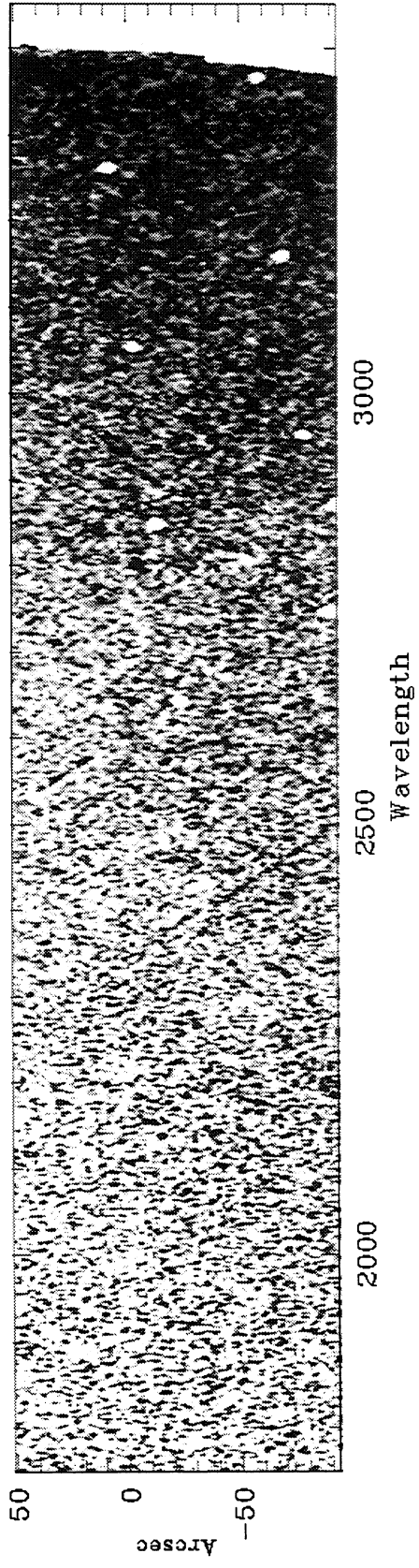
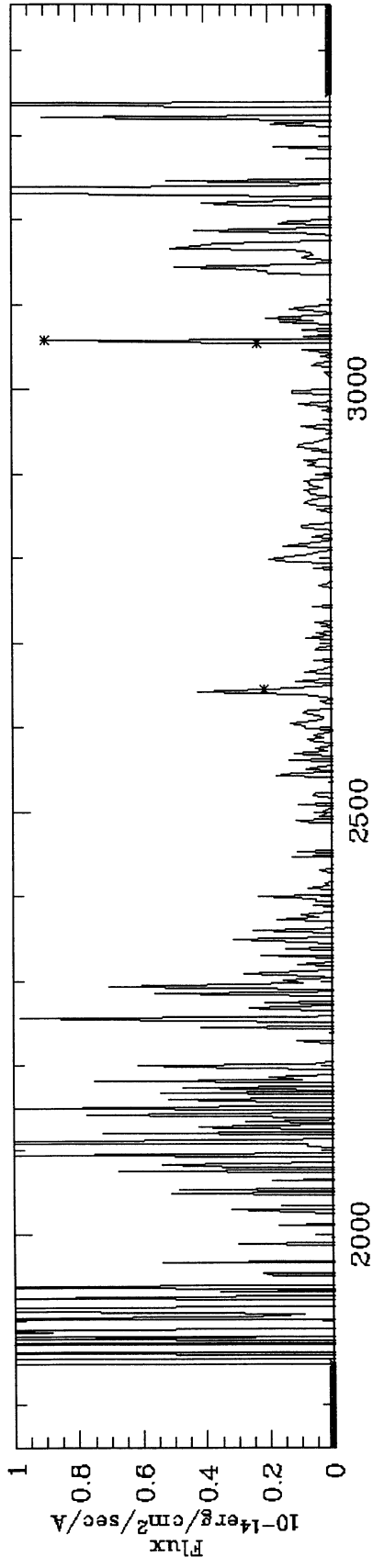
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWP	09798	$(8.9 \pm 1.5)\text{E-15}$			
LWP	09807				
LWP	09813	$(8.7 \pm 0.6)\text{E-15}$			

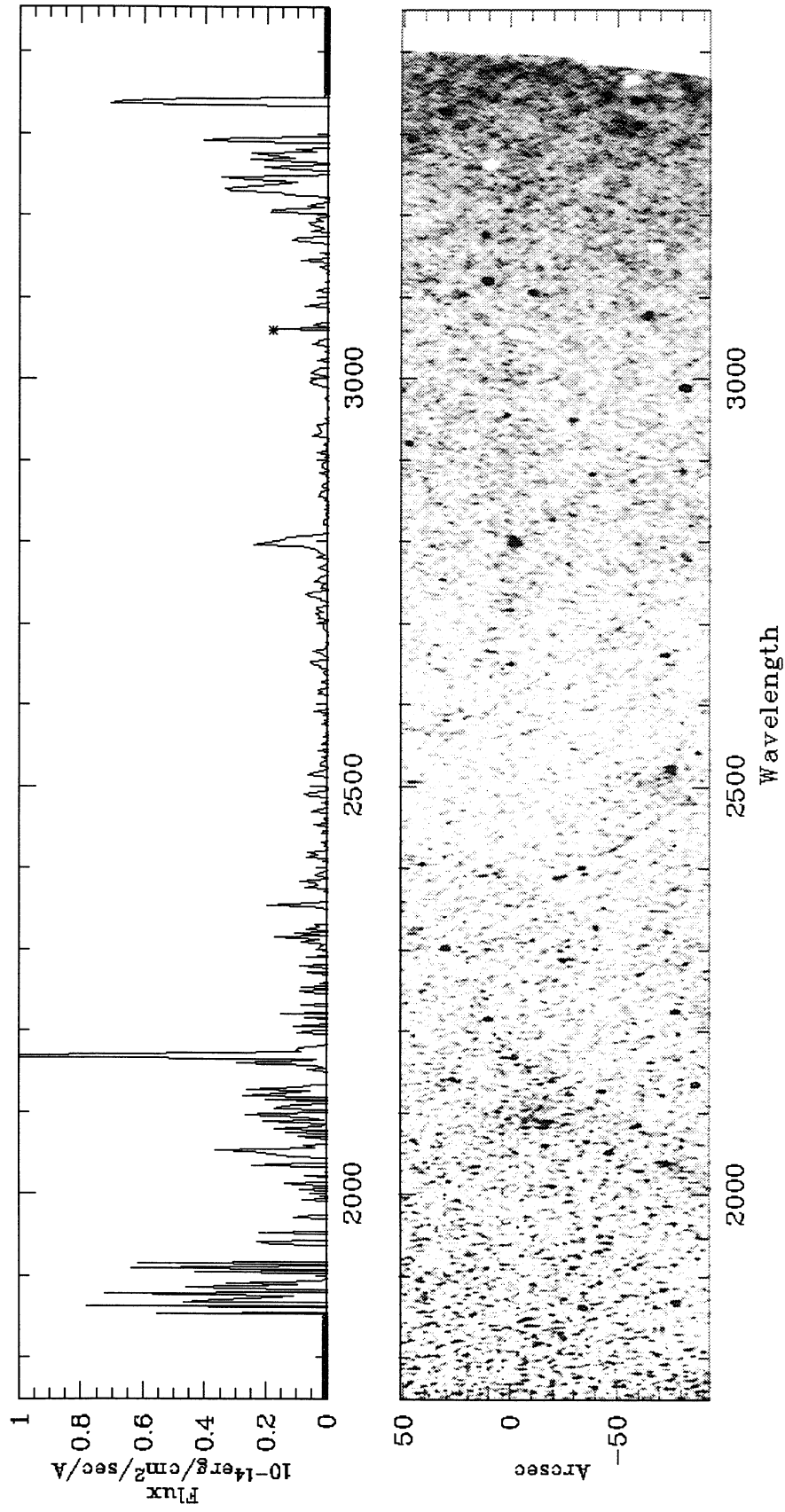
LWP09798



LWP09807



LWP09813



HH 7

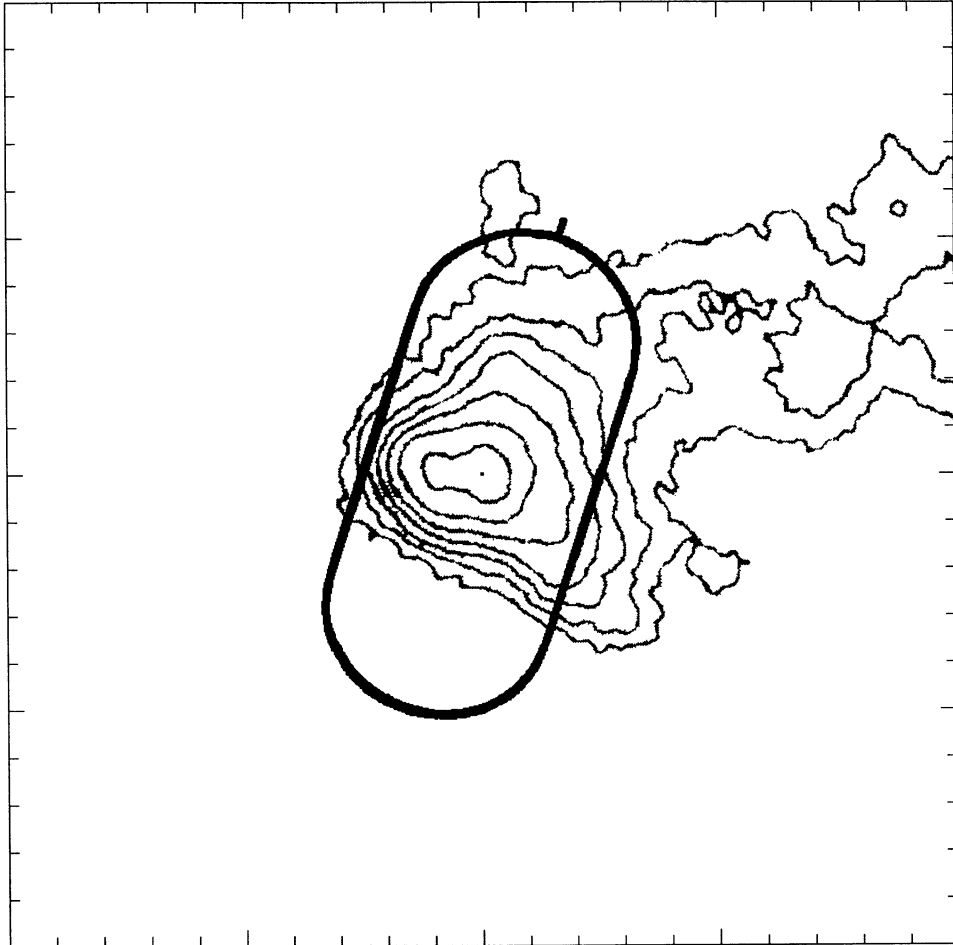
Alternative names :		
Type :	LEO	[2]
Coordinates :		
	$\alpha_{1950} = 3^h 26^m 02^s.5$	
	$\delta_{1950} = 31^\circ 05' 10''$	
Proper motion (Knot A) :		[21]
	$\mu_\alpha \cos \delta = 1''.4 \pm 2''.0 \text{ cen}^{-1}$	
	$\mu_\delta = 2''.9 \pm 2''.0 \text{ cen}^{-1}$	
Radial velocity :	$-51 \pm 14 \text{ km s}^{-1}$	[40]
Suspected source :	SVS 13	
Region :	NGC 1333	
Distance :	220 pc	
Characteristic size :	$15'' \times 15''$	
Associated with molecular outflow :	Yes	[37]
P.A. of jet :	117°	[32]

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWP	09797	L	L	27-12-86	545.0	E=165,B=138	343.25
2	LWP	12391	L	L	28-12-87	295.0	B=90	342.87
3	SWP	32632	L	L	28-12-87	540.0	B=115	342.87

HH 7

CENTER = HH7A PA = 342°
 $\alpha_C = 3^h 26^m 02^s.78$ $\delta_C = 31^\circ 05' 10''.8$

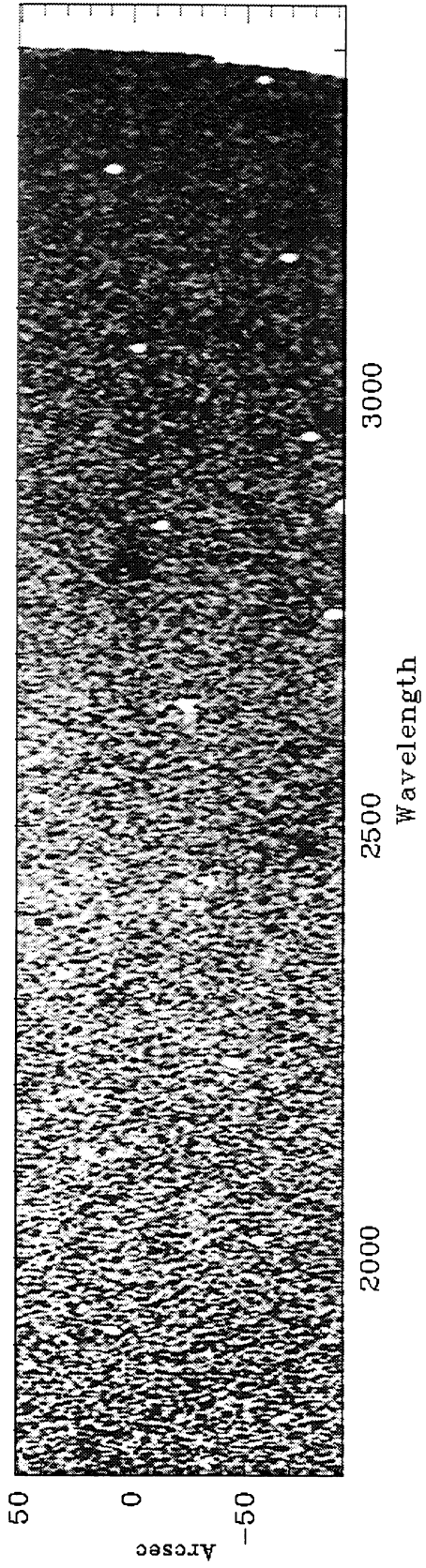
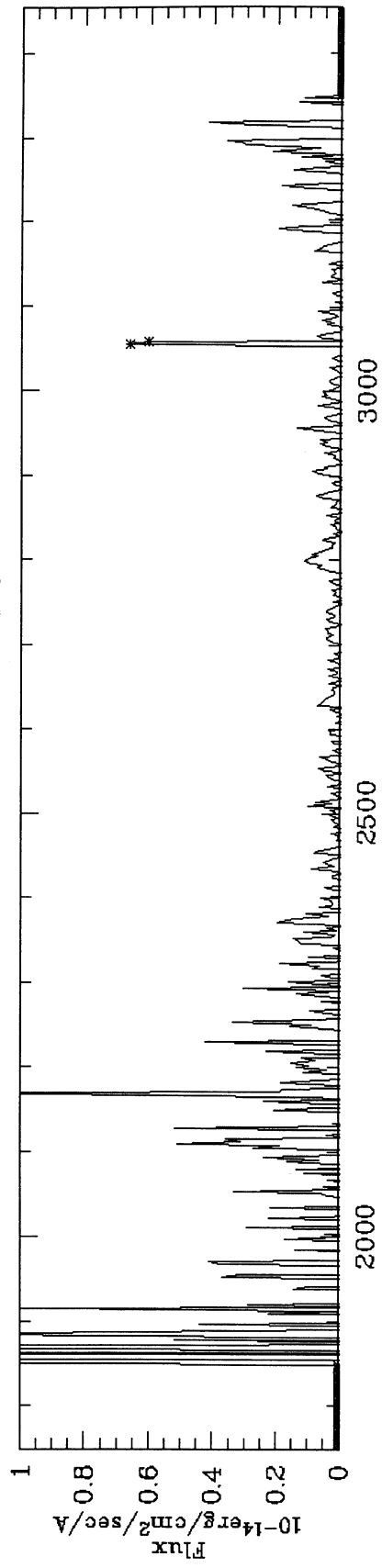


From the [S II] data in Raga *et al.* (1988)

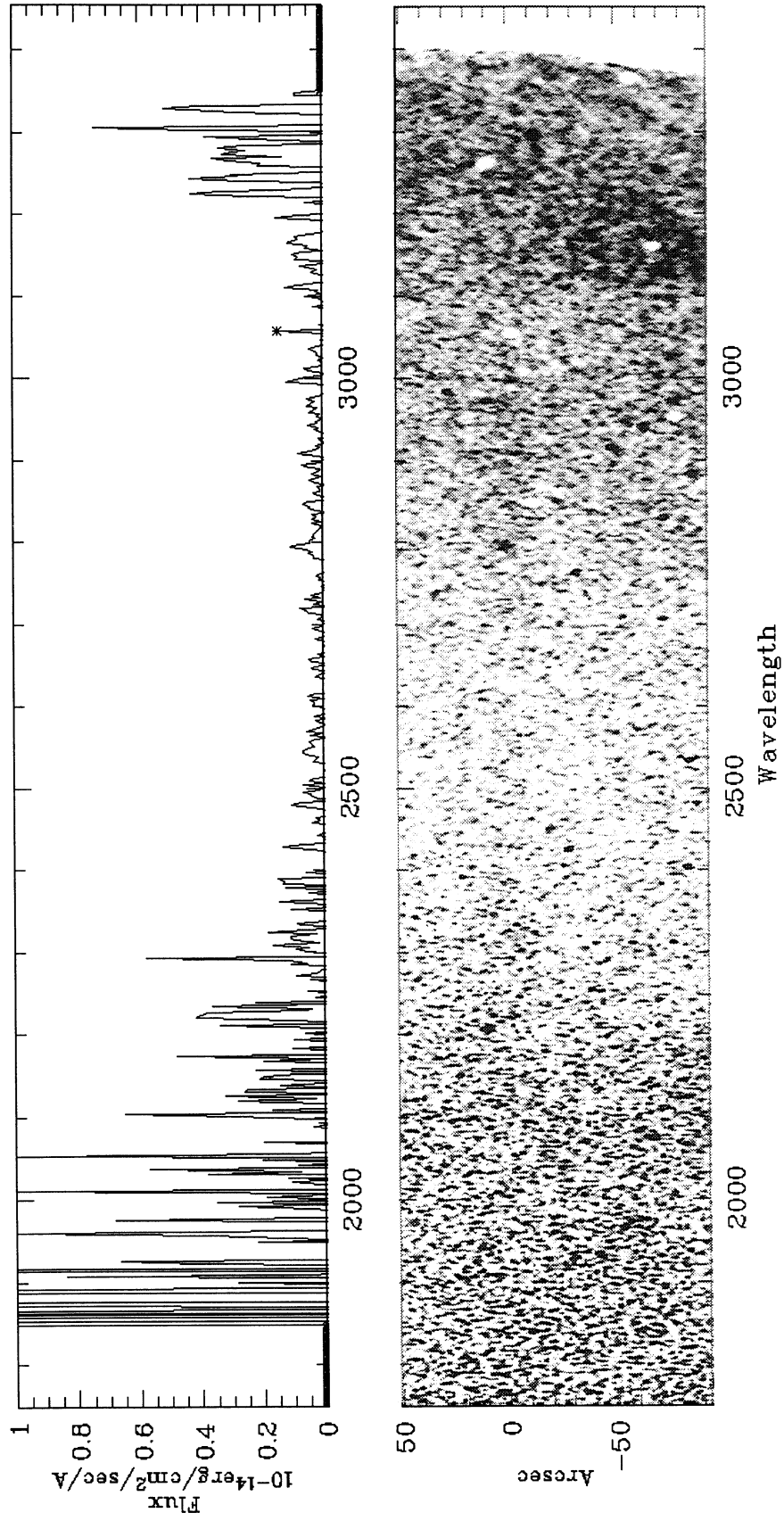
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWP LWP	09797 12391	$(7.0 \pm 1.1)\text{E-15}$			

LWP09797



LWP12391



HH 29

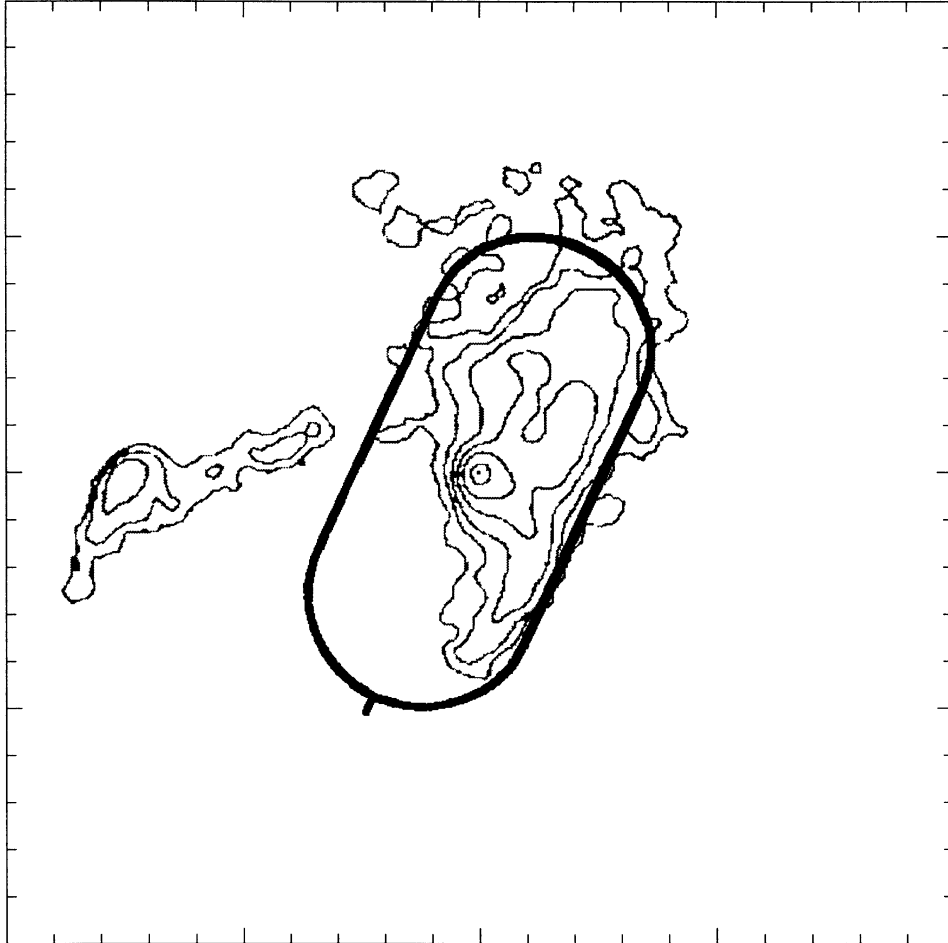
Alternative names :	LP 415-171	
Type :	HEO	[27]
Coordinates :	$\alpha_{1950} = 4^h 28^m 33^s.2$ $\delta_{1950} = 18^\circ 00' 00''$	
Proper motion :	$\mu_\alpha \cos \delta = -12''.4 \pm 1''.0 \text{ cen}^{-1}$ $\mu_\delta = -19''.0 \pm 1''.0 \text{ cen}^{-1}$	
Radial velocity :	$-39 \pm 2 \text{ km s}^{-1}$	[40]
Suspected source :	L1551 IRS 5	
Region :	L1551	
Distance :	140 pc	
Characteristic size :	$10'' \times 20''$	
Asociated with molecular outflow :	Yes	[36]
P.A. of jet (CO outflow):	$\sim 225^\circ$	[36]

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWP	08959	L	L	23-08-86	340.0		153.53
2	LWP	14267	L	L	17-10-88	367.0		157.90
3	LWP	18777	L	L	13-09-90	360.0		154.87
4	LWP	19742	L	L	12-02-91	311.0		333.03
5	SWP	27471	L	L	07-01-86	580.0	C=170,B=132	329.38
6	SWP	28962	L	L	22-08-86	304.0		153.47
7	SWP	34493	L	L	18-10-88	840.0	C=169,B=121	158.03
8	SWP	35809	L	L	18-03-89	378.0		335.36
9	SWP	39622	L	L	12-09-90	384.0		154.80
10	SWP	40856	L	L	11-02-91	785.0	C=130,B=110	332.96
11	SWP	48808	L	L	29-09-93	655.0	C=191,B=116	156.05
12	SWP	50045	L	L	17-02-94	754.9	C=210,B=170	333.40

HH 29

CENTER = HH29A PA = 155°
 $\alpha_C = 4^h 28^m 33^s.3$ $\delta_C = 17^\circ 59' 56''.0$

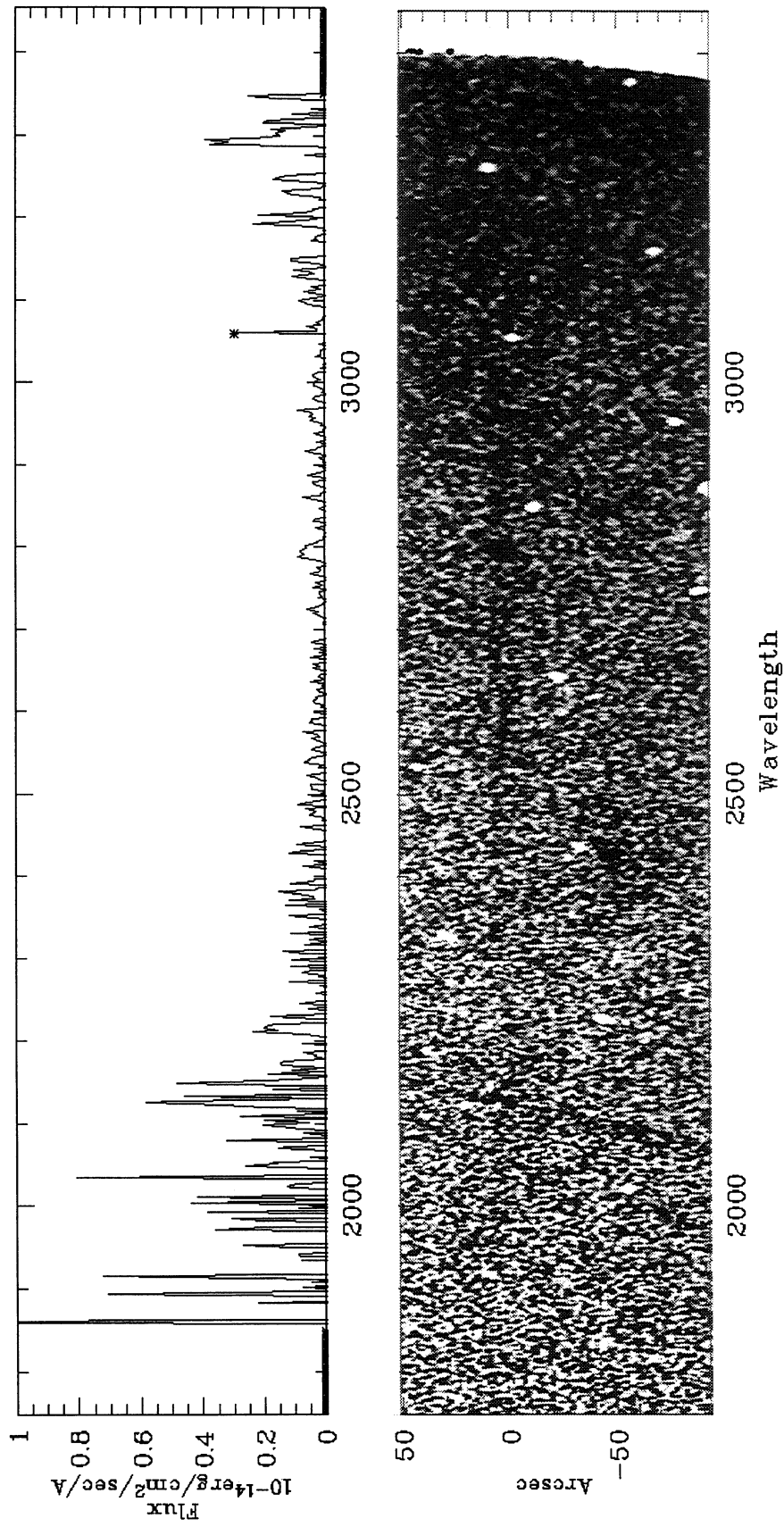


From the H α data in Fridlund *et al.* (1993)

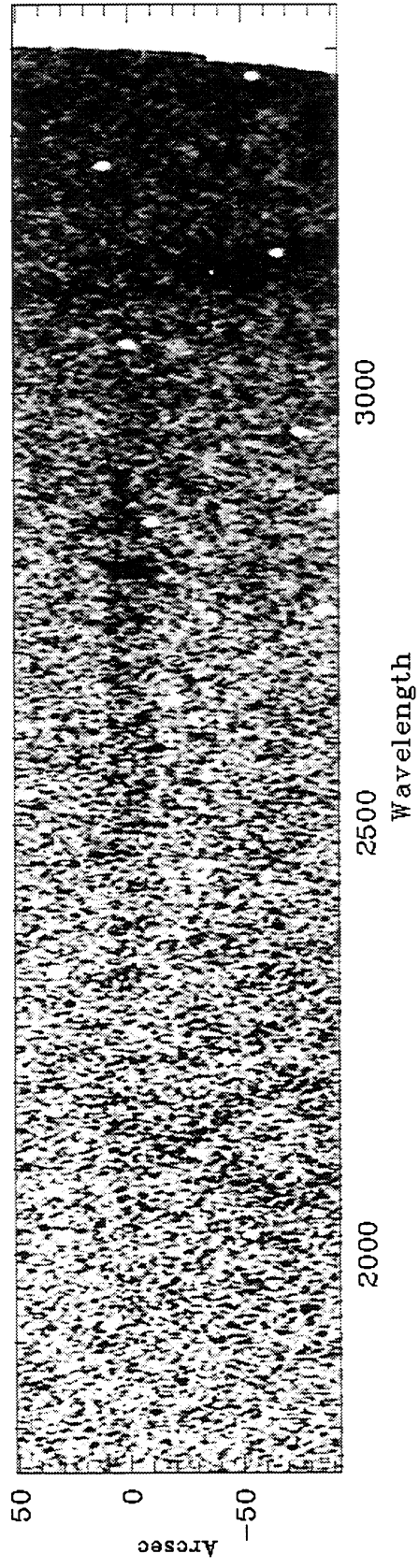
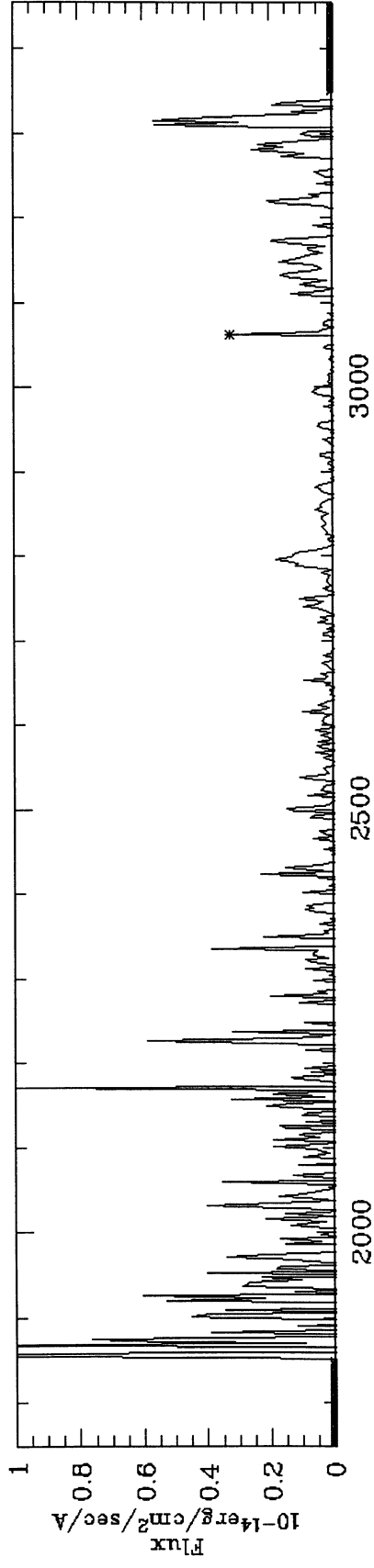
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWP	08959				
LWP	14267	(1.0 \pm 0.2)E-14			
LWP	18777	(6.4 \pm 2.2)E-15			
SWP	28962				
SWP	34493				
SWP	39622				
SWP	48808				

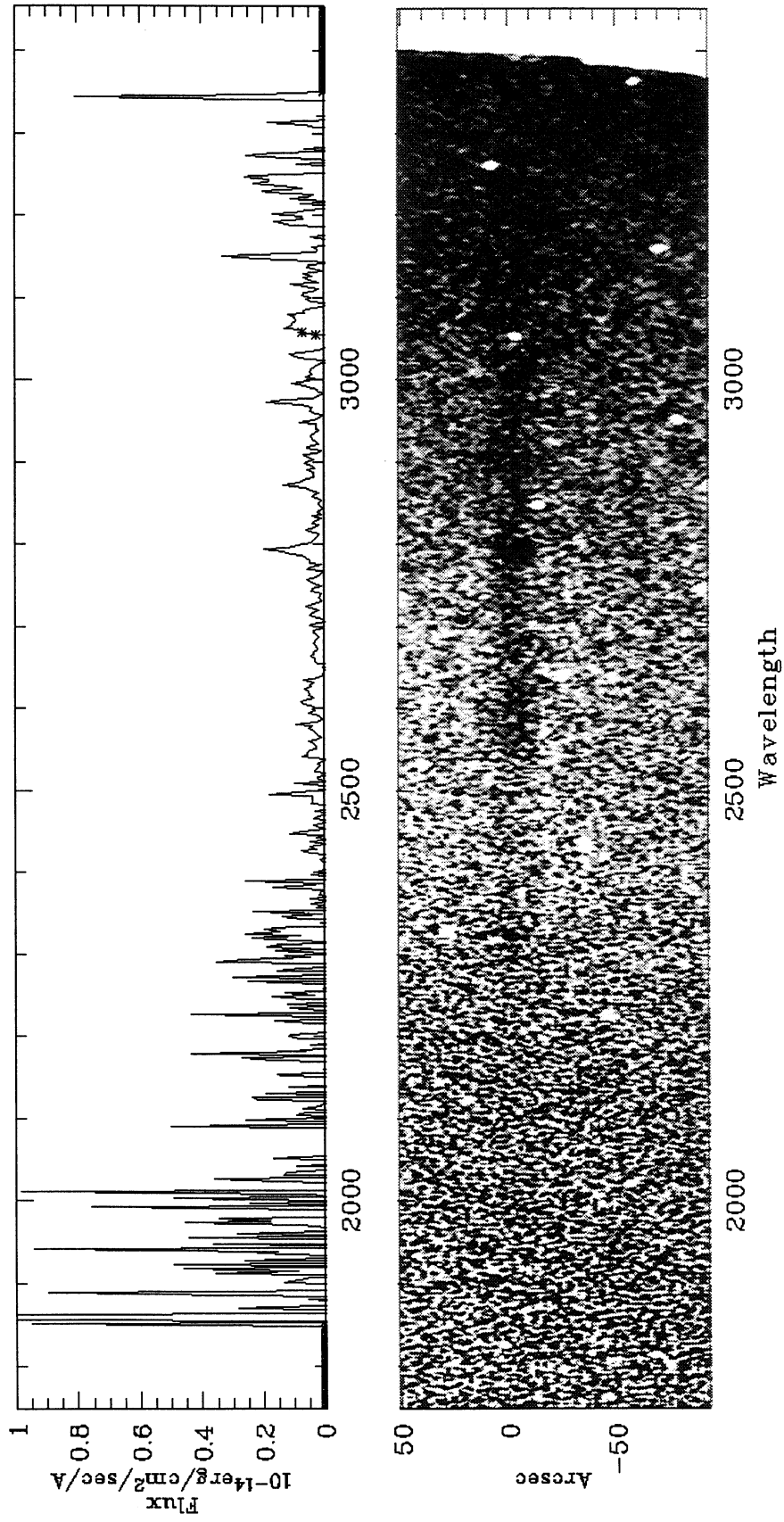
LWP08959



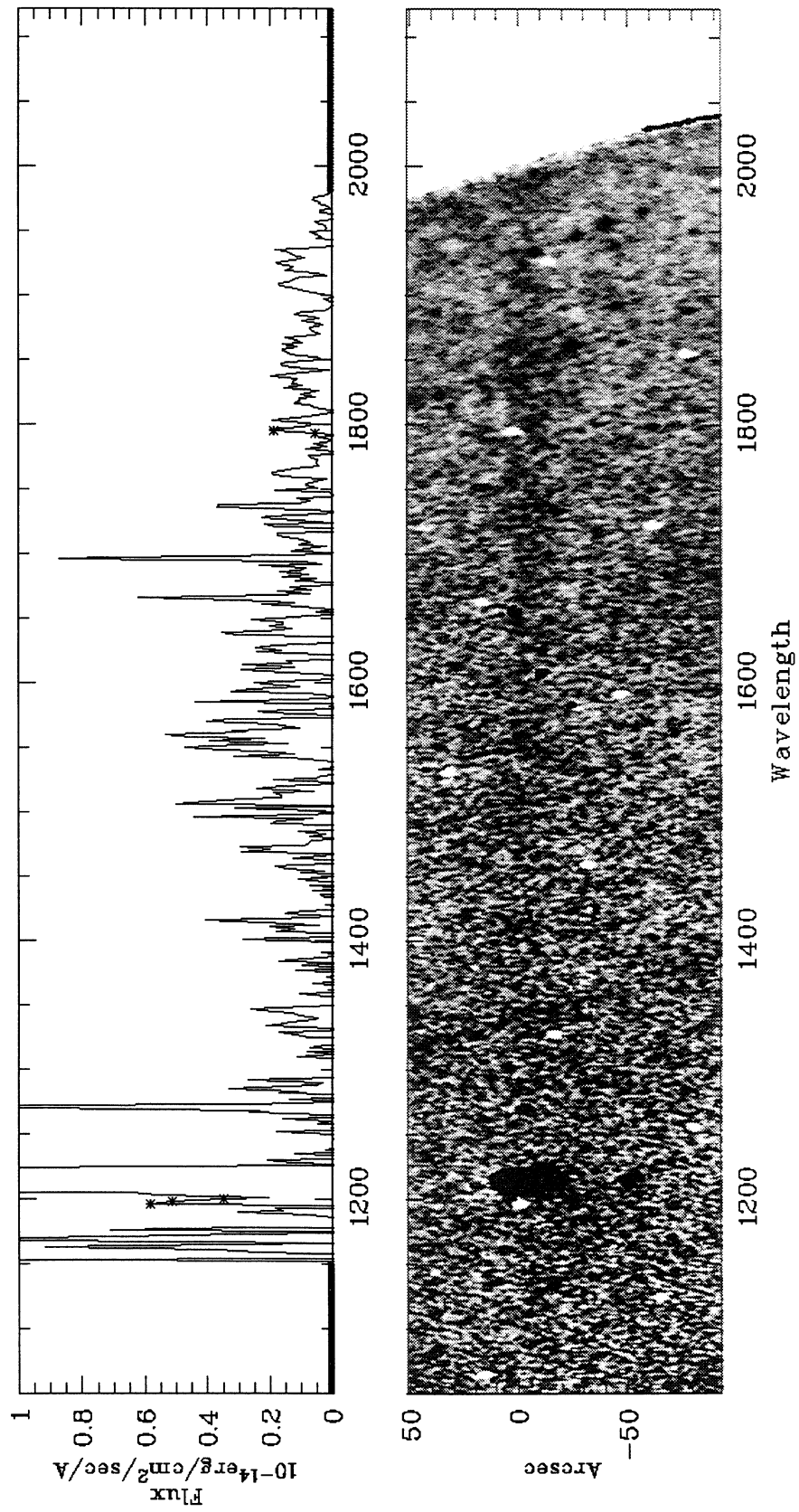
LWP14267



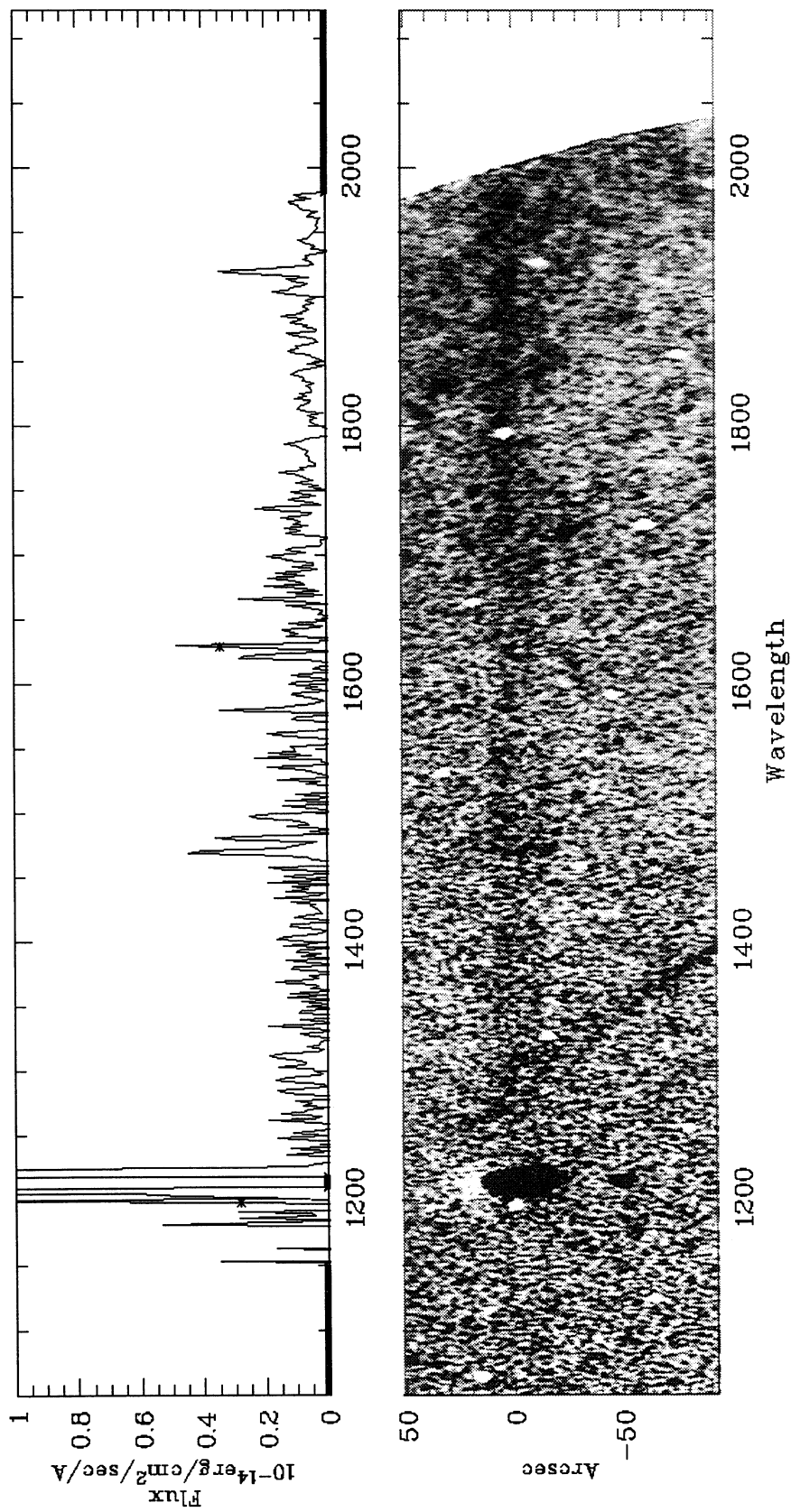
LWP18777



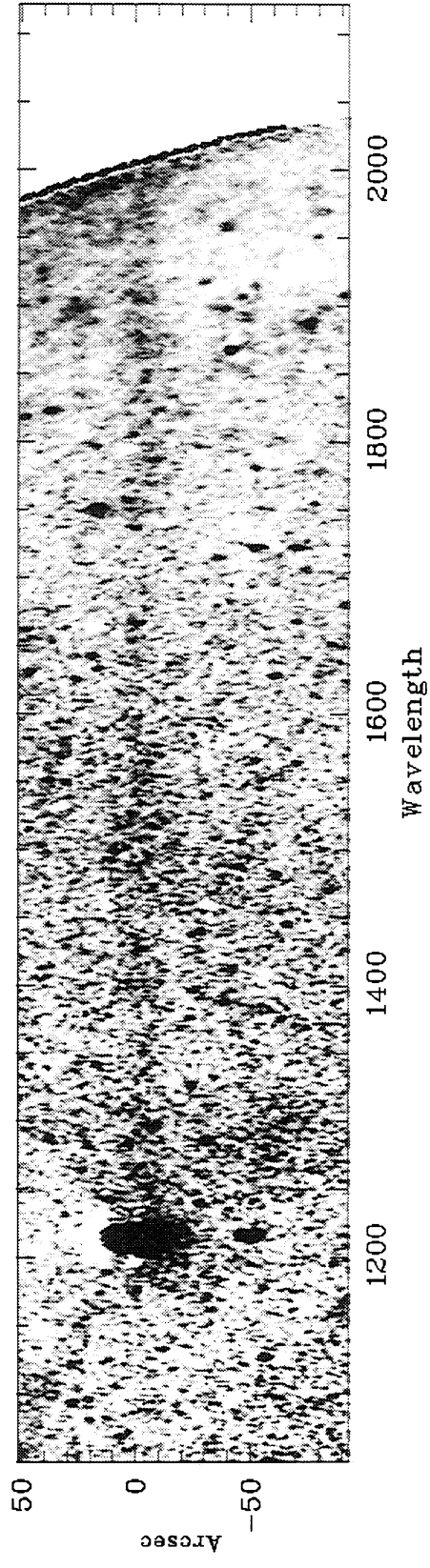
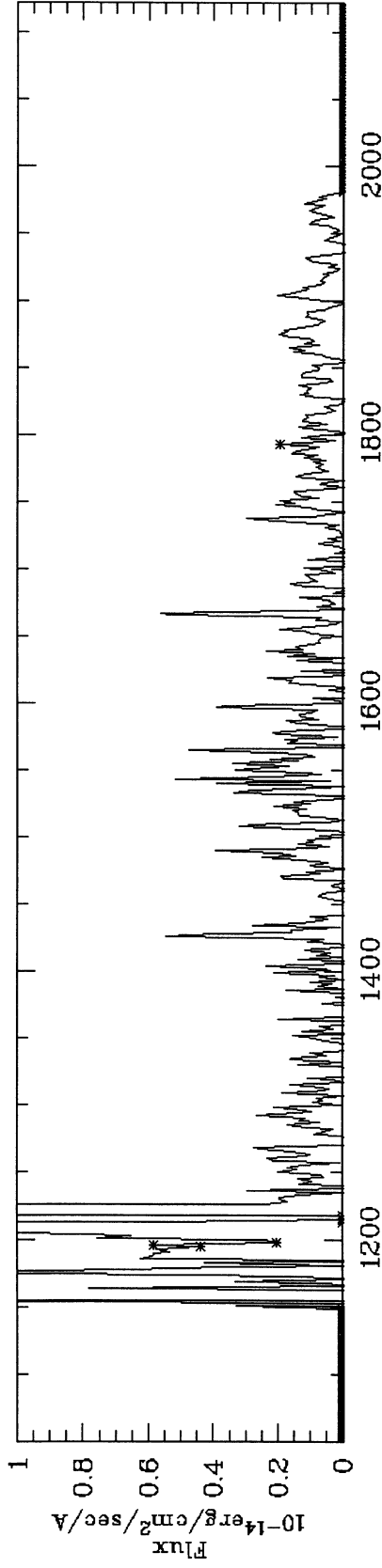
SWP28962



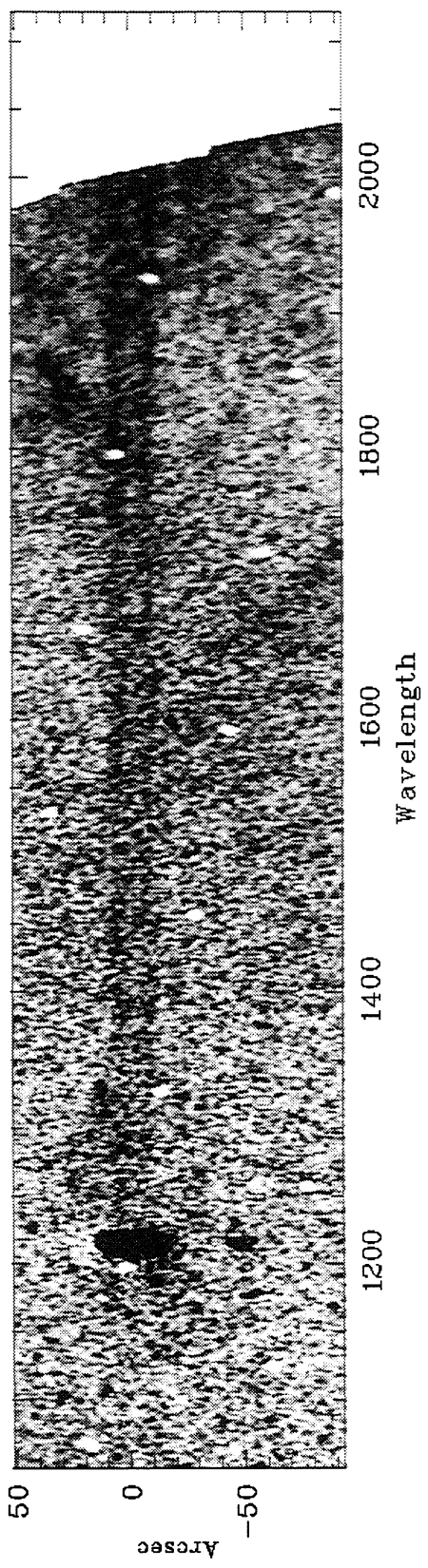
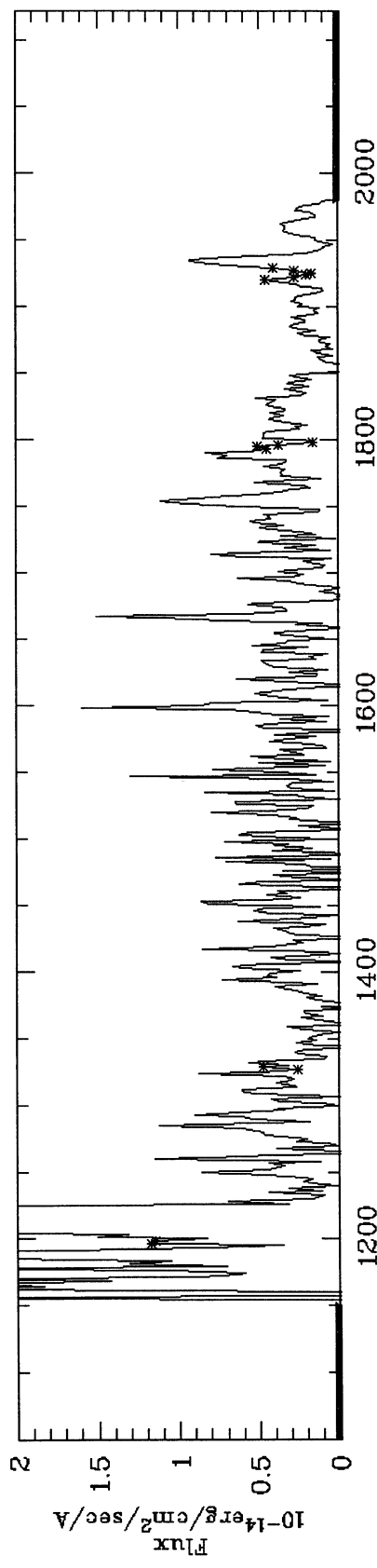
SWP34493



SWP39622

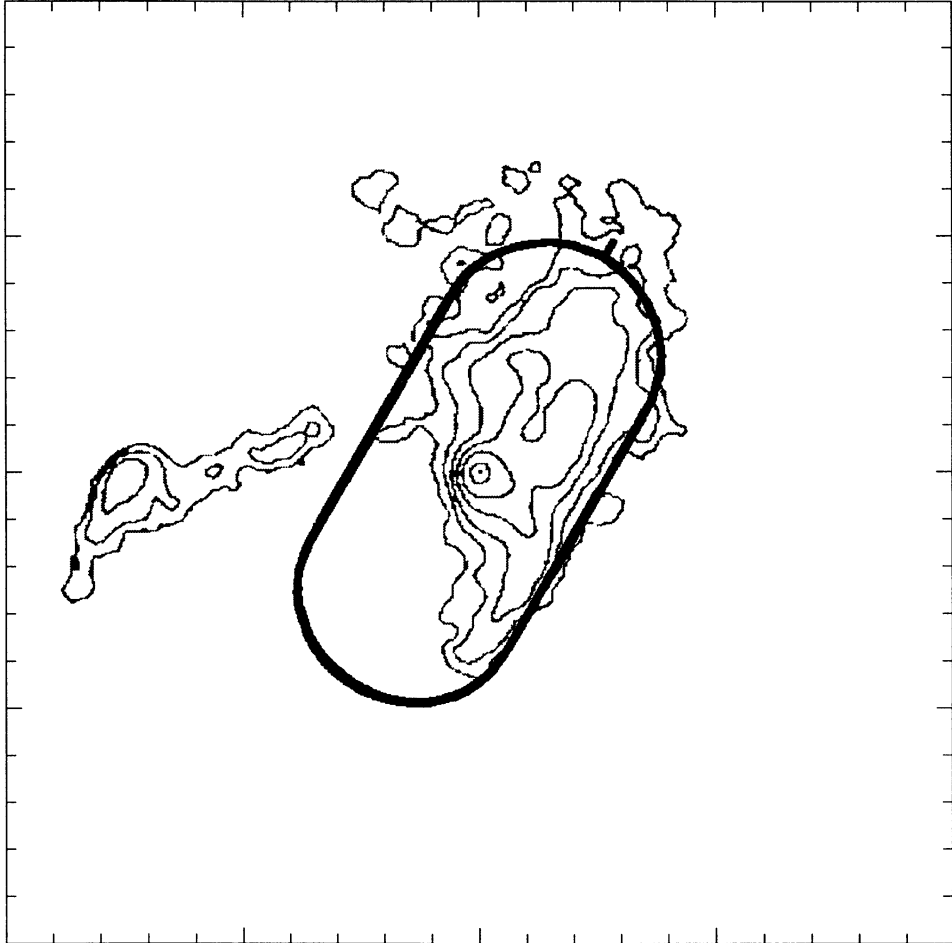


SWP48808



HH 29

CENTER = HH29A PA = 330°
 $\alpha_C = 4^h 28^m 33.3$ $\delta_C = 17^\circ 59' 56''.0$

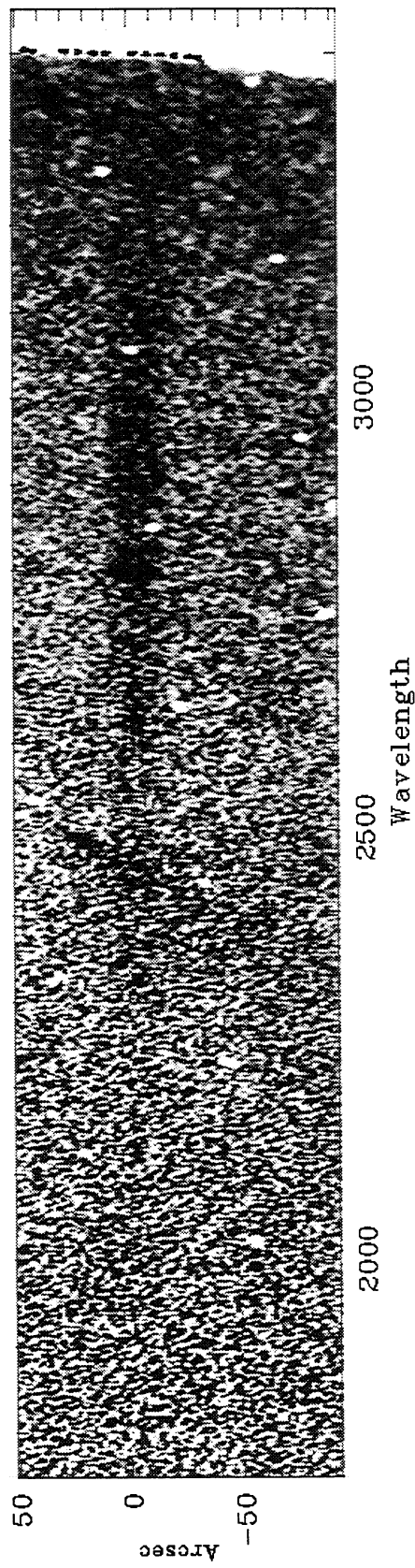
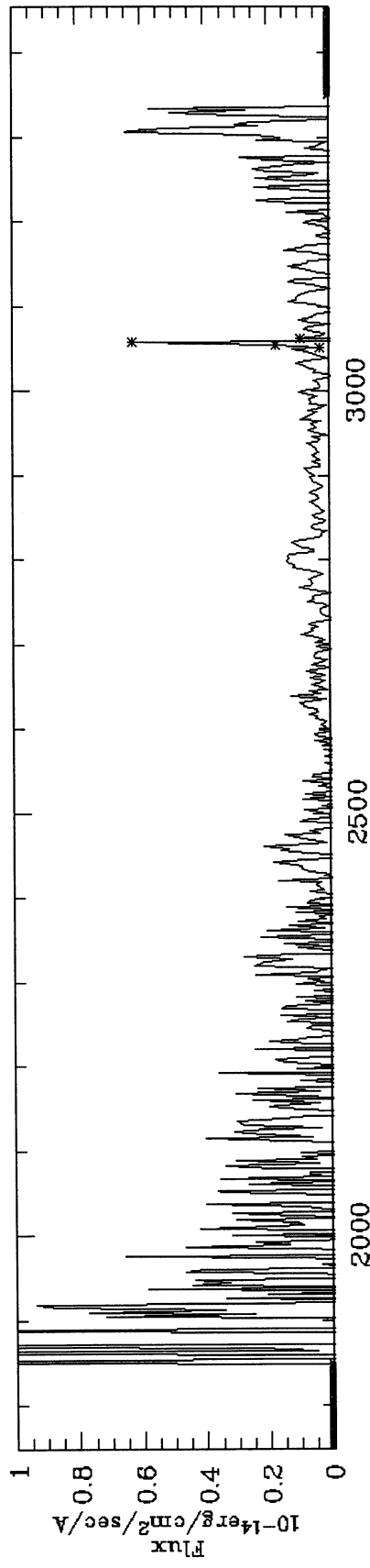


From the H α data in Fridlund *et al.* (1993)

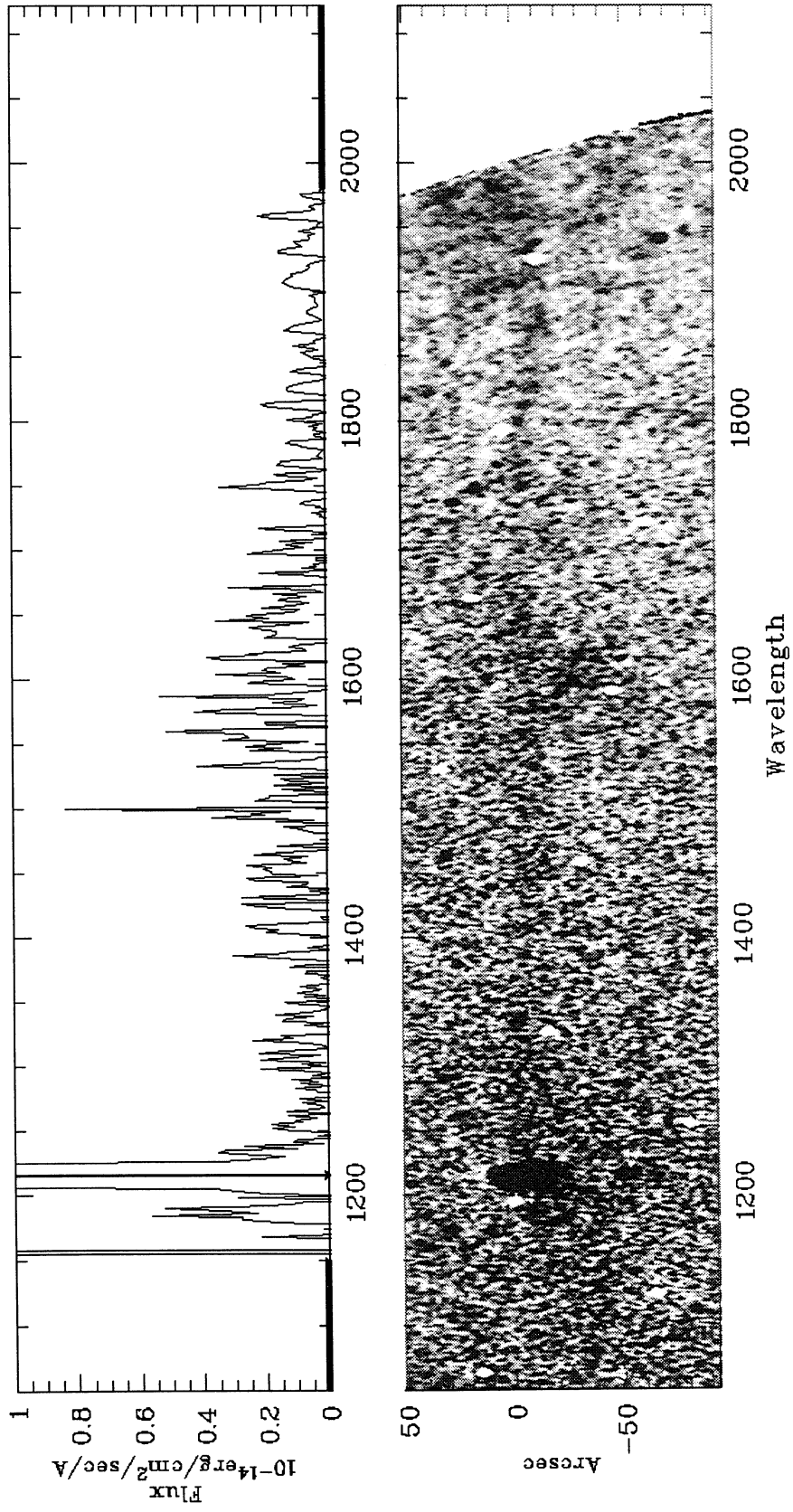
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWP	19742				
SWP	27471				
SWP	35809				
SWP	40856				
SWP	50045				

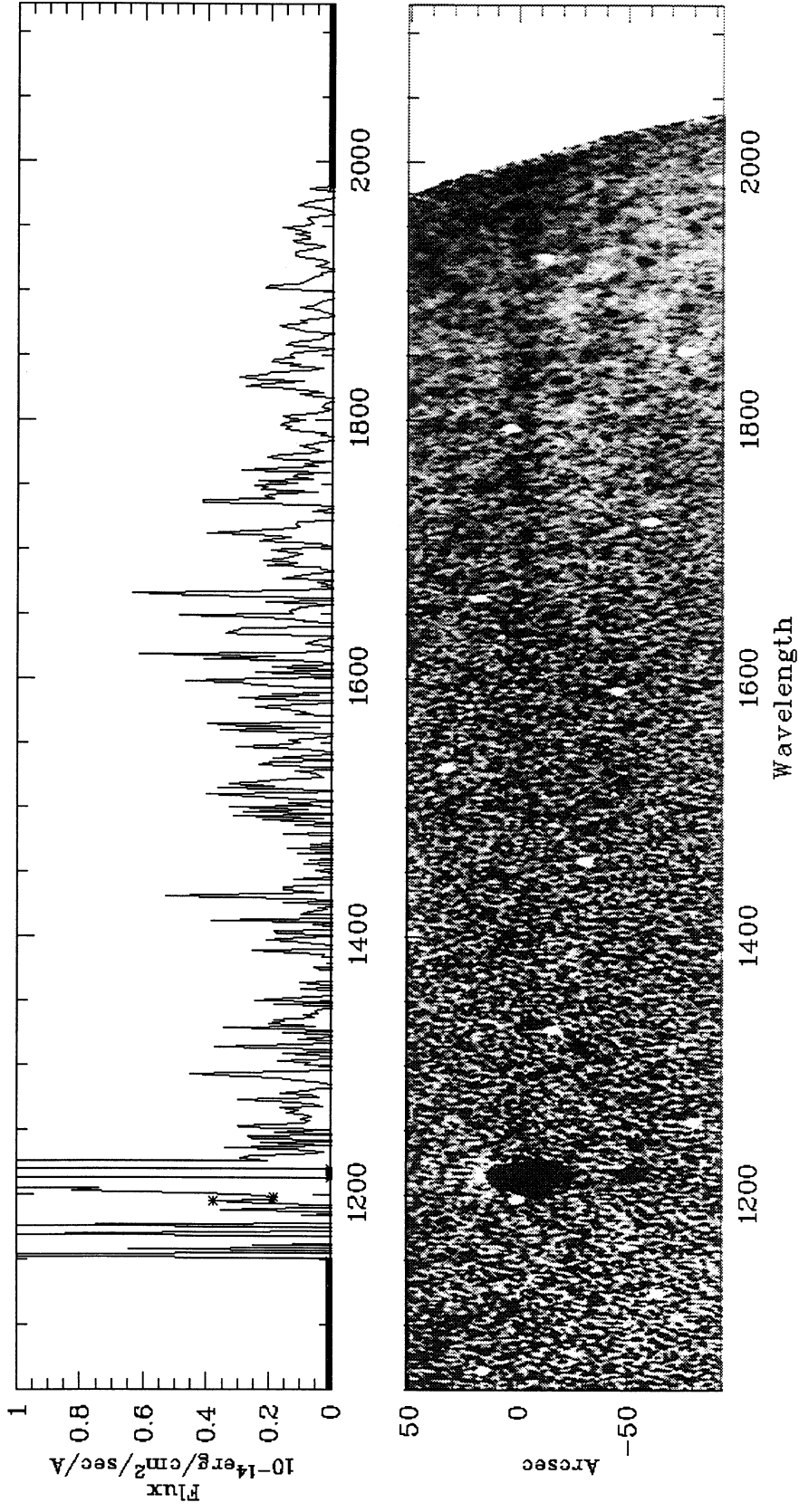
LWP19742



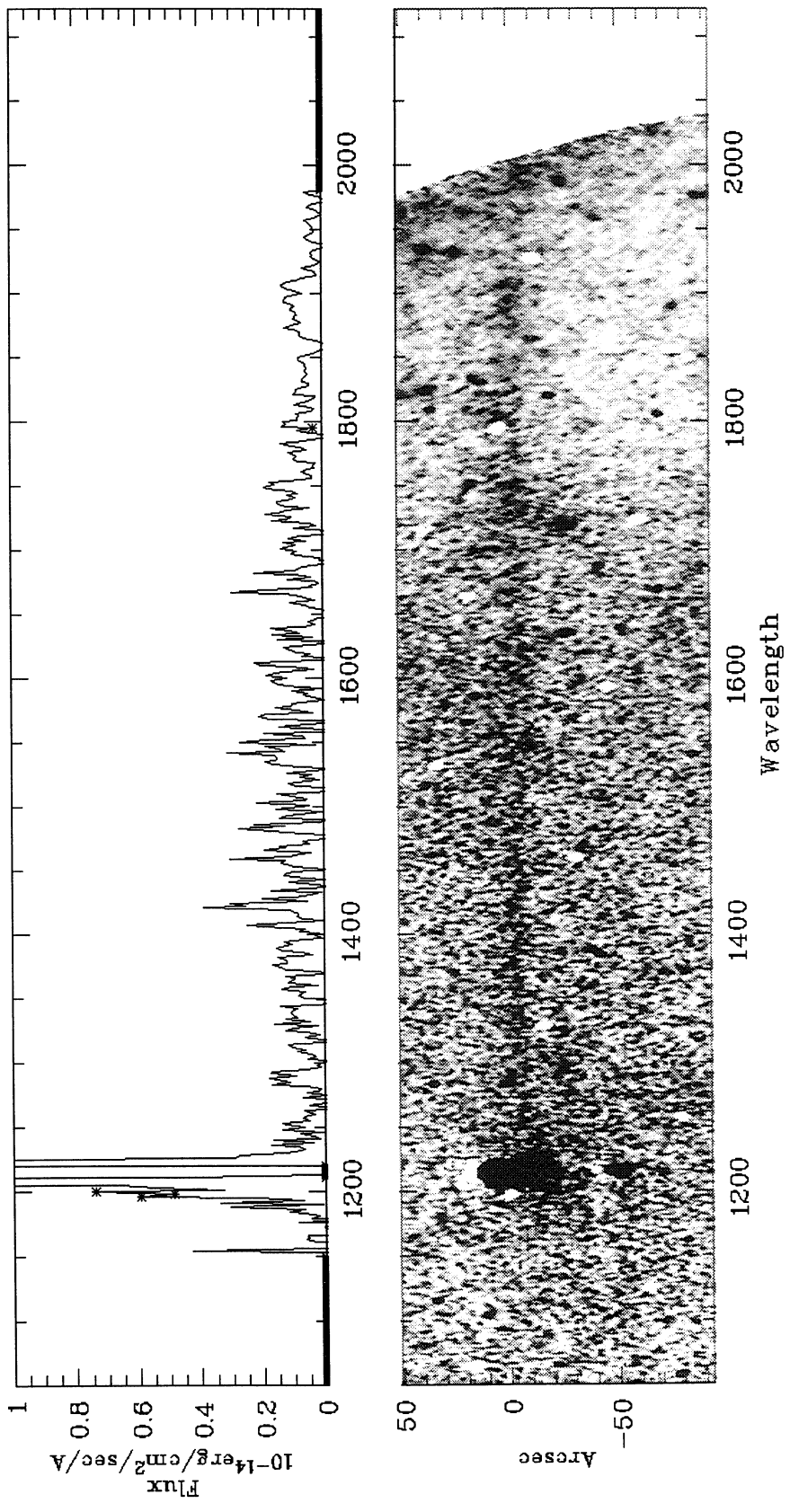
SWP27471



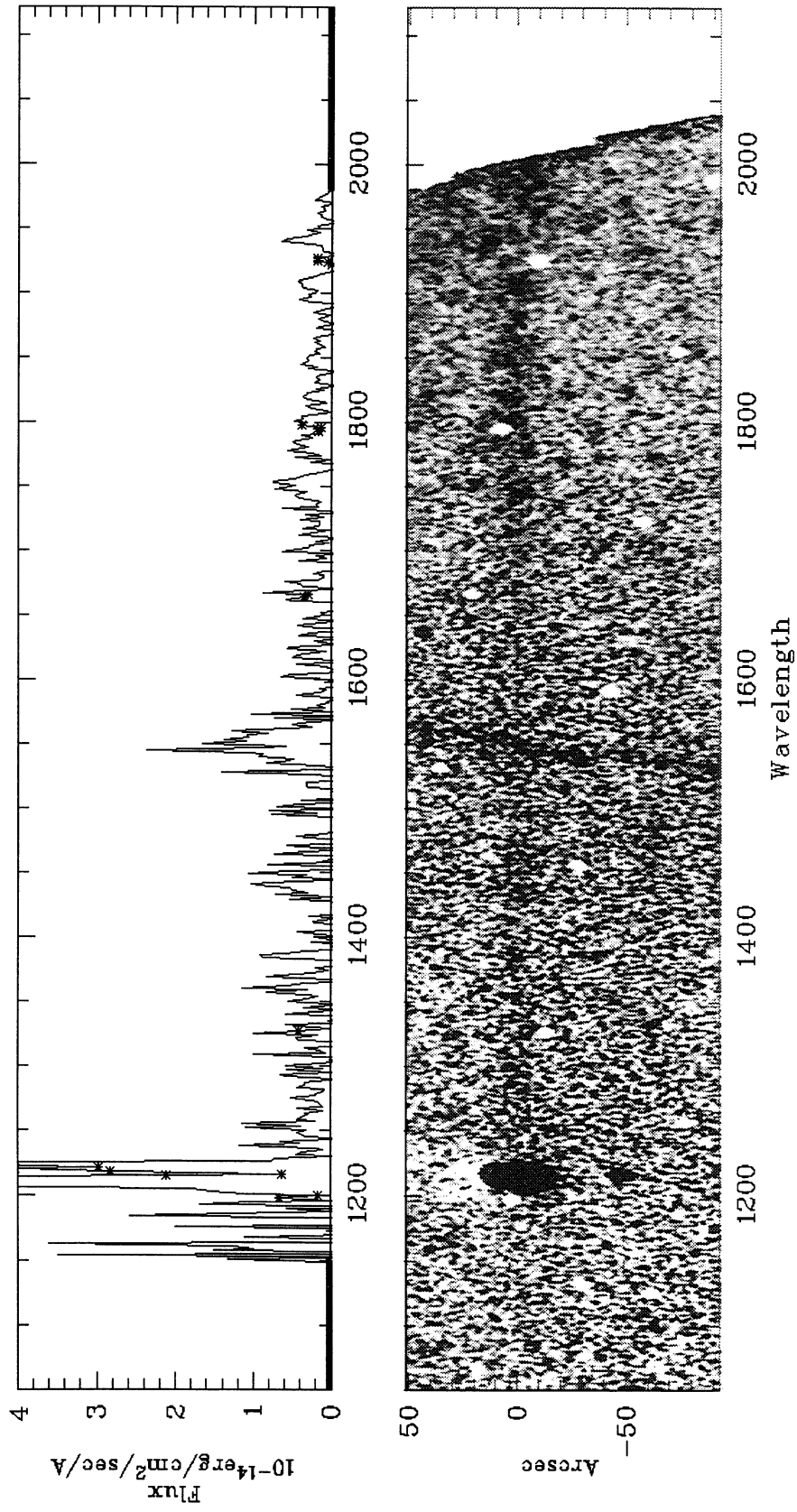
SWP35809



SWP40856



SWP50045



HH 30

Alternative names :		
Type :	LEO	[4]
Coordinates :		
	$\alpha_{1950} = 4^h 28^m 43^s.6$	
	$\delta_{1950} = 18^\circ 06' 03''$	
Proper motion :		
	$\mu_\alpha \cos \delta = 1''.6 \pm 0''.6 \text{ cen}^{-1}$	[23]
	$\mu_\delta = -2''.1 \pm 0''.9 \text{ cen}^{-1}$	
Radial velocity (Knot A) :	$+77 \pm 24$	[5]
Suspected source :	HH30 IRS	
Region :	L1551	
Distance :	140 pc	
Characteristic size (Knots A-C) :	$20'' \times 3''$	
Asociated with molecular outflow :		
P.A. of jet :	$\sim 30^\circ$	

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWP	04529	L	L	08-10-84	25.0	B=36	156.82
2	SWP	24144	L	L	07-10-84	435.0	E=101,C=100,B=85	156.75
3	SWP	24149	L	L	08-10-84	444.0	E=126,C=115,B=70	156.82
4	SWP	24150	L	L	08-10-84	345.0	C=110,B=73	156.85

HH 203

Alternative names :	M42-HH3	
Type :	HEO	[30]
Coordinates :	$\alpha_{1950} = 5^h 32^m 54.8$ $\delta_{1950} = -5^\circ 26' 51''$	
Proper motion :	$\mu_\alpha \cos \delta =$ $\mu_\delta =$	
Radial velocity :	$\sim -55 \text{ km s}^{-1}$	[41]
Suspected source :		
Region :	M 42	
Distance :	470 pc	
Characteristic size :	$5'' \times 10''$	
Associated with molecular outflow :	Yes	[1]
P.A. of jet :		

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWP	19334	L	L	01-12-90	50.0	C=4X,B=40	223.64
2	LWP	19334	L	S	01-12-90	50.0		223.64
3	LWP	23946	L	L	16-09-92	10.0	C=3X,B=33	160.17
4	LWP	23946	L	S	16-09-92	10.0		160.17
5	LWP	23947	L	S	16-09-92	75.0	C=241,B=50	160.22
6	LWP	23947	L	L	16-09-92	75.0		160.22
7	LWP	24798	L	S	27-01-93	50.0	C=197,B=47	314.05
8	LWP	24798	L	L	27-01-93	50.0		314.05
9	LWP	24804	L	S	28-01-93	60.0	C=217,B=50	314.83
10	LWP	24804	L	L	28-01-93	60.0		314.83
11	LWP	24805	L	S	28-01-93	50.0	C=173,B=44	314.91
12	LWP	24805	L	L	28-01-93	50.0		314.91
13	LWP	26759	L	S	15-11-93	60.0	E=163,C=229,B=45	200.33
14	LWP	26759	L	L	15-11-93	60.0		200.33
15	LWP	26760	L	S	16-11-93	50.0	E=130,C=163,B=40	200.48
16	LWP	26760	L	L	16-11-93	50.0		200.48
17	SWP	45653	L	L	16-09-92	53.0	C=10X,B=44	160.17
18	SWP	45653	L	S	16-09-92	53.0		160.17
19	SWP	45654	L	S	16-09-92	45.0	C=217,B=26	160.22
20	SWP	45654	L	L	16-09-92	45.0		160.22

21	SWP	46831	L	S	27-01-93	90.0	C=2X,B=50	314.05
22	SWP	46831	L	L	27-01-93	90.0		314.05
23	SWP	46837	L	S	28-01-93	80.0	C=2X,B=46	314.83
24	SWP	46837	L	L	28-01-93	80.0		314.83
25	SWP	46840	L	S	28-01-93	50.0	C=161,B=33	314.91
26	SWP	46840	L	L	28-01-93	50.0		314.91
27	SWP	49235	L	S	15-11-93	90.0	C=2X,B=38	200.33
28	SWP	49235	L	L	15-11-93	90.0		200.33
29	SWP	49236	L	S	15-11-93	60.0	E=141,C=220,B=25	200.48
30	SWP	49236	L	L	15-11-93	60.0		200.48

HH 204

Alternative names :	M42-HH4	
Type :	HEO	[30]
Coordinates :	$\alpha_{1950} = 5^h 32^m 55^s.2$ $\delta_{1950} = -5^\circ 27' 06''$	
Proper motion :	[6]	
	$\mu_\alpha \cos \delta = 2''.4 \pm 0''.7 \text{ cen}^{-1}$ $\mu_\delta = 1''.7 \pm 0''.3 \text{ cen}^{-1}$	
Radial velocity :	$\sim -20 \text{ km s}^{-1}$	[41]
Suspected source :		
Region :	M 42	
Distance :	470 pc	
Characteristic size :	$5'' \times 5''$	
Associated with molecular outflow :	Yes	[1]
P.A. of jet :		

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWP	23948	L	L	16-09-92	20.0	C=1.5X,B=38	160.26
2	LWP	23948	L	S	16-09-92	20.0		160.26
3	LWP	24799	L	S	27-01-93	60.0	C=151,B=47	314.14
4	LWP	24799	L	L	27-01-93	60.0		314.14
5	SWP	45655	L	S	16-09-92	35.0	C=6X,B=26	160.26
6	SWP	45655	L	L	16-09-92	35.0		160.26
7	SWP	46832	L	S	27-01-93	75.0	C=212,B=38	314.14
8	SWP	46832	L	L	27-01-93	75.0		314.14
9	SWP	46838	L	S	28-01-93	60.0	C=213,B=39	314.91
10	SWP	46838	L	L	28-01-93	60.0		314.91

HH 34

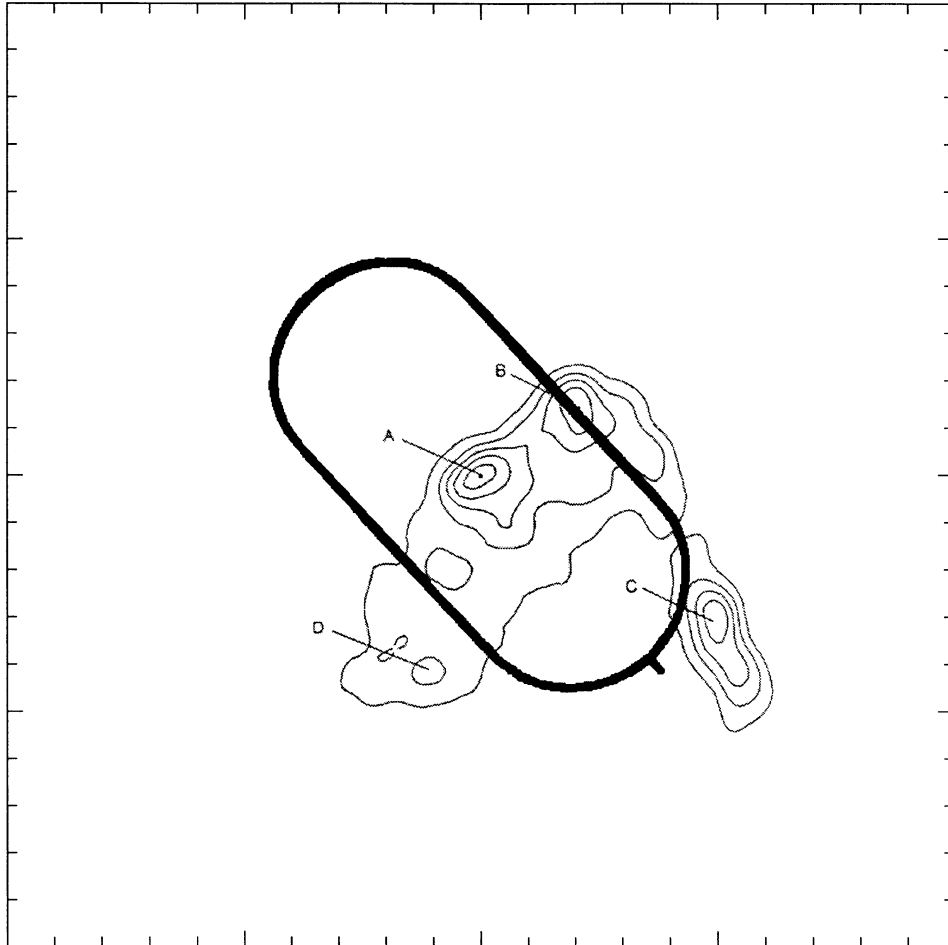
Alternative names :		
Type :		Undetermined
Coordinates :		
	$\alpha_{1950} =$	$5^h 33^m 03^s.0$
	$\delta_{1950} =$	$-6^\circ 28' 53''$
Proper motion (Knot NA) :		[13]
	$\mu_\alpha \cos \delta =$	$-15''.2 \pm 7''.2 \text{ cen}^{-1}$
	$\mu_\delta =$	$10''.2 \pm 4''.8 \text{ cen}^{-1}$
Radial velocity :		$+192 \text{ km s}^{-1}$ [9]
Suspected source :		HH 34 IRS
Region :		L1641
Distance :		470 pc
Characteristic size :		$20'' \times 20''$
Asociated with molecular outflow :		No [12]
P.A. of jet :		$\sim 166^\circ$

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWP	17136	L	L	12-01-90	420.0	B=90	298.45
2	SWP	37708	L	L	30-11-89	365.0	C=110,B=72	222.68
3	SWP	37992	L	L	11-01-90	780.0	C=140,B=105	297.26
4	SWP	38217	L	L	21-02-90	375.0	C=100,B=77	329.55
5	SWP	40240	L	L	30-11-90	380.0	C=115,B=60	222.24
6	SWP	40244	L	L	01-12-90	270.0	C=75,B=45	223.86

HH 34

CENTER = HH34NA PA = 223°
 $\alpha_C = 5^h 33^m 01^s.92$ $\delta_C = -6^\circ 27' 04''.1$

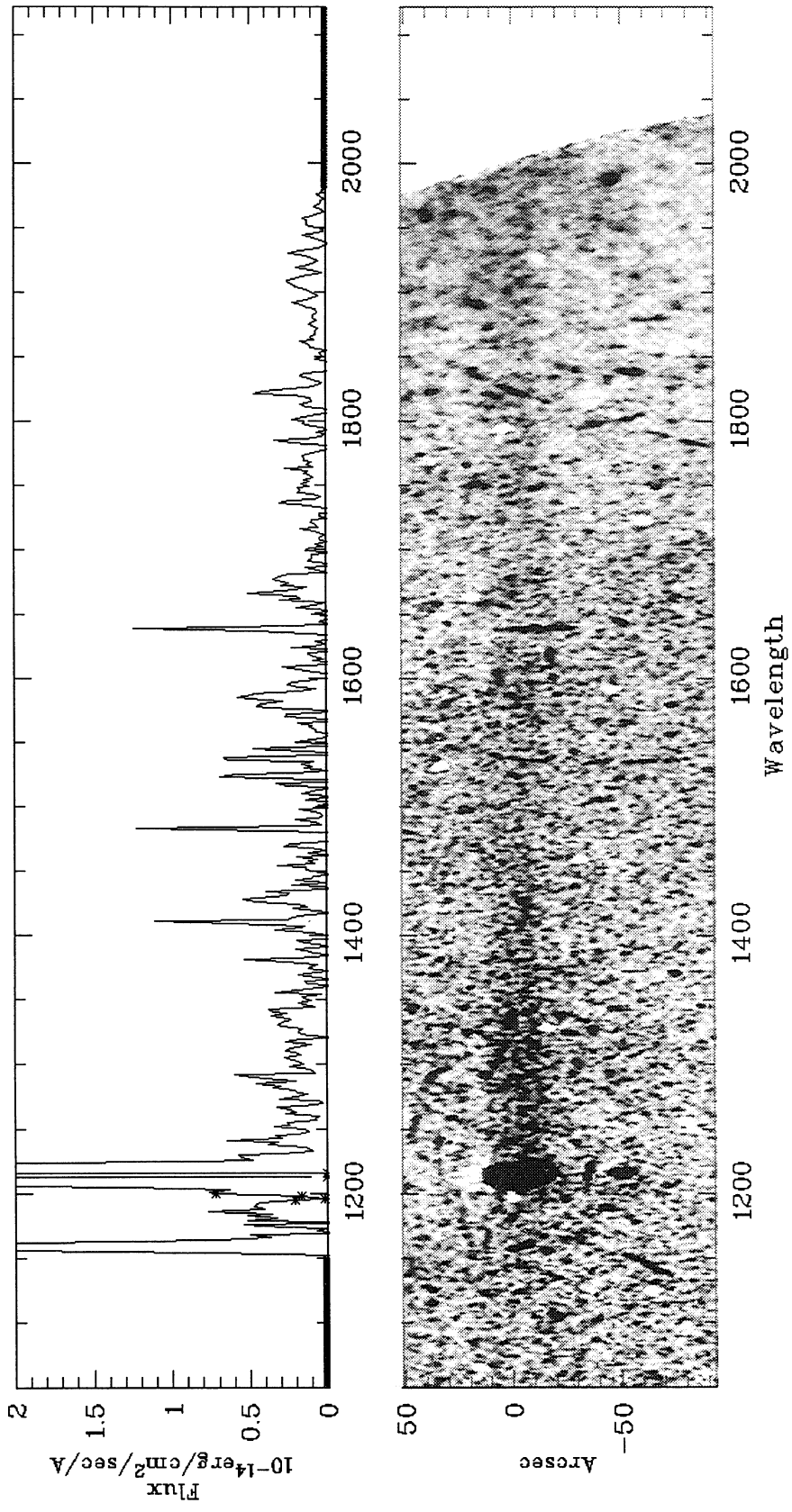


From the [S II] data in Eislöffel *et al.* (1992)

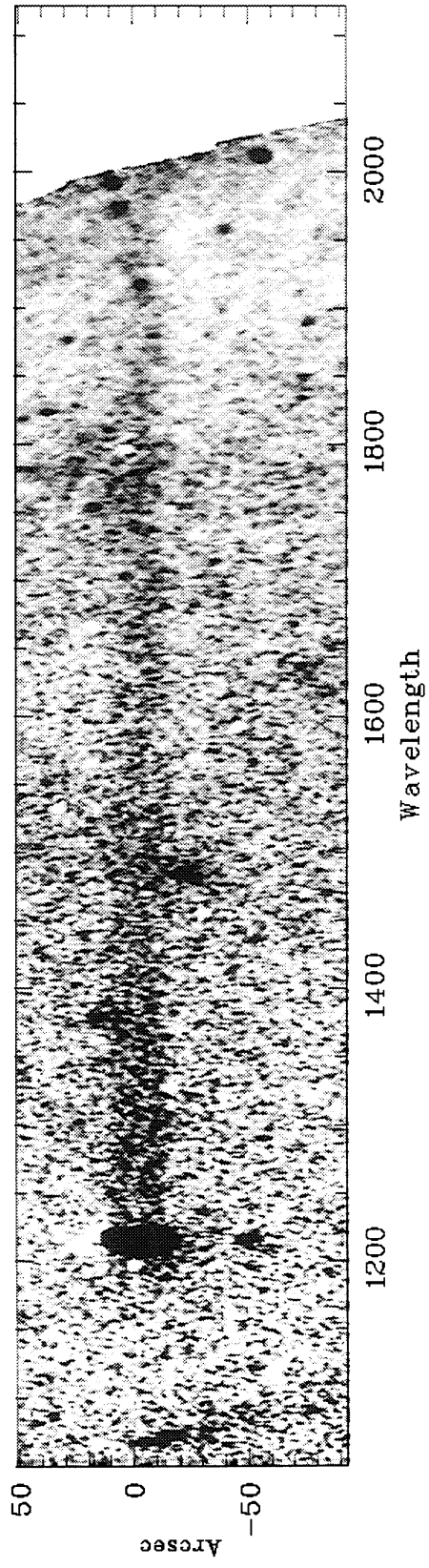
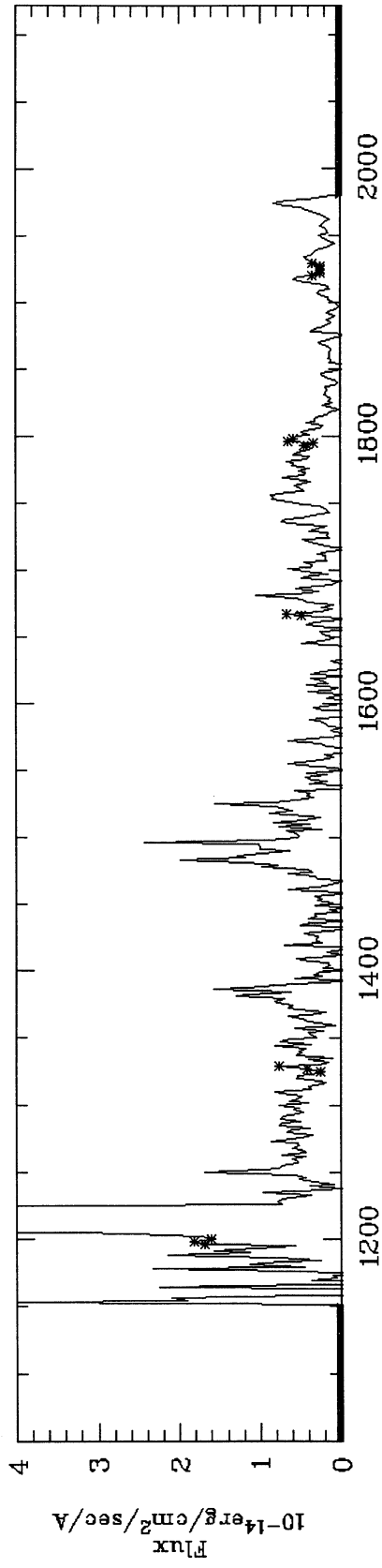
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	37708				
SWP	40240				
SWP	40244				

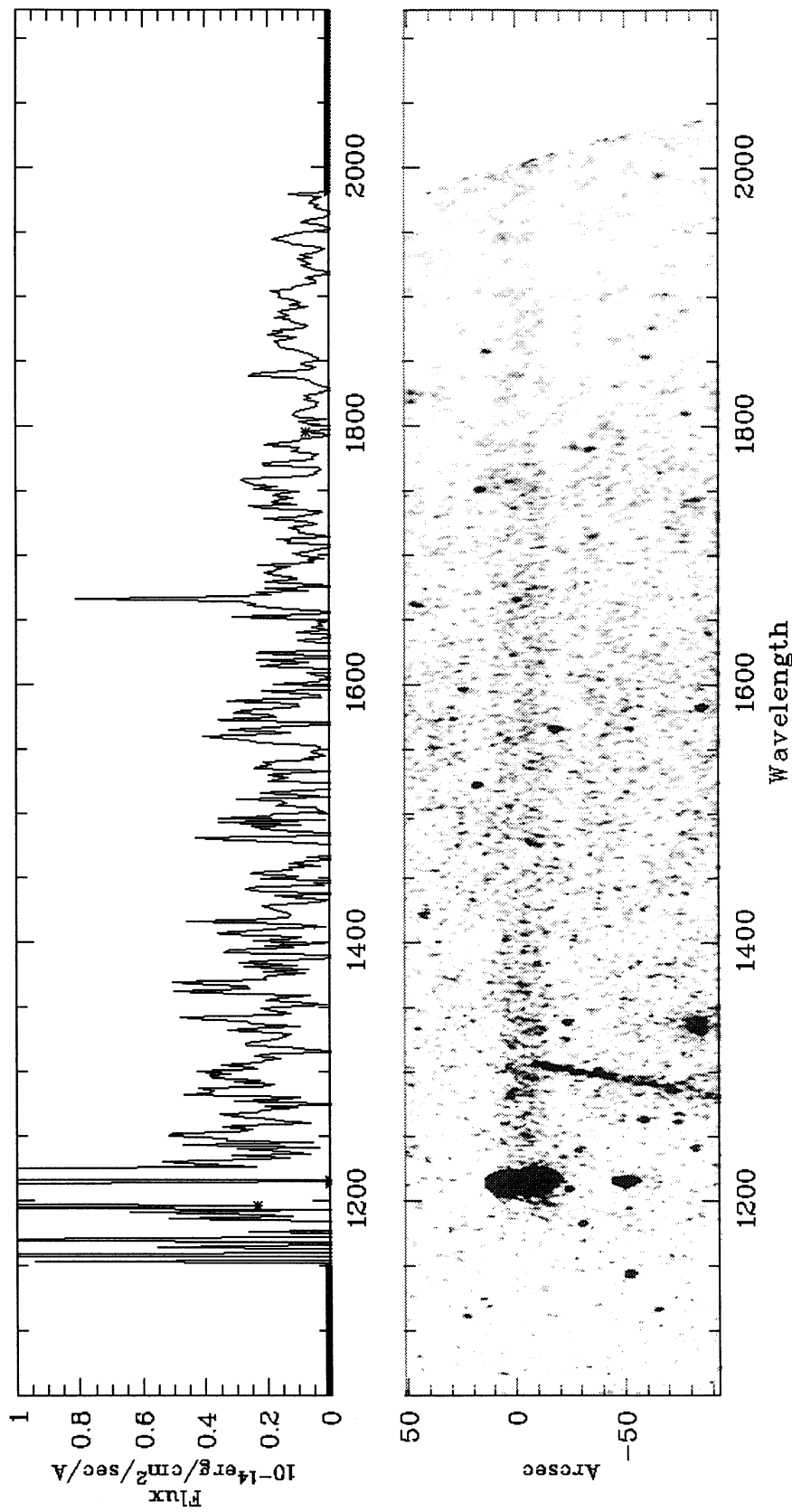
SWP37708



SWP40240



SWP40244



HH 1

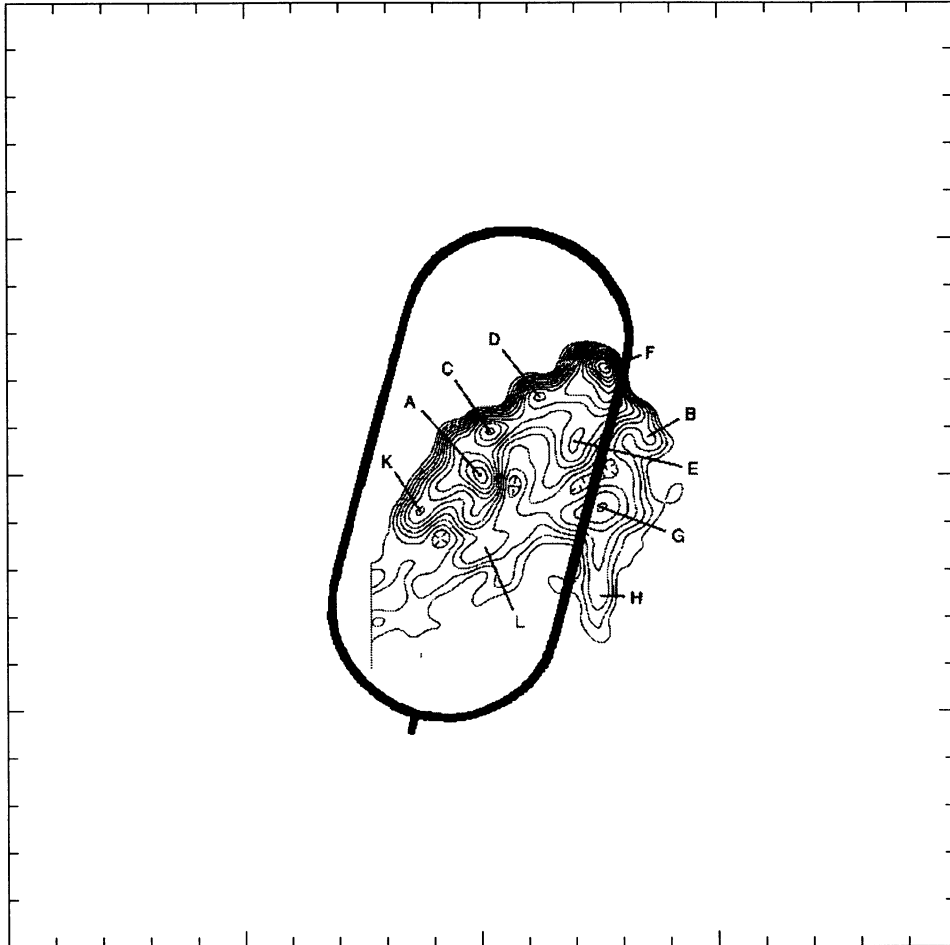
Alternative names :	Haro 11a	
Type :	HEO	[2]
Coordinates :	$\alpha_{1950} = 5^h 33^m 54^s.5$ $\delta_{1950} = -6^\circ 46' 57''$	
Proper motion (knot F) :	$\mu_\alpha \cos \delta = -12''.0 \pm 0''.9 \text{ cen}^{-1}$ $\mu_\delta = 13''.1 \pm 1''.0 \text{ cen}^{-1}$	[15]
Radial velocity :	$< 20 \text{ km s}^{-1}$	[39]
Suspected source :	HH1/2 VLA1	
Region :	L1641	
Distance :	470 pc	
Characteristic size :	$15'' \times 15''$	
Associated with molecular outflow :	No	[12]
P.A. of jet :	$\sim 329^\circ$	

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWR	07116	L	L	07-03-80	120.0	B=40	337.11
2	LWR	07150	L	L	10-03-80	120.0	E=116,C=100,B=52	338.70
3	LWR	08912	L	L	29-09-80	134.0	E=109,C=95,B=48	166.92
4	LWR	12905	L	L	30-03-82	125.0	B=38	348.43
5	SWP	06630	L	L	25-09-79	360.0		164.59
6	SWP	08188	L	L	07-03-80	270.0	E=255,C=108,B=87	337.11
7	SWP	08209	L	L	10-03-80	30.0	E=58,B=15	338.70
8	SWP	16668	L	L	30-03-82	270.0	C=50,B=45	348.43
9	SWP	24914	L	L	16-01-85	729.0	E=193,C=150,B=115	302.54
10	SWP	24914	L	S	16-01-85	729.0		302.54
11	SWP	26950	L	L	18-10-85	281.0	E=111,C=133,B=90	177.70
12	SWP	27443	L	L	03-01-86	290.0	E=155,C=158,B=118	285.98
13	SWP	40657	L	L	22-01-91	633.0	E=156,C=125,B=84	308.30
14	SWP	40657	L	S	22-01-91	633.0		308.30

HH 1

CENTER = HH1A PA = 165°
 $\alpha_C = 5^h 33^m 54^s.85$ $\delta_C = -6^\circ 47' 01''.2$

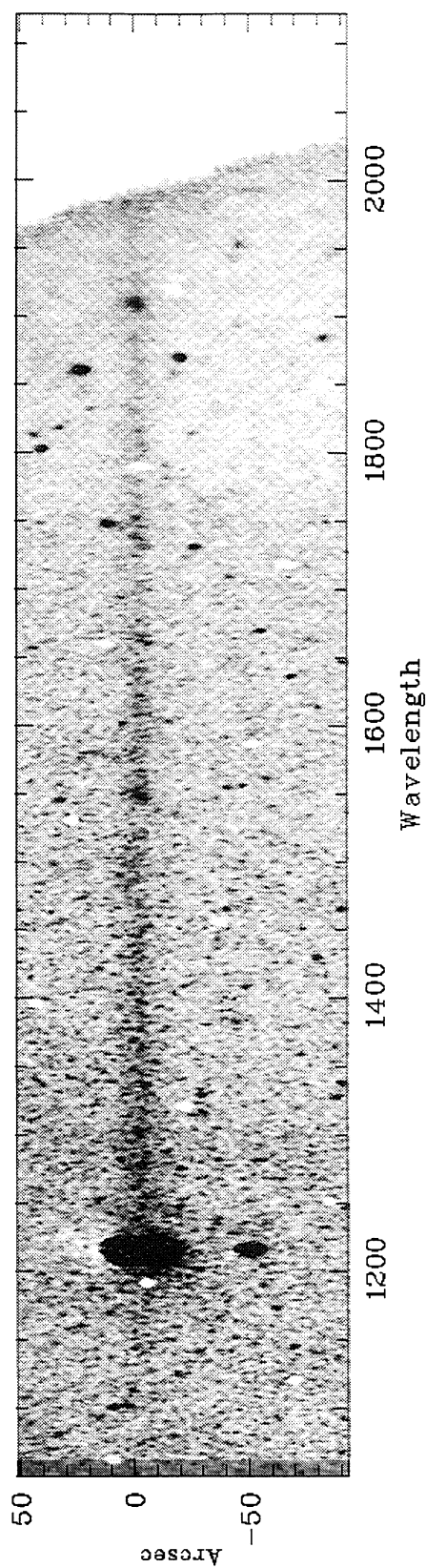
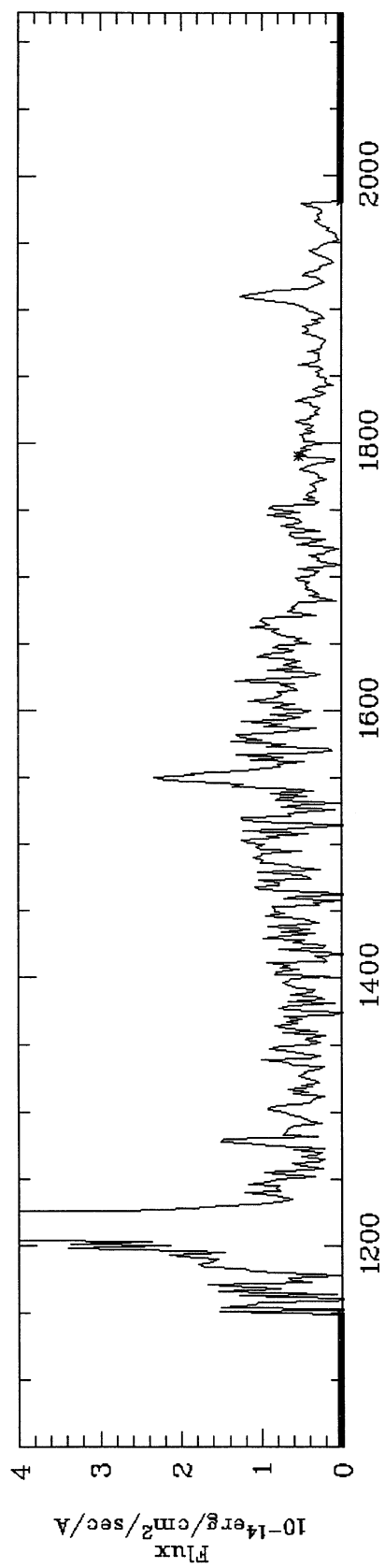


From the [S II] data in Eislöffel *et al.* (1994a)

IUE Data:

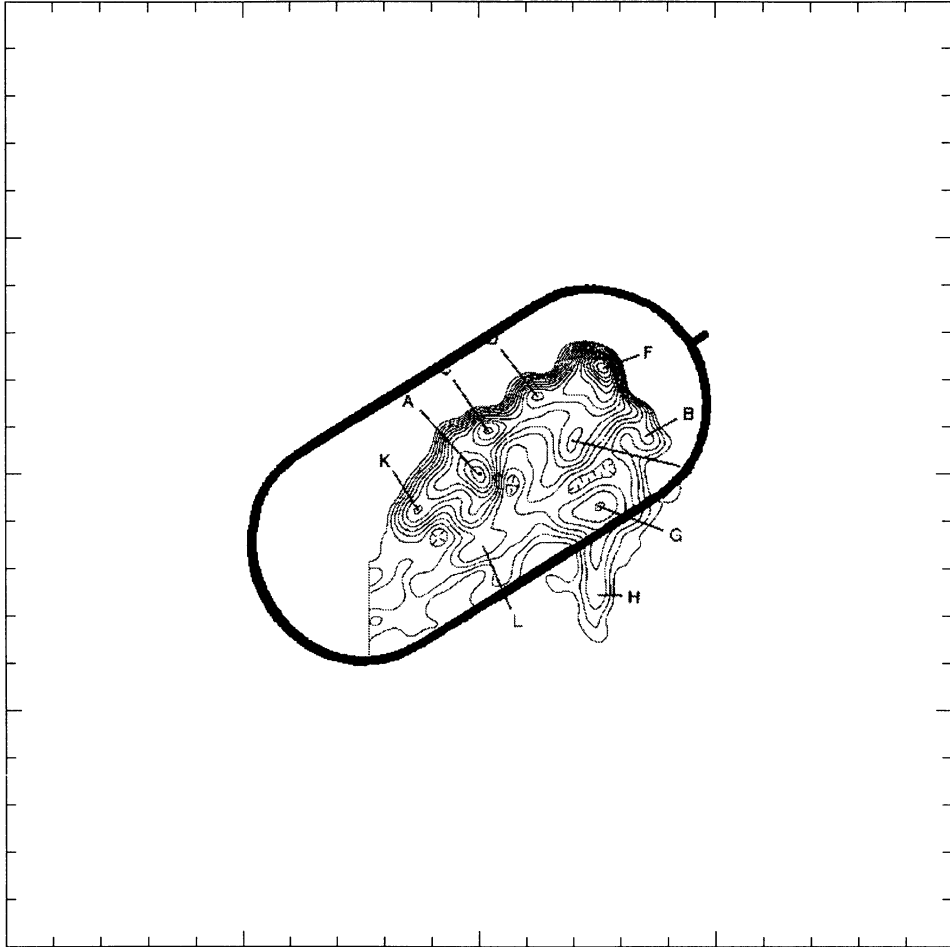
Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	06630			$(5.3 \pm 1.5)\text{E-14}$	$(1.2 \pm 0.5)\text{E-13}$

SWP06630



HH 1

CENTER = HH1A PA = 302°
 $\alpha_C = 5^h 33^m 54^s.85$ $\delta_C = -6^\circ 47' 01''.2$

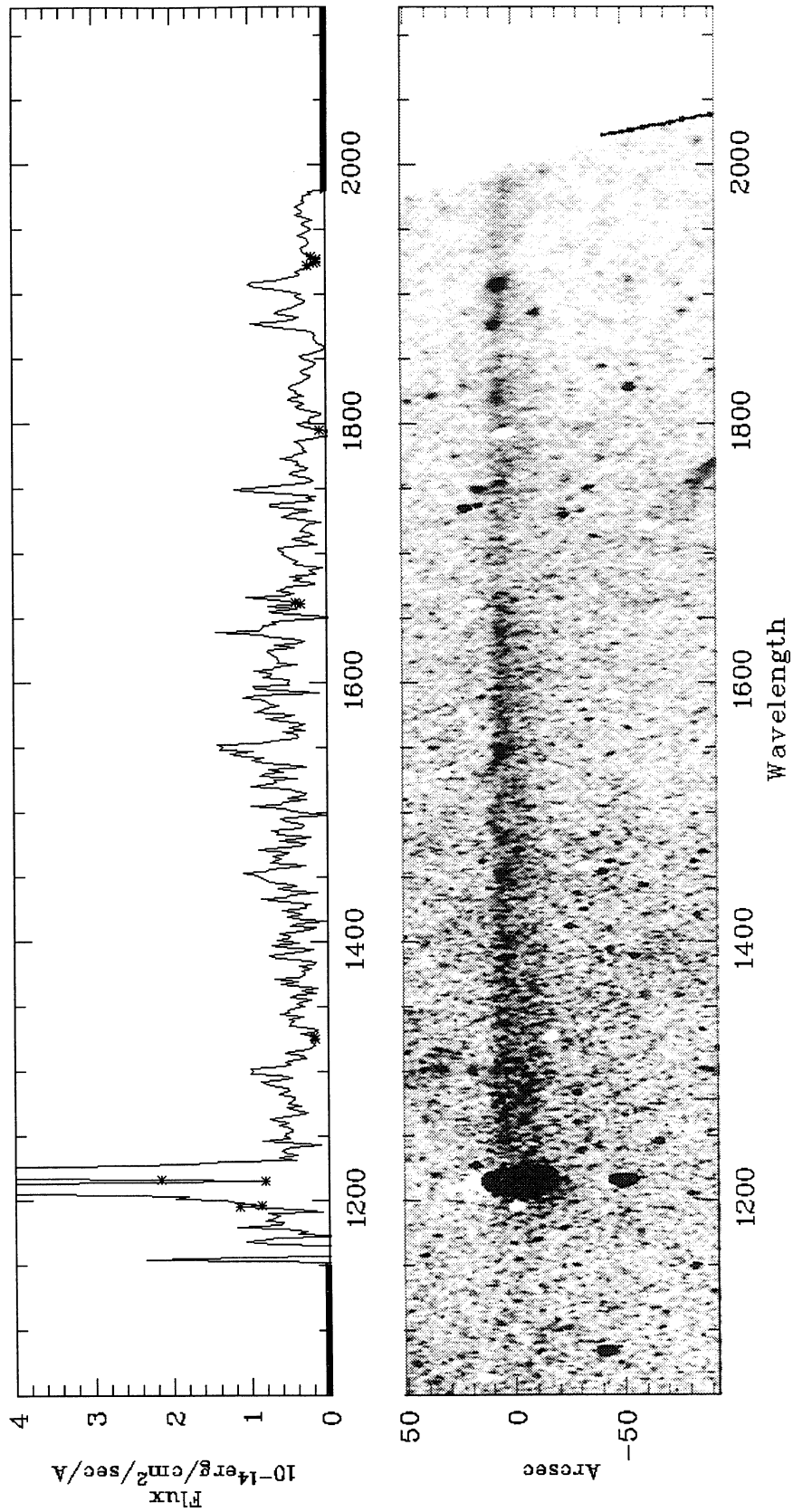


From the [S II] data in Eislöffel *et al.* (1994a)

IUE Data:

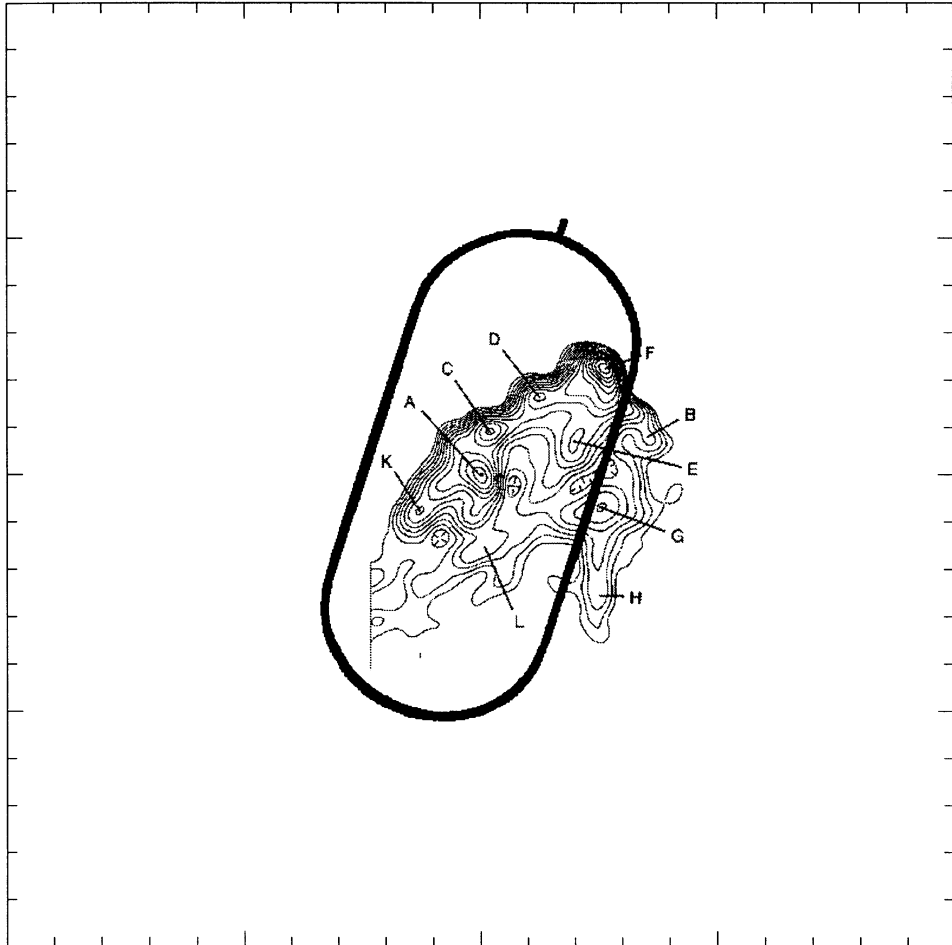
Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	24914			$(5.2 \pm 2.4)\text{E-14}$	$(8.9 \pm 4.6)\text{E-14}$

SWP24914



HH 1

CENTER = HH1A PA = 342°
 $\alpha_C = 5^h 33^m 54^s.85$ $\delta_C = -6^\circ 47' 01''.2$

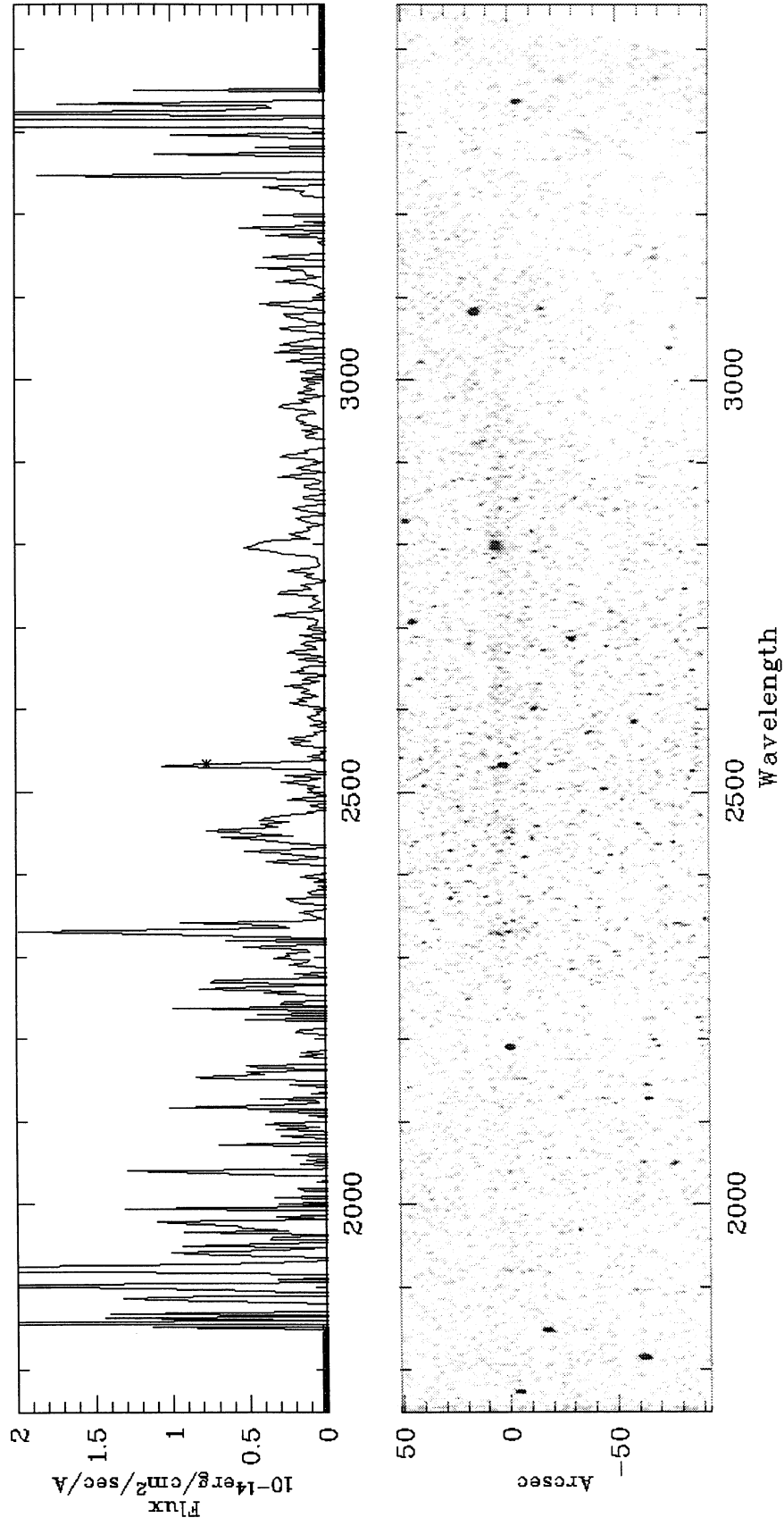


From the [S II] data in Eislöffel *et al.* (1994a)

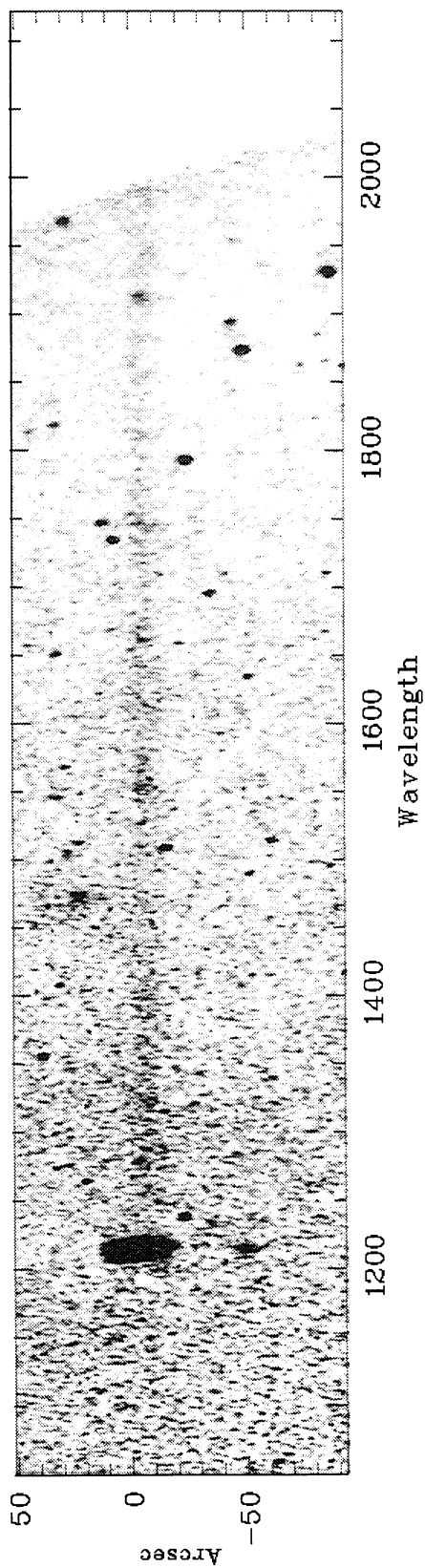
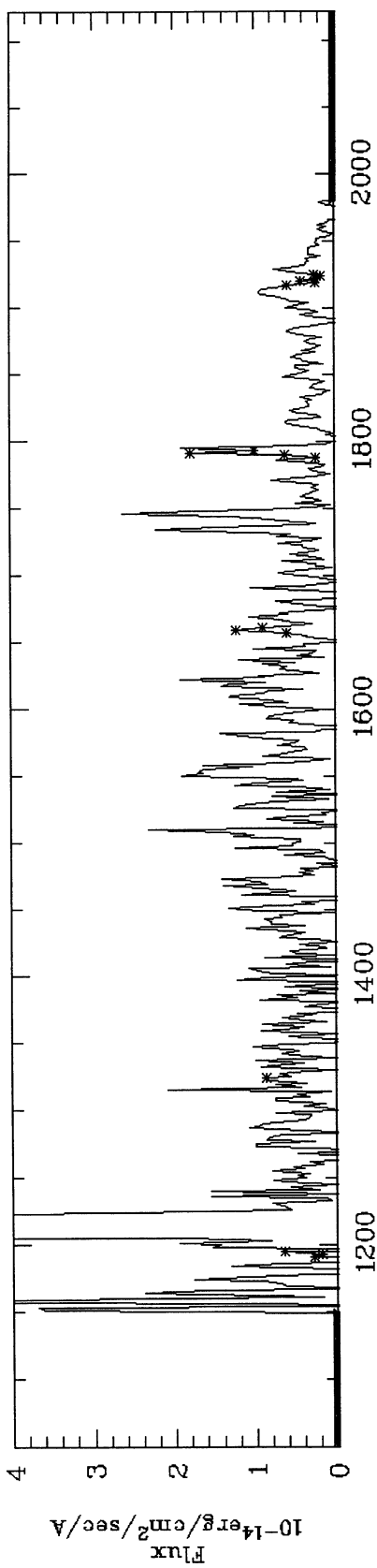
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWR	07150	(2.6 ± 0.5)E-14		(5.9 ± 2.8)E-14	(9.5 ± 4.2)E-14
SWP	08188				
SWP	08209				
SWP	16668				

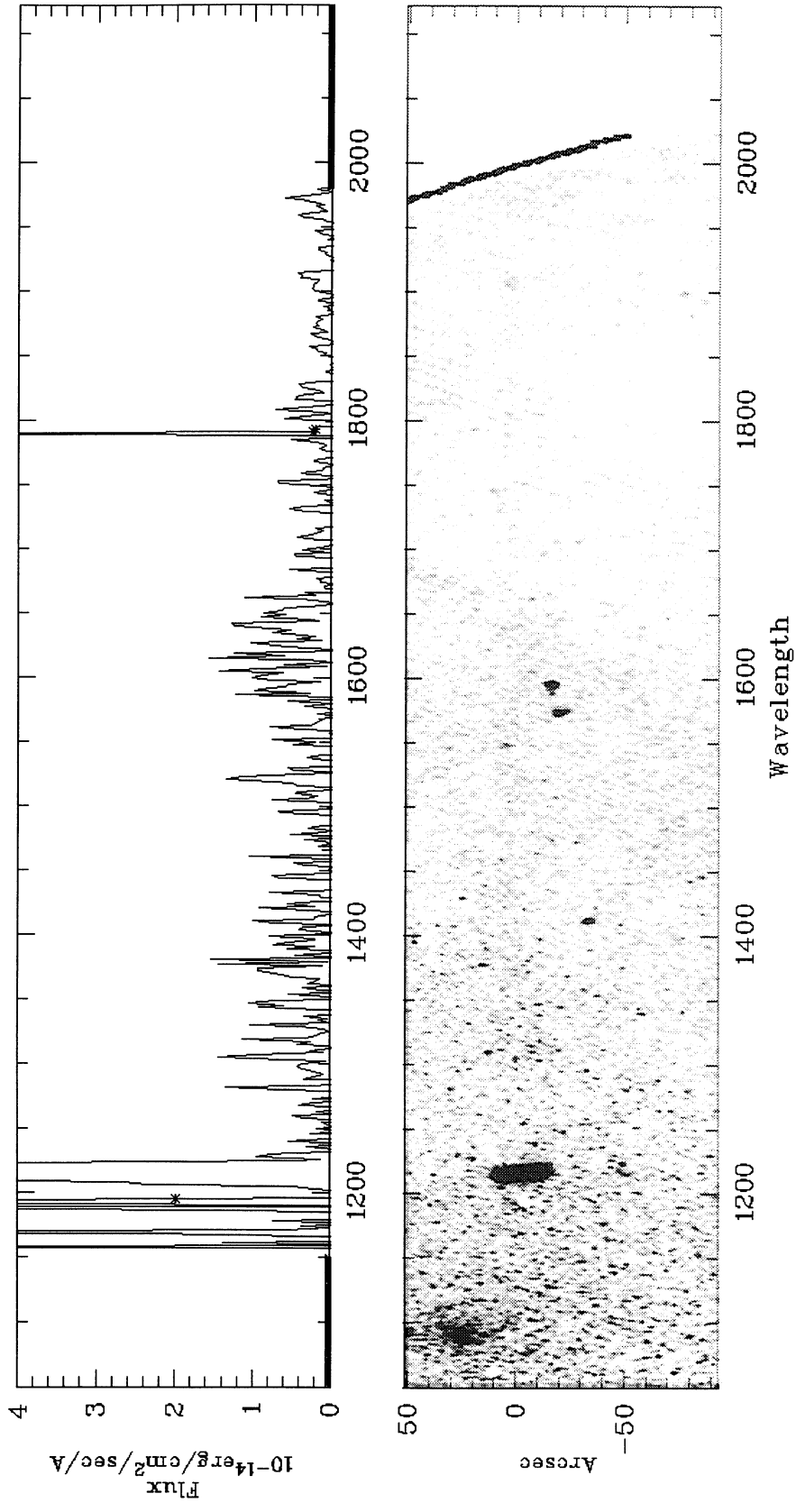
LWR07150



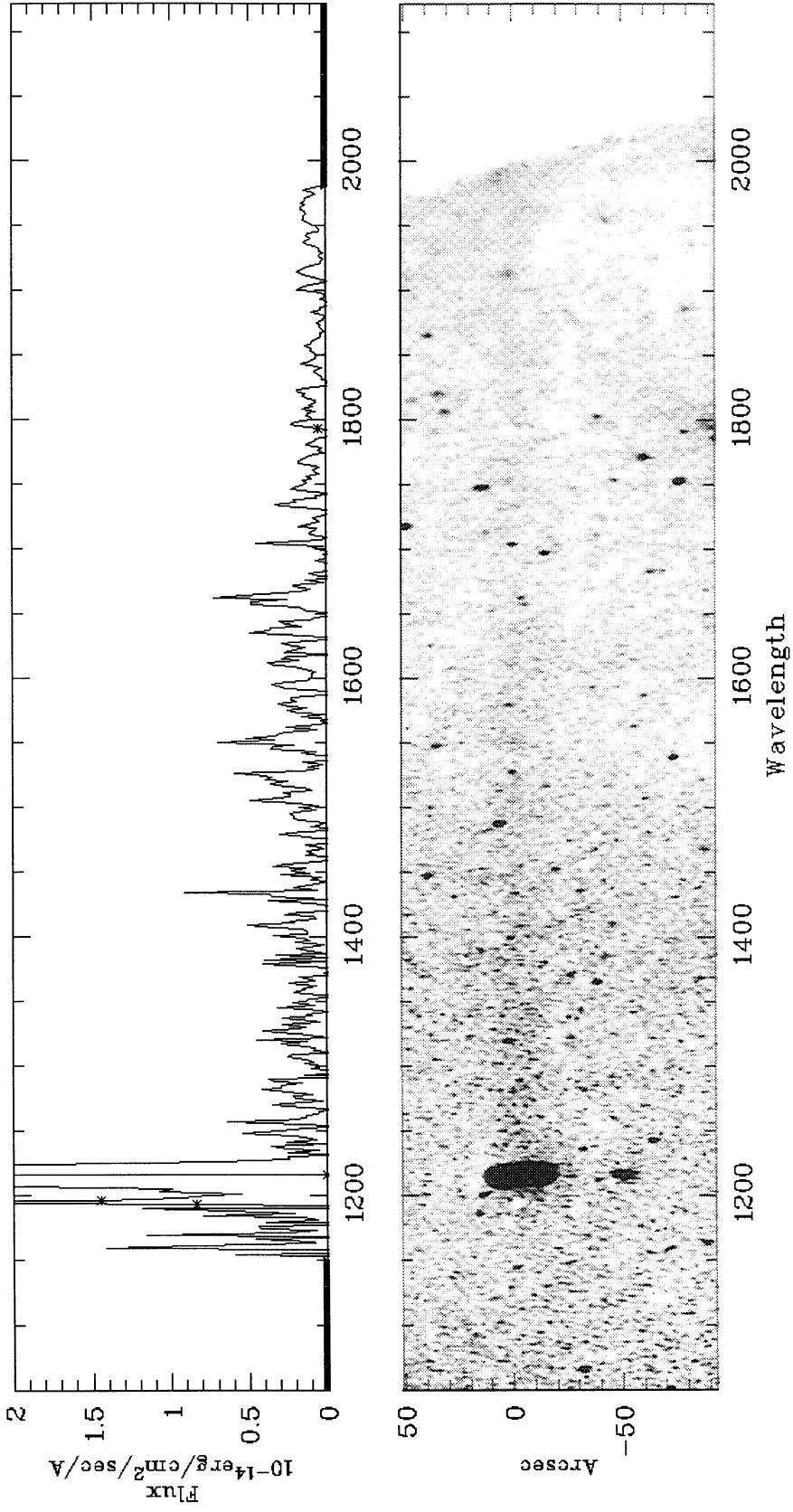
SWP08188



SWP08209

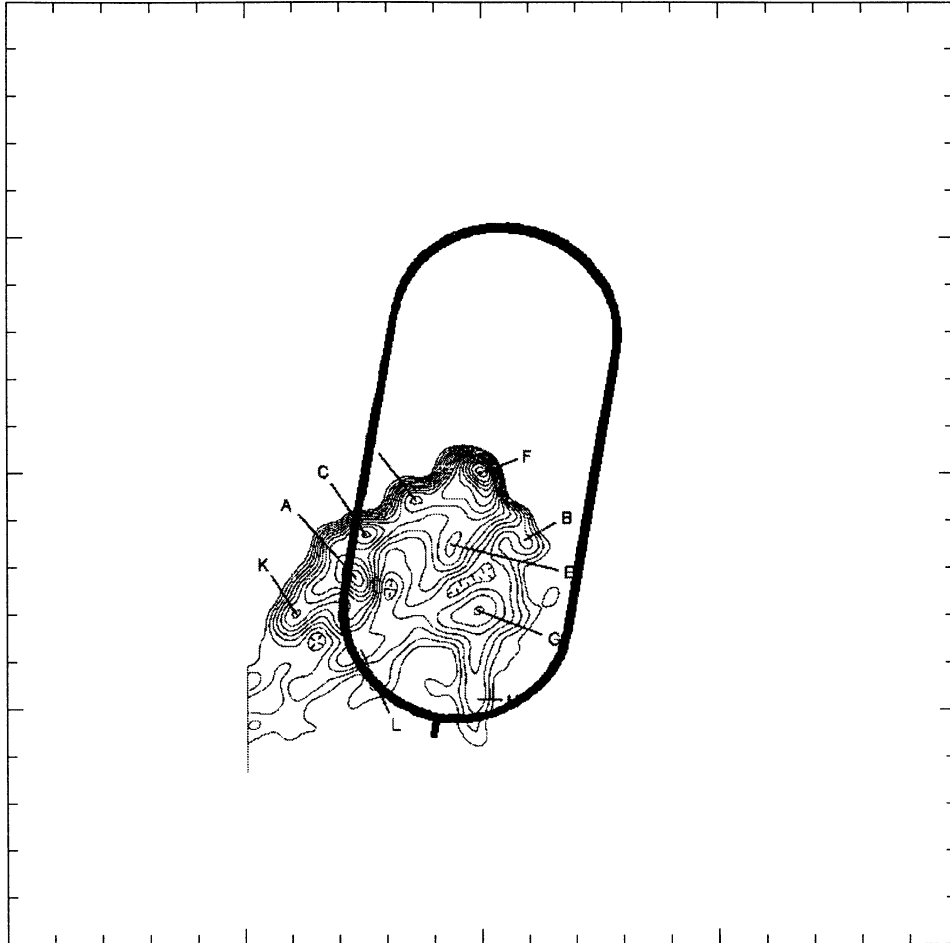


SWP16668



HH 1

CENTER = HH1F PA = 170°
 $\alpha_C = 5^h 33^m 54^s.54$ $\delta_C = -6^\circ 46' 57''.0$

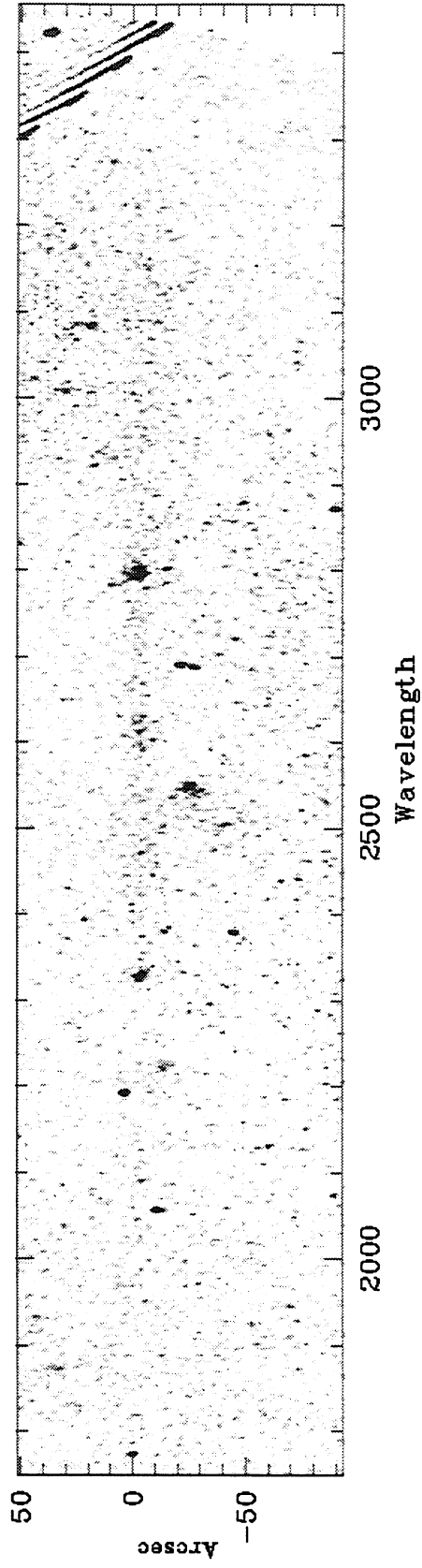
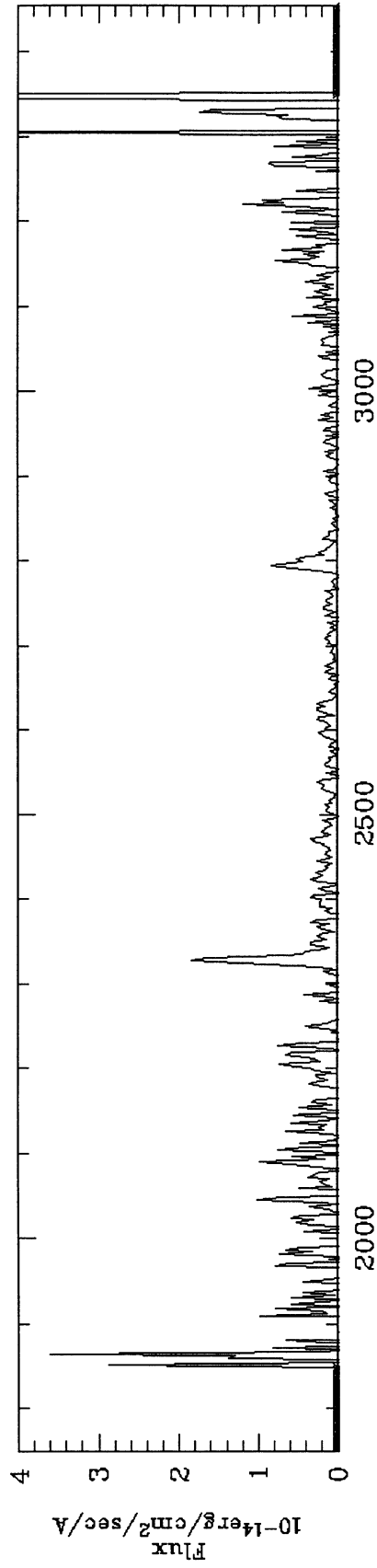


From the [S II] data in Eislöffel *et al.* (1994a)

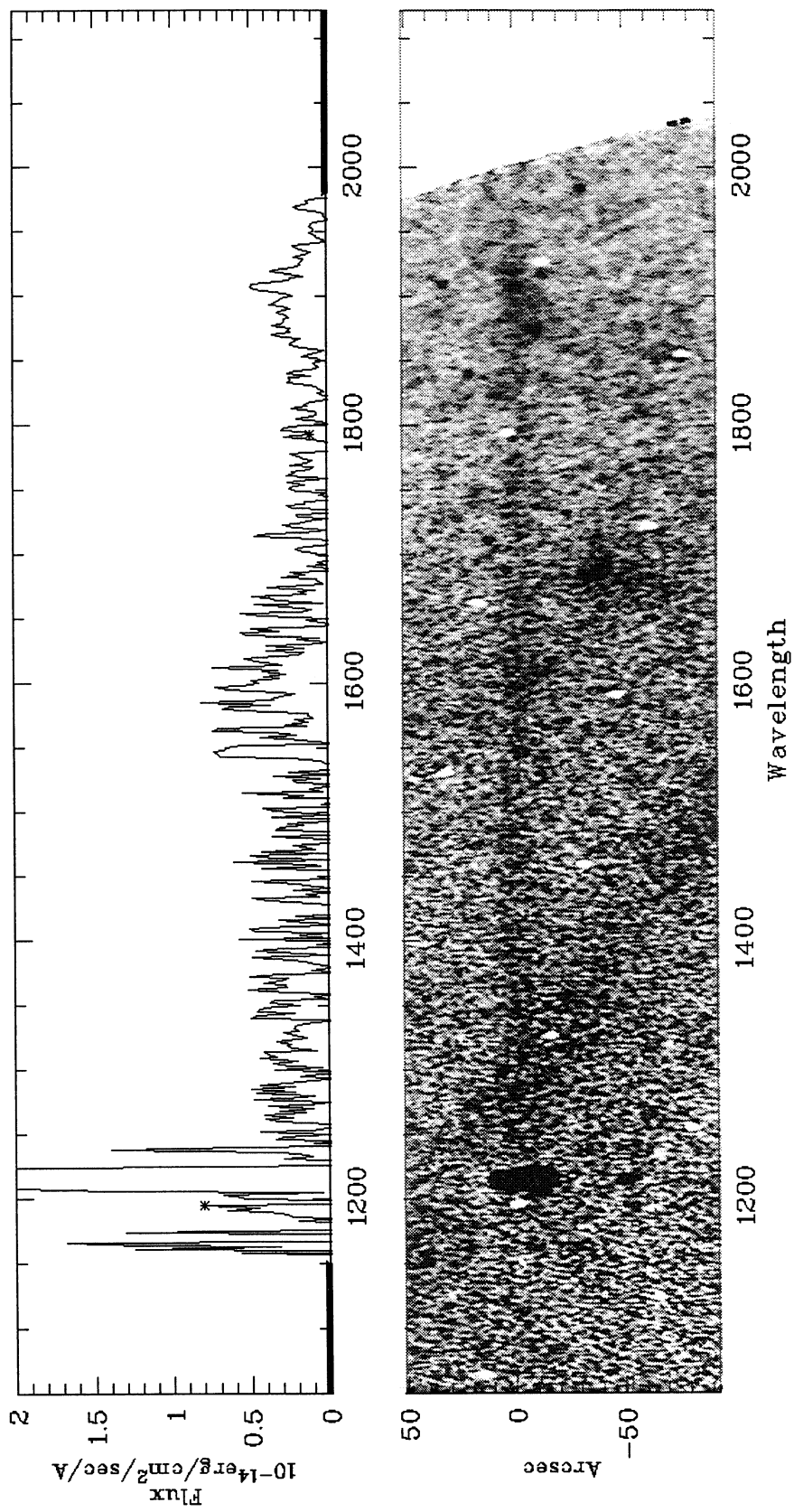
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWR SWP	08912 26950	$(3.6 \pm 0.4)\text{E-14}$	$(6.5 \pm 0.8)\text{E-14}$	$(2.5 \pm 1.2)\text{E-14}$	

LWR08912

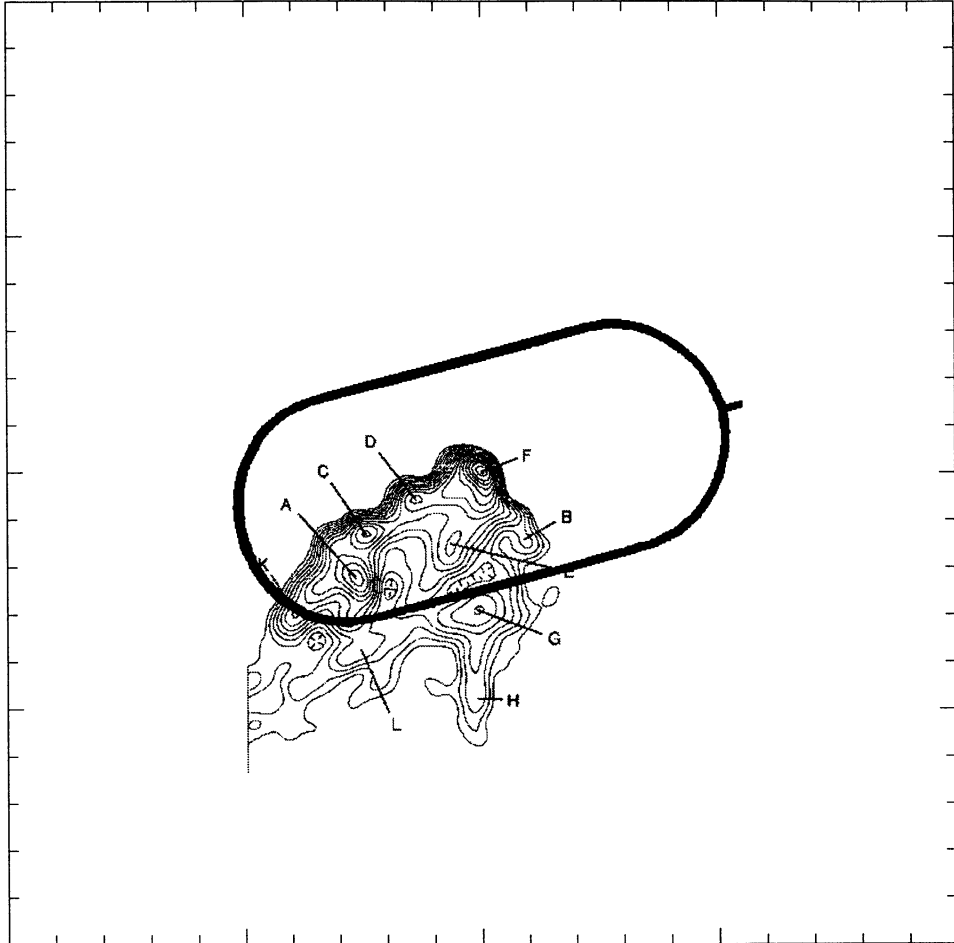


SWP26950



HH 1

CENTER = HH1F PA = 285°
 $\alpha_C = 5^h 33^m 54^s.54$ $\delta_C = -6^\circ 46' 57''.0$

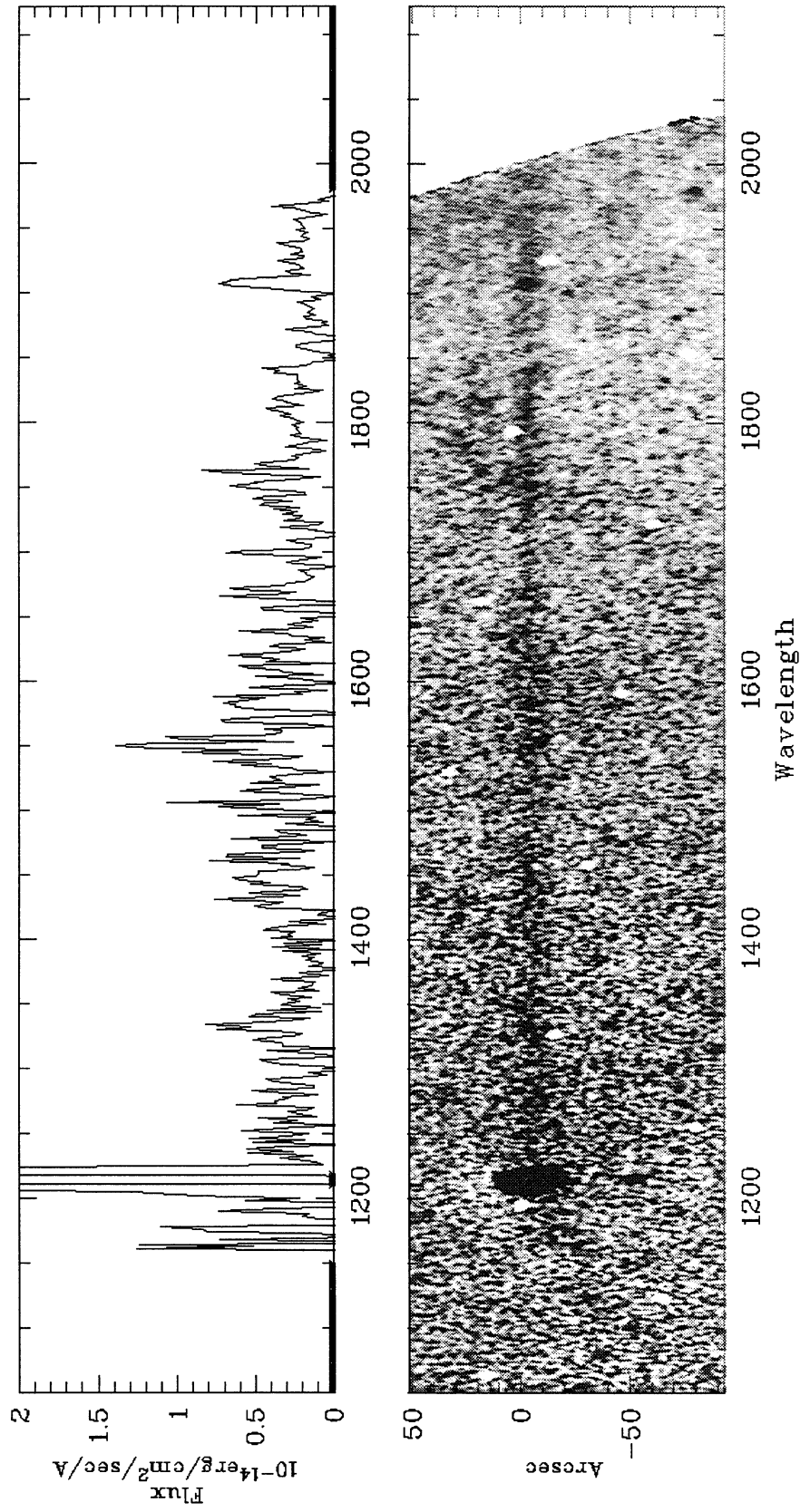


From the [S II] data in Eislöffel *et al.* (1994a)

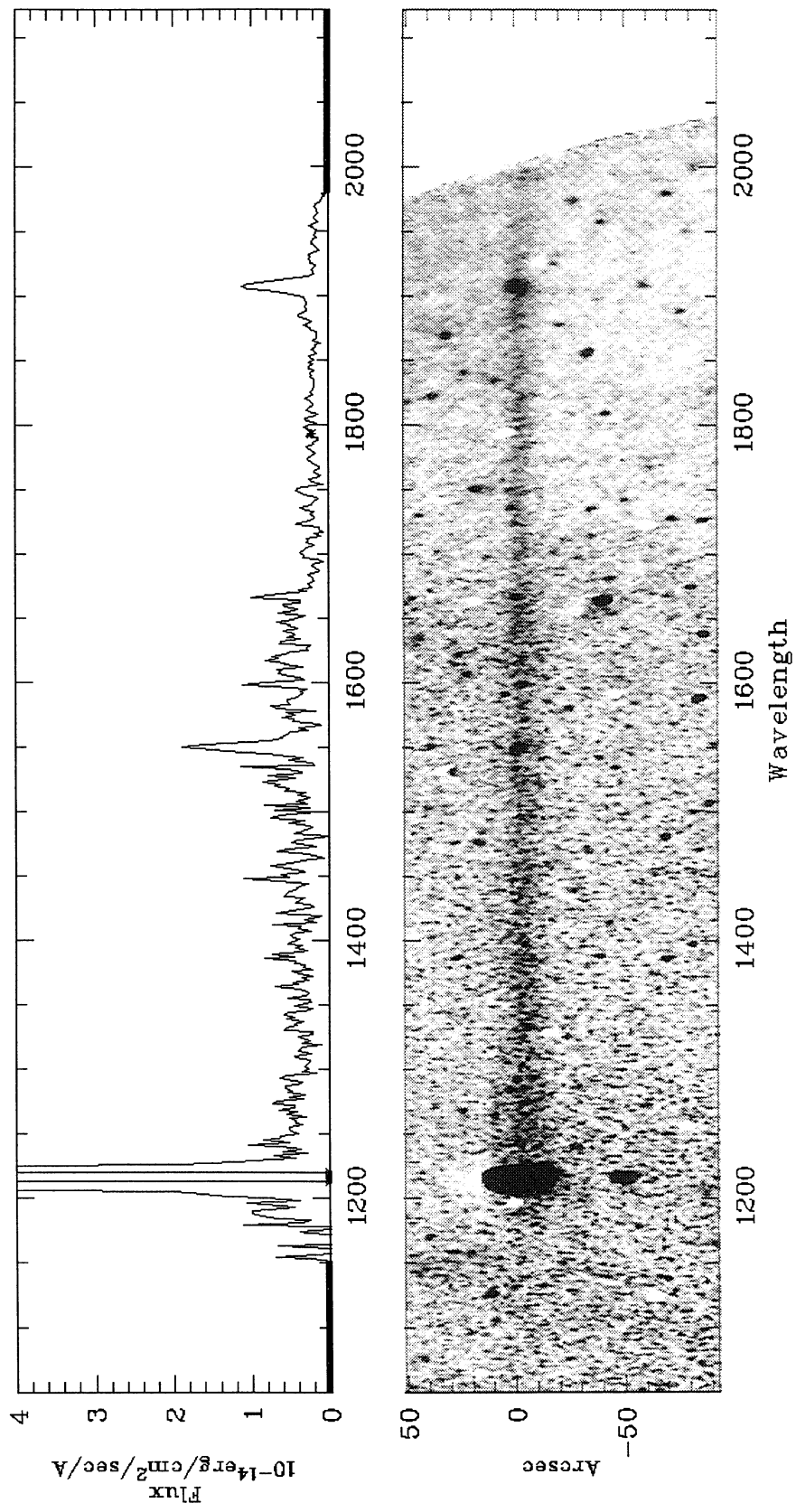
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	27443				
SWP	40657			$(6.9 \pm 1.8)\text{E-14}$	$(1.1 \pm 0.5)\text{E-13}$

SWP27443



SWP40657



HH 2

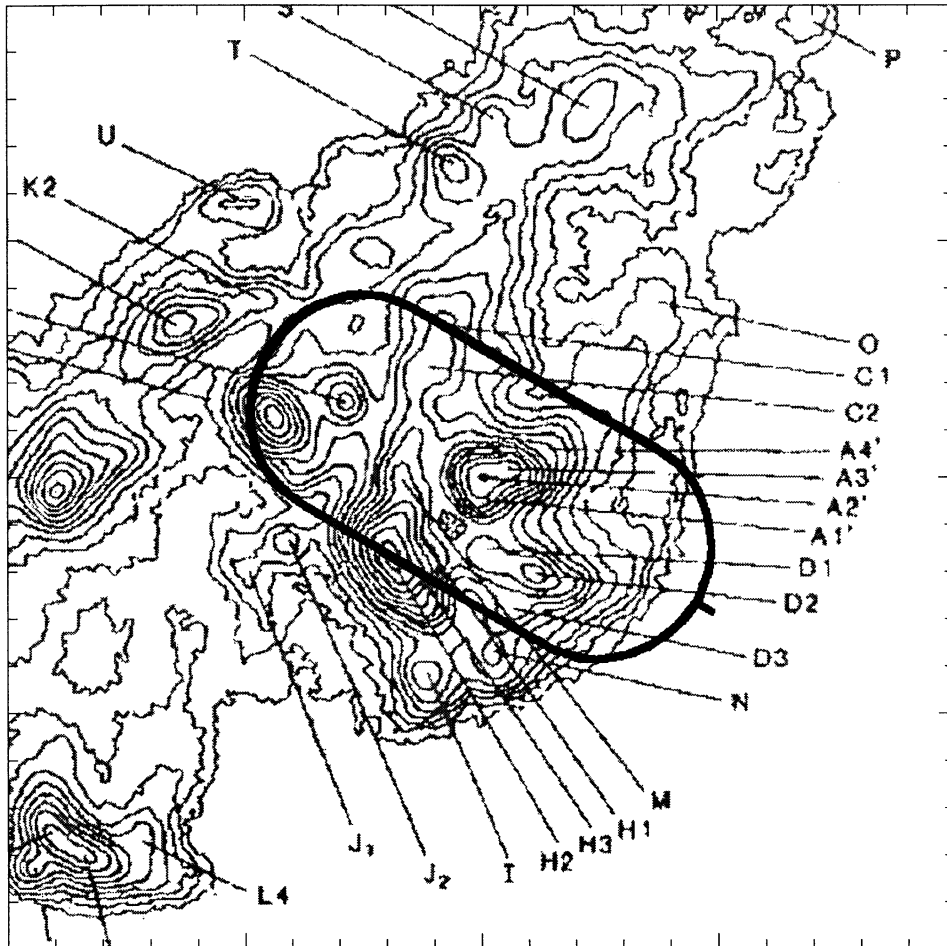
Alternative names :	Haro 12a	
Type :	HEO	[2]
Coordinates :	$\alpha_{1950} = 5^h 33^m 59^s.7$ $\delta_{1950} = -6^\circ 49' 04''$	
Proper motion (Knot H1) :	[15]	
	$\mu_\alpha \cos \delta = 5''.4 \pm 1''.5 \text{ cen}^{-1}$ $\mu_\delta = -10''.5 \pm 2''.8 \text{ cen}^{-1}$	
Radial velocity :	-16 km s ⁻¹	[39]
Suspected source :	HH 1/2 VLA1	
Region :	L1641	
Distance :	470 pc	
Characteristic size :	40'' × 40''	
Associated with molecular outflow :	No	[12]
P.A. of jet :	~ 329°	

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWR	08888	L	L	25-09-80	180.0	E=138,C=105,B=53	164.62
2	LWR	08909	L	L	29-09-80	150.0	E=115,C=100,B=45	166.64
3	LWR	10450	L	L	26-04-81	380.0	E=220,C=150,B=90	5.19
4	LWR	10475	L	L	29-04-81	215.0	C=118,B=108	7.88
5	SWP	10218	L	L	25-09-80	270.0	E=100,C=80,B=60	164.62
6	SWP	10246	L	L	29-09-80	290.0	E=100,C=78,B=52	166.64
7	SWP	16671	L	L	31-03-82	430.0	E=112,C=105,B=68	348.96
8	SWP	18157	L	L	30-09-82	430.0	E=164,C=110,B=85	166.90
9	SWP	18157	L	S	30-09-82	430.0		166.90
10	SWP	19685	L	L	09-04-83	330.0	E=127,C=95,B=70	353.78
11	SWP	24919	L	L	17-01-85	860.0	E=221,C=210,B=138	303.55
12	SWP	29835	L	L	08-12-86	400.0	E=133,C=111,B=81	236.83
13	SWP	29845	L	L	10-12-86	390.0	E=116,C=111,B=80	240.78
14	SWP	40663	L	L	23-01-91	675.0	E=215,C=120,B=90	309.14
15	SWP	43891	L	L	29-01-92	636.0	C=130,B=90	313.99

HH 2

CENTER = HH2A PA = 240°
 $\alpha_C = 5^h 33^m 59^s.44$ $\delta_C = -6^\circ 48' 59''.2$

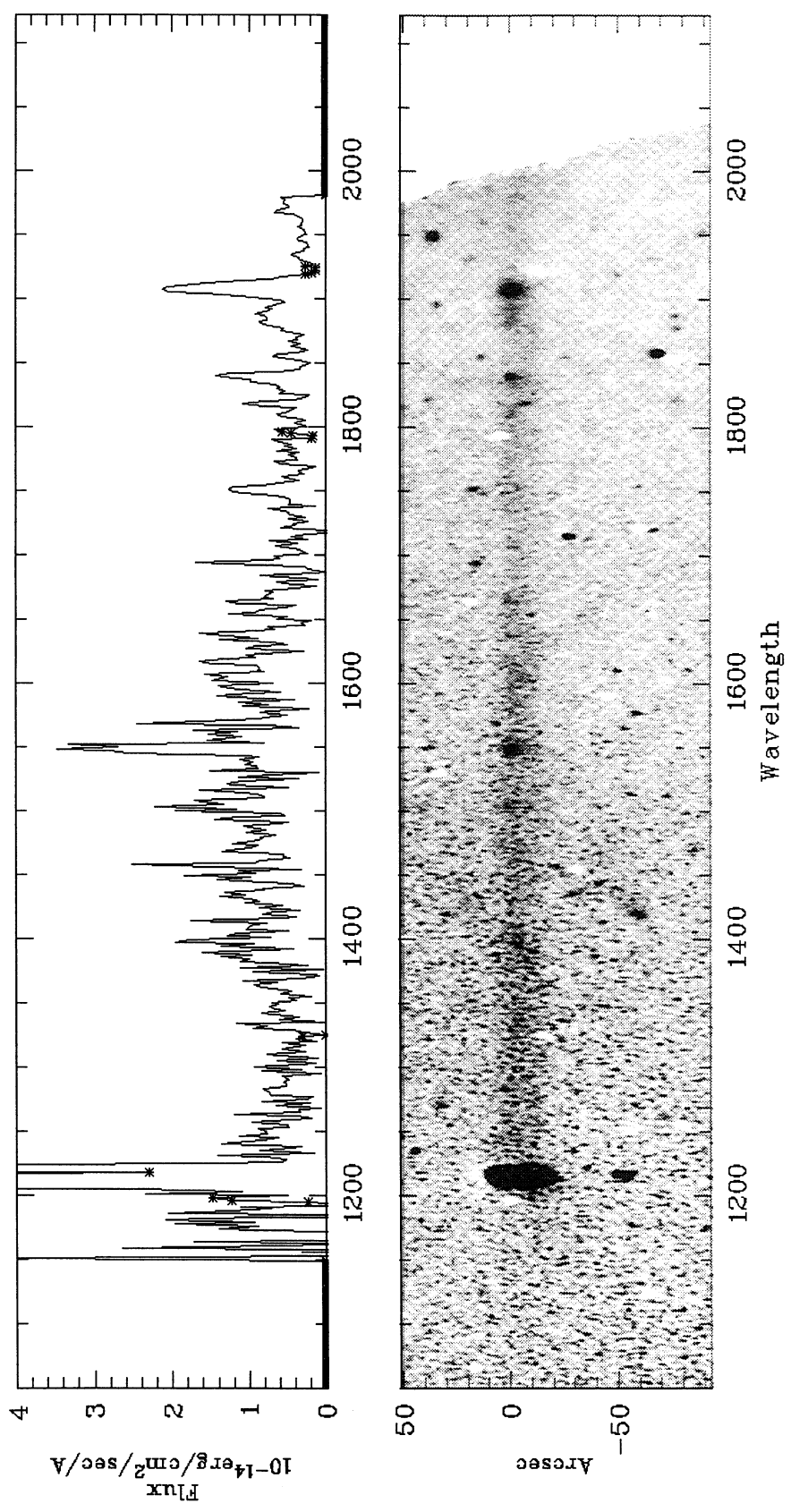


From the [S II] data in Eislöffel *et al.* (1994a)

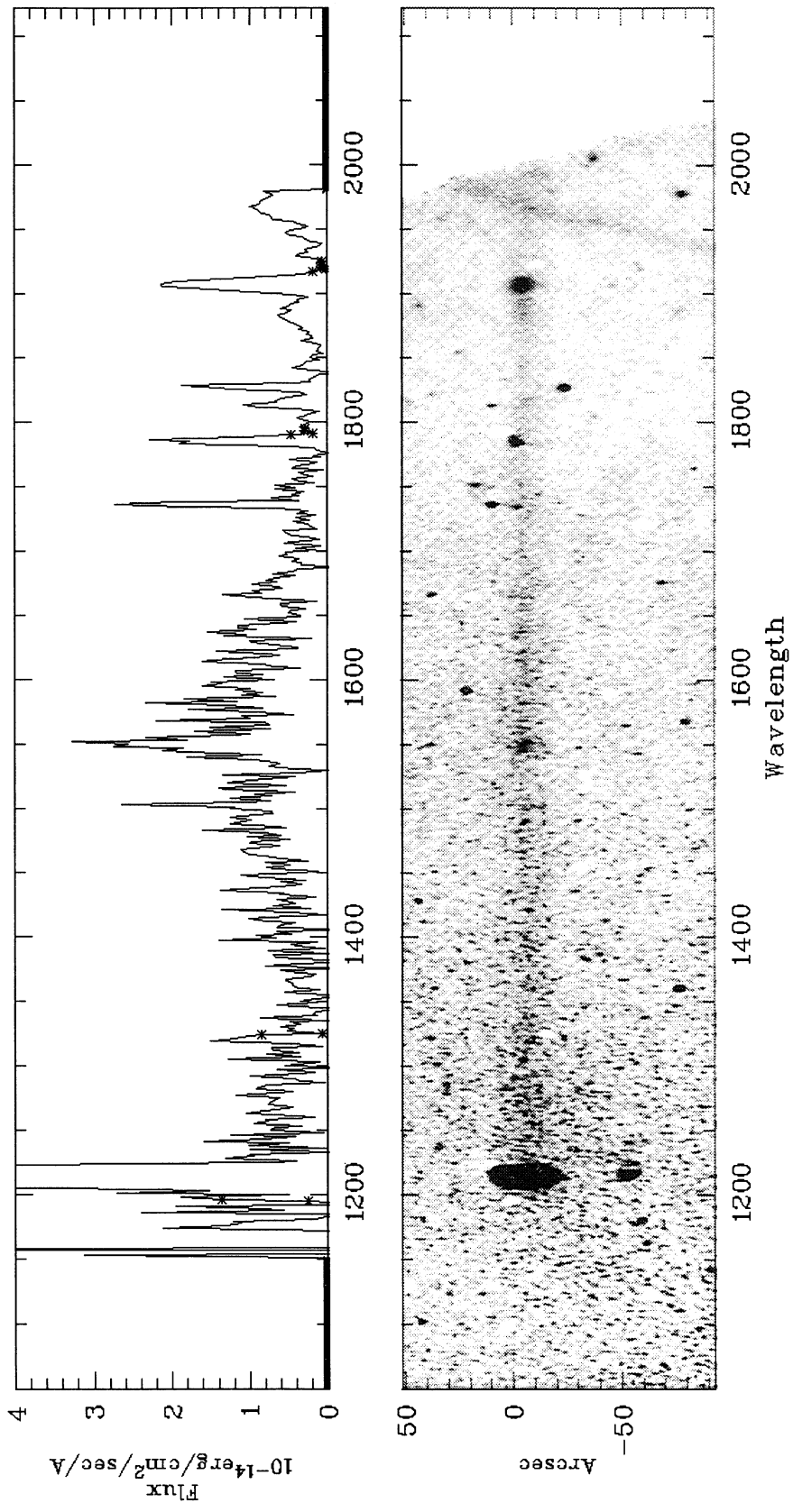
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	29835			$(1.5 \pm 0.3)\text{E-13}$	$(1.7 \pm 0.8)\text{E-13}$
SWP	29845			$(1.3 \pm 0.2)\text{E-13}$	$(1.7 \pm 0.7)\text{E-13}$

SWP29835

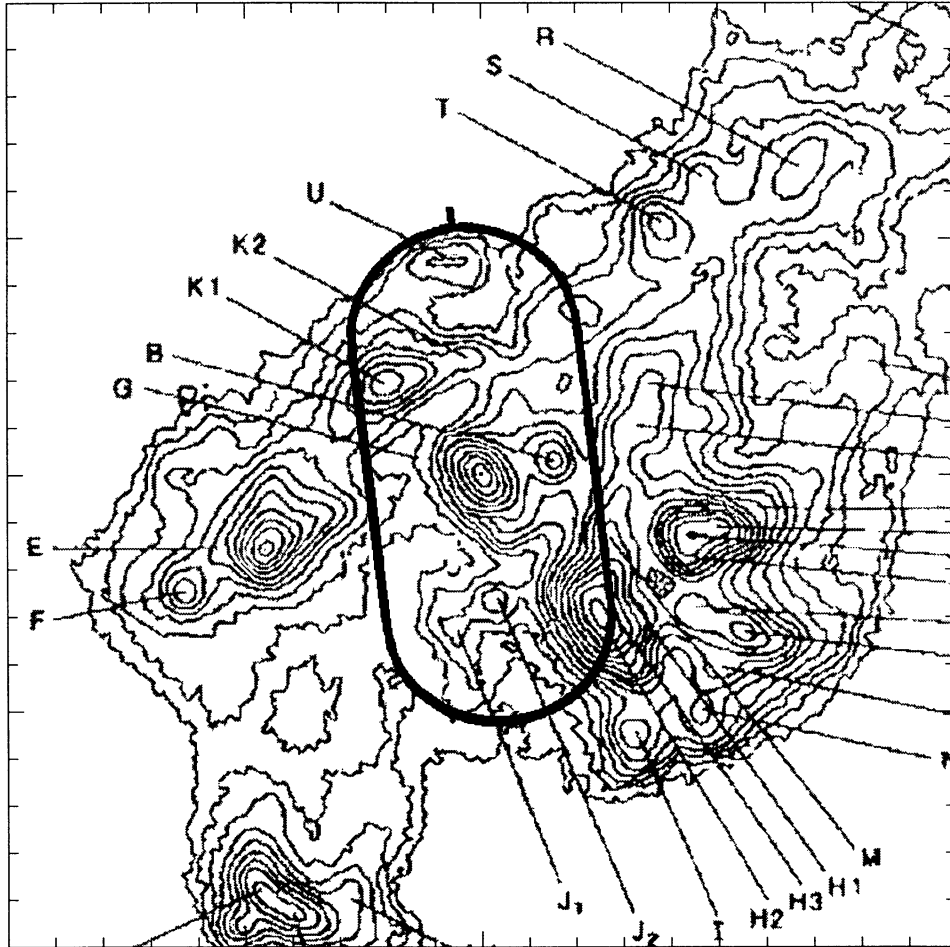


SWP29845



HH 2

CENTER = HH2G PA = 7°
 $\alpha_C = 5^h 34^m 00^s.11$ $\delta_C = -6^\circ 48' 57''.1$

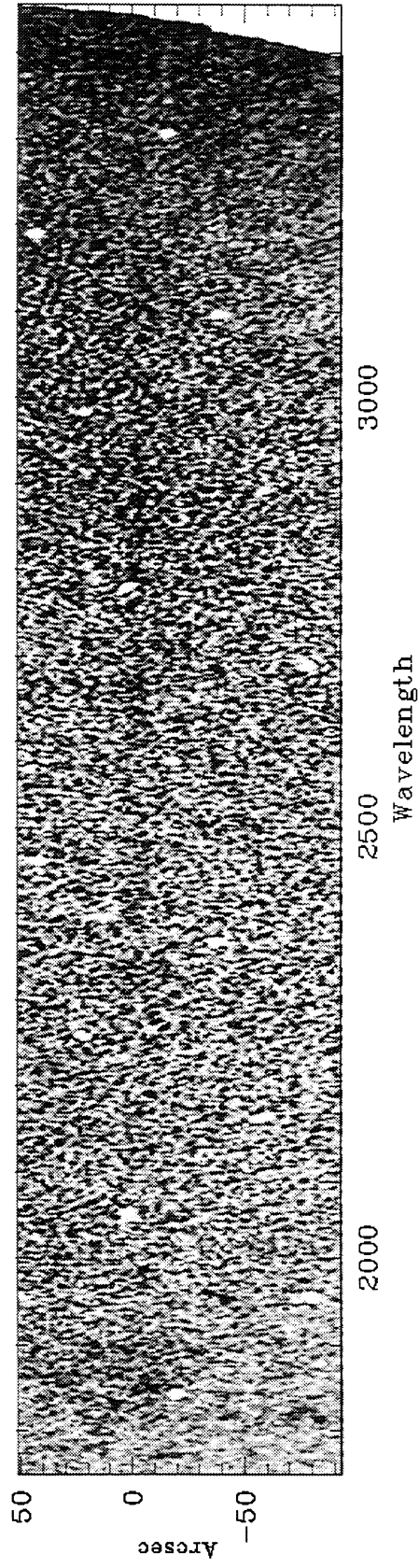
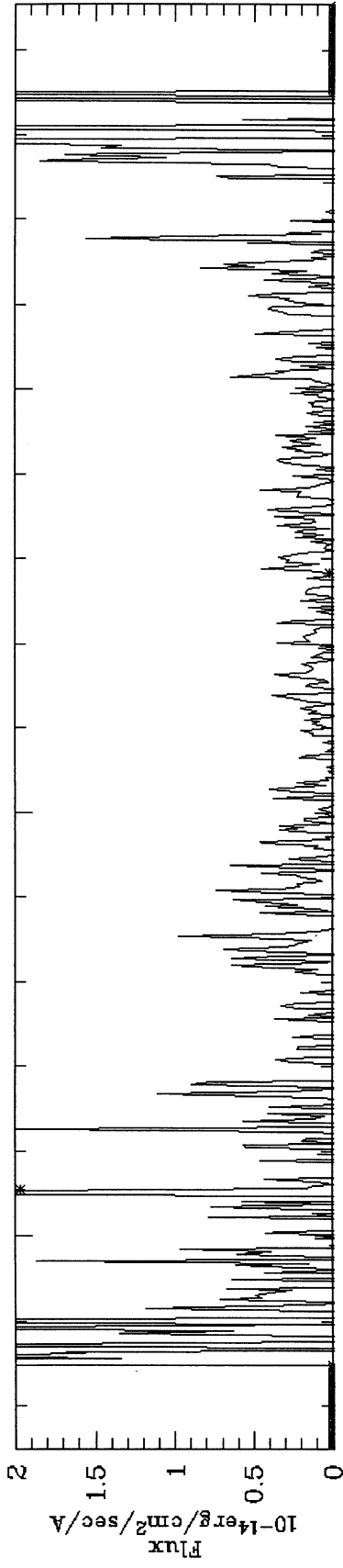


From the [S II] data in Eislöffel *et al.* (1994a)

IUE Data:

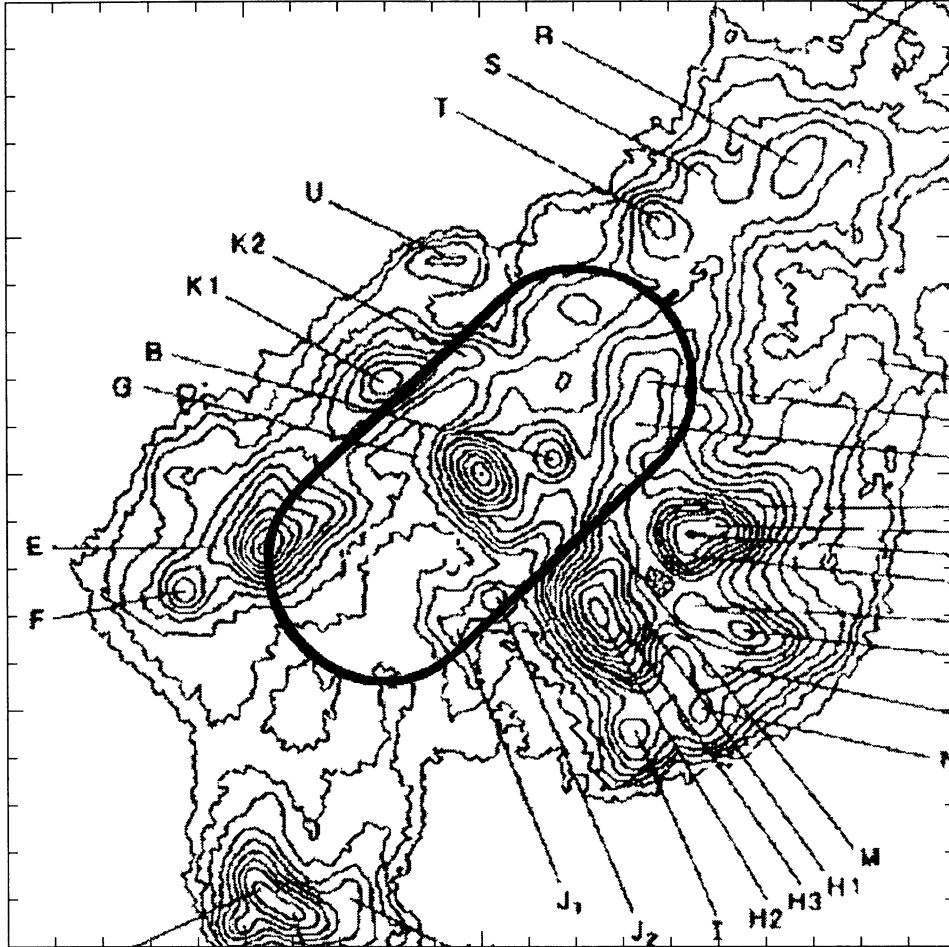
Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWR	10475				

LWR10475



HH 2

CENTER = HH2G PA = 313°
 $\alpha_C = 5^h 34^m 00^s.11$ $\delta_C = -6^\circ 48' 57''.1$

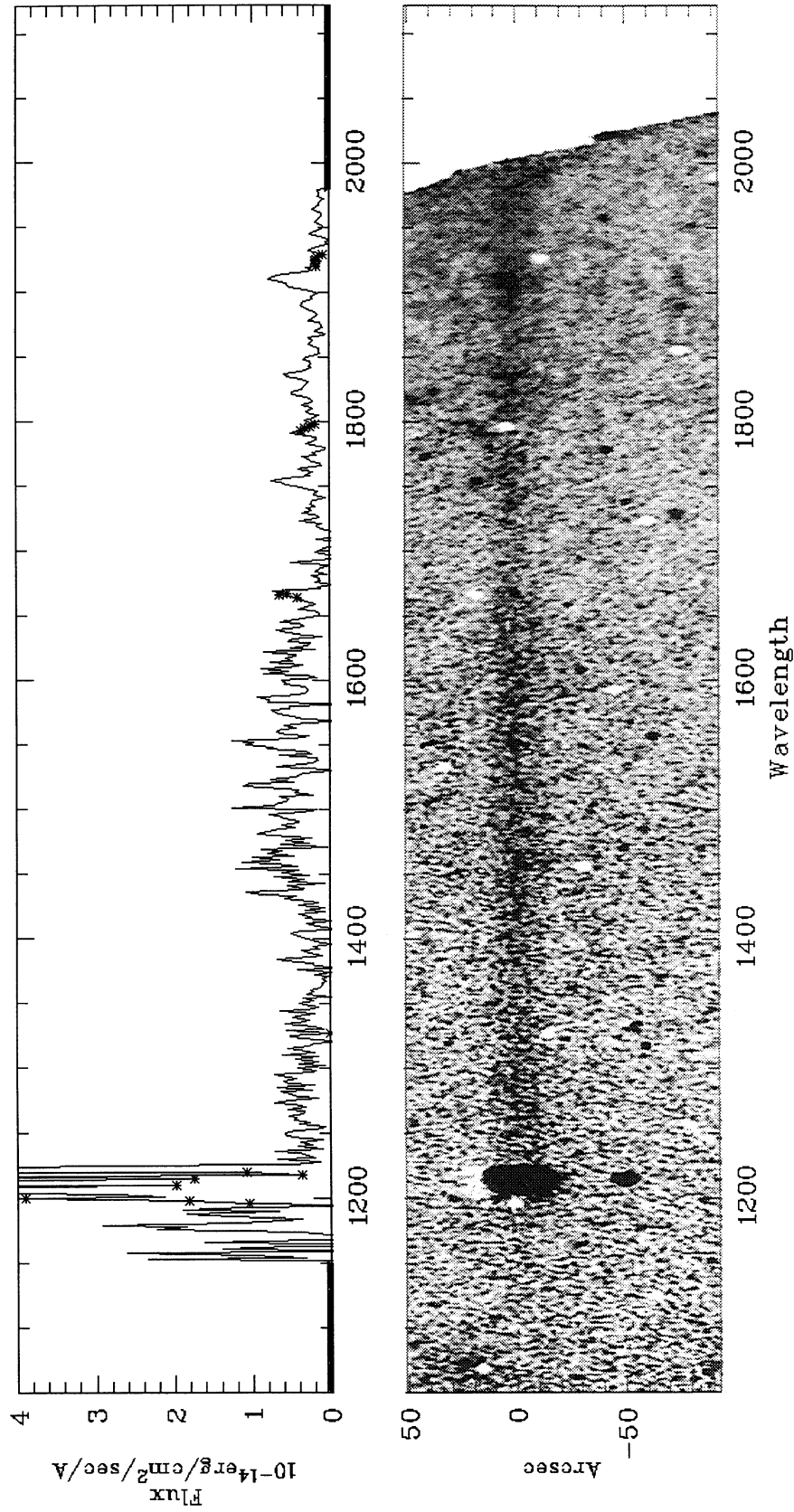


From the [S II] data in Eislöffel *et al.* (1994a)

IUE Data:

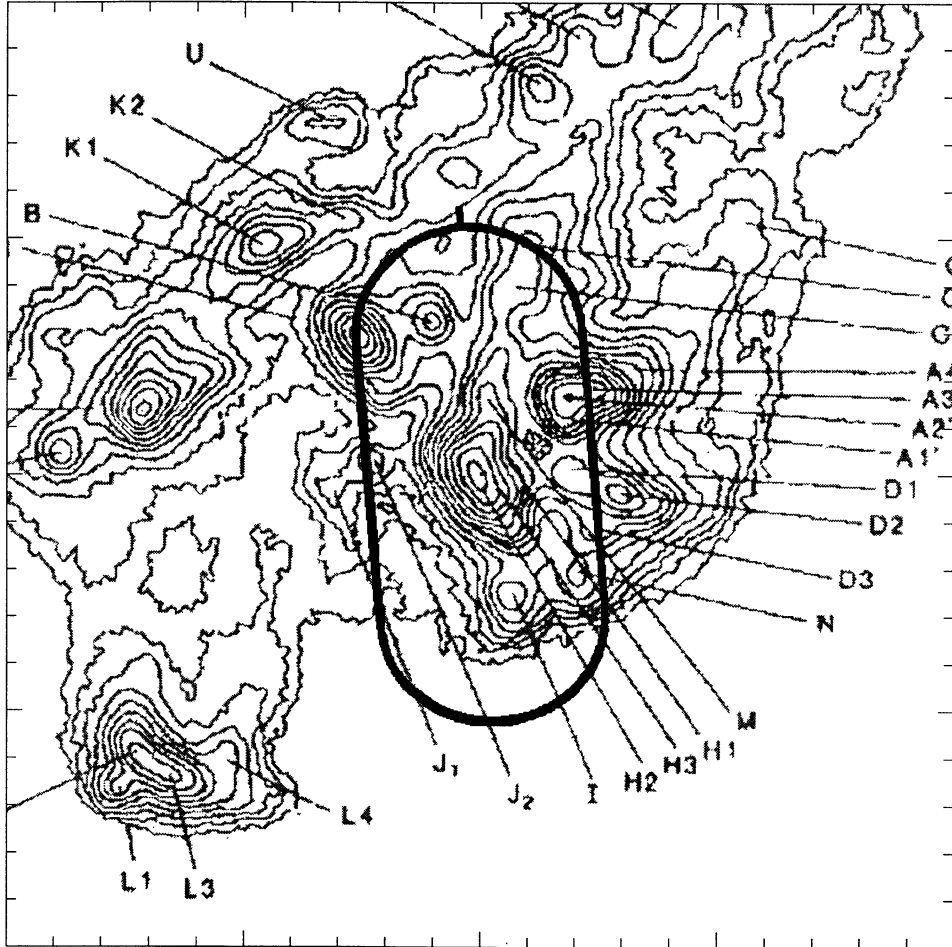
Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	43891			$(4.8 \pm 1.3)\text{E-14}$	

SWP43891



HH 2

CENTER = HH2H PA = 5°
 $\alpha_C = 5^h 33^m 59^s.69$ $\delta_C = -6^\circ 49' 03''.8$

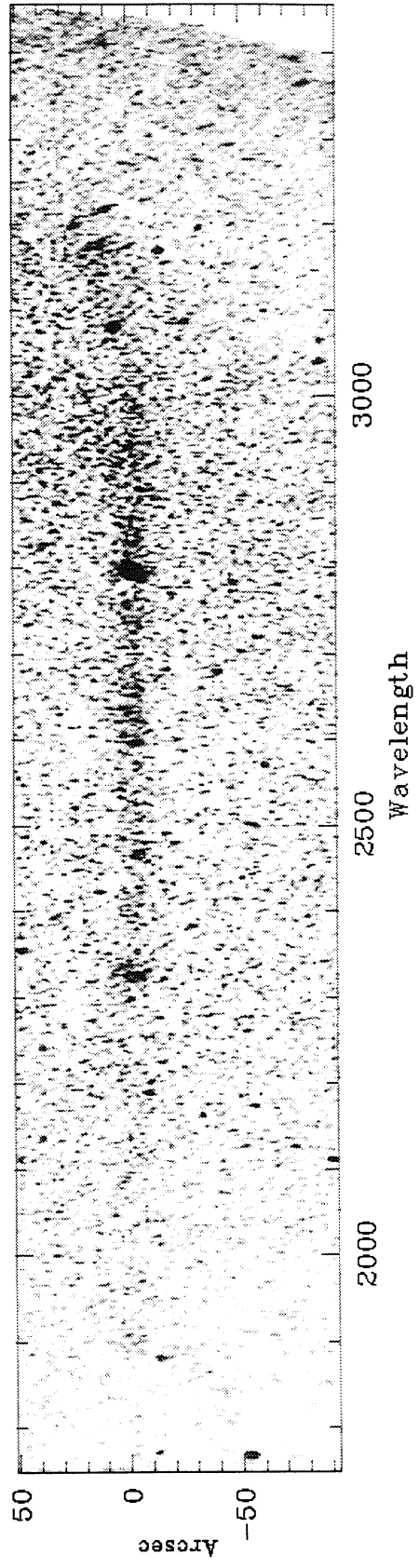
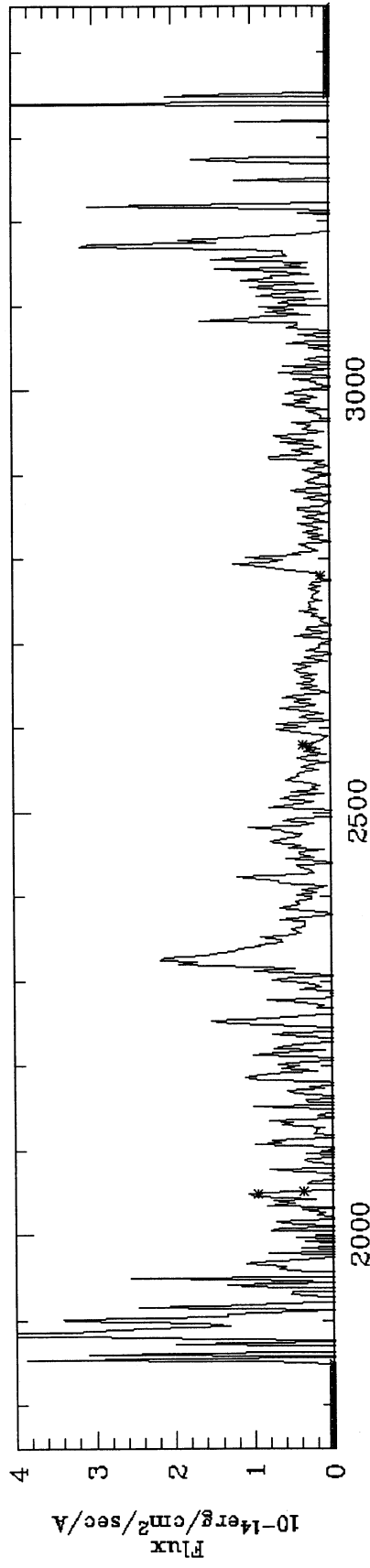


From the [S II] data in Eislöffel *et al.* (1994a)

IUE Data:

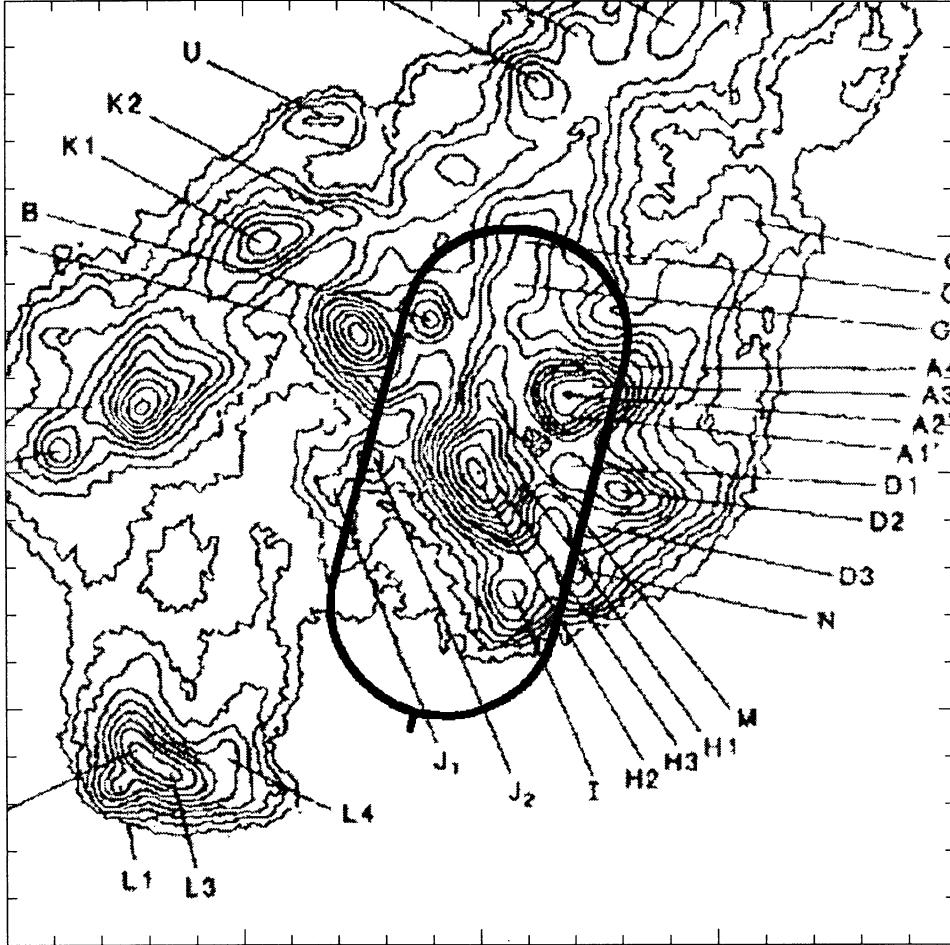
Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWR	10450	$(6.6 \pm 1.9)\text{E-14}$	$(2.1 \pm 0.7)\text{E-13}$		

LWR10450



HH 2

CENTER = HH2H PA = 165°
 $\alpha_C = 5^h 33^m 59^s.69$ $\delta_C = -6^\circ 49' 03''.8$

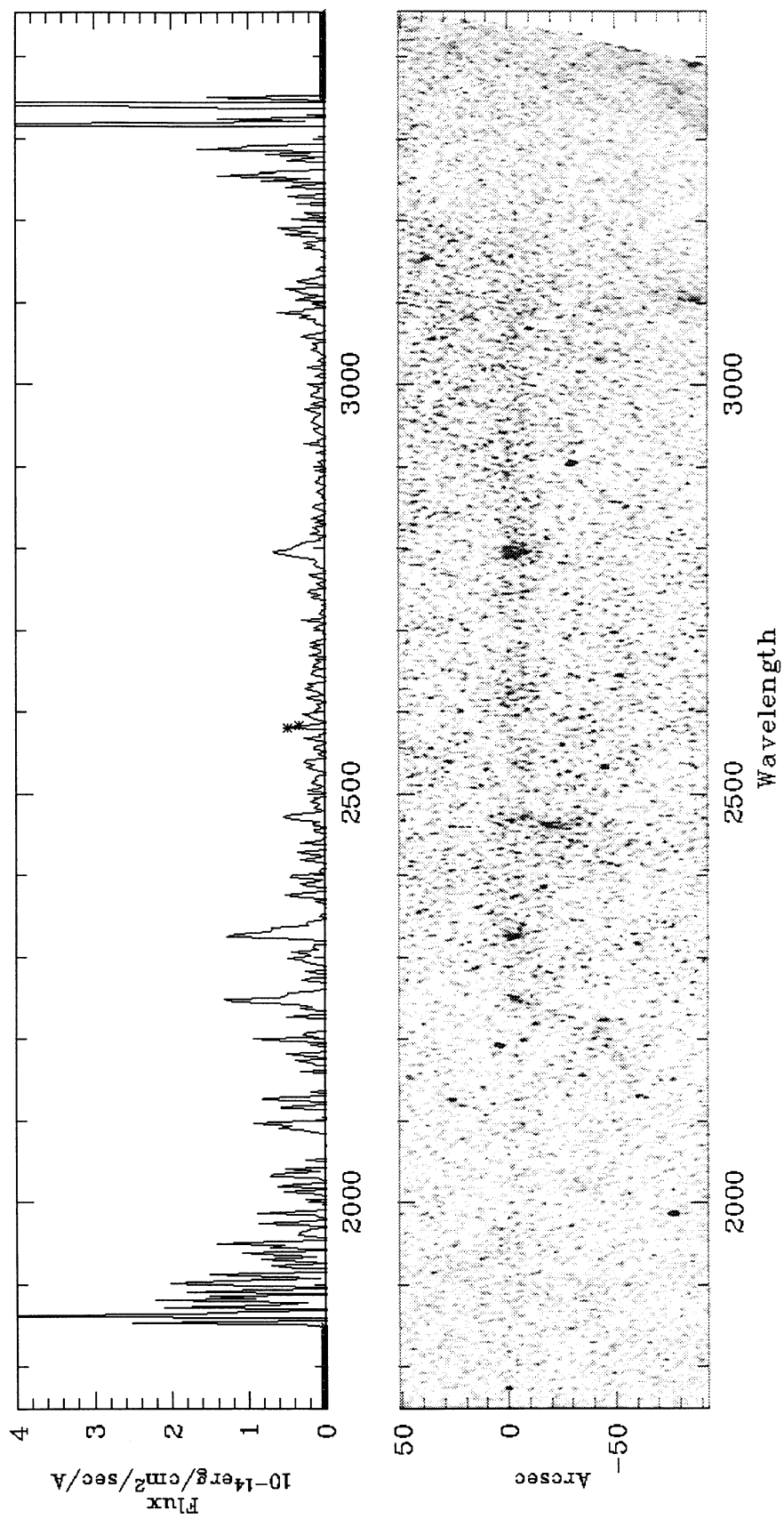


From the [S II] data in Eisloffel *et al.* (1994a)

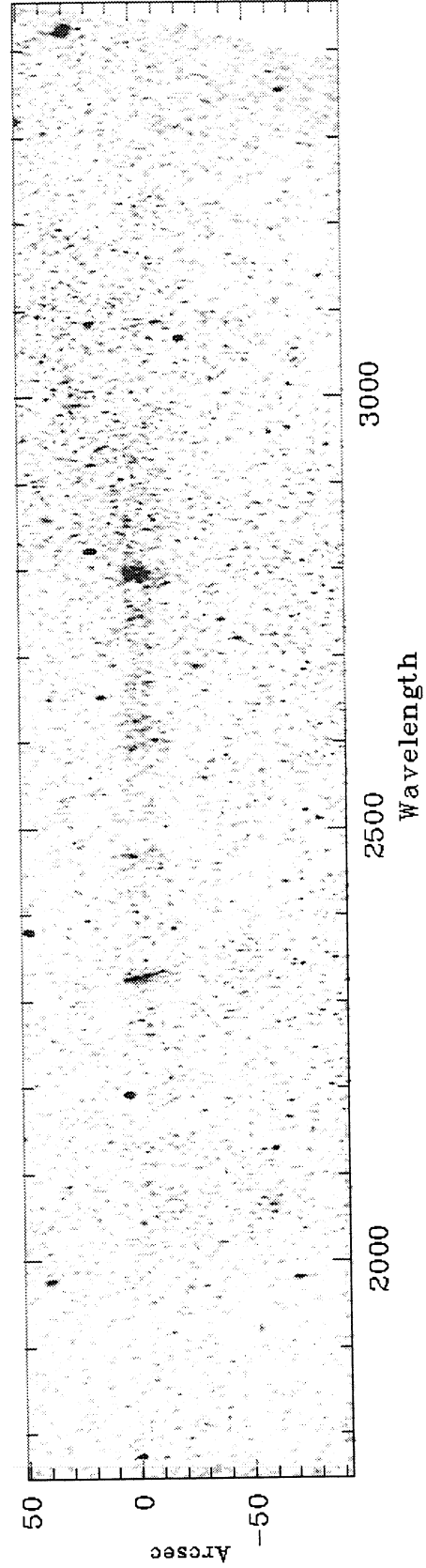
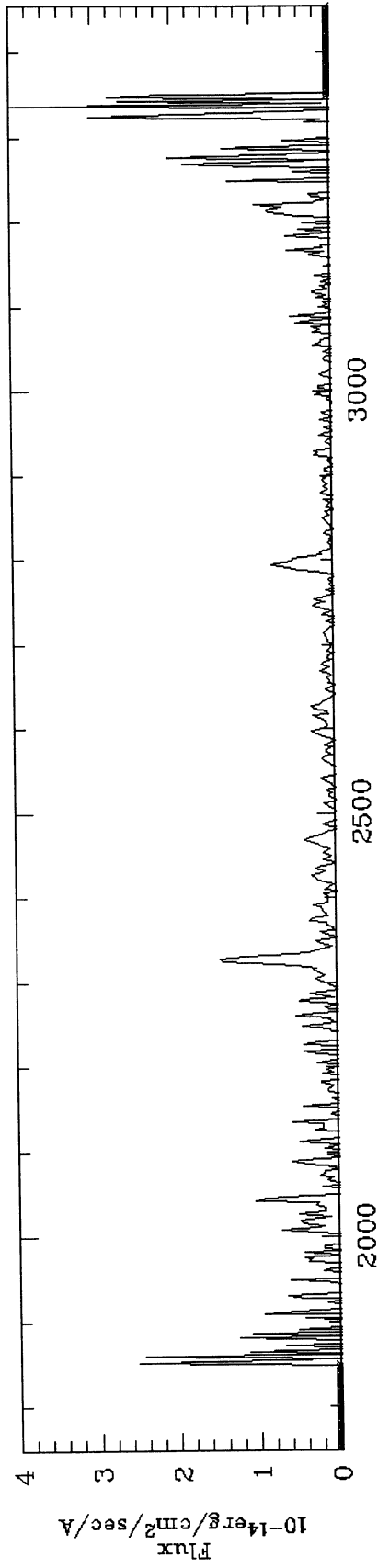
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWR	08888	$(3.8 \pm 0.5)\text{E-14}$	$(5.6 \pm 1.4)\text{E-14}$		
LWR	08909	$(4.2 \pm 0.6)\text{E-14}$	$(6.5 \pm 0.8)\text{E-14}$		
SWP	10218			$(9.3 \pm 2.3)\text{E-14}$	$(9.9 \pm 3.2)\text{E-14}$
SWP	10246			$(1.3 \pm 0.3)\text{E-13}$	$(2.2 \pm 0.8)\text{E-13}$
SWP	18157			$(1.2 \pm 0.2)\text{E-13}$	$(1.8 \pm 0.6)\text{E-13}$

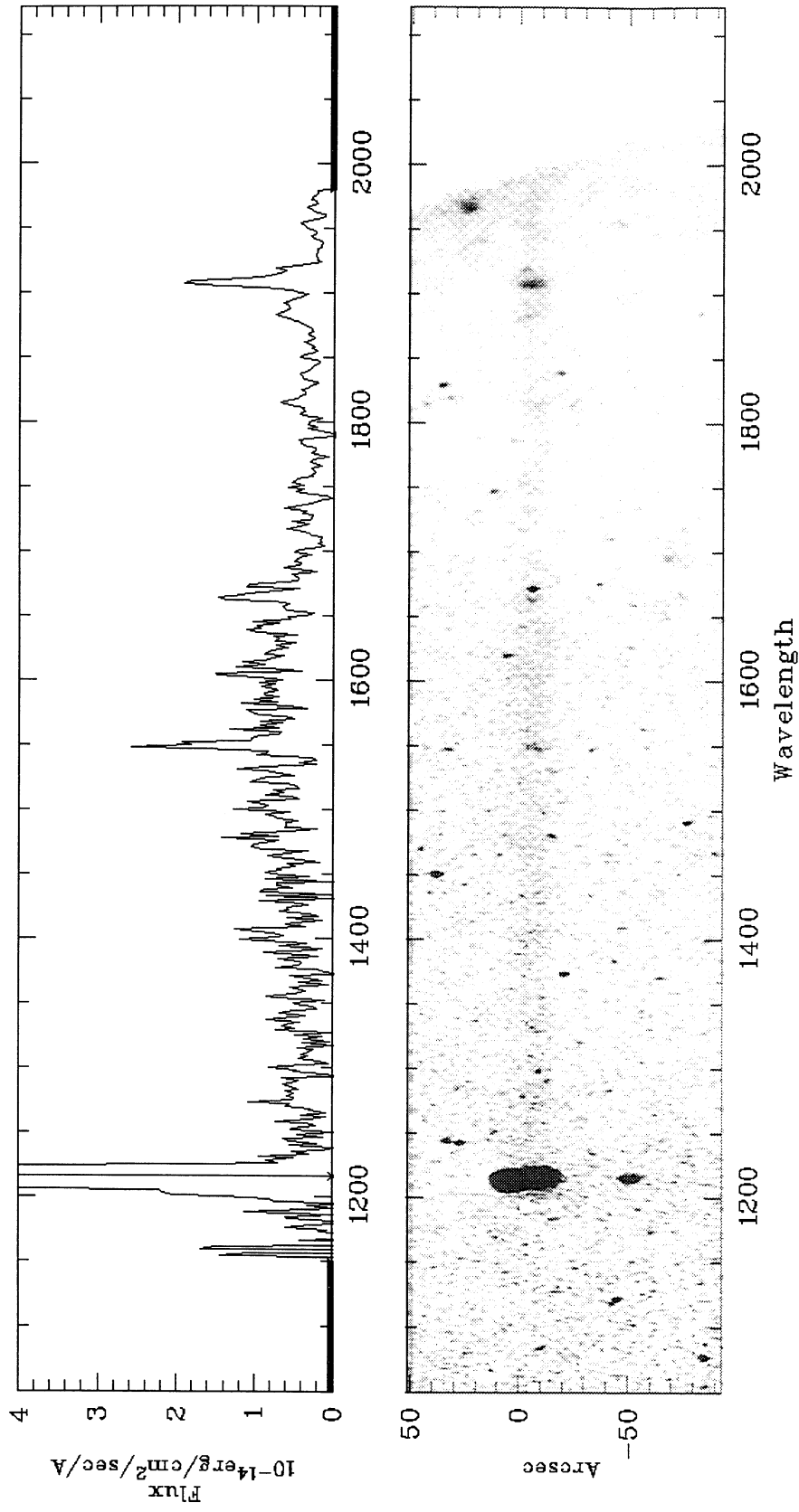
LWR08888



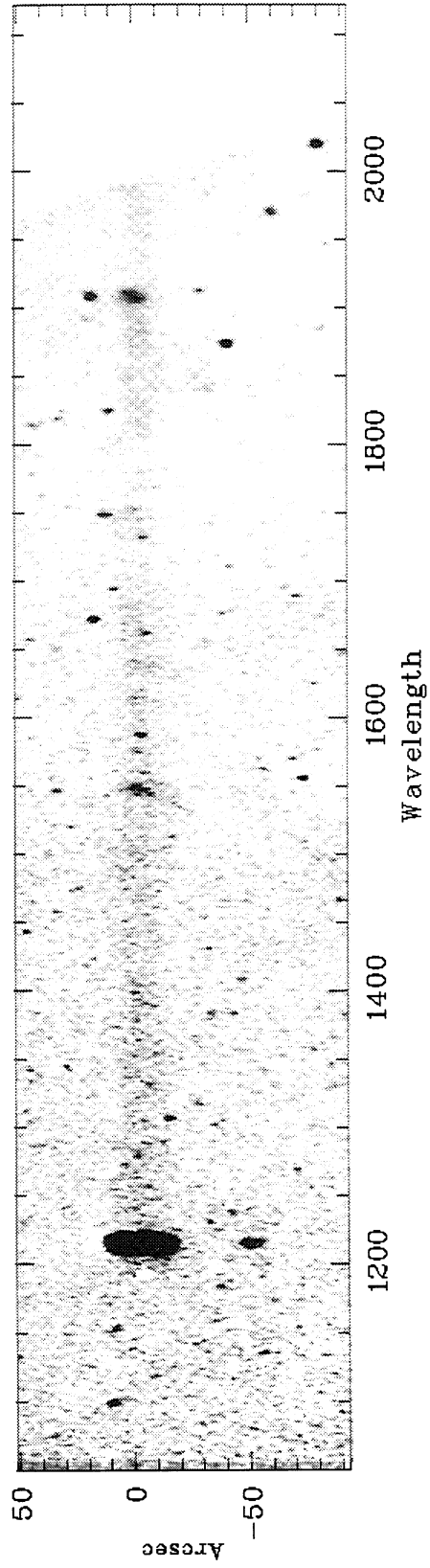
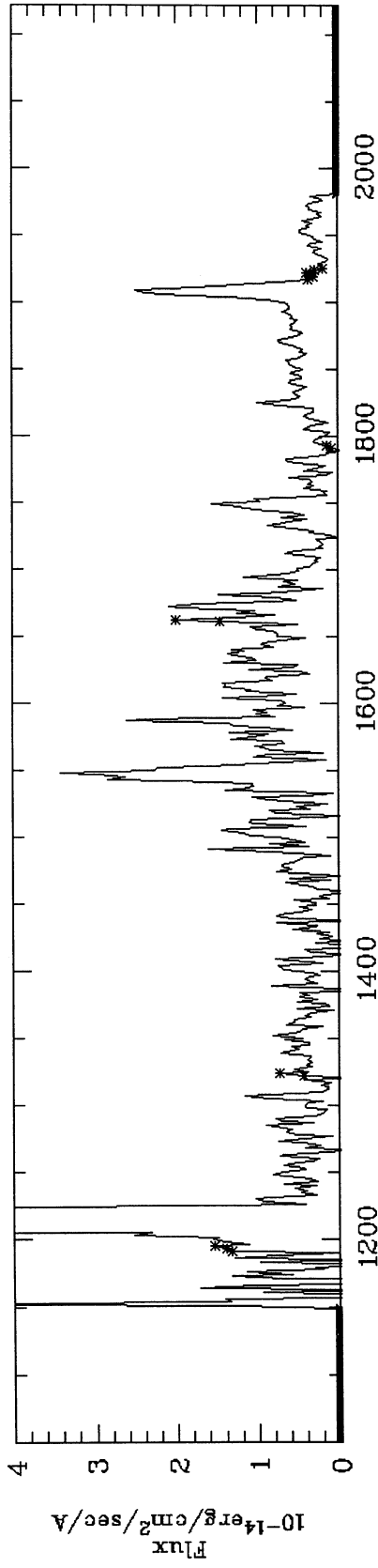
LWR08909



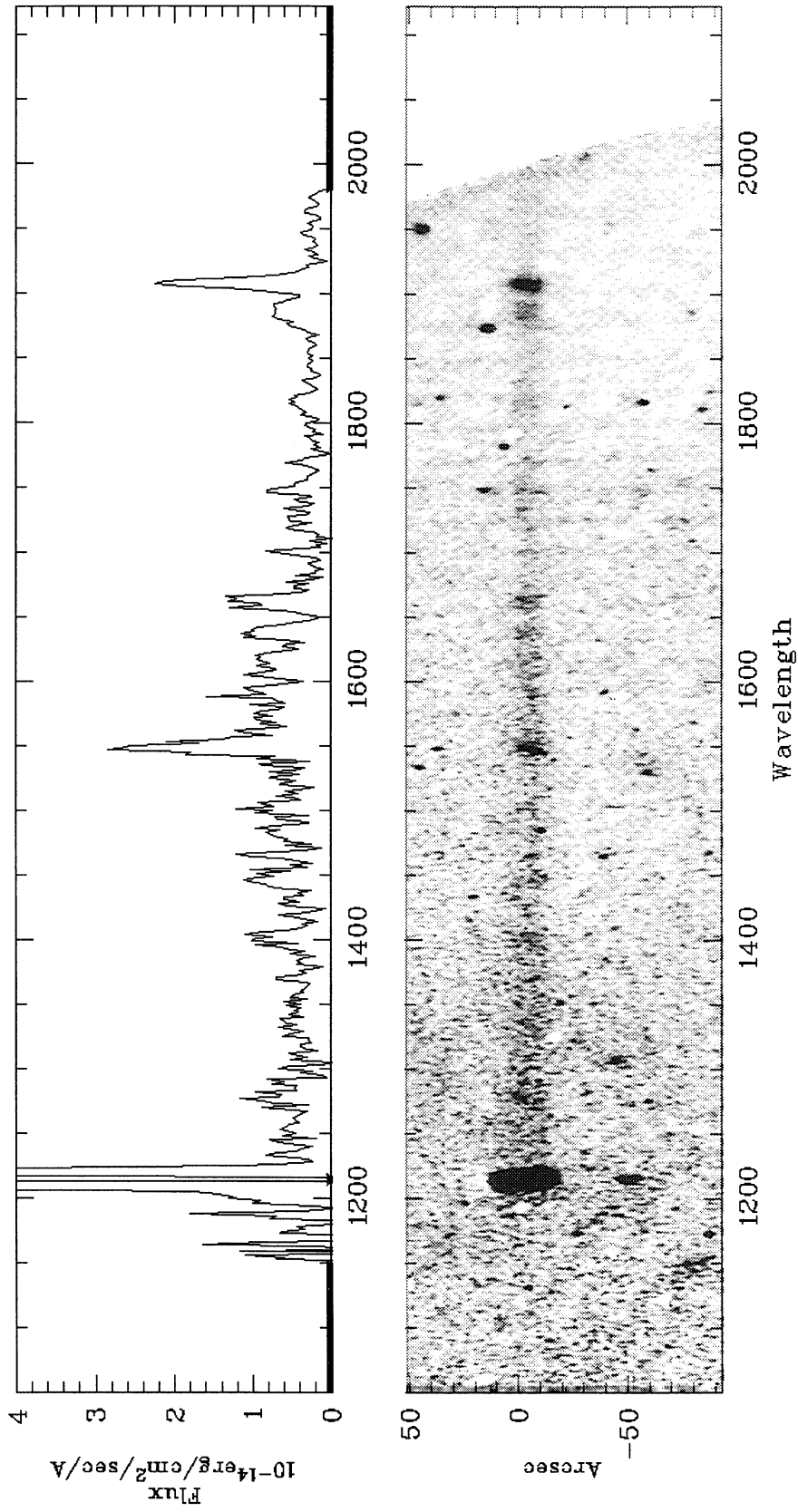
SWP10218



SWP10246

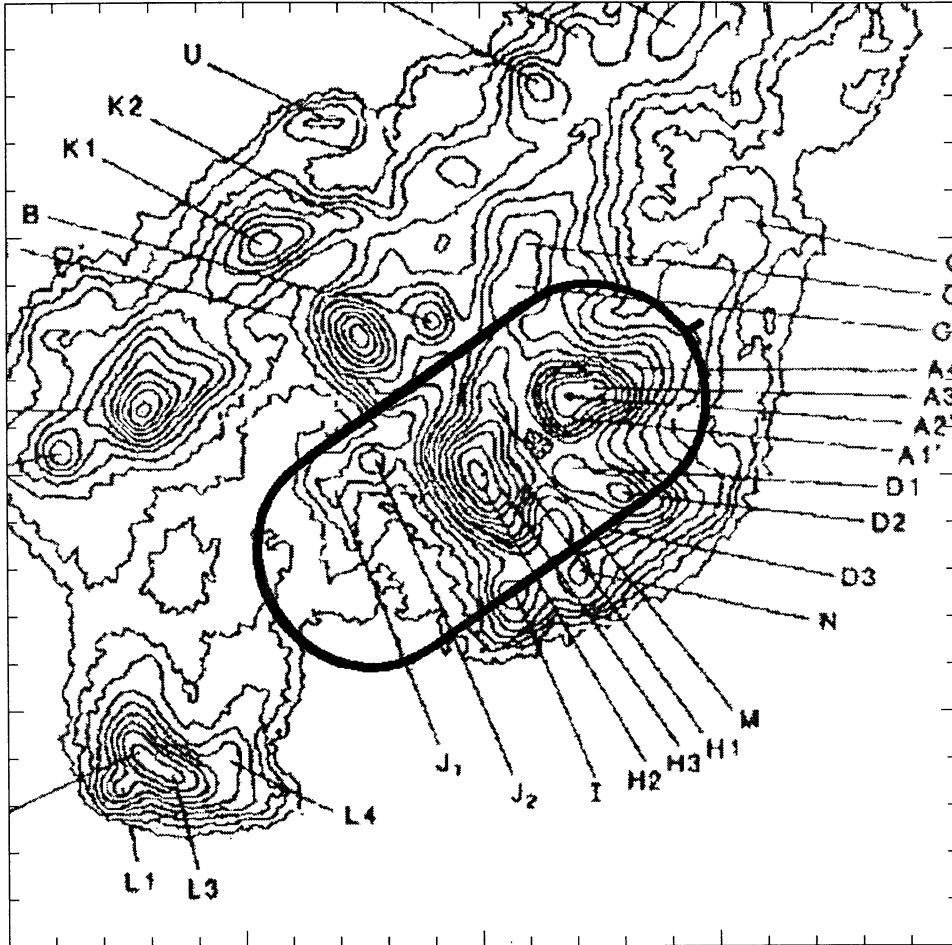


SWP18157



HH 2

CENTER = HH2H PA = 305°
 $\alpha_C = 5^h 33^m 59^s.69$ $\delta_C = -6^\circ 49' 03''.8$

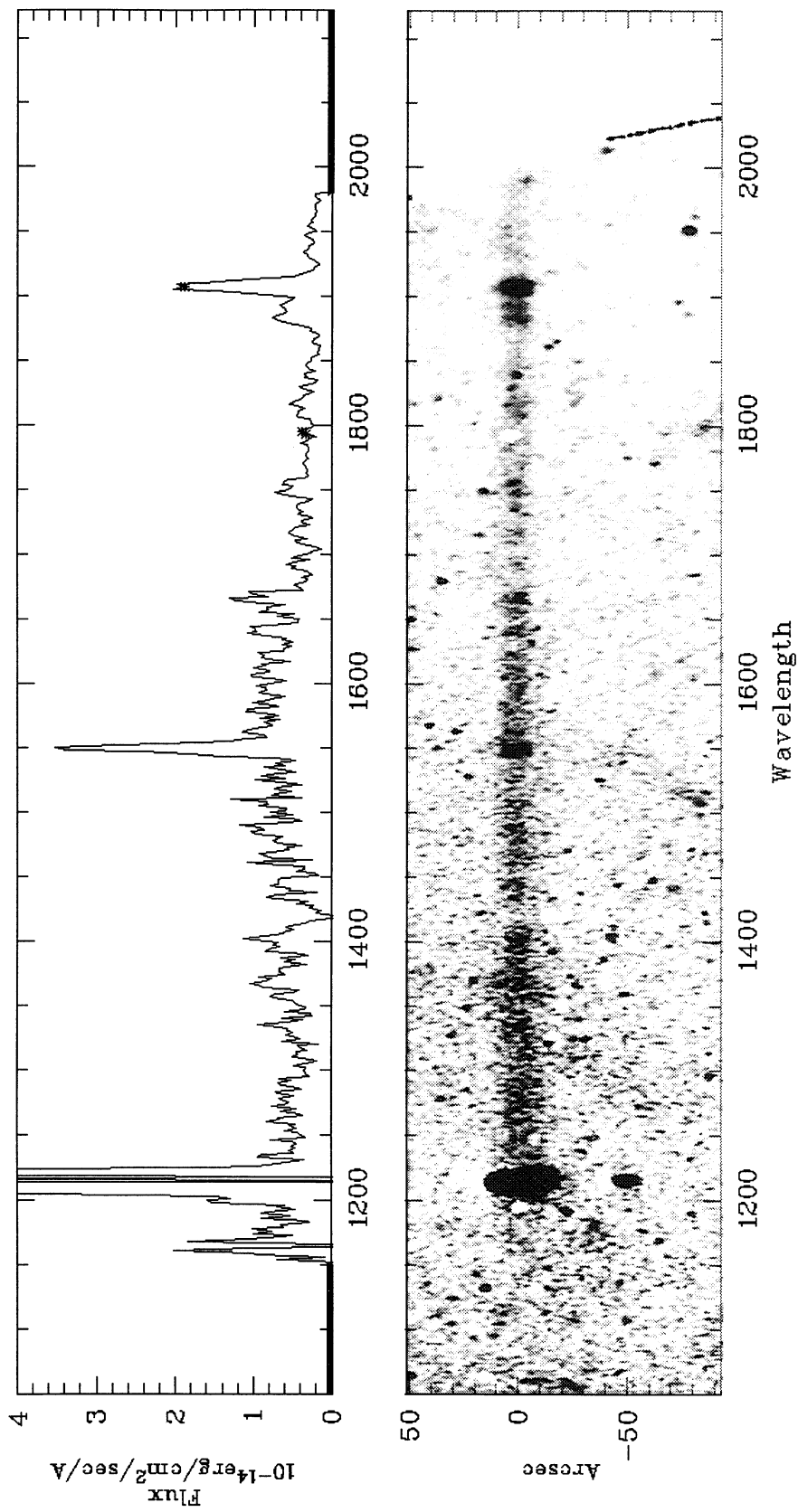


From the [S II] data in Eislöffel *et al.* (1994a)

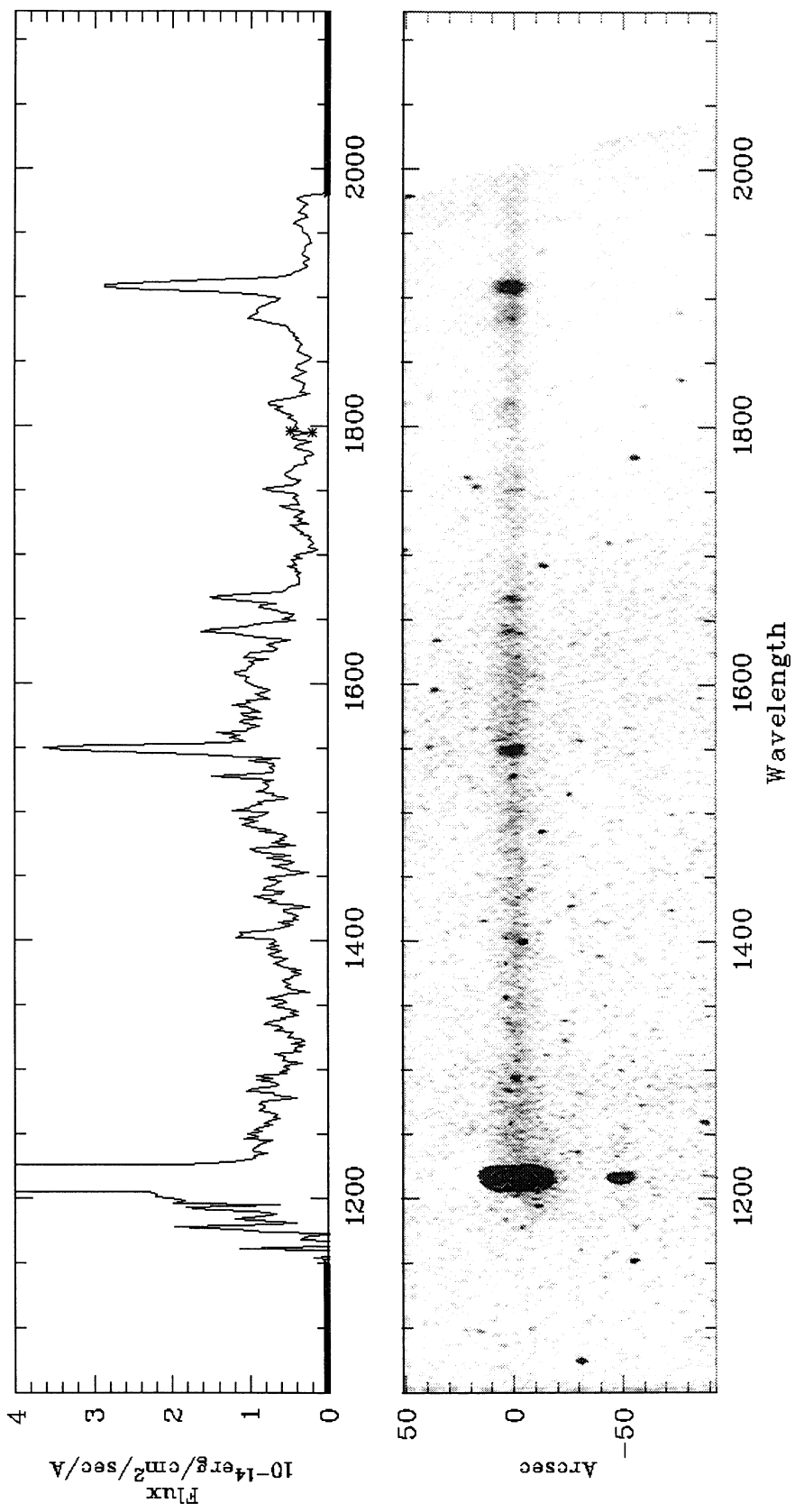
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	24919			$(1.3 \pm 0.2)\text{E-13}$	$(1.9 \pm 0.7)\text{E-13}$
SWP	40663			$(1.6 \pm 0.3)\text{E-13}$	$(1.7 \pm 0.6)\text{E-13}$

SWP24919

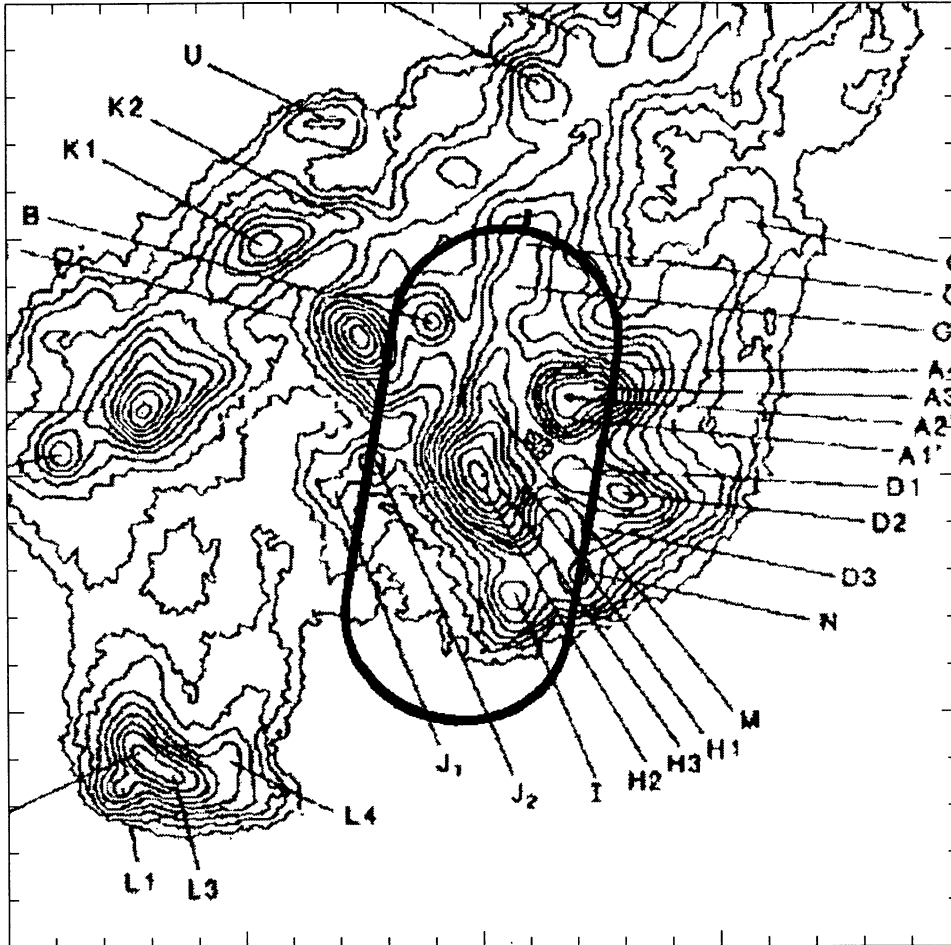


SWP40663



HH 2

CENTER = HH2H PA = 350°
 $\alpha_C = 5^h 33^m 59^s.69$ $\delta_C = -6^\circ 49' 03''.8$

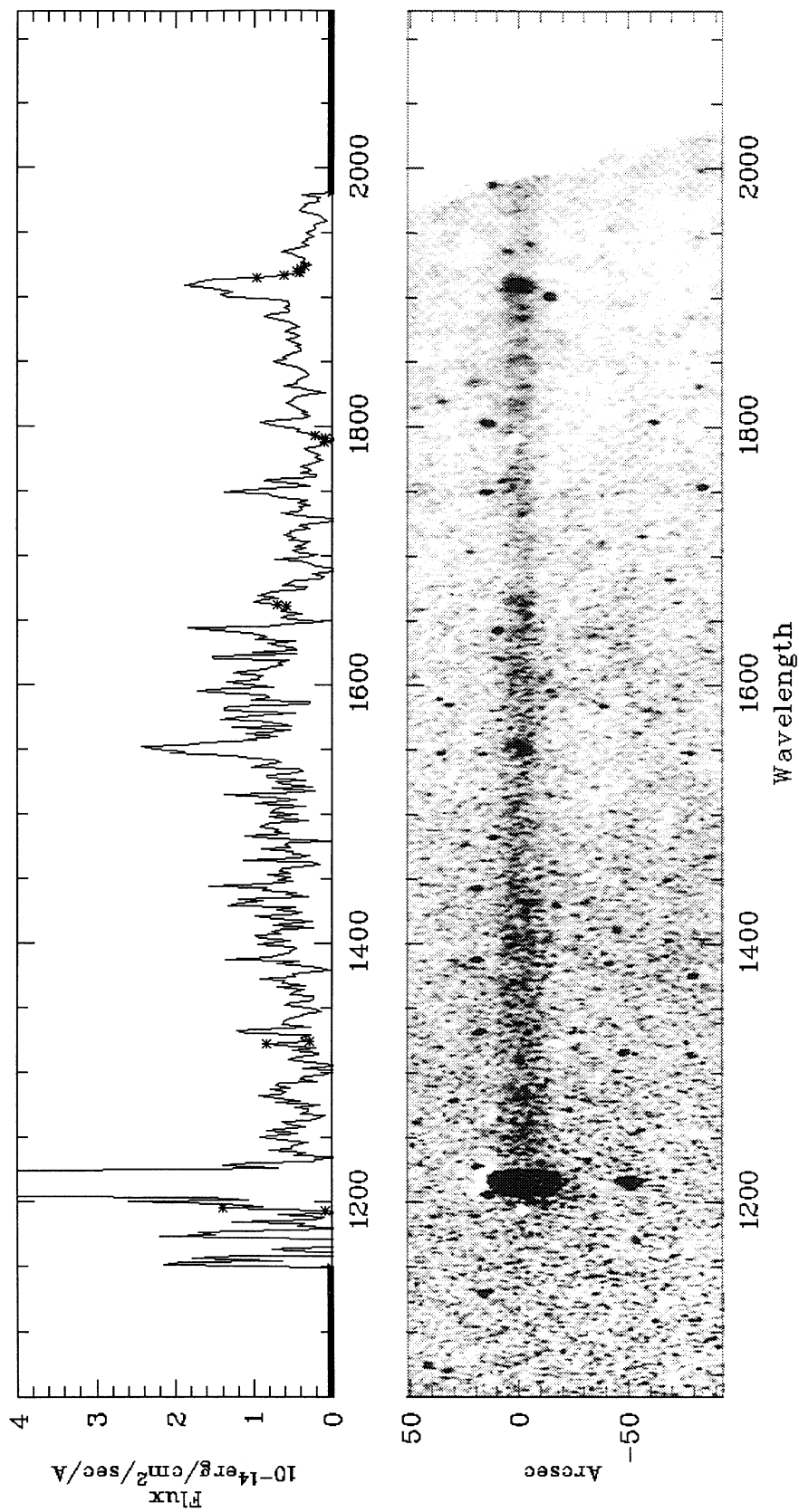


From the [S II] data in Eislöffel *et al.* (1994a)

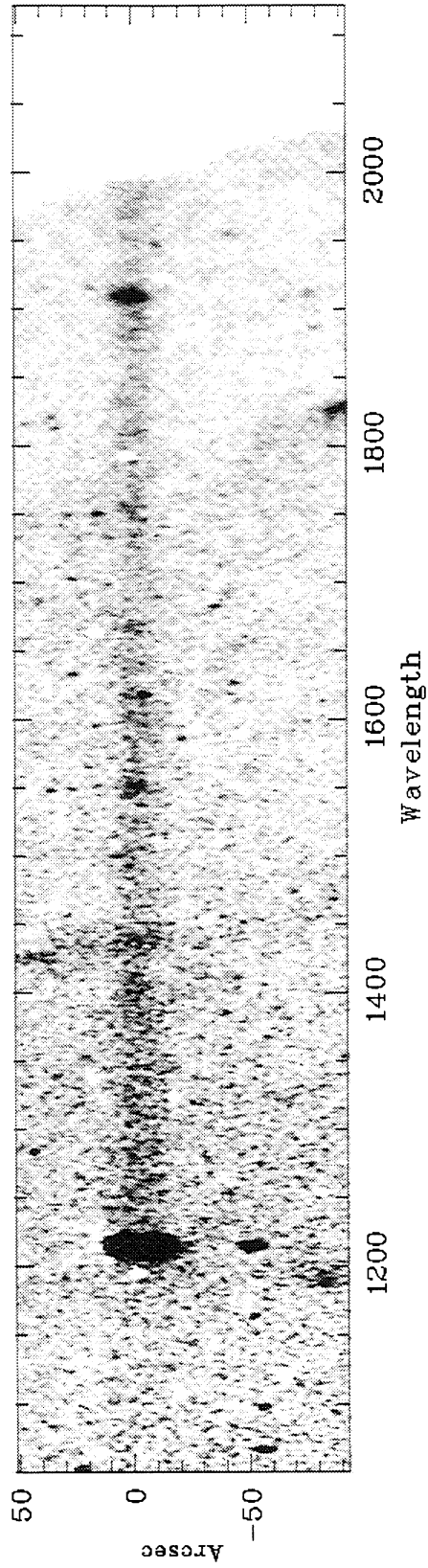
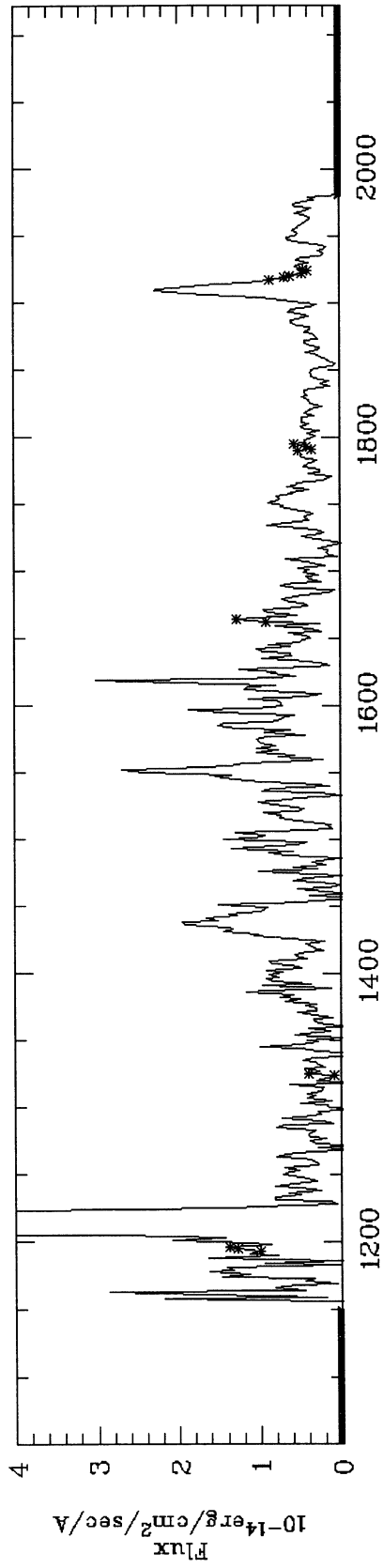
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	16671			$(1.6 \pm 0.5)\text{E-13}$	$(1.4 \pm 0.7)\text{E-13}$
SWP	19685			$(1.4 \pm 0.3)\text{E-13}$	$(1.5 \pm 0.7)\text{E-13}$

SWP16671



SWP19685



HH 43

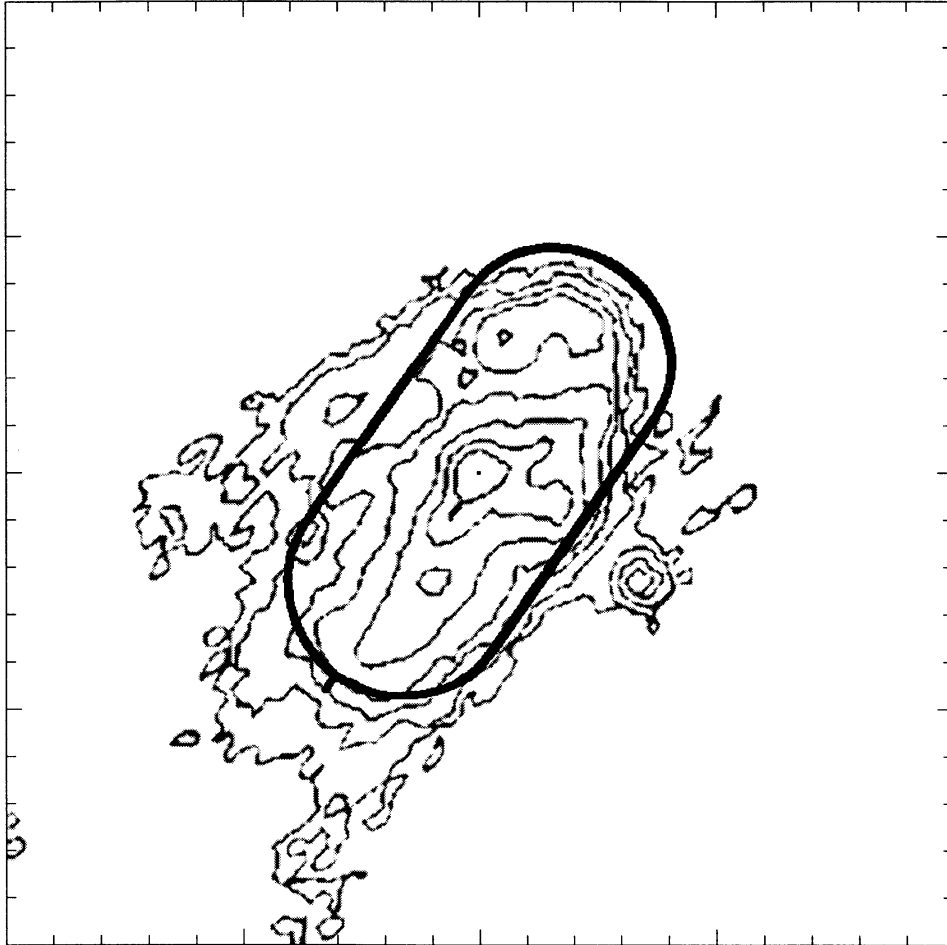
Alternative names :	Haro 14a
Type :	LEO [3]
Coordinates :	$\alpha_{1950} = 5^h 35^m 45^s.4$ $\delta_{1950} = -7^\circ 11' 04''$
Proper motion :	$\mu_\alpha \cos \delta =$ $\mu_\delta =$
Radial velocity :	-26 km s^{-1} [40]
Suspected source :	HH 43 IRS 1
Region :	L1641
Distance :	470 pc
Characteristic size :	$15'' \times 30''$
Associated with molecular outflow :	No [12]
P.A. of jet :	$\sim 135^\circ$

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWP	04041	L	L	20-08-84	420.0	E=154,C=138,B=105	146.15
2	SWP	17522	L	L	30-07-82	390.0	C=150,B=112	131.86
3	SWP	23749	L	L	22-08-84	425.0	C=140,B=95	147.27
4	SWP	23881	L	L	05-09-84	597.0	C=210,B=145	205.09
5	SWP	24924	L	L	18-01-85	580.0	C=170,B=130	304.30
6	SWP	27472	L	L	08-01-86	500.0	C=173,B=153	292.23
7	SWP	31828	L	L	11-09-87	781.0	C=190,B=138	157.71

HH 43

CENTER = HH43B PA = 145°
 $\alpha_C = 5^h 35^m 45^s.4$ $\delta_C = -7^\circ 11' 03''.4$

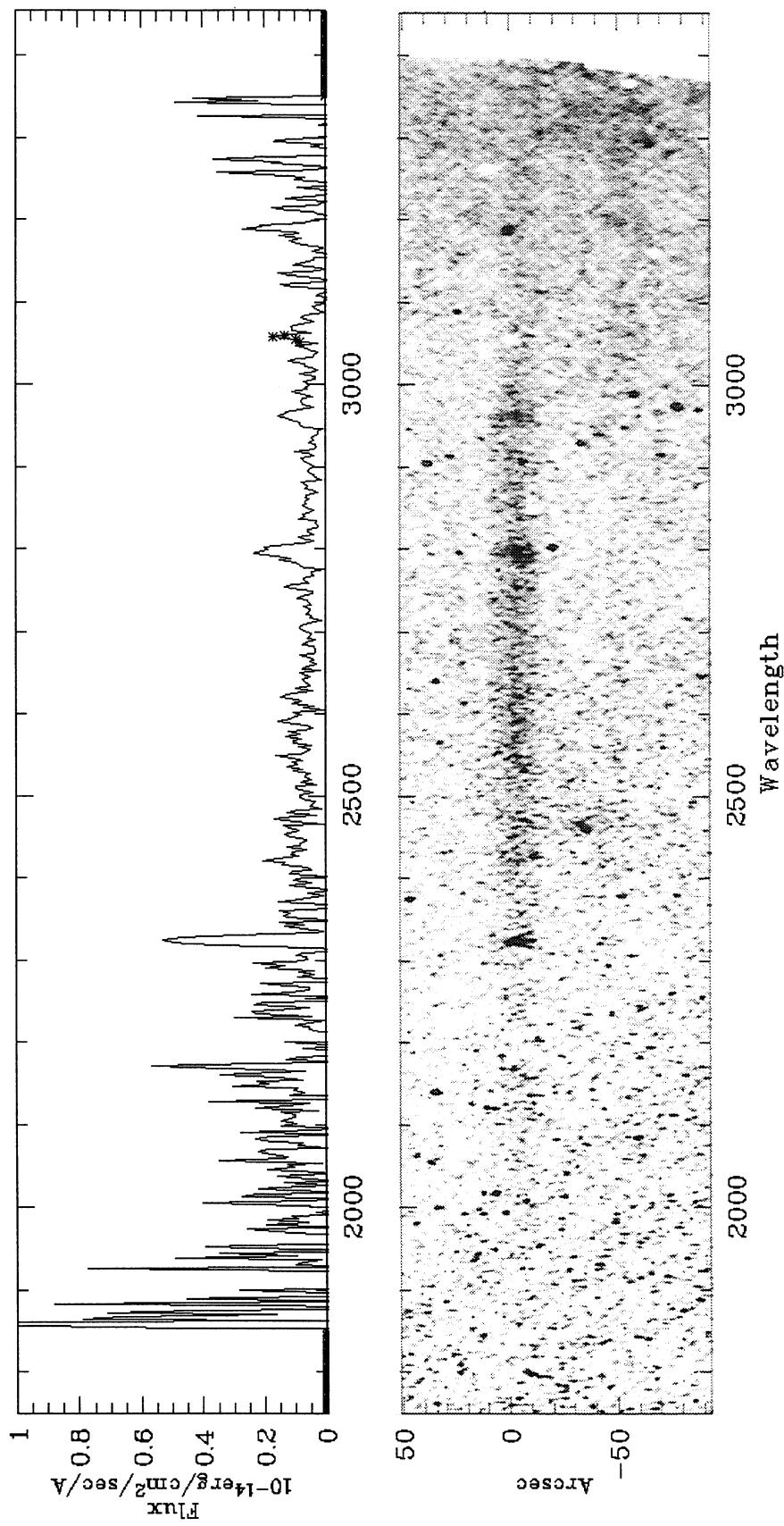


From the [S II] data in Schwartz *et al.* (1988)

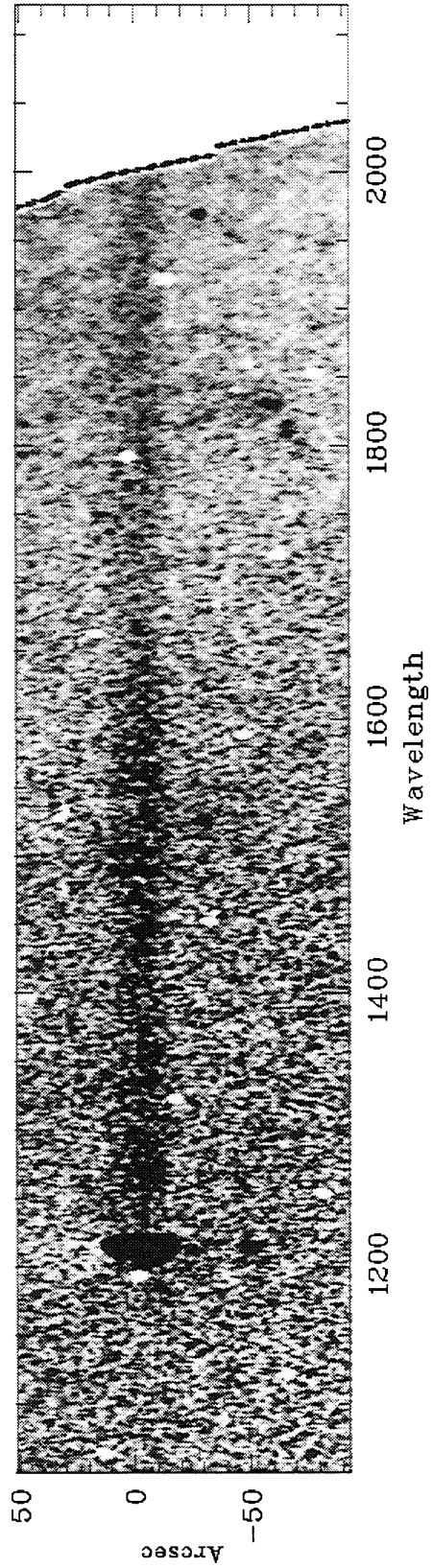
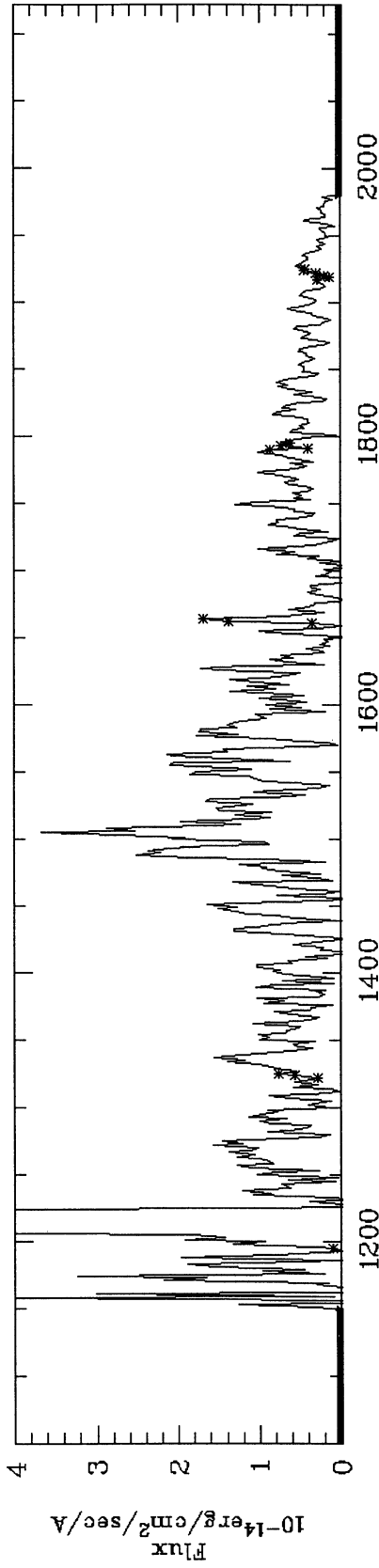
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWP	04041				
SWP	17522				
SWP	23749				
SWP	31828				

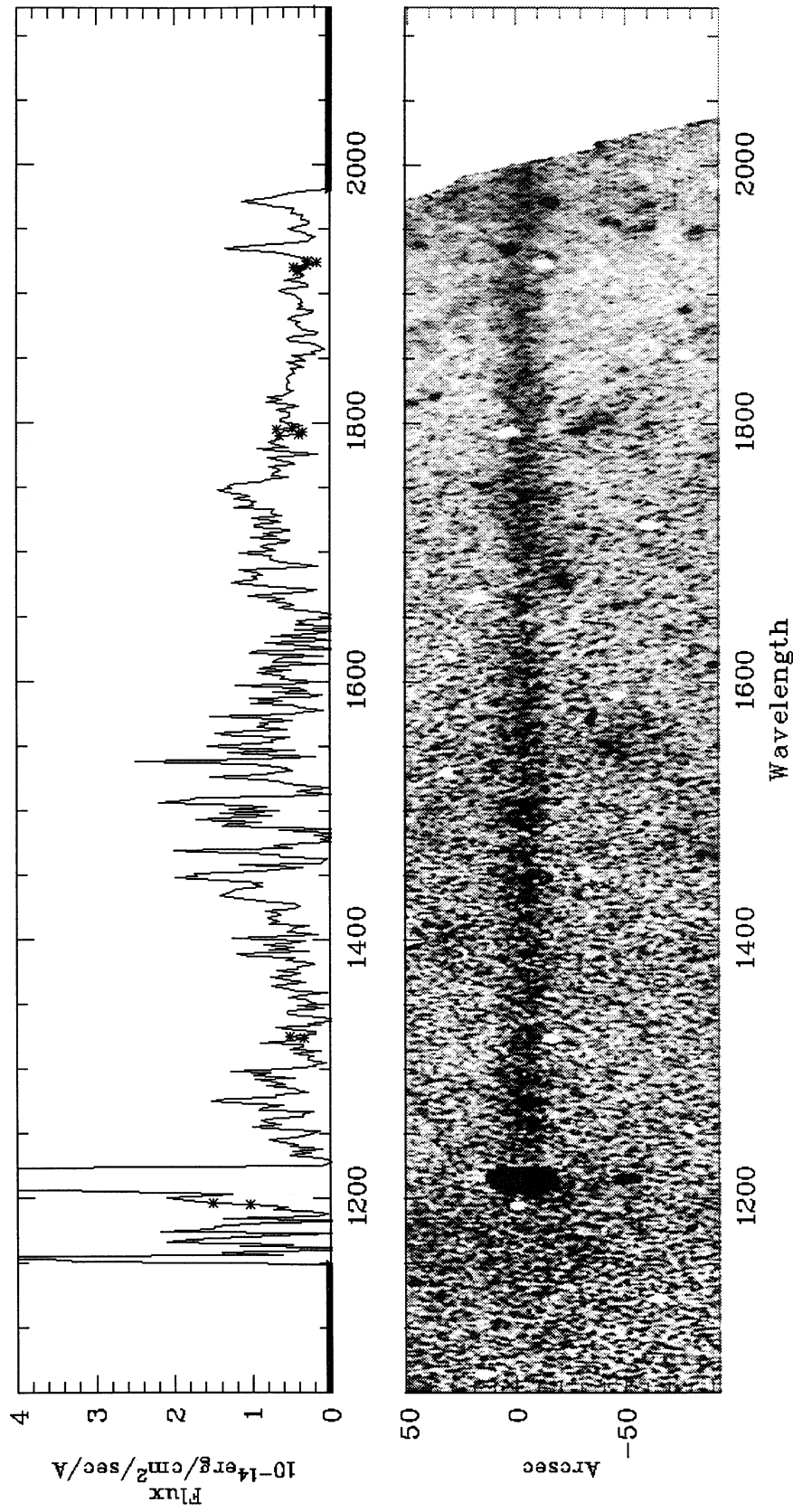
LWPO4041



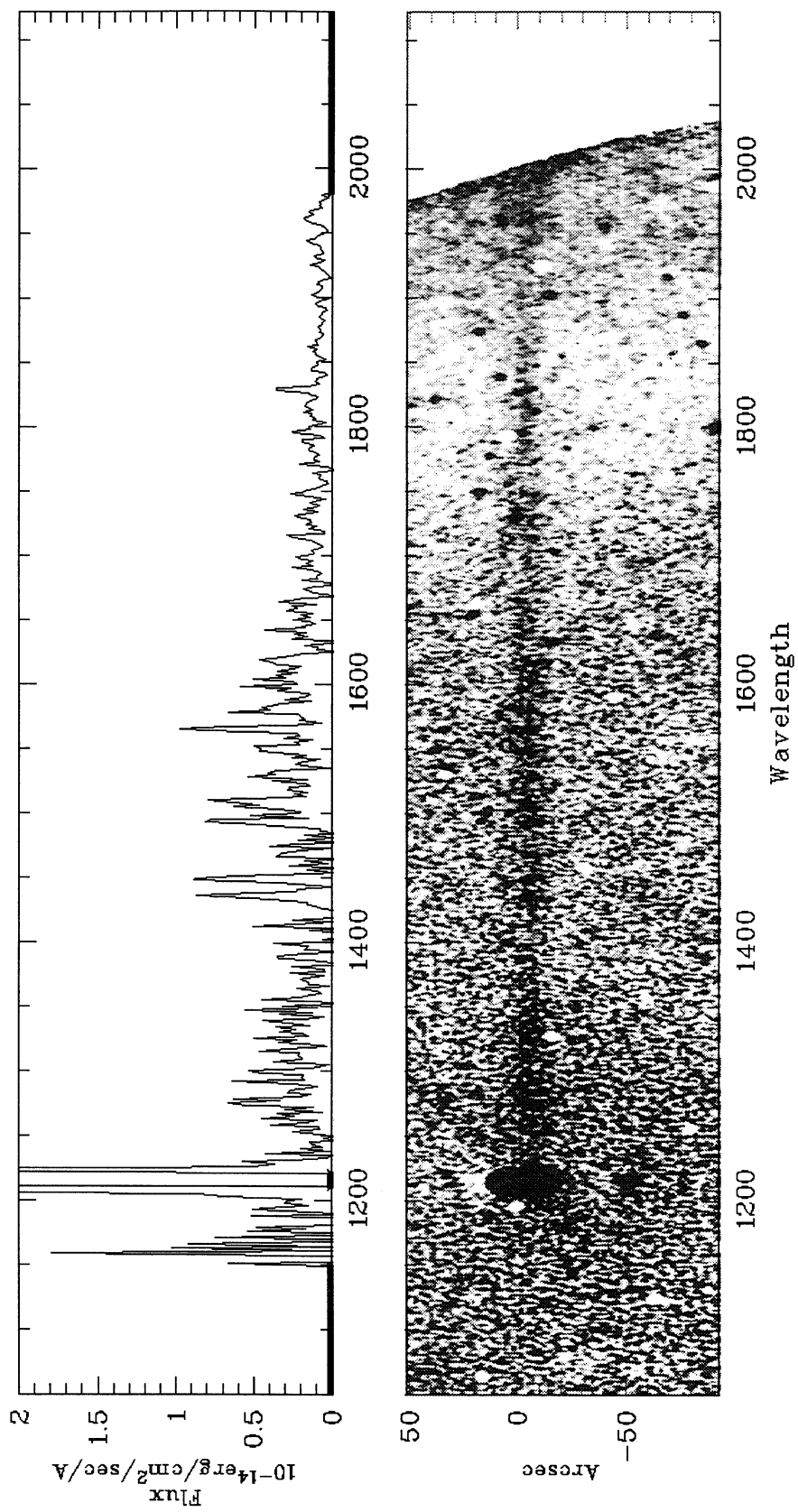
SWP17522



SWP23749

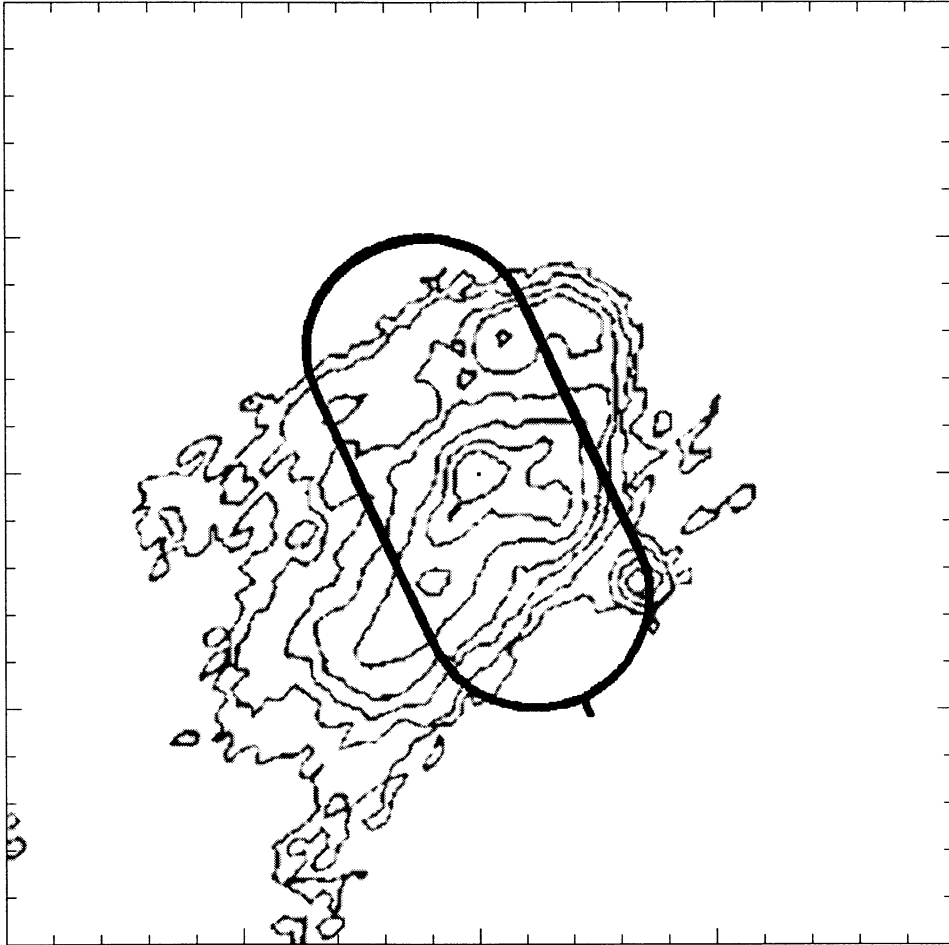


SWP31828



HH 43

CENTER = HH43B PA = 205°
 $\alpha_C = 5^h 35^m 45^s.4$ $\delta_C = -7^\circ 11' 03''.4$

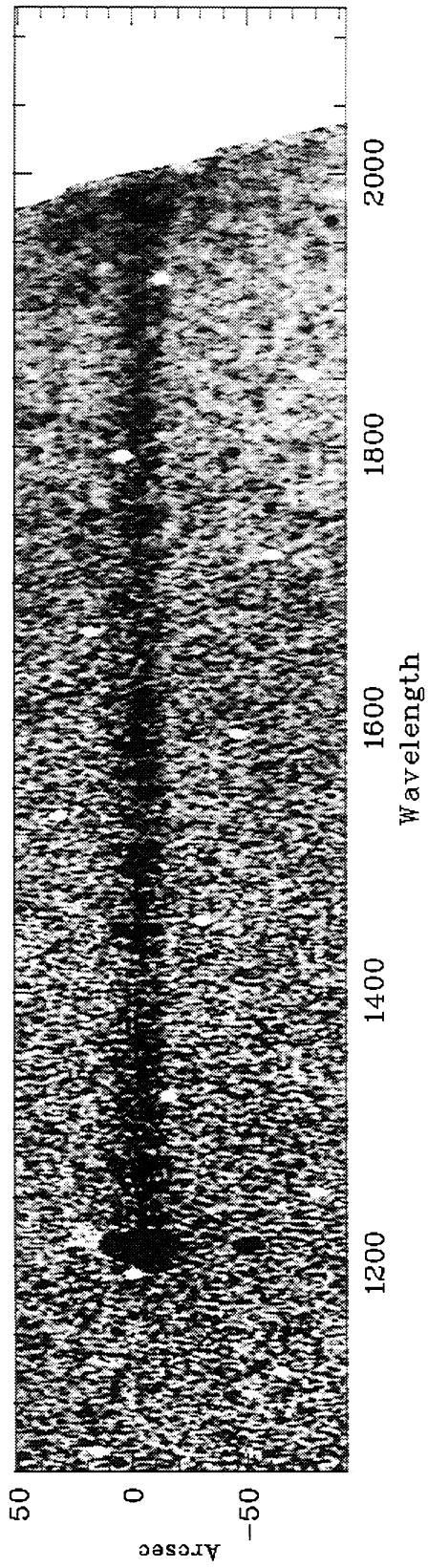
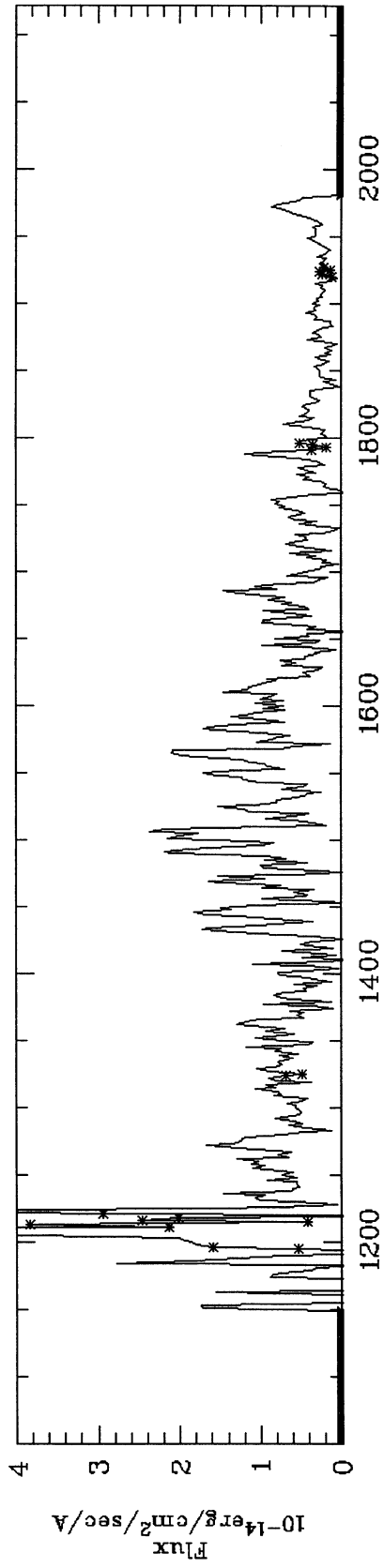


From the [S II] data in Schwartz *et al.* (1988)

IUE Data:

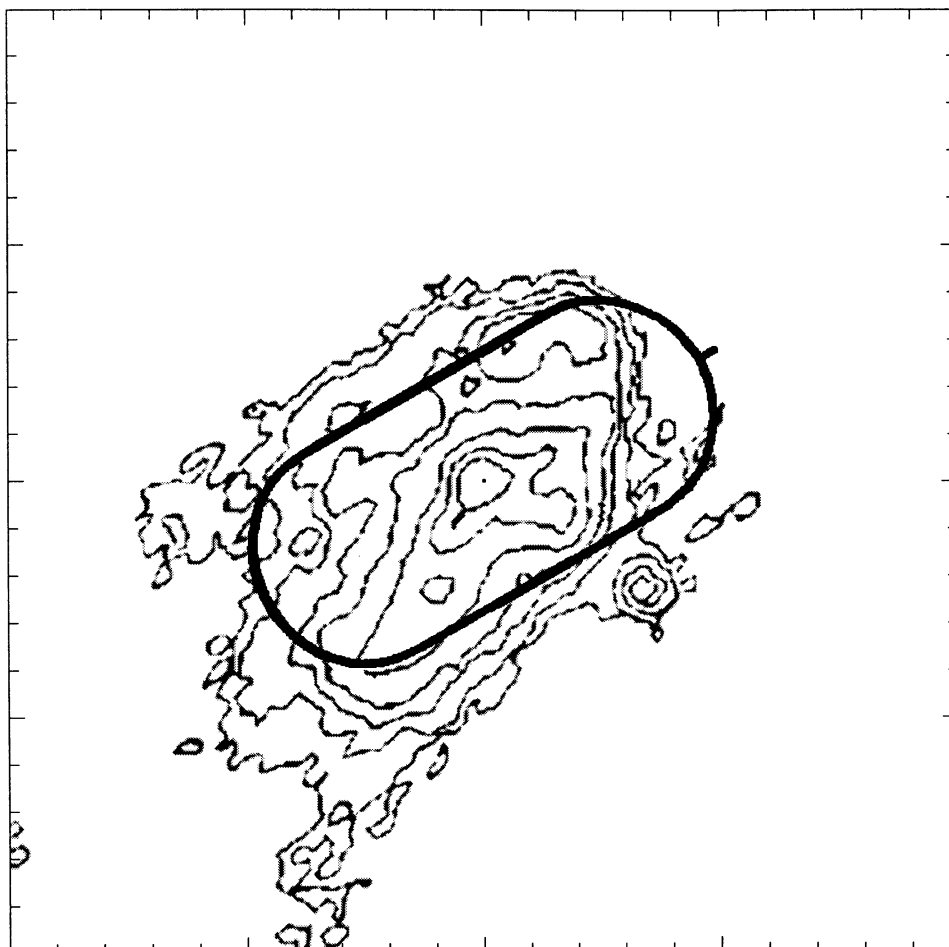
Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	23881				

SWP23881



HH 43

CENTER = HH43B PA = 300°
 $\alpha_C = 5^h 35^m 45^s.4$ $\delta_C = -7^\circ 11' 03''.4$

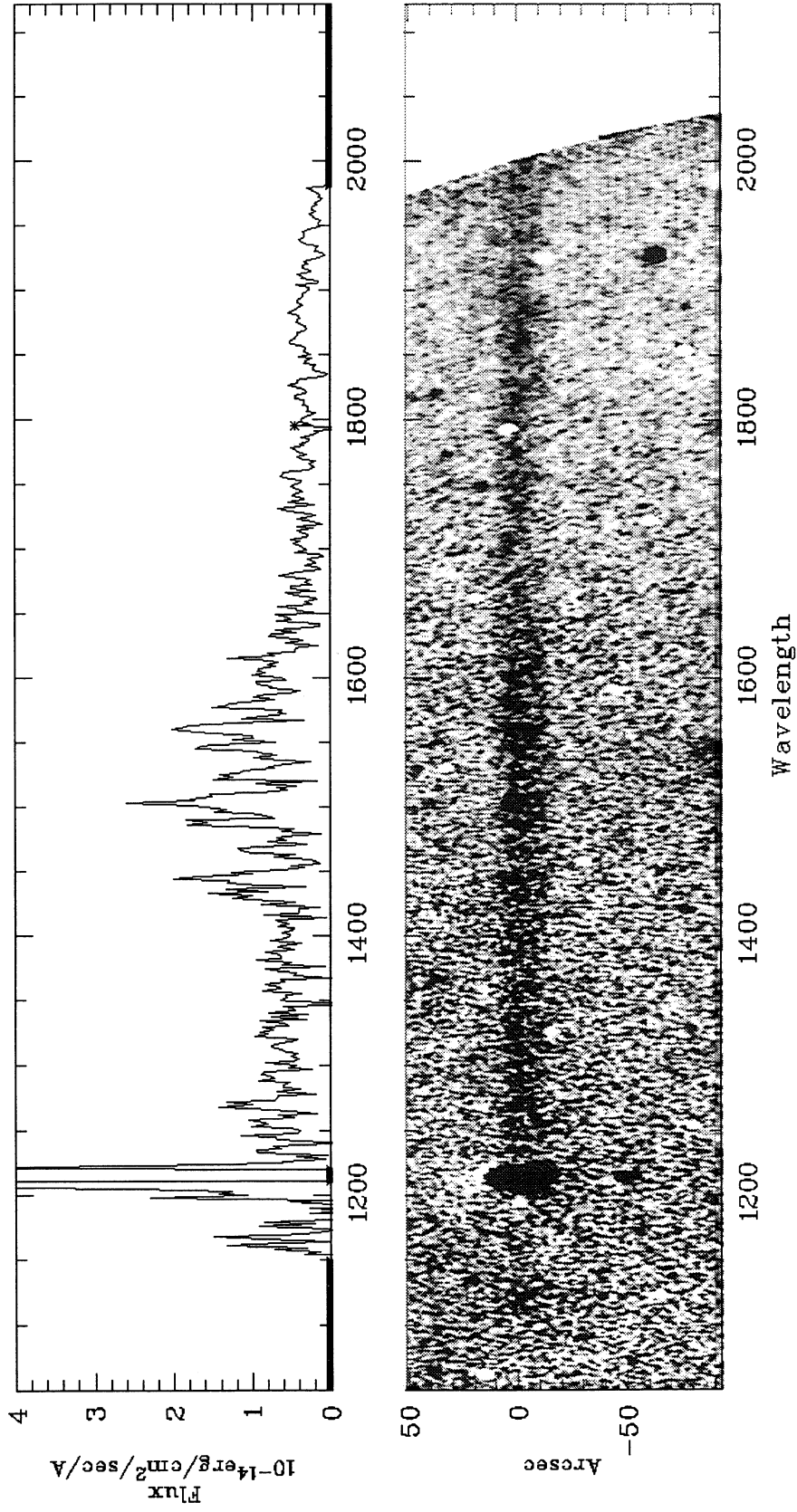


From the [S II] data in Schwartz *et al.* (1988)

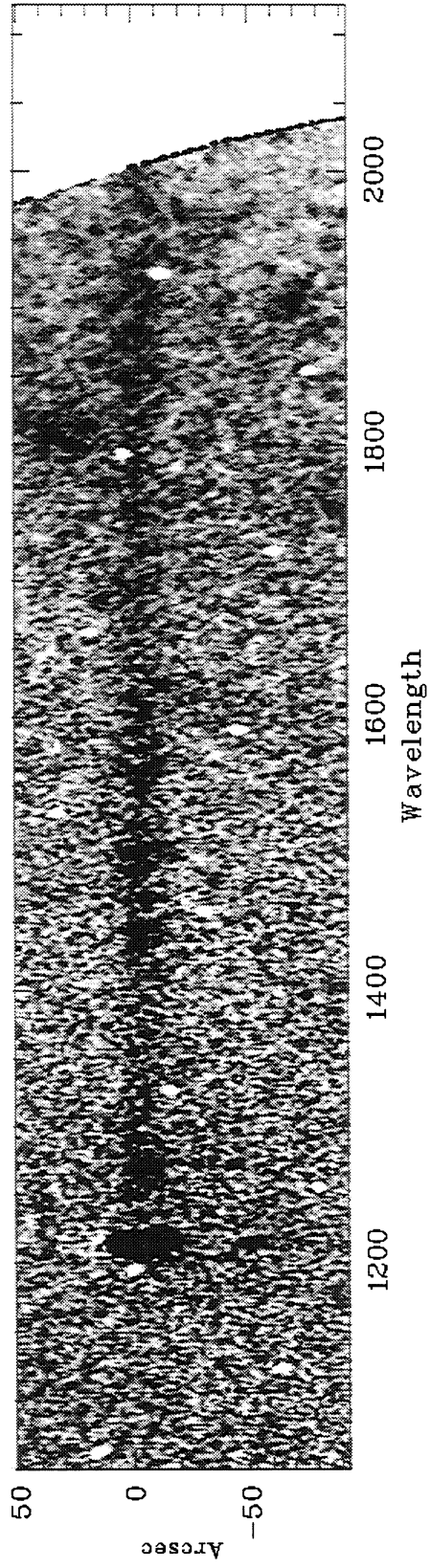
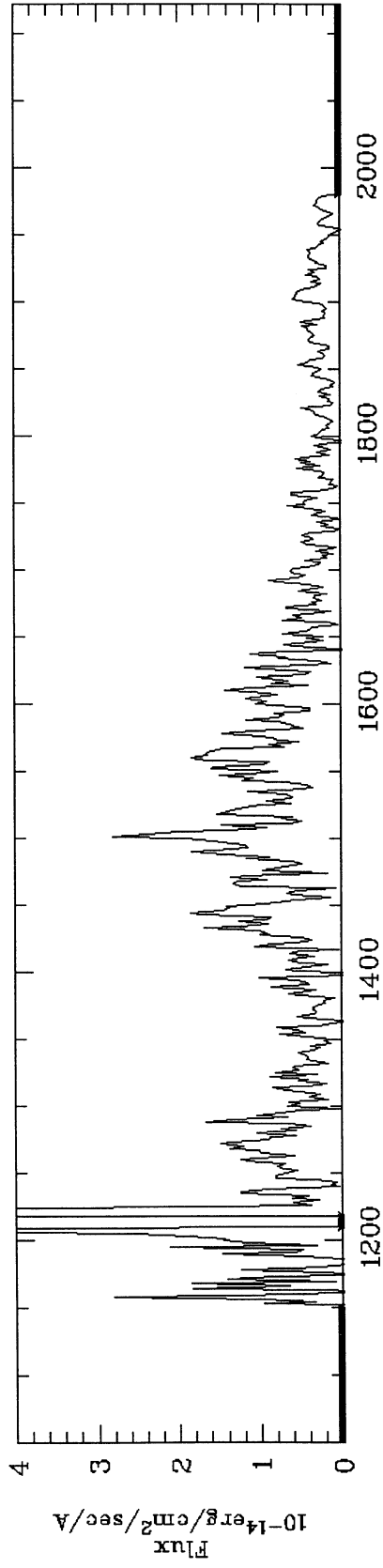
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	24924				
SWP	27472				

SWP24924



SWP27472



HH 24

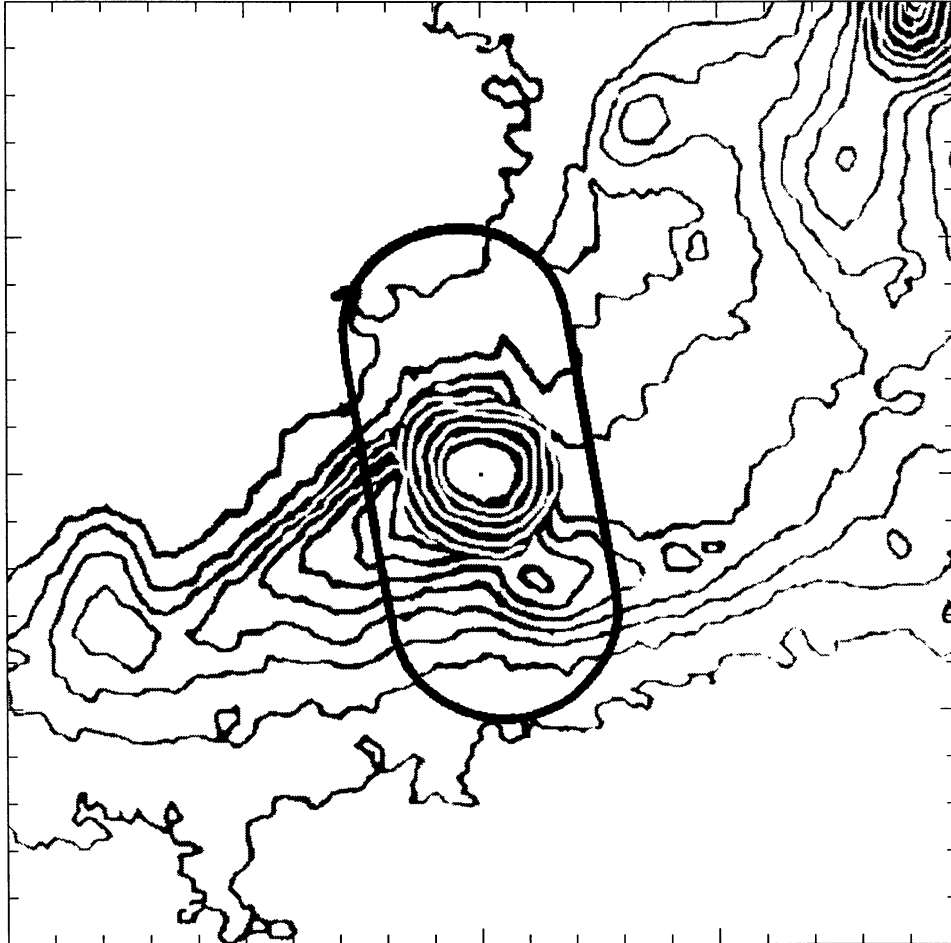
Alternative names :		
Type :	Undetermined	[3]
Coordinates :		
	$\alpha_{1950} =$	$5^h \quad 43^m \quad 36^s.1$
	$\delta_{1950} =$	$-0^\circ \quad 11' \quad 02''$
Proper motion (Knot A) :		
	$\mu_\alpha \cos \delta =$	$-1''.4 \pm 0''.5 \text{ cen}^{-1}$
	$\mu_\delta =$	$-0''.8 \pm 1''.0 \text{ cen}^{-1}$
Radial velocity (Knot A):	$+47 \text{ km s}^{-1}$	[38]
Suspected source :	SSV 63	
Region :	NGC 2068	
Distance :	470 pc	
Characteristic size :	$40'' \times 20''$	
Associated with molecular outflow :	Yes	[12]
P.A. of jet (CE jet):	338°	[24]

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWP	03140	L	L	10-04-84	120.0	B=168	351.65
2	SWP	21518	L	L	11-11-83	560.0	C=130,B=100	189.10
3	SWP	21774	L	L	15-12-83	120.0	B=90	242.43
4	SWP	22708	L	L	10-04-84	485.0	C=140,B=122	351.65
5	SWP	38033	L	L	16-01-90	680.0	C=121,B=92	306.67
6	SWP	38102	L	L	31-01-90	585.0	C=105,B=81	319.69

HH 24

CENTER = HH24A PA = 190°
 $\alpha_C = 5^h 43^m 35^s.66$ $\delta_C = -0^\circ 11' 31''.4$

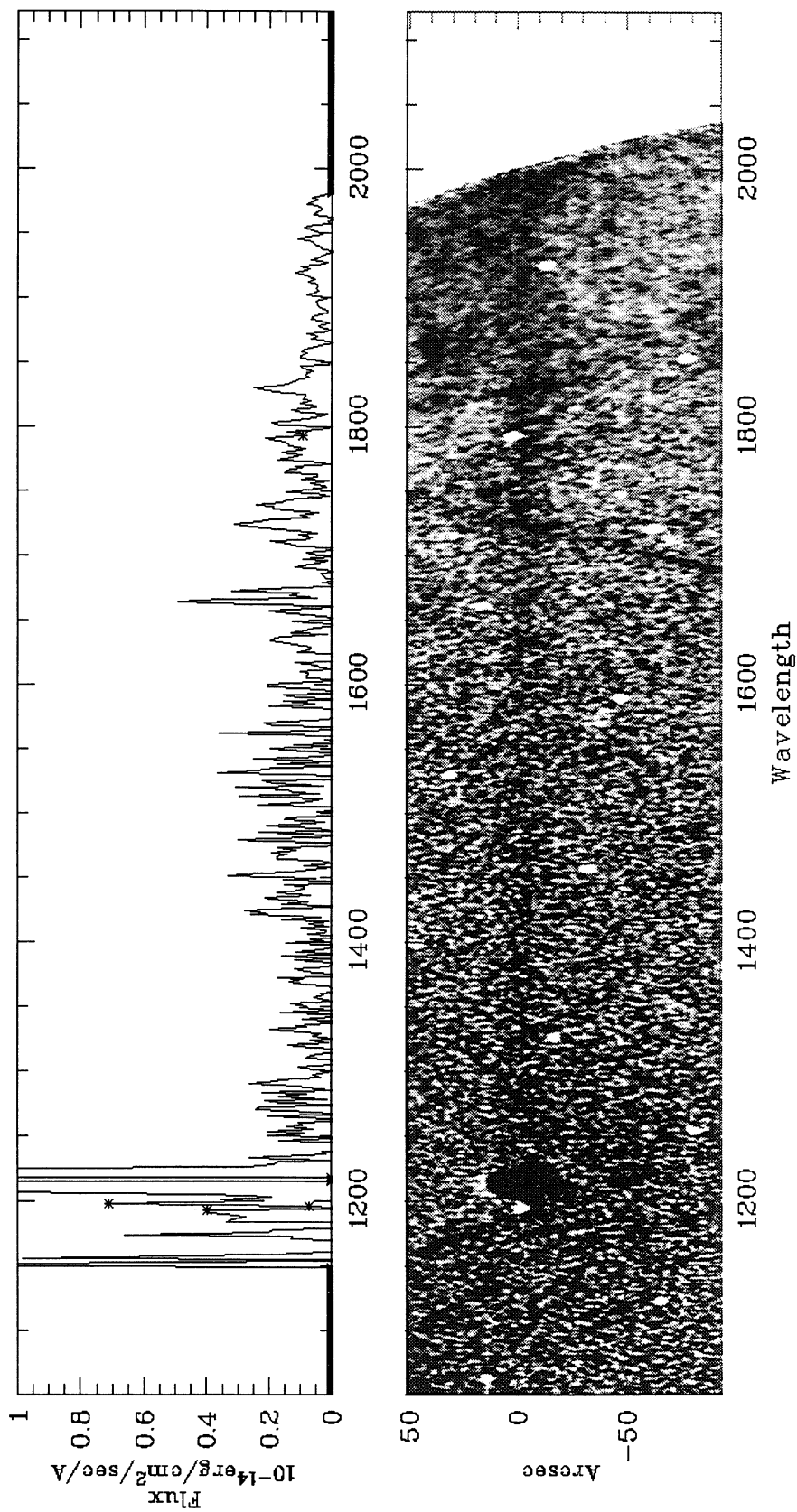


From the 6200 – 7000 Å band data in Solf (1987)

IUE Data:

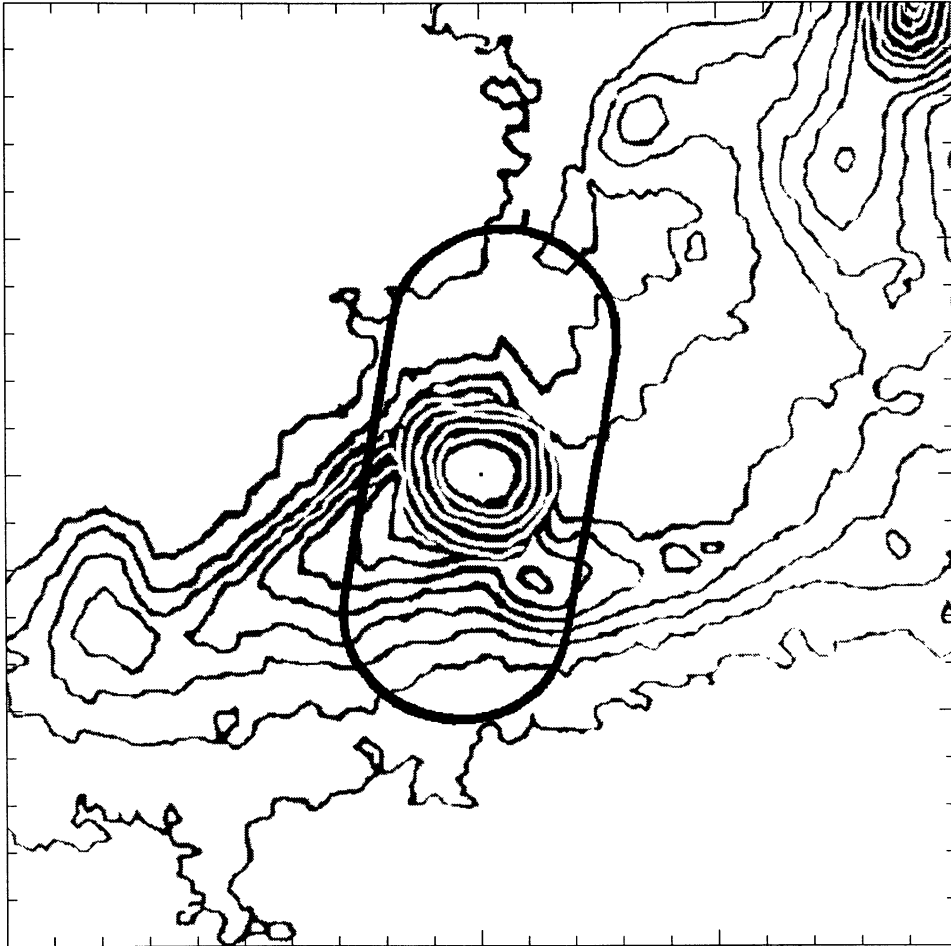
Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	21518				

SWP21518



HH 24

CENTER = HH24A PA = 350°
 $\alpha_C = 5^h 43^m 35^s.66$ $\delta_C = -0^\circ 11' 31''.4$

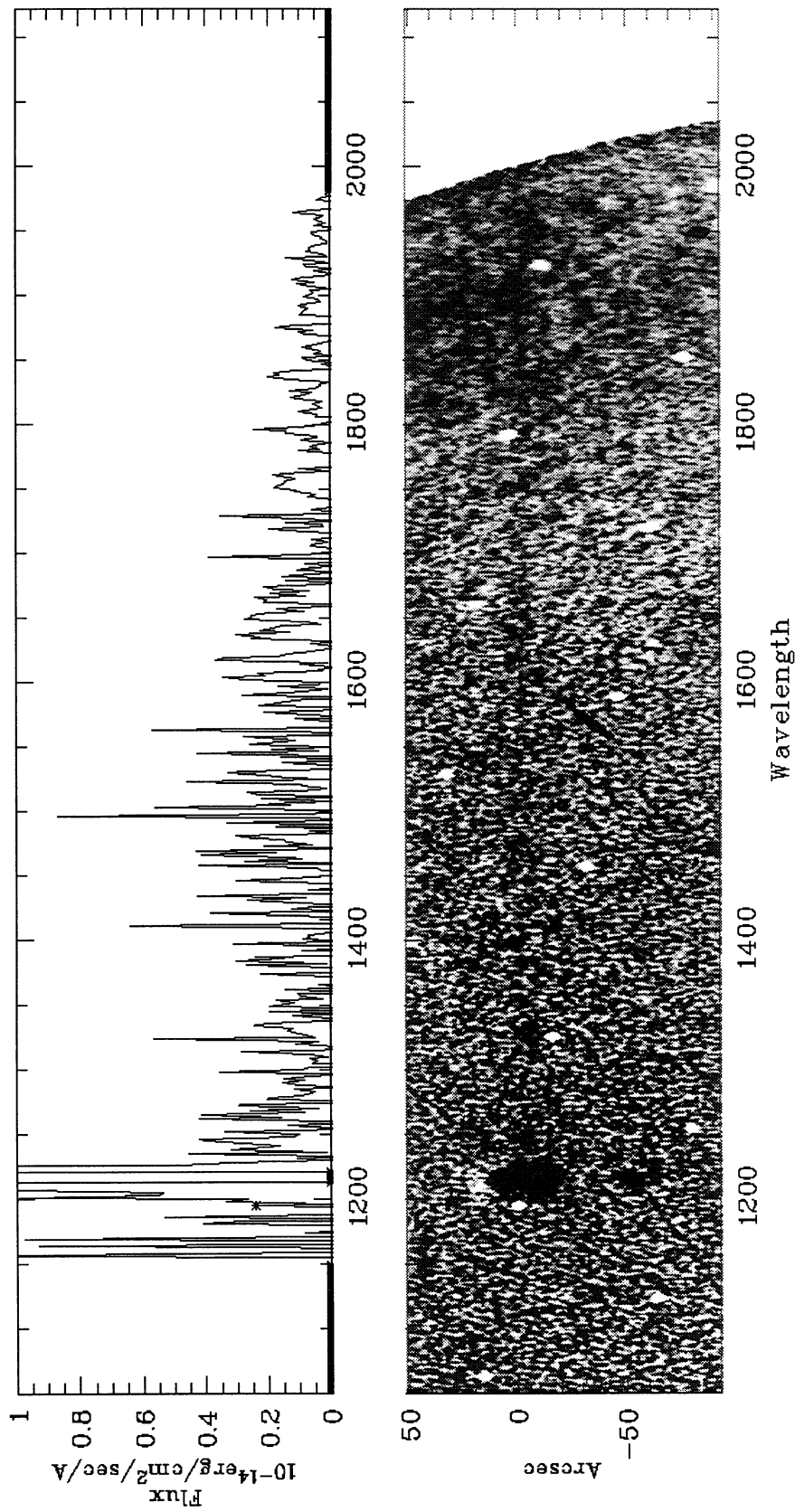


From the 6200 – 7000 Å band data in Solf (1987)

IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	22708				

SWP222708



HH 46

Alternative names :		
Type :	LEO	[29]
Coordinates :		
	$\alpha_{1950} = 8^h 24^m 17^s.1$	
	$\delta_{1950} = -50^\circ 50' 34''$	
Proper motion (Knot 1):		[15]
	$\mu_\alpha \cos \delta = 1''.9 \pm 0''.7 \text{ cen}^{-1}$	
	$\mu_\delta = 5''.5 \pm 2''.0 \text{ cen}^{-1}$	
Radial velocity :	-206 km s^{-1}	[17]
Suspected source :	HH 46/47 IRS	
Region :	Gum Nebula	
Distance :	450 pc	
Characteristic size :	$10'' \times 10''$	
Associated with molecular outflow :	Yes	[31]
P.A. of jet :	$\sim 43^\circ$	

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	SWP	11286	L	L	11-02-81	170.0	B=48	272.17
2	SWP	11291	L	L	12-02-81	189.0	B=54	273.26
3	SWP	15472	L	L	10-11-81	377.0		180.79

HH 47

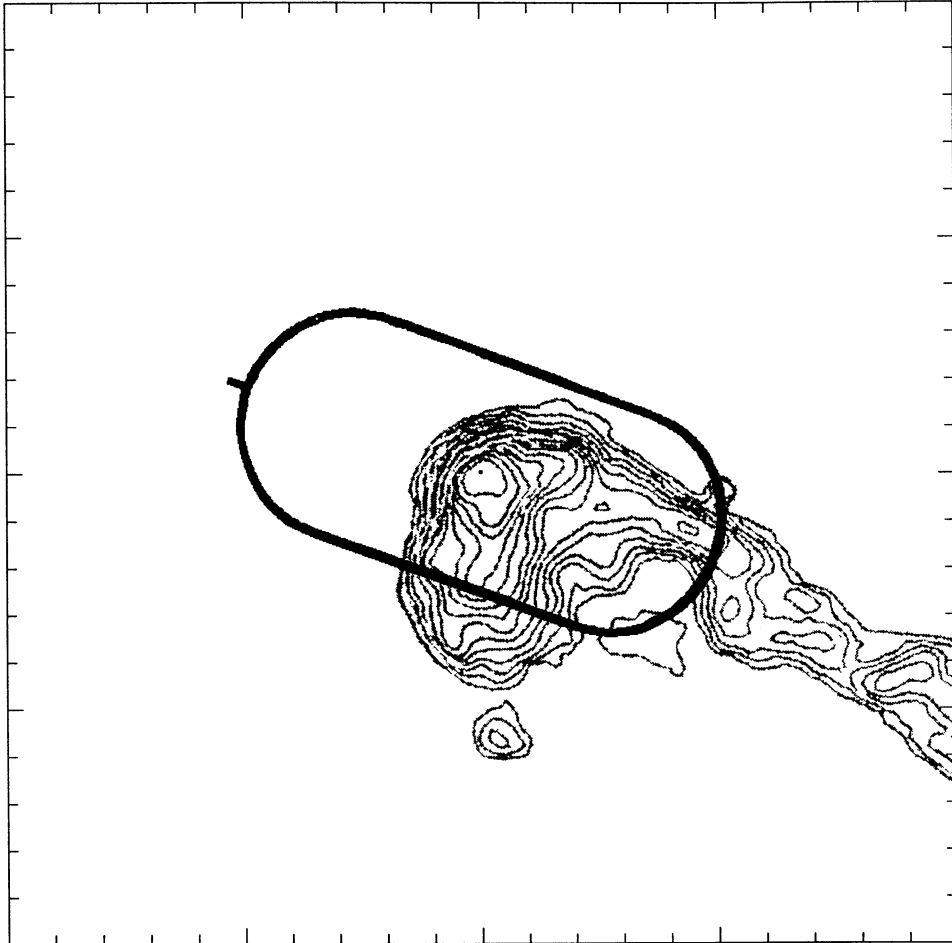
Alternative names :		
Type :	LEO	[3]
Coordinates :		
	$\alpha_{1950} = 8^h 24^m 22^s.8$	
	$\delta_{1950} = -50^\circ 50' 00''$	
Proper motion (Knot A0) :		
	$\mu_\alpha \cos \delta = 7''.7 \pm 0''.8 \text{ cen}^{-1}$	[14]
	$\mu_\delta = 7''.7 \pm 0''.8 \text{ cen}^{-1}$	
Radial velocity :	-140 km s^{-1}	[17]
Suspected source :	HH 46/47 IRS	
Region :	Gum Nebula	
Distance :	450 pc	
Characteristic size (Knots A0-10) :	$15'' \times 15''$	
Asociated with molecular outflow :	Yes	[31]
P.A. of jet :	$\sim 43^\circ$	[14]

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWP	02158	L	L	27-10-83	400.0	E=3-5X,C=220,B=180	167.39
2	SWP	17549	L	L	01-08-82	400.0	C=145,B=110	77.54
3	SWP	21389	L	L	28-10-83	440.0	C=100,B=70	168.34
4	SWP	32154	L	L	24-10-87	411.0		164.13
5	SWP	33960	L	L	22-07-88	870.0	E=161,C=190,B=148	68.78

HH 47

CENTER = HH47A PA = 70°
 $\alpha_C = 8^h 24^m 22.79$ $\delta_C = -50^\circ 49' 57''.8$

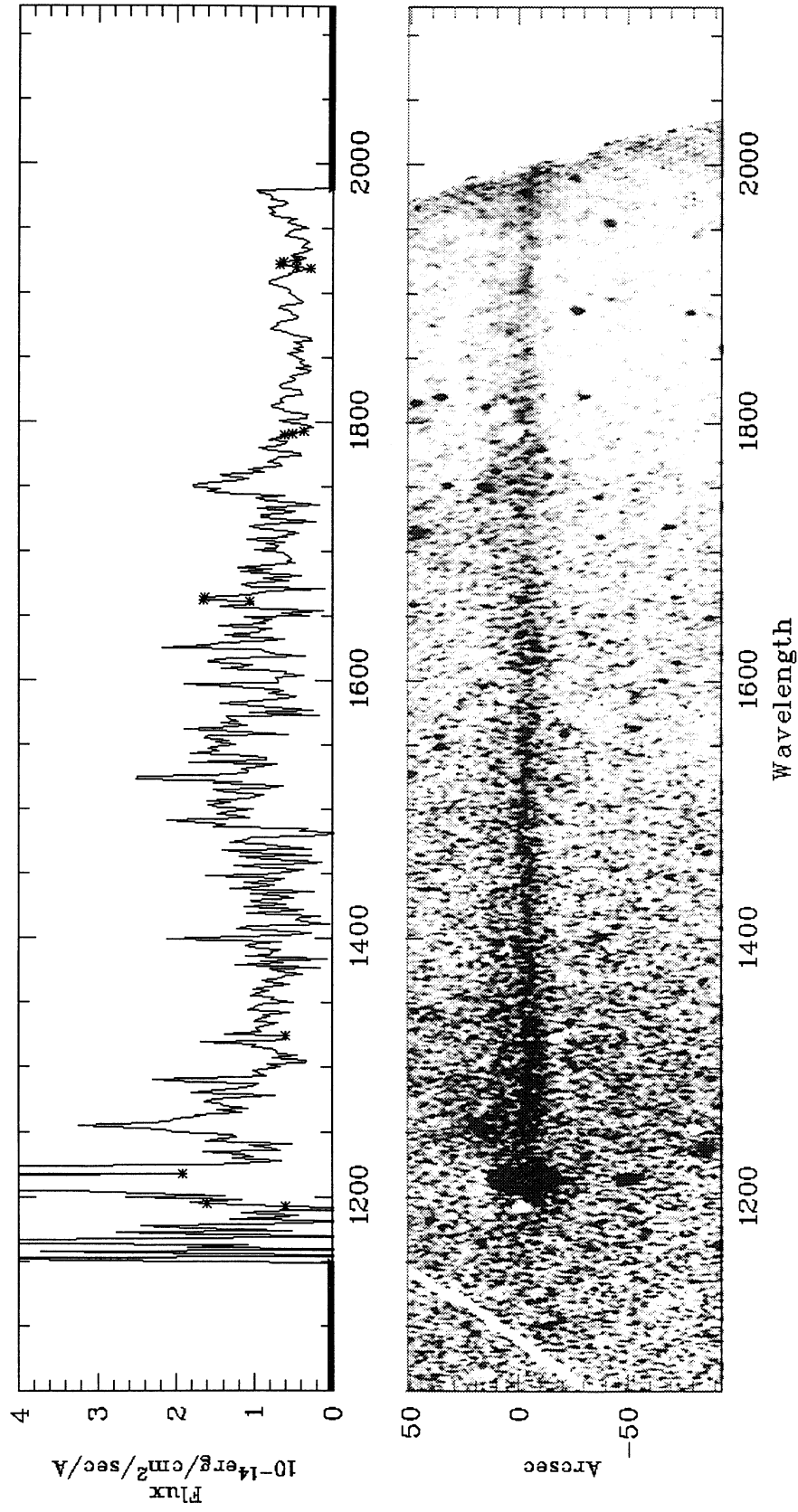


From the [S II] data in Eislöffel *et al.* (1994b)

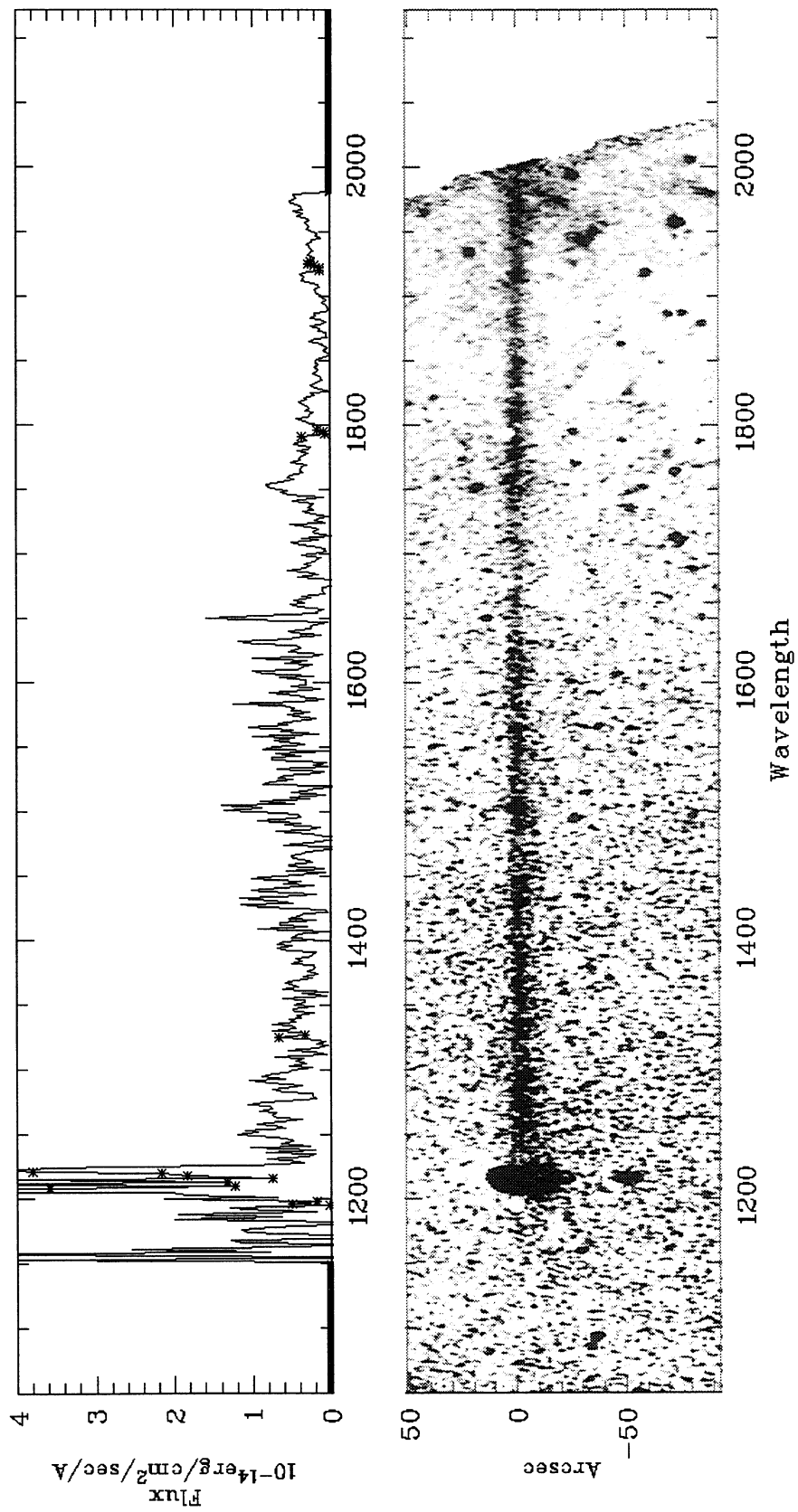
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
SWP	17549				
SWP	33960				

SWP17549

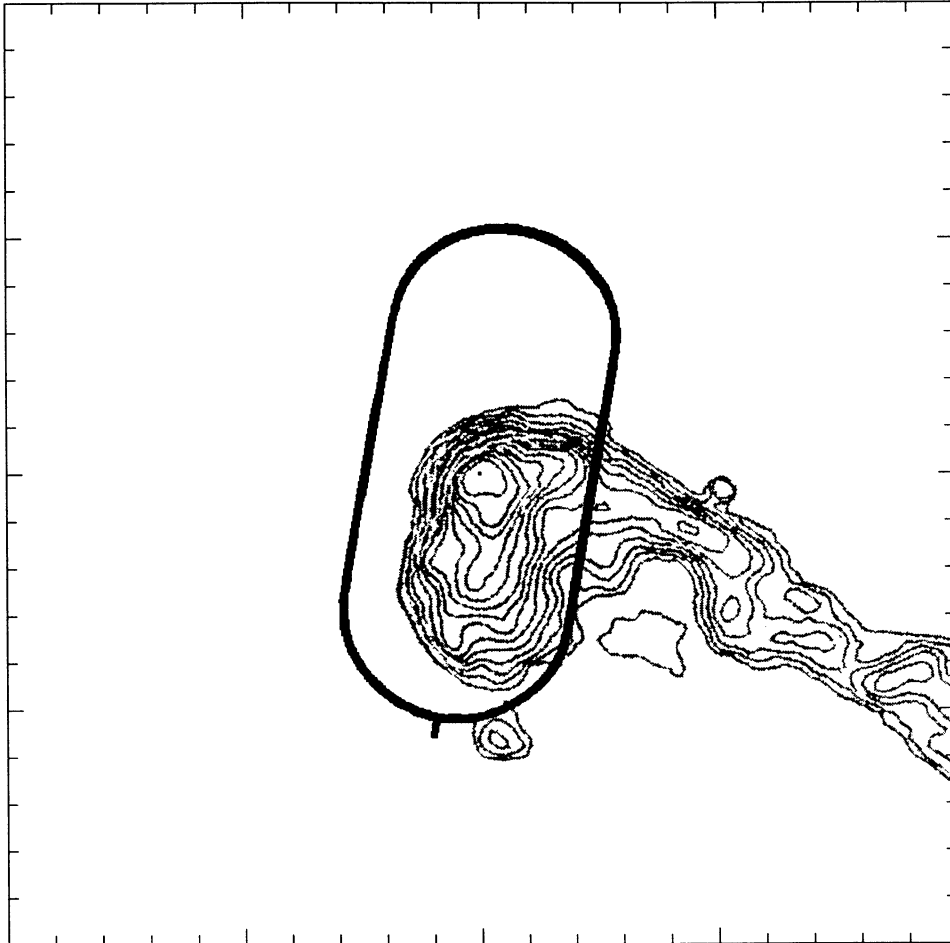


SWP333960



HH 47

CENTER = HH47A PA = 170°
 $\alpha_C = 8^h 24^m 22.79$ $\delta_C = -50^\circ 49' 57''.8$

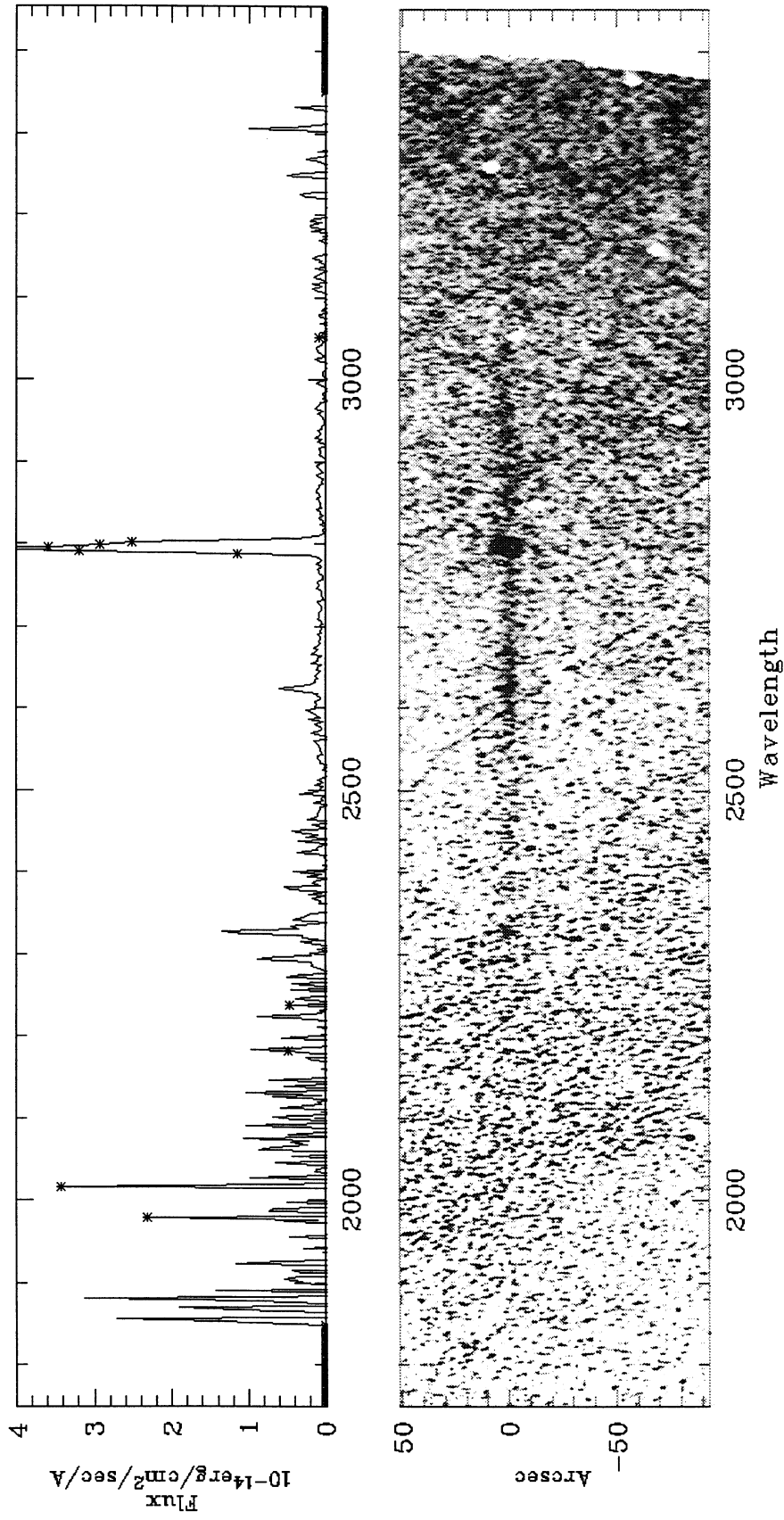


From the [S II] data in Eislöffel *et al.* (1994b)

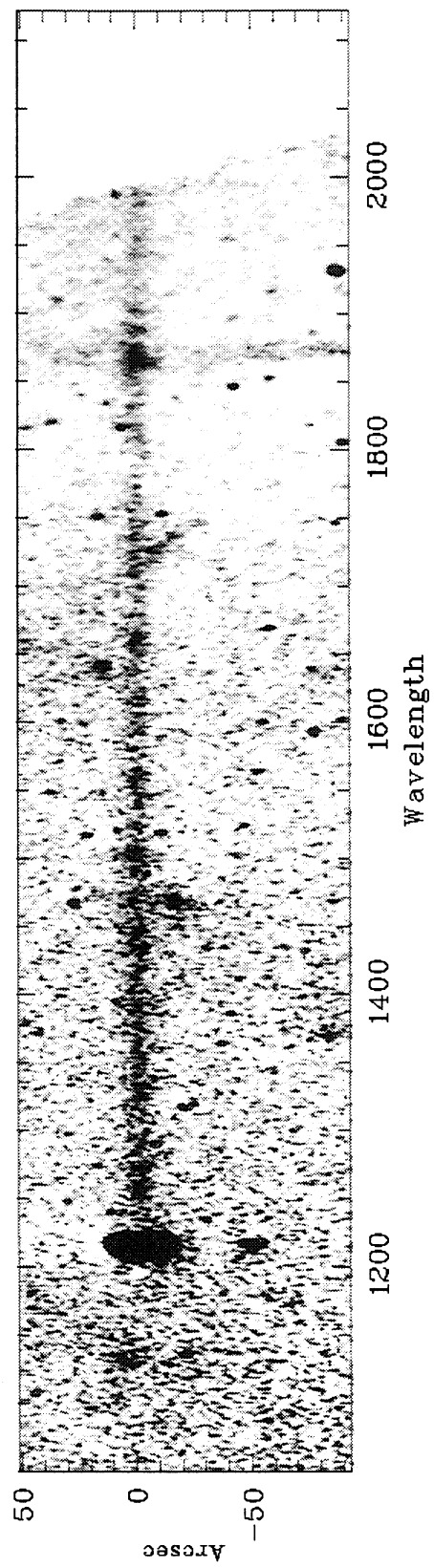
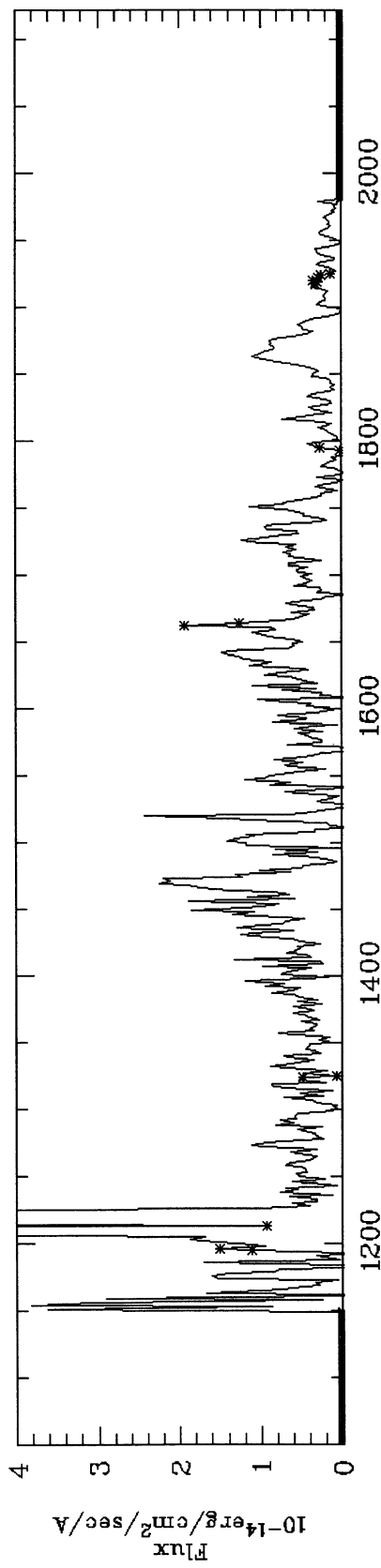
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWP	02158	$(2.0 \pm 0.1)\text{E-13}$			
SWP	21389				
SWP	32154				

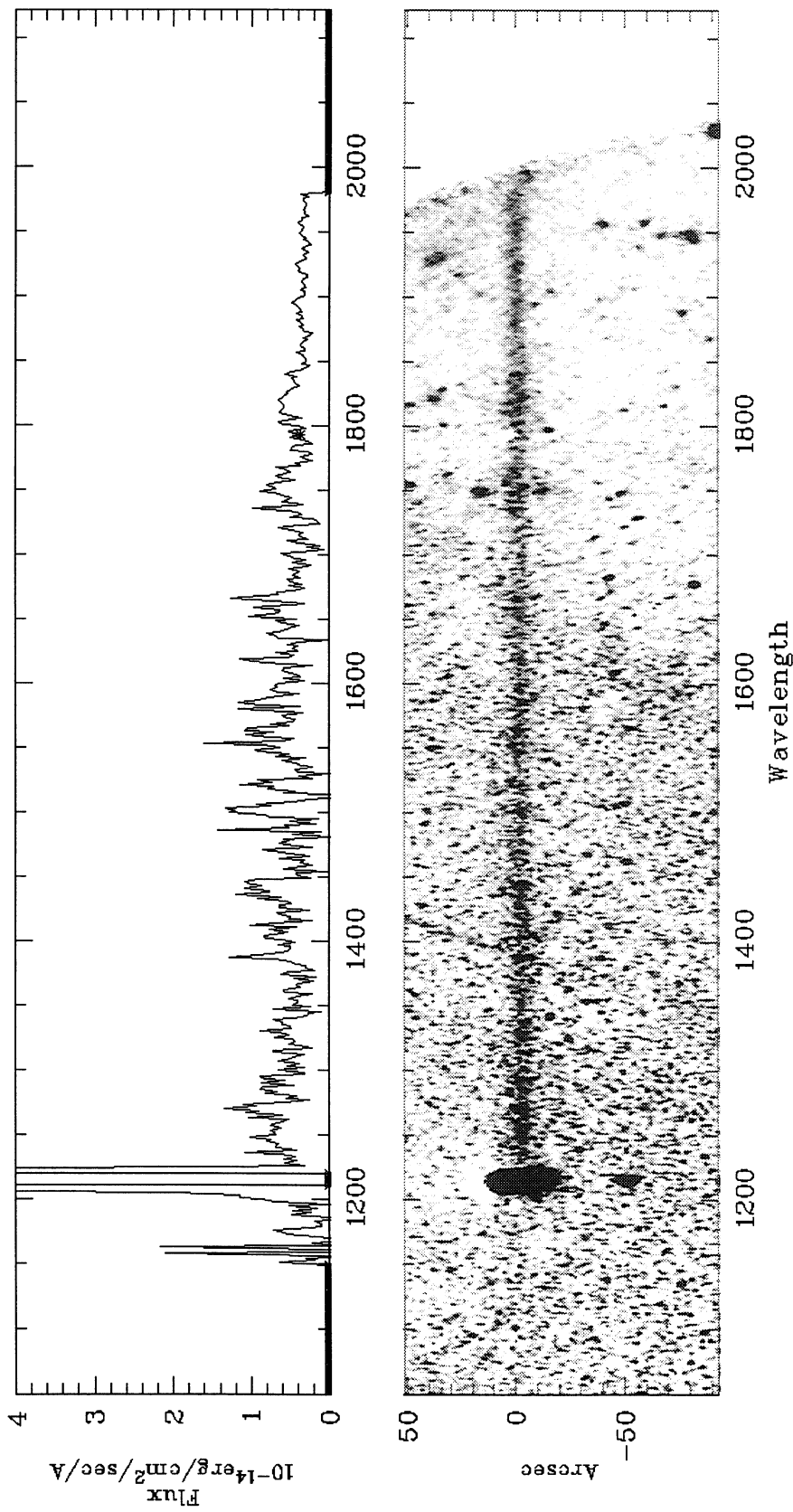
LWP02158



SWP21389



SWP32154



HH 57

Alternative names :		
Type :	LEO	[18]
Coordinates :		
	$\alpha_{1950} = 16^h 28^m 56^s.8$	
	$\delta_{1950} = -44^\circ 49' 17''$	
Proper motion :		
	$\mu_\alpha \cos \delta = -1''.5 \pm 1''.1 \text{ cen}^{-1}$	[35]
	$\mu_\delta = 1''.1 \pm 0''.8 \text{ cen}^{-1}$	
Radial velocity :	-55 km s^{-1}	[18]
Suspected source :	V346 Nor	
Region :	Norma 1	
Distance :	700 pc	
Characteristic size :	$5'' \times 5''$	
Associated with molecular outflow :	Yes	[33]
P.A. of jet :	$\sim 195^\circ$	

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWR	16009	L	L	24-05-83	80.0	B=130	236.96
2	SWP	20062	L	L	24-05-83	290.0	B=70	236.96

HH 216

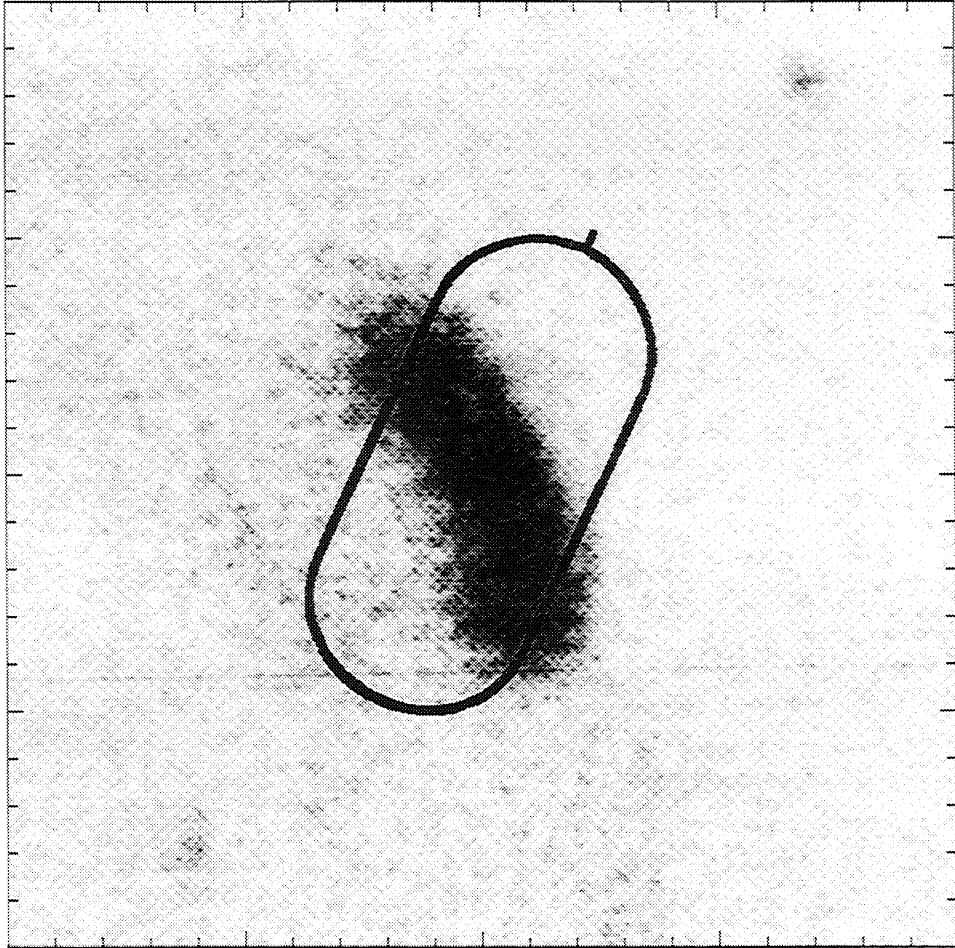
Alternative names :	M16-HH1	
Type :	HEO	[25]
Coordinates :	$\alpha_{1950} = 18^h 16^m 05^s.1$ $\delta_{1950} = -13^\circ 53' 03''$	
Proper motion :	$\mu_\alpha \cos \delta =$ $\mu_\delta =$	
Radial velocity :	$\sim +100 \text{ km s}^{-1}$	[28]
Suspected source :		
Region :	NGC 661	
Distance :	2300 pc	
Characteristic size :	$14'' \times 4''$	
Associated with molecular outflow :		
P.A. of jet :		

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWR	11870	L	L	31-10-81	240.0		335.05
2	SWP	15352	L	L	31-10-81	157.0		335.01

HH 216

CENTER = HH216 PA = 335°
 $\alpha_C = 18^h 16^m 5^s.1$ $\delta_C = -13^\circ 53' 03''$

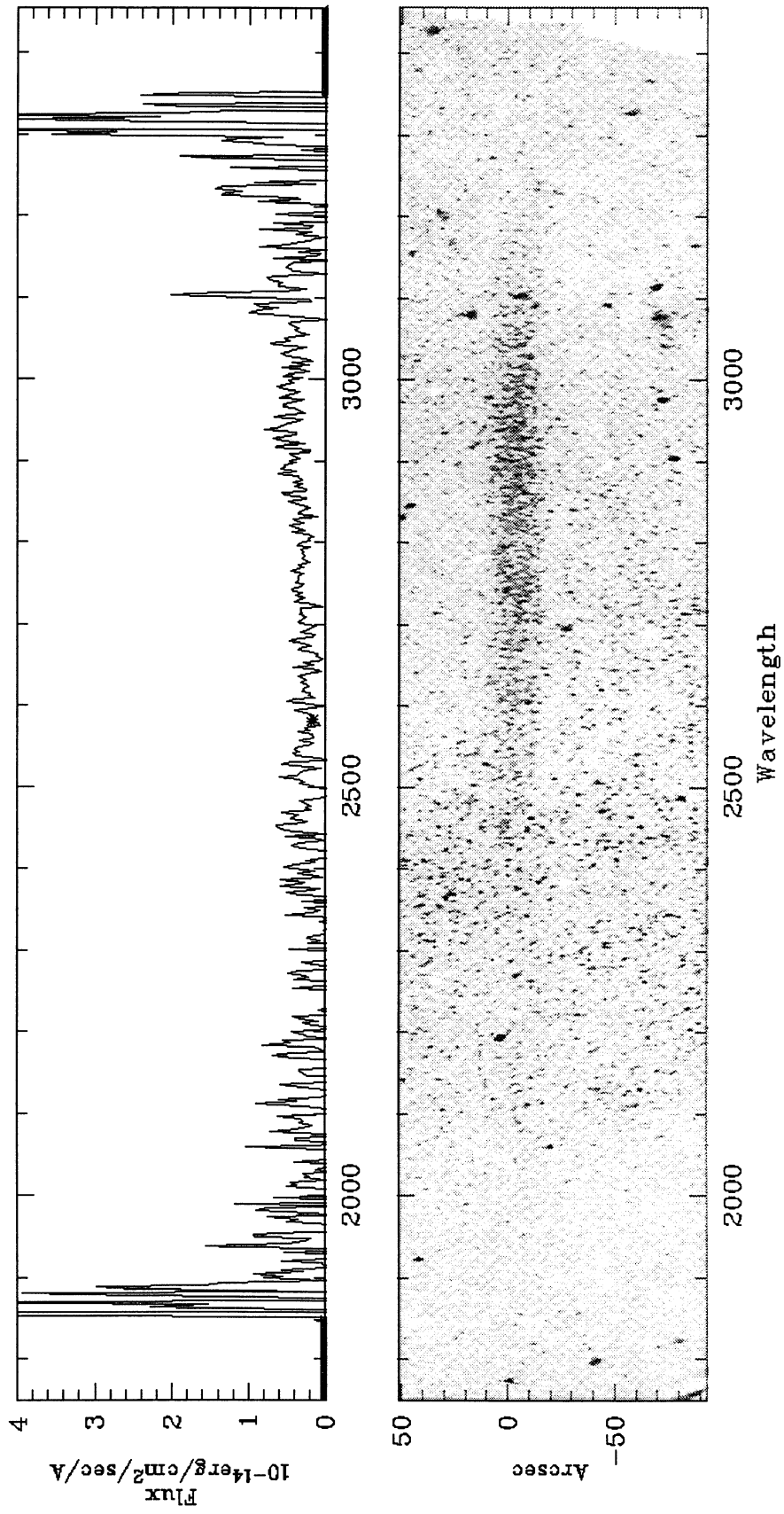


From the [S II] data in Meaburn *et al.* (1990)

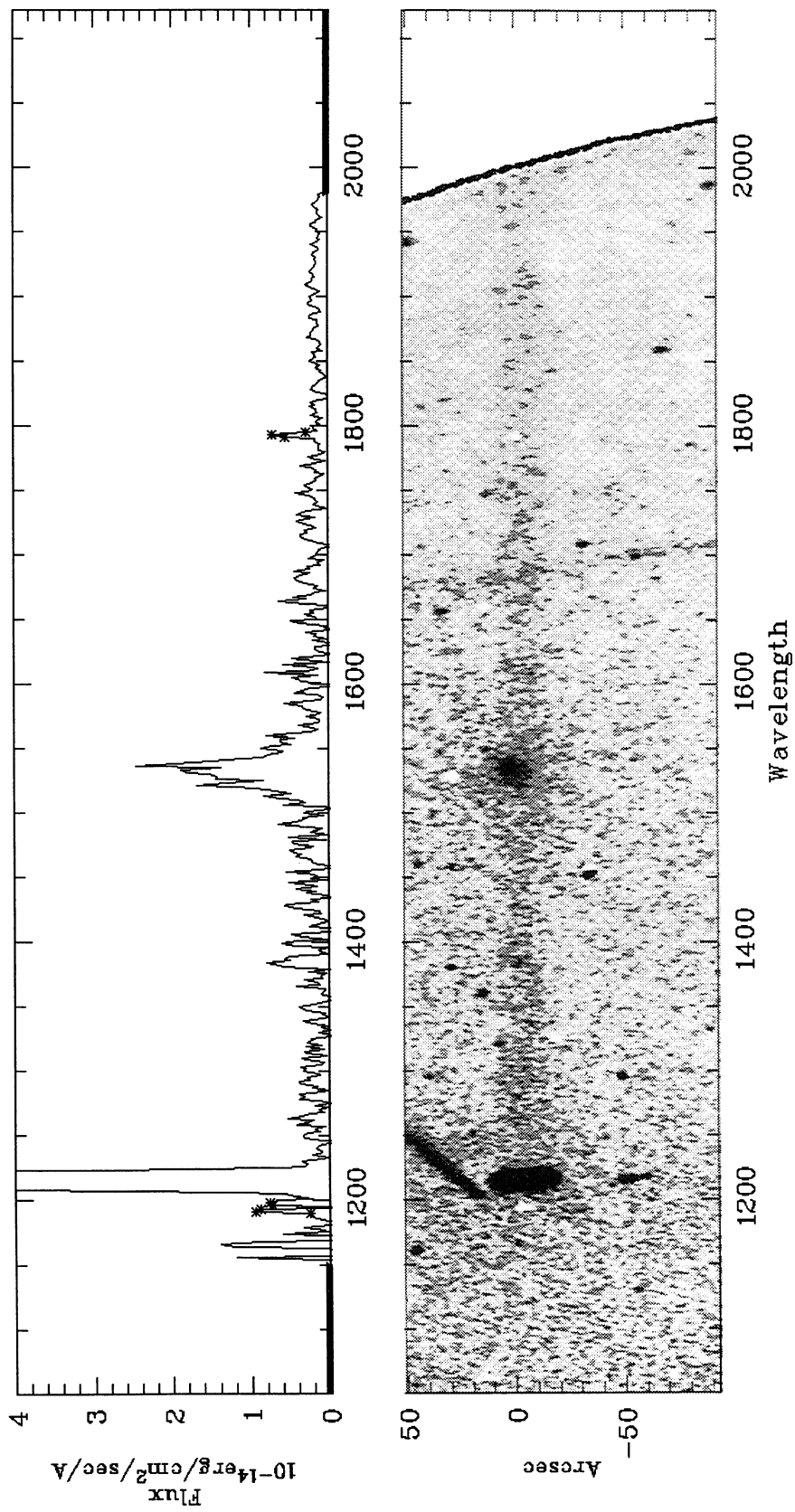
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWR SWP	11870 15352				

LWR11870



SWP 15352



HH 81

Alternative names :	
Type :	
Coordinates :	
	$\alpha_{1950} = 18^h 16^m 07^s.5$
	$\delta_{1950} = -20^\circ 52' 53''$
Proper motion :	
	$\mu_\alpha \cos \delta =$
	$\mu_\delta =$
Radial velocity :	
Suspected source :	IRAS18162-2048
Region :	L291
Distance :	1700 pc
Characteristic size :	$12'' \times 12''$
Associated with molecular outflow :	Yes [42]
P.A. of jet :	$\sim 20^\circ$

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWP	13999	L	L	04-09-88	830.0	B=210,B=174	342.41
2	SWP	34191	L	L	05-09-88	695.0	B=112	342.36

HH 32

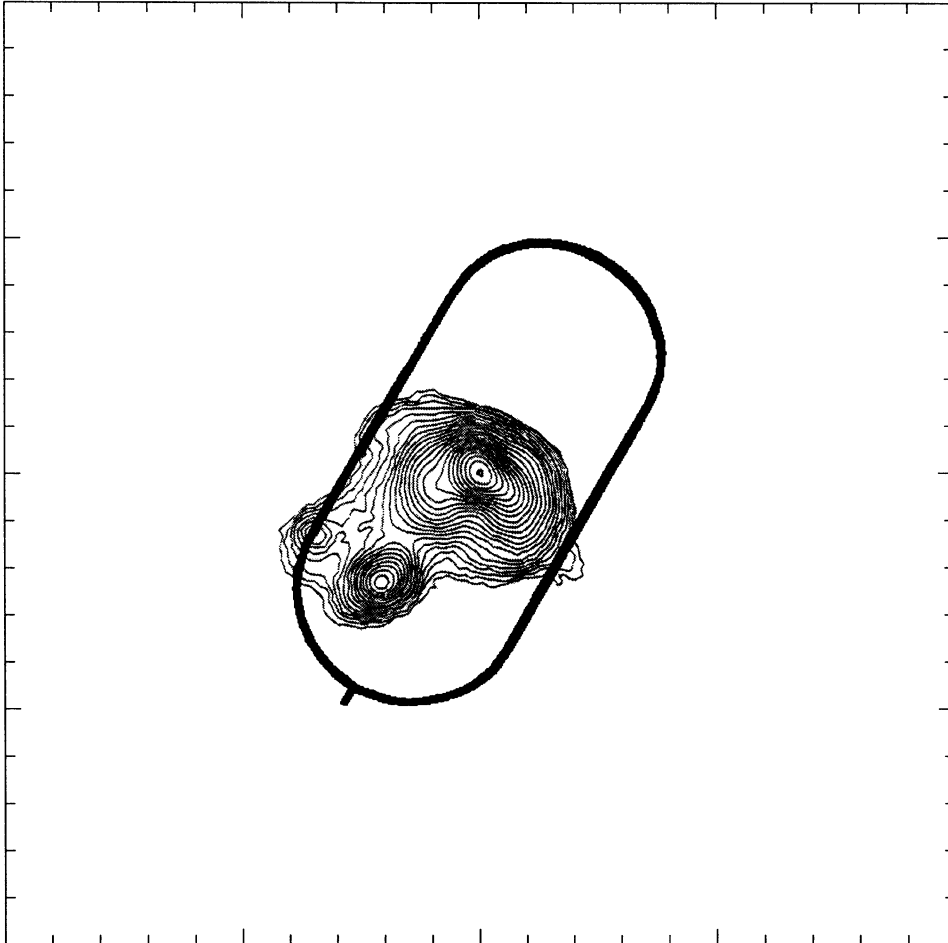
Alternative names :		
Type :	HEO	[3]
Coordinates :		
	$\alpha_{1950} = 19^h 18^m 07^s.9$	
	$\delta_{1950} = 10^\circ 56' 21''$	
Proper motion (Knot A) :		
	$\mu_\alpha \cos \delta = -3''.8 \pm 2''.1 \text{ cen}^{-1}$	[21]
	$\mu_\delta = 0''.6 \pm 1''.5 \text{ cen}^{-1}$	
Radial velocity (Knot A, HVC) :	+250 km s ⁻¹	[19]
Suspected source :	AS353A	
Region :	Aquila	
Distance :	300 pc	
Characteristic size :	10'' \times 10''	
Asociated with molecular outflow :	Yes	[10]
P.A. of jet :	~ 287°	[19]

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	LWR	13004	L	L	11-04-82	414.0	E=140,C=65,B=65	155.10
2	SWP	13804	L	L	25-04-81	310.0	B=75	147.46
3	SWP	26994	L	L	27-10-85	840.0	E=2X,B=142	328.08

HH 32

CENTER = HH32A PA = 150°
 $\alpha_C = 19^h 18^m 07^s.94$ $\delta_C = 10^\circ 56' 21''.6$

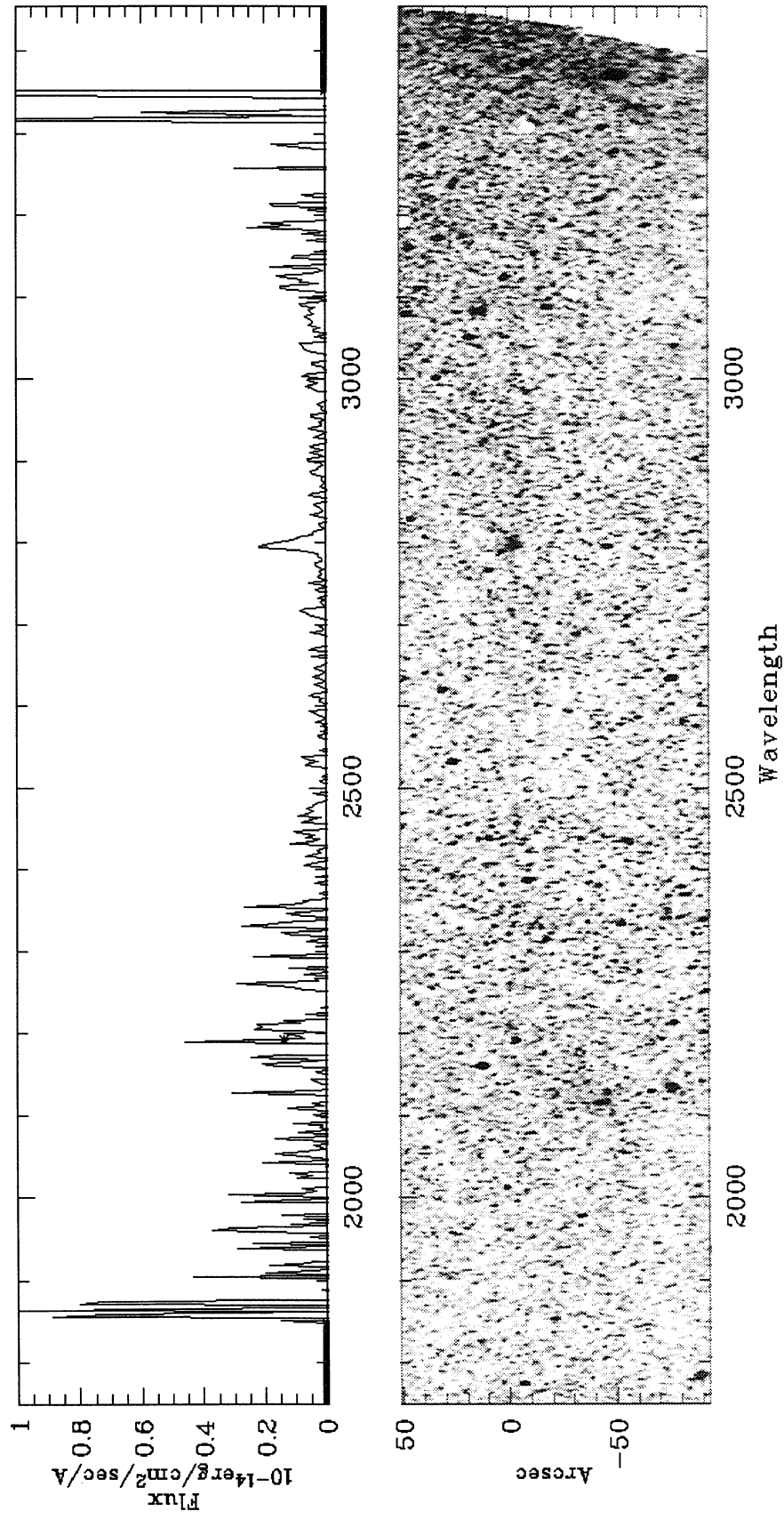


From the [S II] data in Davis *et al.* (1996)

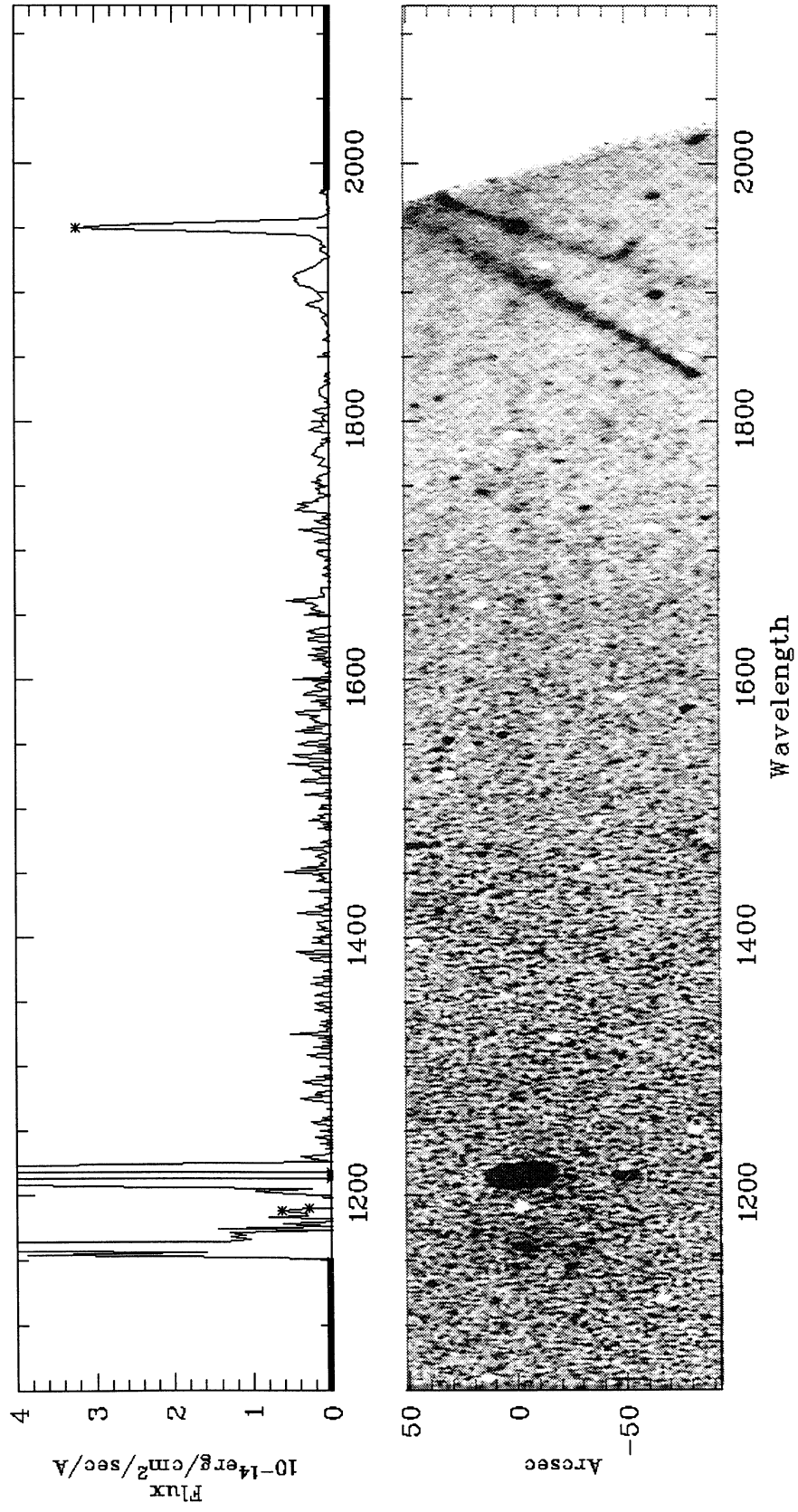
IUE Data:

Cam.	Image	Mg II ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C II] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C III] ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)	C IV ($\frac{\text{erg}}{\text{cm}^2\text{s}}$)
LWR SWP	13004 13804	$(9.3 \pm 1.0)\text{E-15}$			

LWR13004



SWP13804



HH 168

Alternative names :	GGD 37	
Type :	HEO	[20]
Coordinates :	$\alpha_{1950} = 22^h 54^m 04^s.8$ $\delta_{1950} = 61^\circ 45' 59''$	
Proper motion :	$\mu_\alpha \cos \delta = 2''.9 \pm 0''.4 \text{ cen}^{-1}$ $\mu_\delta = 5''.0 \pm 0''.7 \text{ cen}^{-1}$	[26]
Radial velocity (Knot C) :	$\sim -180 \text{ km s}^{-1}$	[20]
Suspected source :	HW 2	
Region :	Ceph A	
Distance :	700 pc	
Characteristic size :	$50'' \times 40''$	
Asociated with molecular outflow :	Yes	[22]
P.A. of jet :	$\sim 300^\circ$	

IUE spectra:

n°	Cam.	Image	Disp.	Ap.	Date	T. exp. [min.]	Comments	P.A.
1	SWP	38212	L	L	18-02-90	601.8	B=127	265.58

References

- [1] Bally, J. & Lada, C. J., 1983, ApJ, **265**, 824.
- [2] Böhm, K. H., Brugel, E. W. & Mannery, E., 1980, ApJ, **235**, L137.
- [3] Böhm, K. H., Noriega-Crespo, A., Solf, J. & Brugel E. W., 1992, PASP, **104**, 251.
- [4] Cohen, M. & Schmidt, G. D., 1981, AJ, **86**, 1228.
- [5] Cohen, M. & Jones, B. F., 1987, ApJ, **321**, 846.
- [6] Cudworth, K. M. & Stone, R. C., 1977, PASP, **89**, 627.
- [7] Cudworth, K. M., Herbig, G., 1979, AJ, **84**, 548.
- [8] Davis, C. J., Eislöffel, J. & Smith, M. D., 1996, ApJ, **463**, 246.
- [9] Devine, D., Bally, J., Reipurth, B. & Heathcote, S., 1997, AJ, **114**, 2095.
- [10] Edwards, S. & Snell, R. L., 1982, ApJ, **261**, 151.
- [11] Edwards, S. & Snell, R. L., 1983, ApJ, **270**, 605.
- [12] Edwards, S. & Snell, R. L., 1984, ApJ, **281**, 237.
- [13] Eislöffel, J., Mundt, R., 1992, A&A, **263**, 292.
- [14] Eislöffel, J., Mundt, R., 1994a, A&A, **284**, 530.
- [15] Eislöffel, J., Mundt, R., & Böhm, K. H., 1994b, AJ, **108**, 1042.
- [16] Fridlund, C. V. M., Liseau, R. & Perryman, M. A. C., 1993, A&A, **273**, 601.
- [17] Graham, J. A. & Elias, J. H., 1983, ApJ, **272**, 615.
- [18] Graham, J. A. & Frogel, J. A., 1985, ApJ, **289**, 331.
- [19] Hartigan, P., Mundt, R. & Stocke, J. 1986a, AJ, **91**, 1357.
- [20] Hartigan, P., Lada, C. J., Stocke, J. & Tapia, S. 1986b, AJ, **92**, 1155.

- [21] Herbig, G. H., & Jones, B. F., 1983, *AJ*, **88**, 1040.
- [22] Ho, P. T. P., Moran, J. M. & Rodriguez, L. F., 1982, *ApJ*, **262**, 619.
- [23] Jones, B. J., 1983, *RMxAA*, **7**, 71.
- [24] Jones, B. J., Cohen, M., Wehinger, P. A. & Gehren, T., 1987, *AJ*, **94**, 1260.
- [25] Krautter, J., Reipurth, B. & Eichendorf, W., 1984, *A&A*, **133**, 169.
- [26] Lenzen, R., 1988, *A&A*, **190**, 269.
- [27] Liseau, R., Hultgren, M., Fridlund, C. V. M., & Cameron, M., 1996, *A&A*, **306**, 255.
- [28] Meaburn, J. & White, N. J., 1982, *MNRAS*, **199**, 121.
- [29] Morse, J. A., Hartigan, P., Heathcote, S., Raymond, J. C. & Cecil, G., 1994, *ApJ*, **425**, 738.
- [30] O'Dell, C. R., Hartigan, P., Lane, W. M., Wong, S. K., Burton, M. G., Raymond, J. & Axon, D. J., 1997, *AJ*, **114**, 7300.
- [31] Olberg, M., Reipurth, B. & Booth, R. S., 1992, *A&A*, **259**, 252.
- [32] Raga, A. C. & Mateo, M., 1988, *RMxAA*, **16**, 13.
- [33] Reipurth, B., Olberg, M., Gredel, R. & Booth, R. S., 1997, *A&A*, **327**, 1164.
- [34] ESO Workshop on Low Mass Star Formation and Pre-main Sequence Objects, ed. B. Reipurth (ESO, Garching), p. 247
- [35] Schwartz, R., Jones, B. F. & Sirk, M., 1984, *AJ*, **89**, 1735.
- [36] Snell, R. L., Loren, R. B. & Plambeck, R. L., 1980, *ApJ*, **239**, L17.
- [37] Snell, R. L. & Edwards, S., 1981, *ApJ*, **251**, 103.
- [38] Solf, J., 1987, *A&A*, **184**, 322.
- [39] Solf, J., Raga, A. C., Böhm, K. H. & Noriega-Crespo, A., 1991, *AJ*, **102**, 1147.

- [40] Strom, S. E., Grasdalen, G. L. & Strom, K. M., 1974, *AJ*, **191**, 111.
- [41] Walsh, J. R., 1982, *MNRAS*, **201**, 561.
- [42] Yamashita, T., Suzuki, H., Norio, K, Tamura, M, Mountain, C. M. & Moore, T. J. T., 1989, *ApJ*, **347**, 894.

