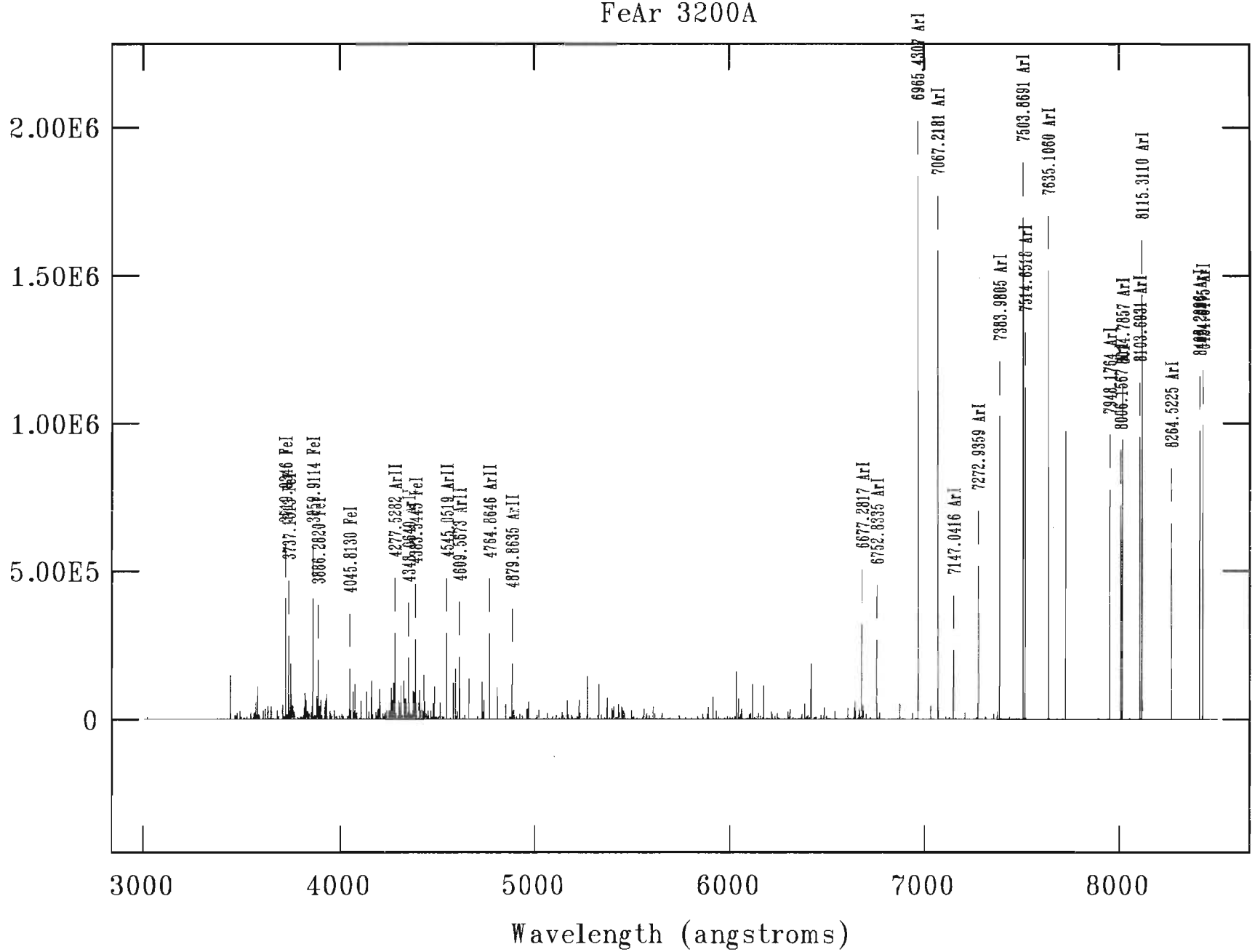
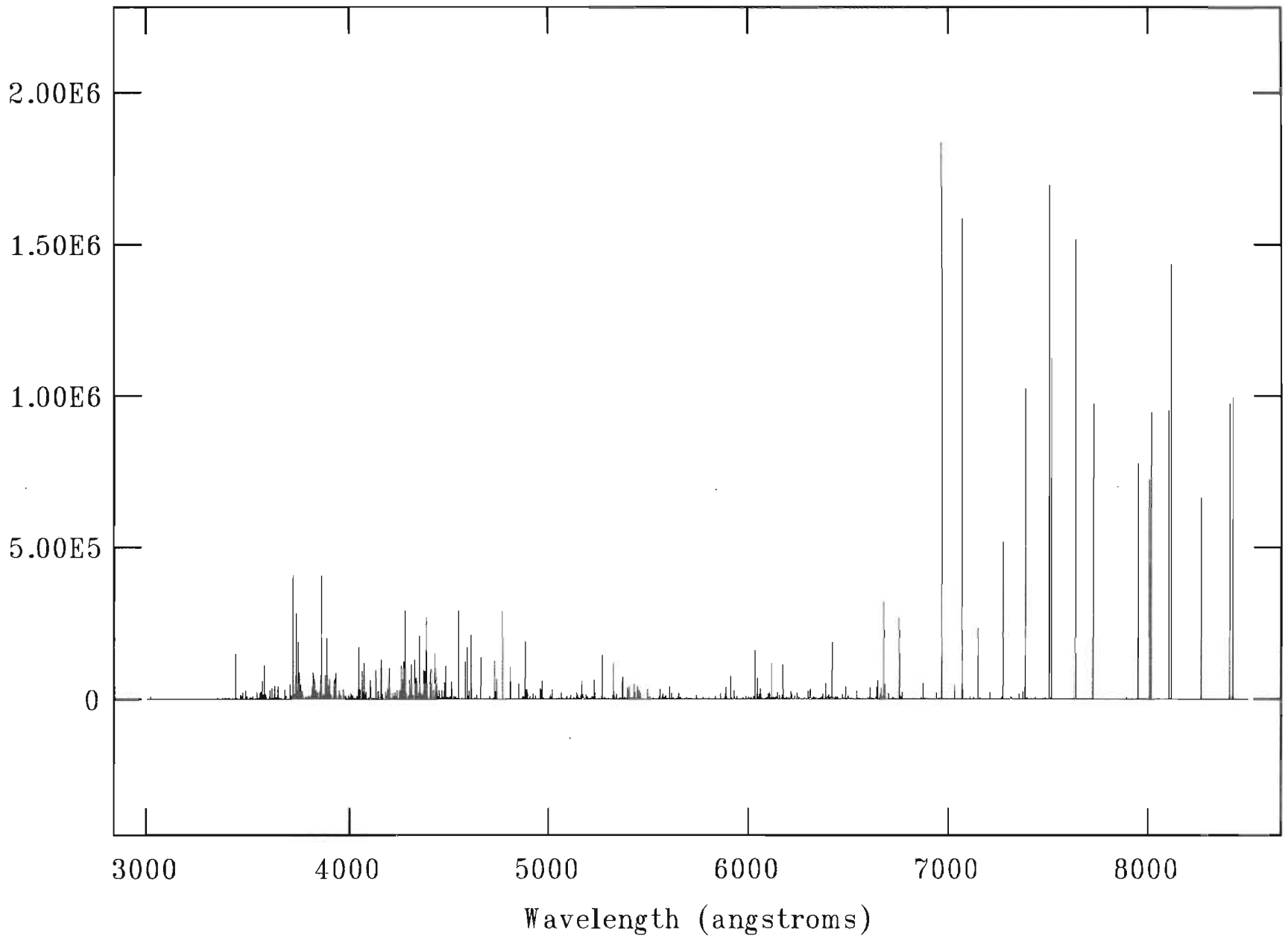
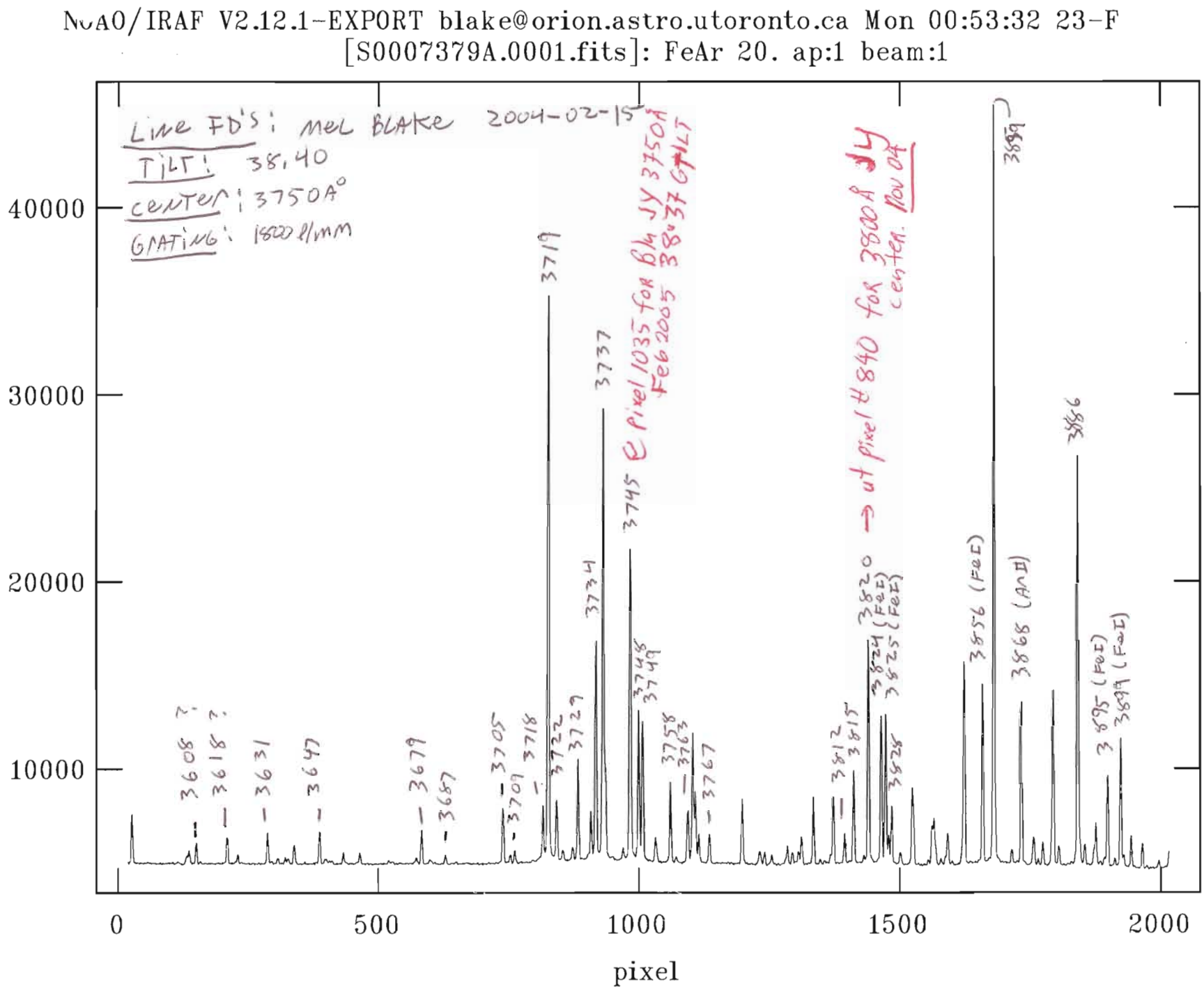
NOAO/IRAF V2.12.1-EXPORT @www.tu noao.edu Tue 19:22:13 20-Sep-2005
identify output29422 - Ap 1
FeAr 3200A

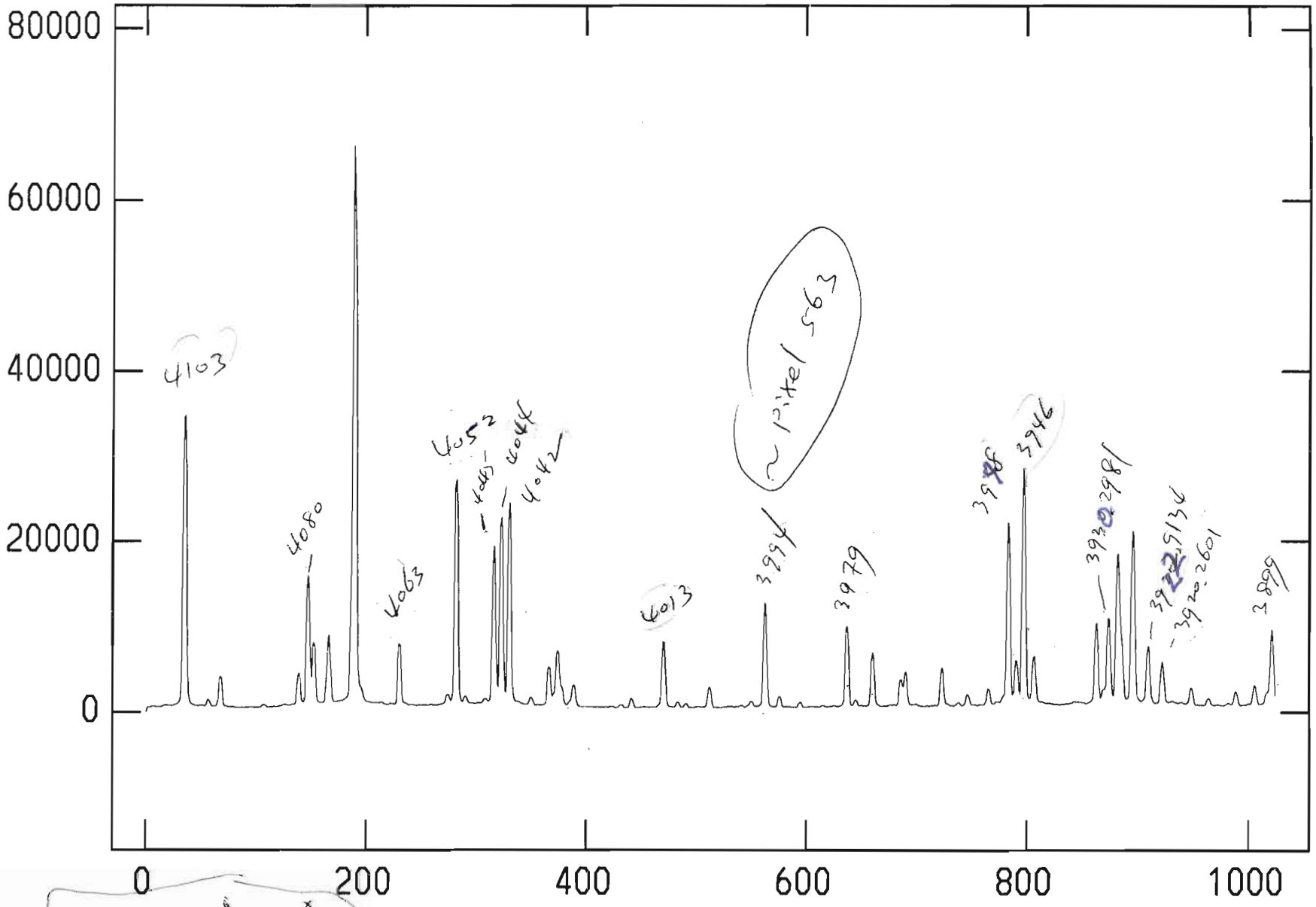


NOAO/IRAF V2.12.1-EXPORT @www.tu. .noao.edu Tue 18:51:00 20-Sep-2005
identify output26744 - Ap 1
FeAr 3200A



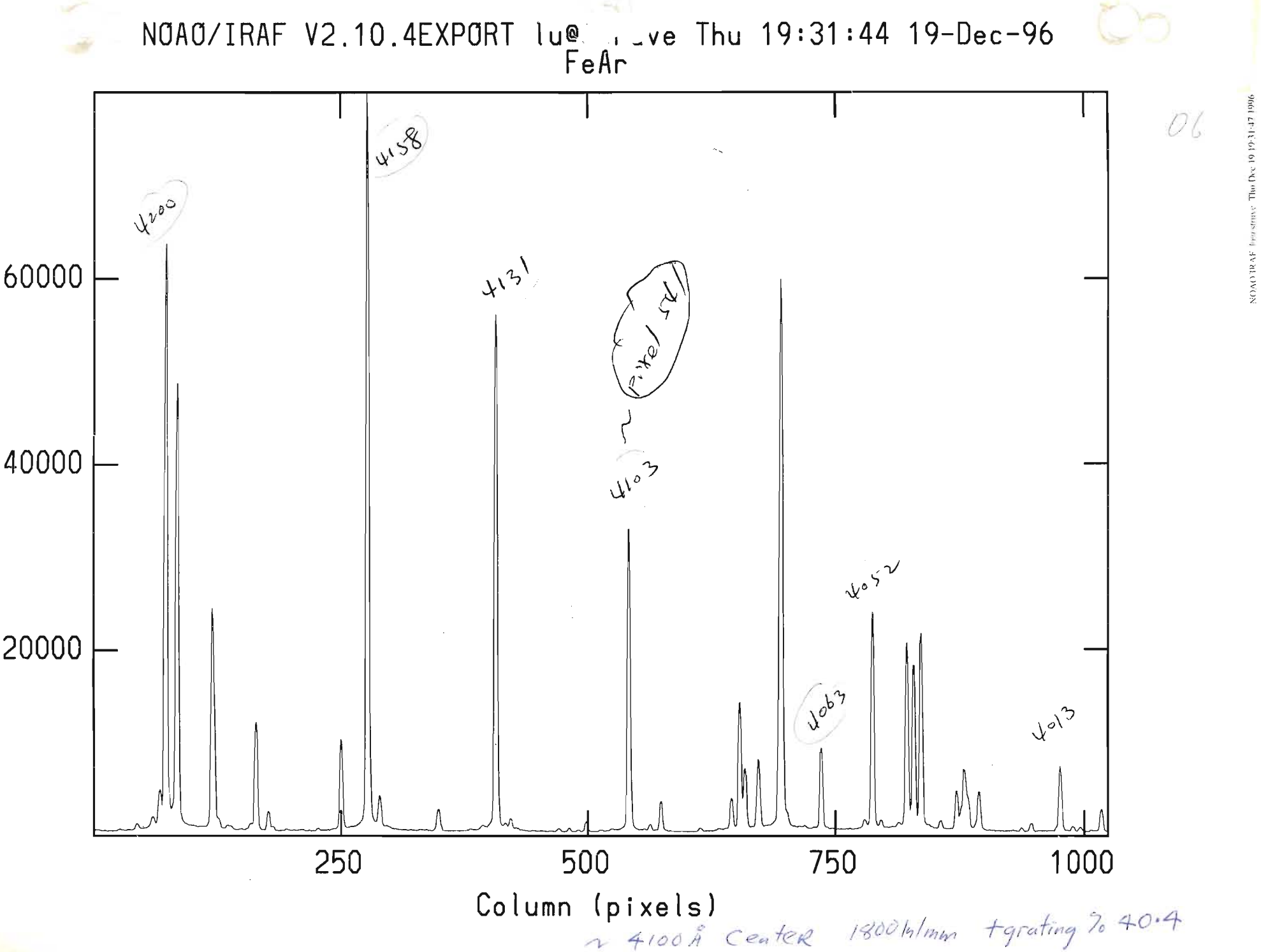


NOAO/IRAF V2.10.4EXPORT lu . ve Thu 19:09:26 19-Dec-96
identify efb42781 - Ap 1
FeAr

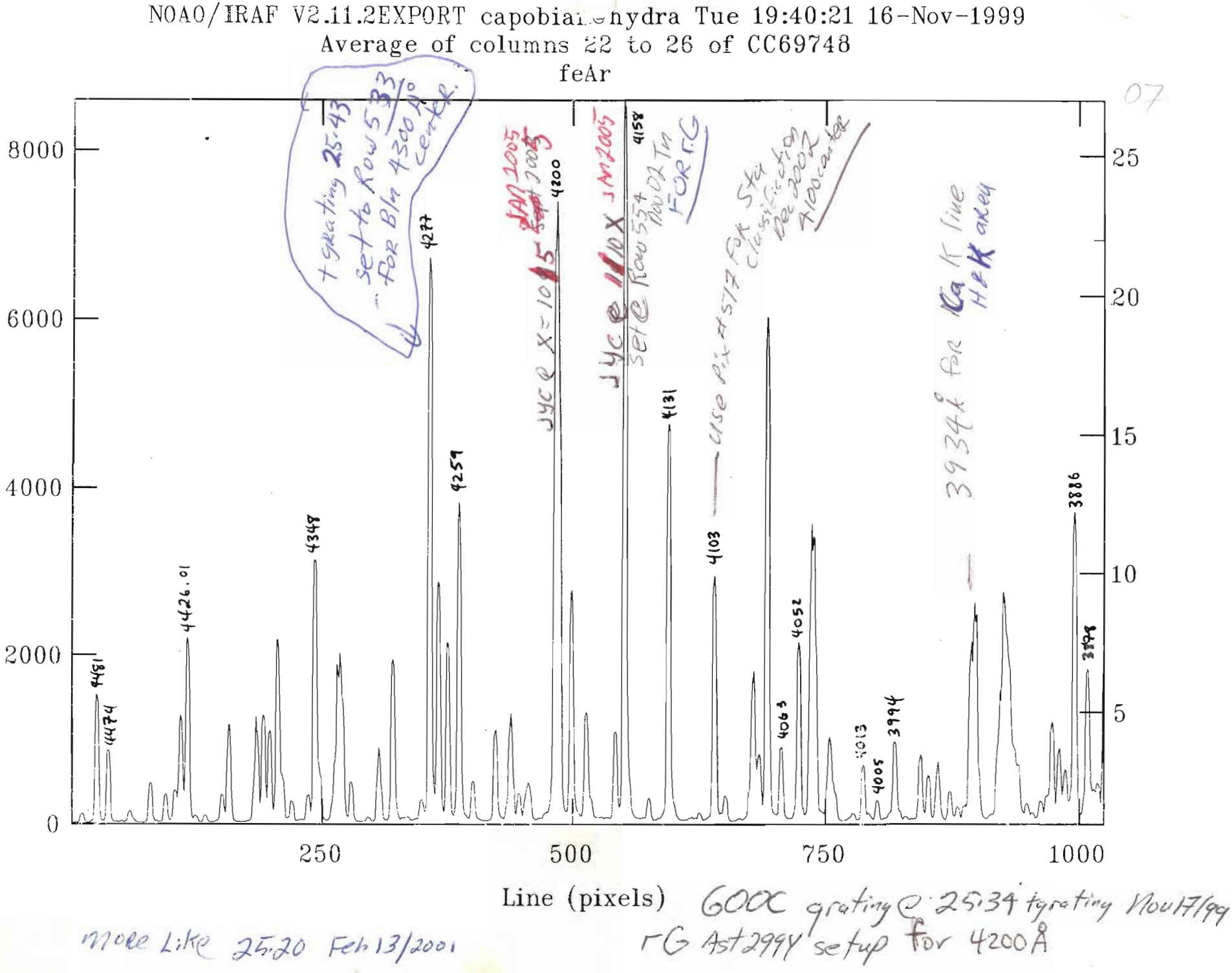


3945Å ± 2Å
@ 39.55° g.t.lt
July 30/99

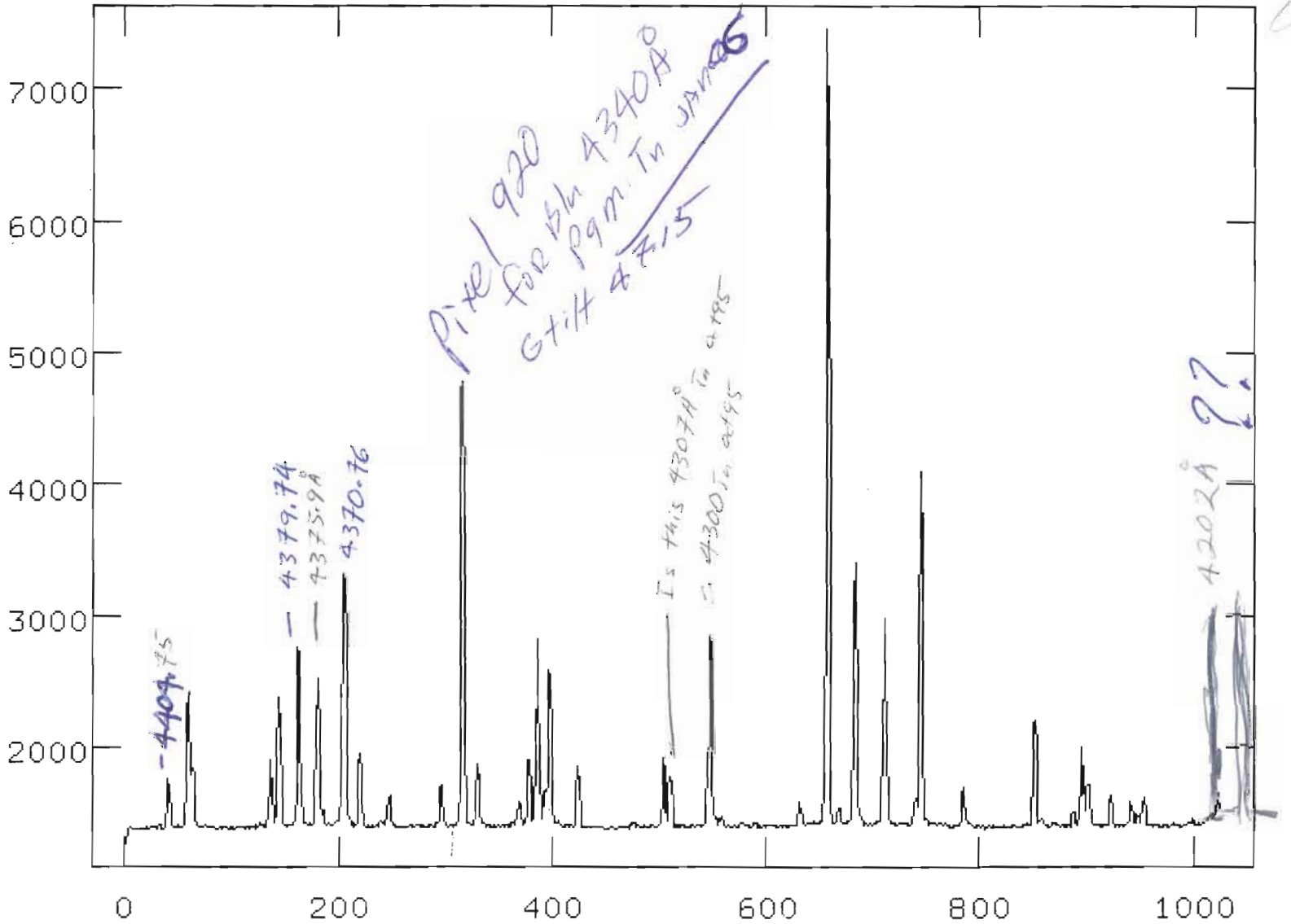
~ 4000 Å center 1800 ln/mm tgrating % 39.8



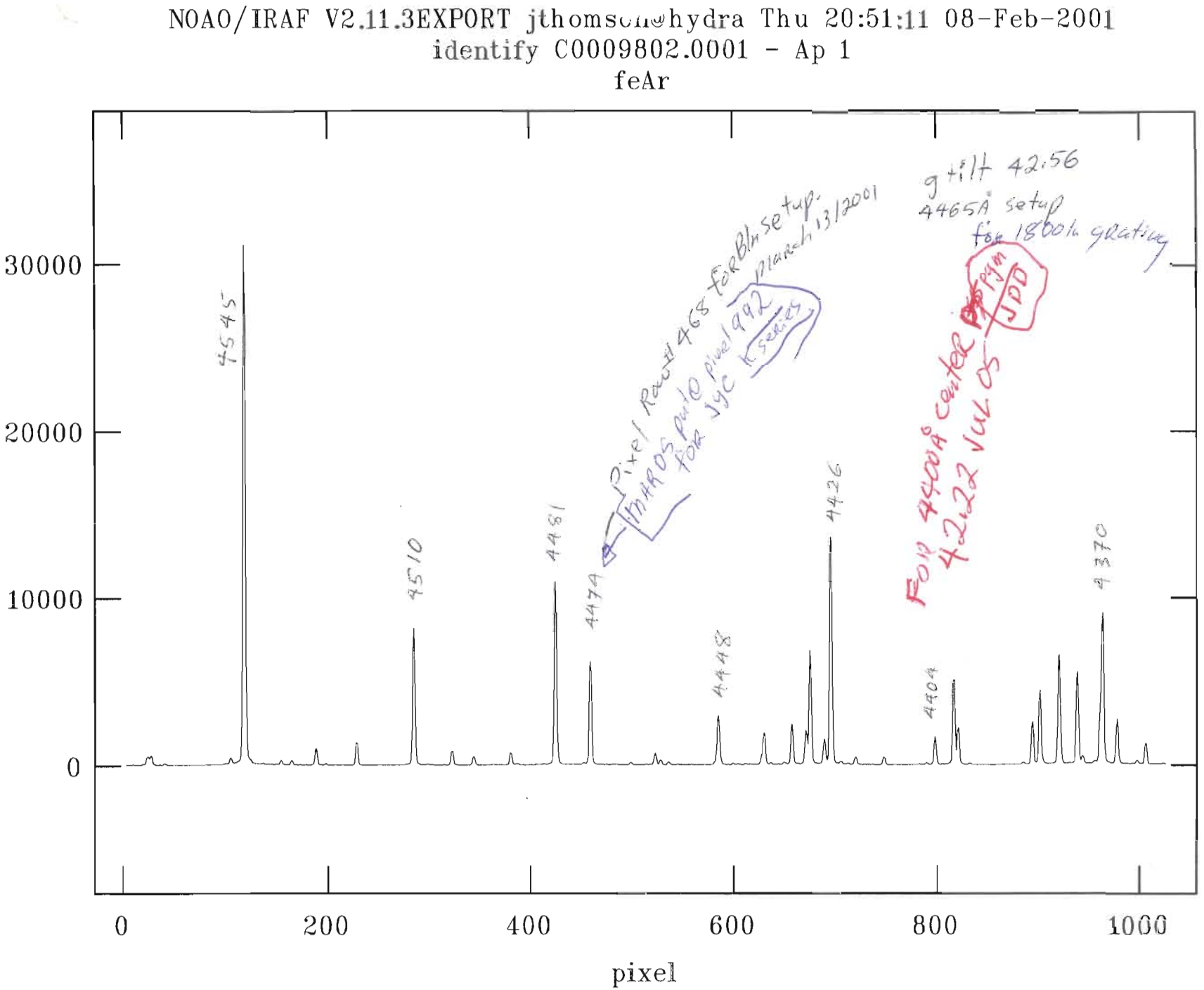
~ 4100 Å center 1800 kl/mm + grating ? 40.4

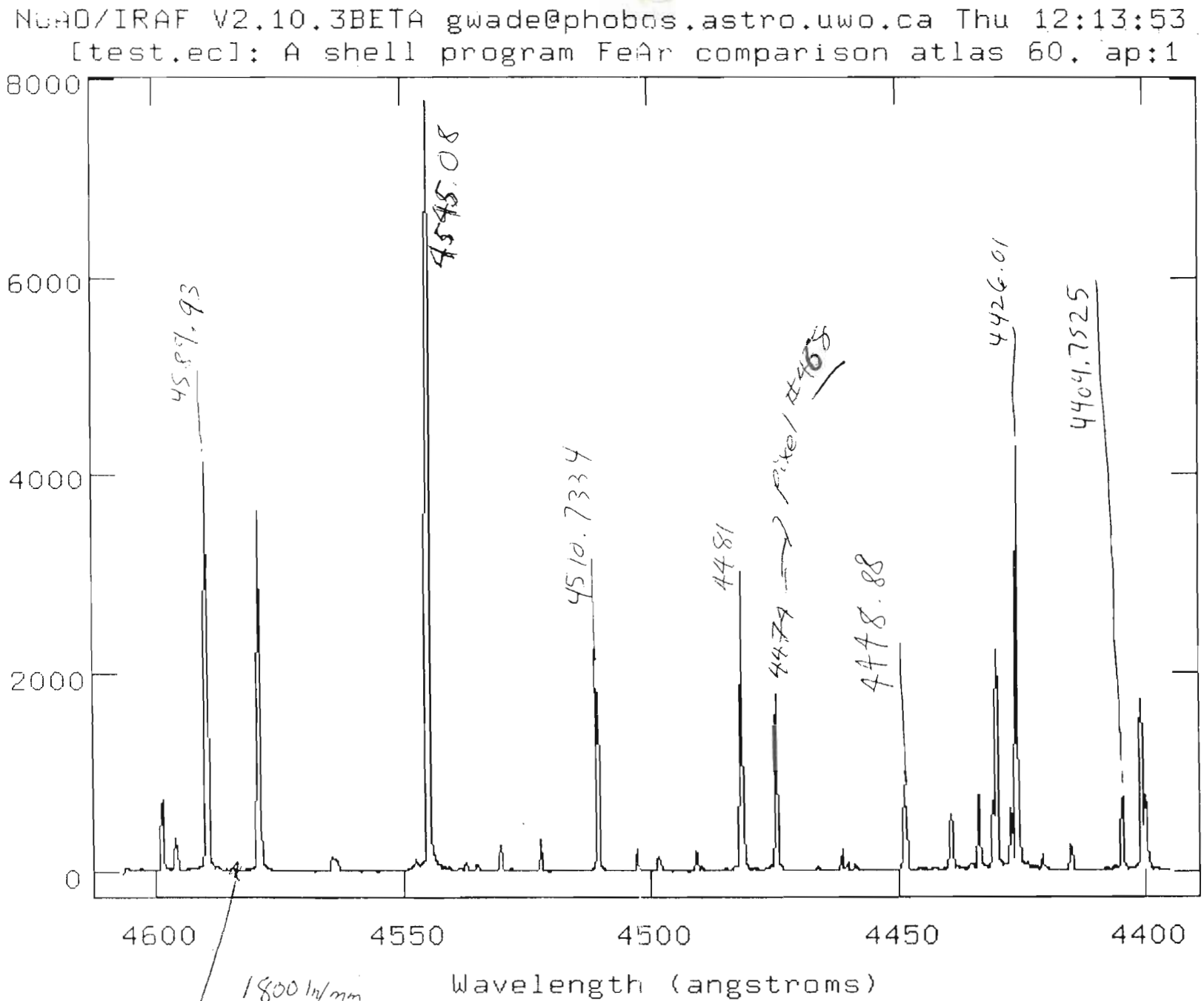

NOAO/IRAF V2.11.2EXPORT capobianco@hydra Tue 19:40:21 16-Nov-1999
Average of columns 22 to 26 of CC69748
feAr
tgrating 25:43 set to Row 533 for B/a 4300 Å center.
4477
4259
4200
4158
4131
4103
4052
4063
4013
4005
3994
3886
4481
4471
4426.01
4348
Use pix 4517 for Sta classification see 3207 Allocation
3934Å for Ca K line
8000
6000
4000
2000
0
25
20
15
10
5
250
500
750
1000
Line (pixels)
600X grating @ 25:34 tgrating Nov 17/99
rG Ast299Y setup for 4200Å
More Like 25:20 Feb 13/2001

NOAO/IRAF V2.10EXPORT jthomson@perseus Sat 00:30:08 01-Oct-94
[cc25739.ms]: FeAr 40.00s ap:1 beam:1



207Å Range

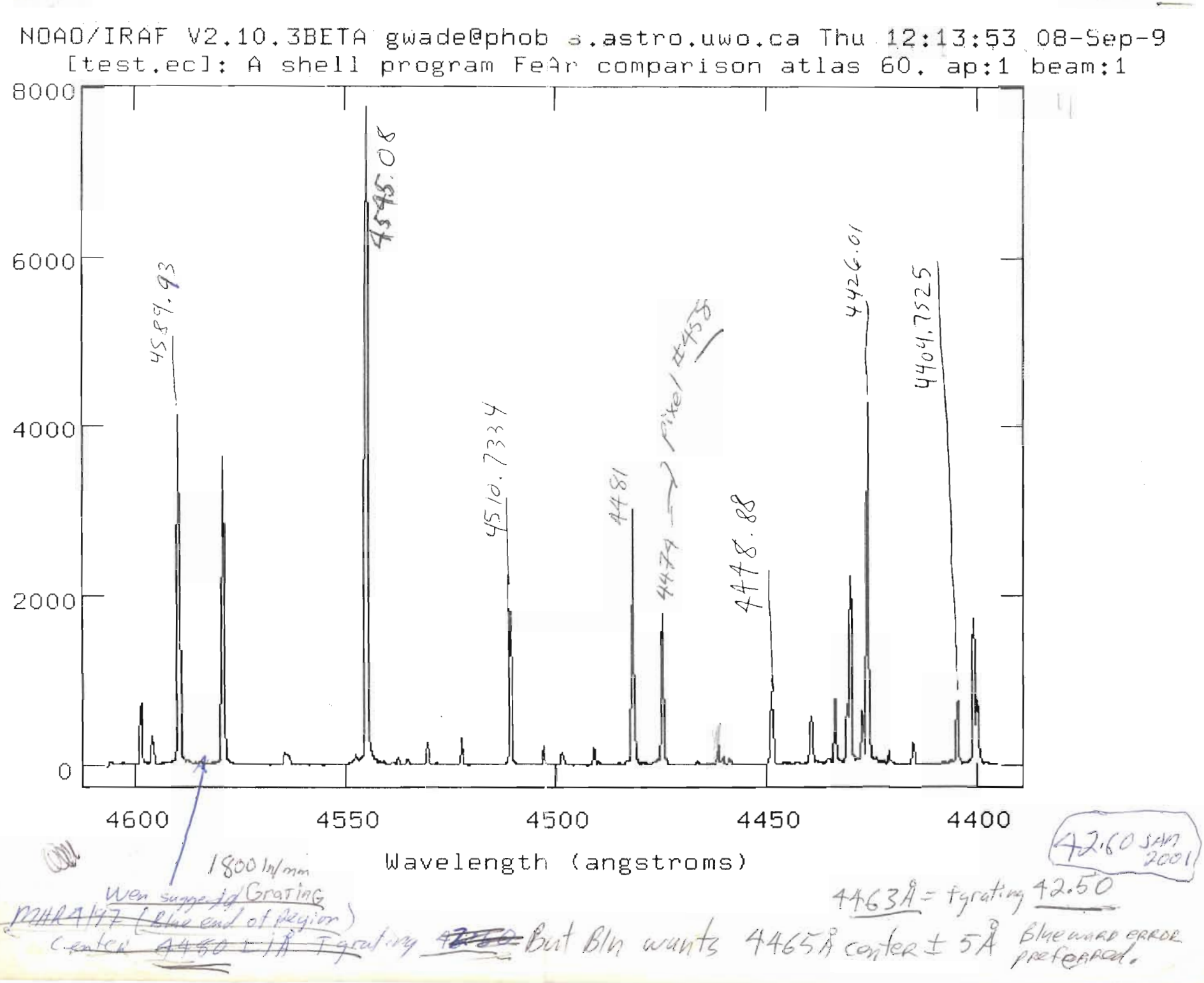




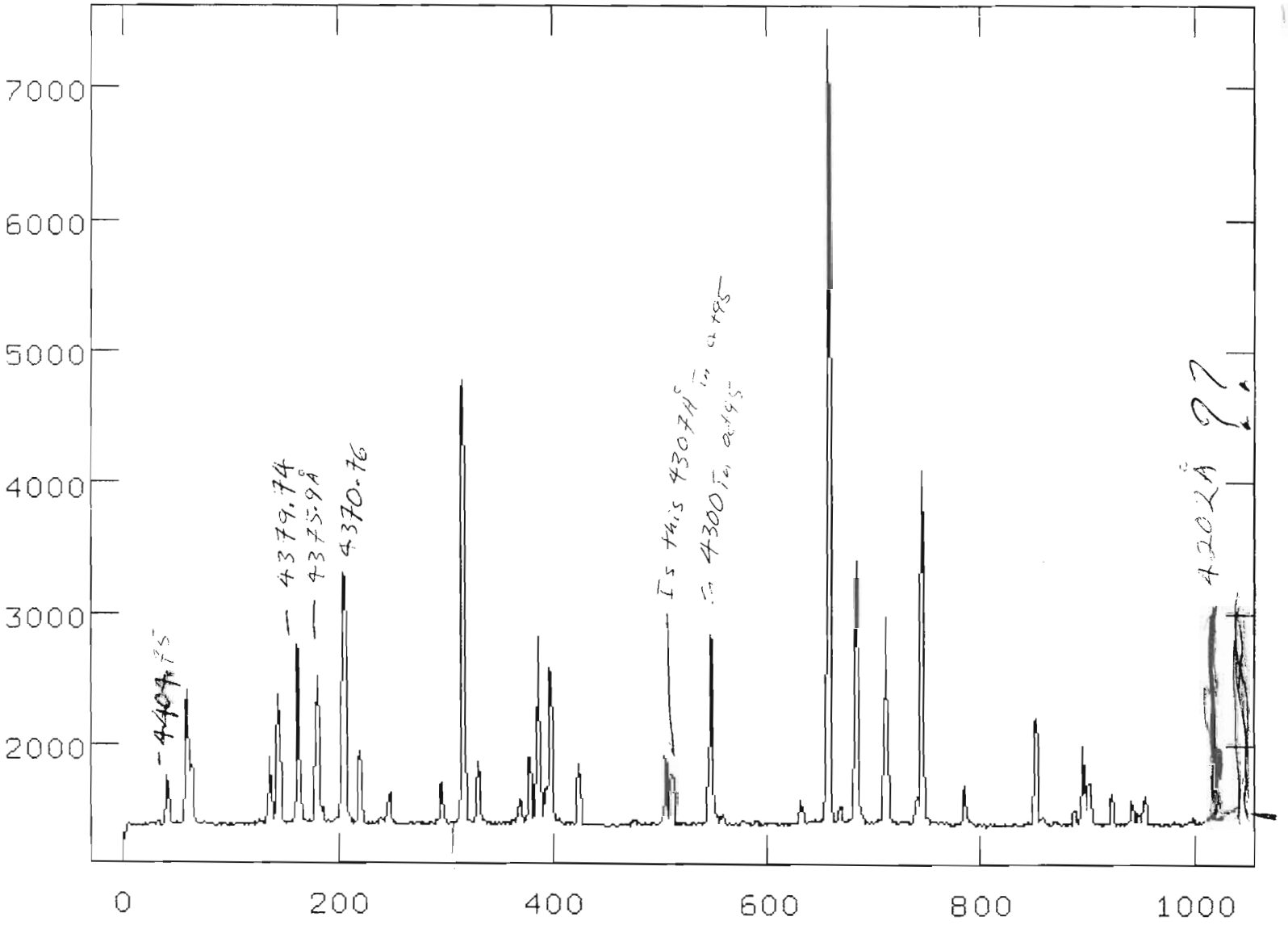
1800 ln/mm Grating

Not 4382/4472 (blue end of region)
Center 4460 + 1Å Typical ~~4250~~ But Bln wants 4465Å center ± 5Å Blue/max grade preferred.

4463Å = tyrating 42.50


NOAO/IRAF V2.10.3BETA gwade@phob s.astro.uwo.ca Thu 12:13:53 08-Sep-9
[test.ec]: A shell program FeAr comparison atlas 60, ap:1 beam:1
8000
6000
4000
2000
0
4600
4550
4500
4450
4400
Wavelength (angstroms)
4581.93
4545.08
4510.7334
4481
4474
Pixel #455
4448.88
4426.01
4404.7525
1800 ln/mm
Wen suggested Grating
As of MAR4/97 (Blue end of Region)
Center 4450 ± 1Å Tgrating 42.50
But Bln wants 4465Å center ± 5Å Blue ward error preferred.
4463Å = Tgrating 42.50
42.60 JAN 2001

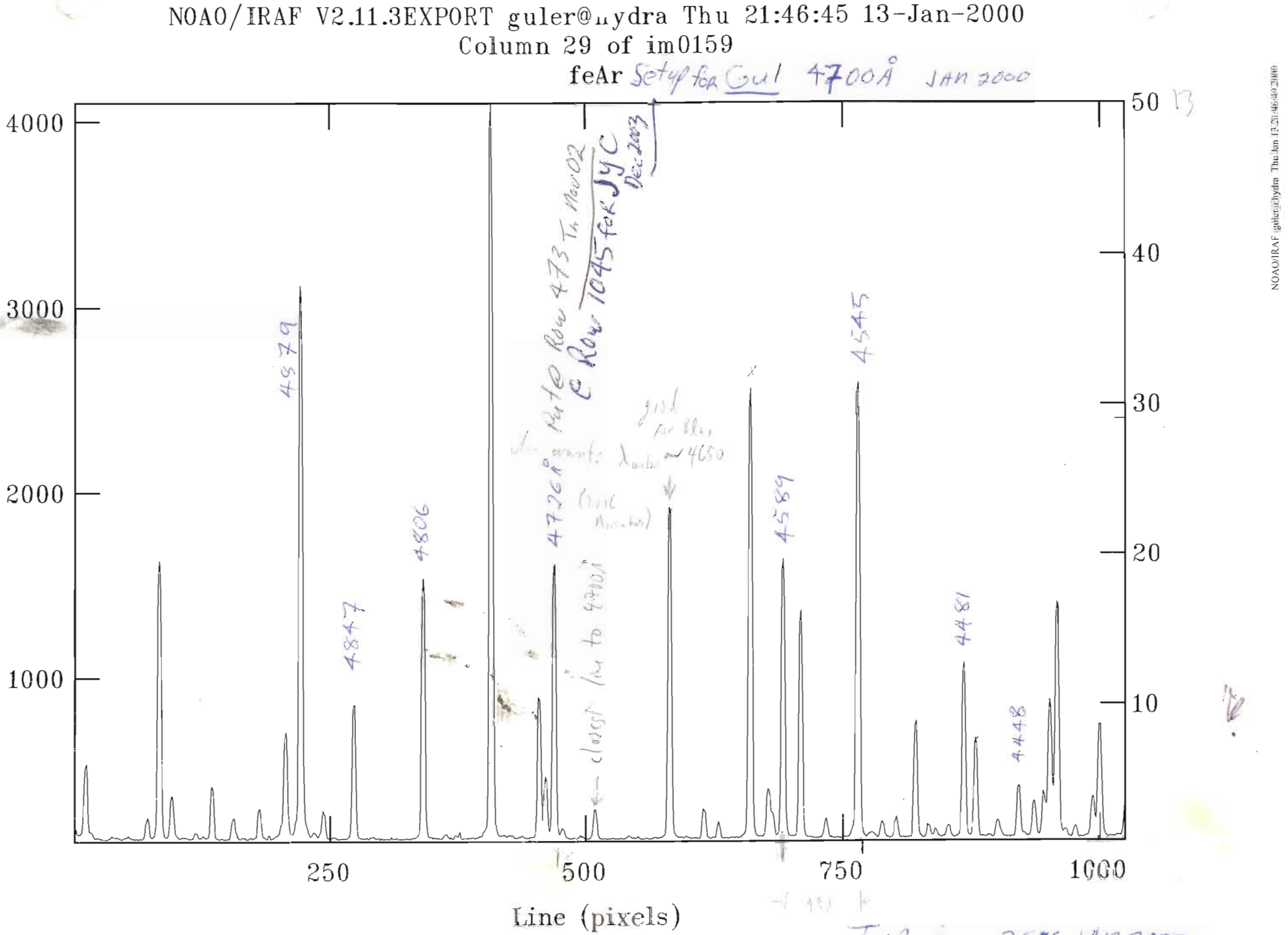
NOAO/IRAF V2.10EXPORT jthomson@perseus Sat 00:30:08 01-Oct-94
[cc25739.ms]: FeAr 40.00s ap:1 beam:1

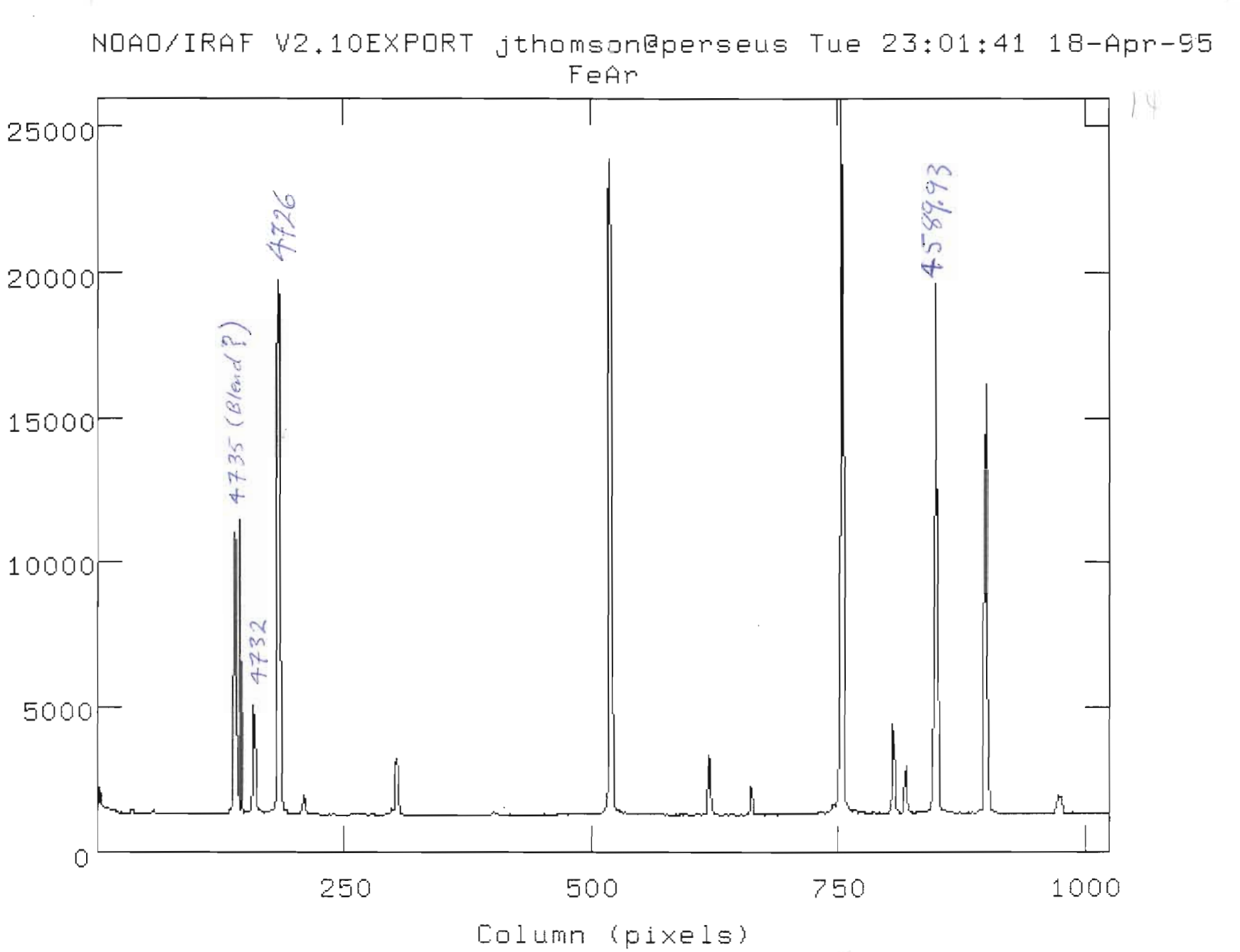


1800ln/mm @4298 Angstroms

G=4446

207 Å Range

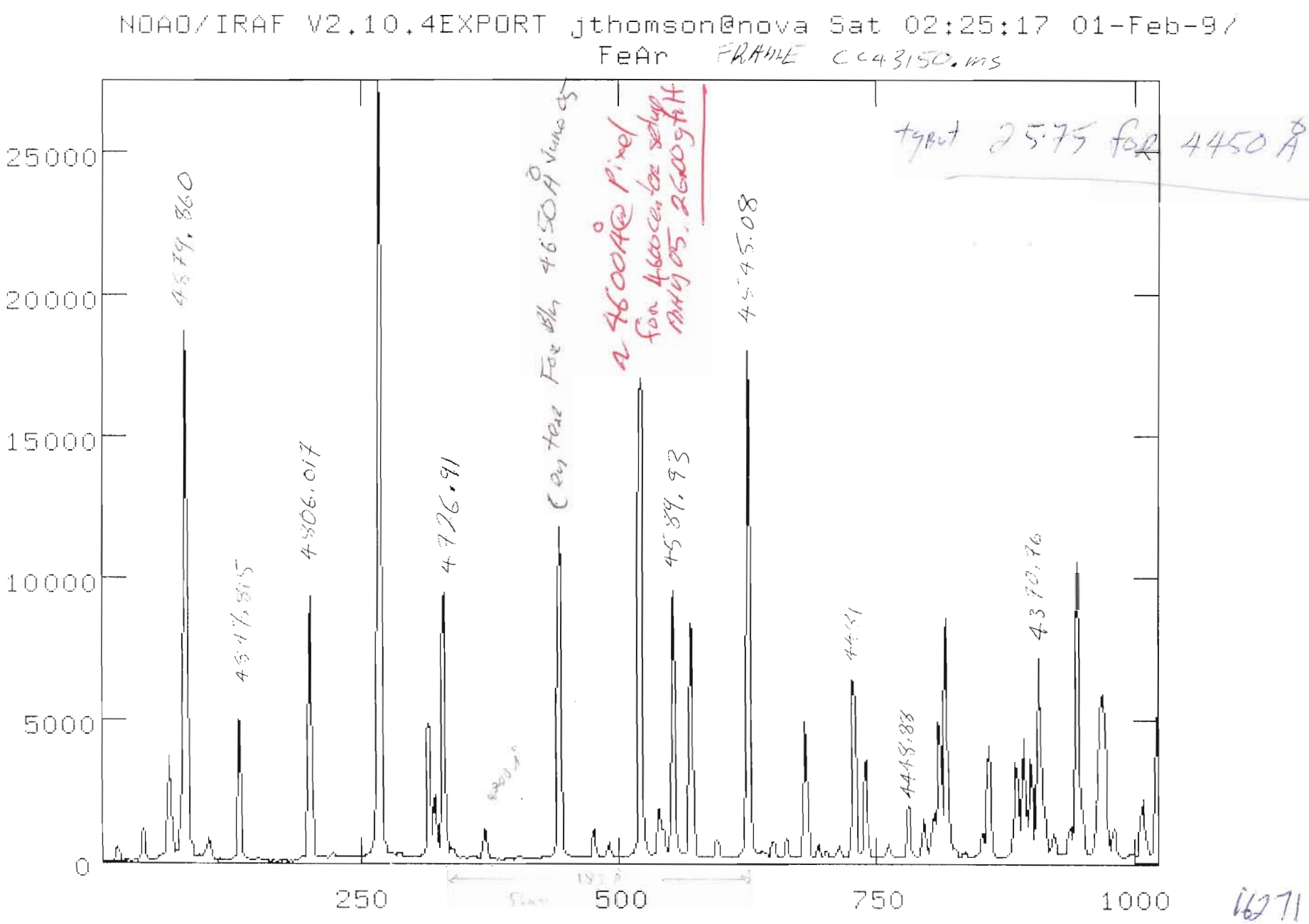

NOAO/IRAF V2.11.3EXPORT guler@hydra Thu 21:46:45 13-Jan-2000
Column 29 of im0159
feAr Setup for Gul 4700Å JAN 2000
4000
3000
2000
1000
50
40
30
20
10
250
500
750
1000
Line (pixels)
4579
4847
4806
4726Å Rotated Row 473 Th Mar02
E Row 1045 for JyC Dec 2003
4545
4589
4481
4448
grid for blue ~4650
closest line to 4700Å
NOAO/IRAF guler@hydra Thu Jan 13 21:46:49 2000
TG 4700Å setup may2001 600C grating
TGRATING 2646 JAN2000
OK FOR FAYet too "Fay"



1800 ln/mm grating, Center @ 468.8 nm, G=4680, tilt=43.95 degs

G ≈ 4700 as of Feb 16/95

G = 4713 @ 468.8 nm on June 2/96

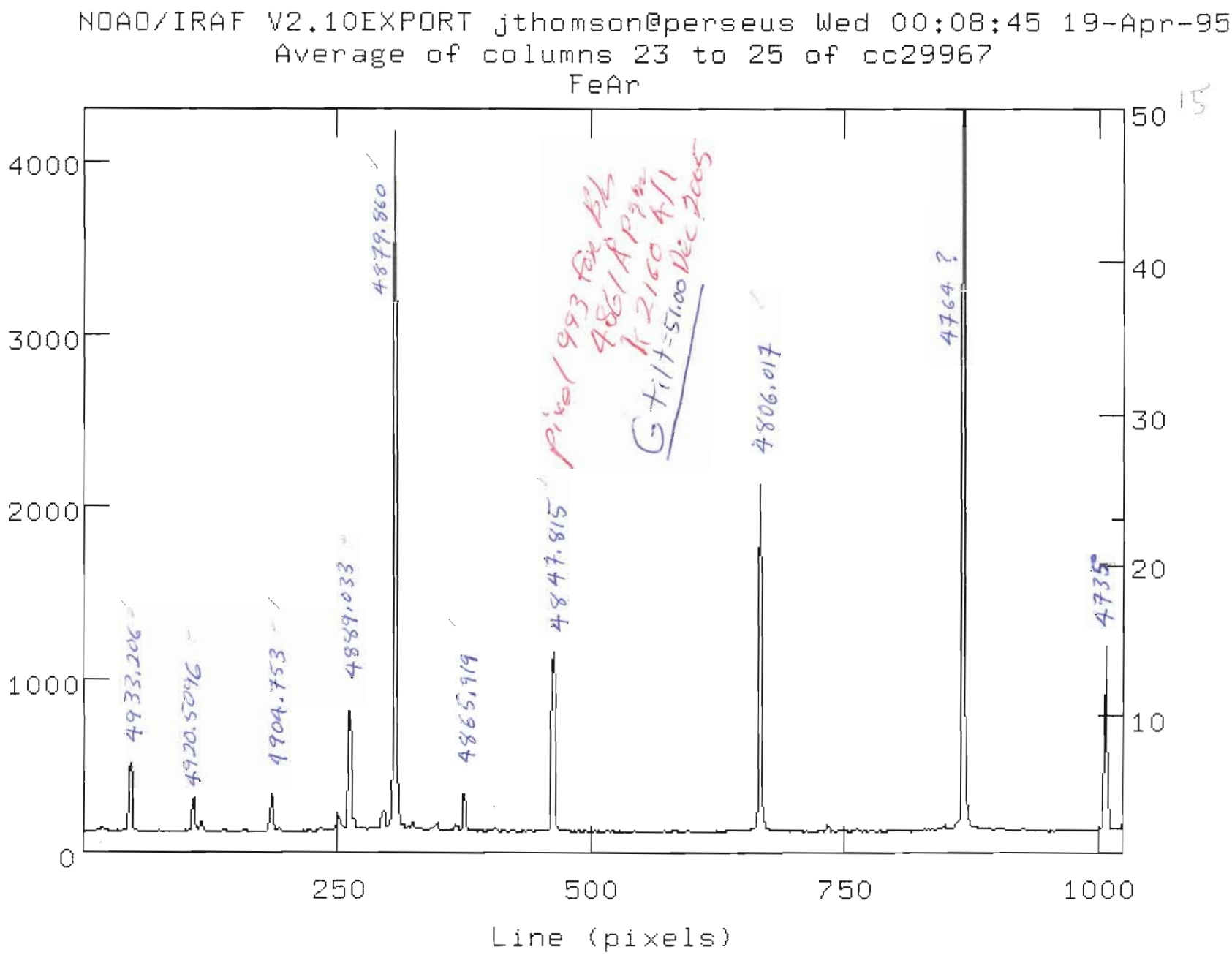


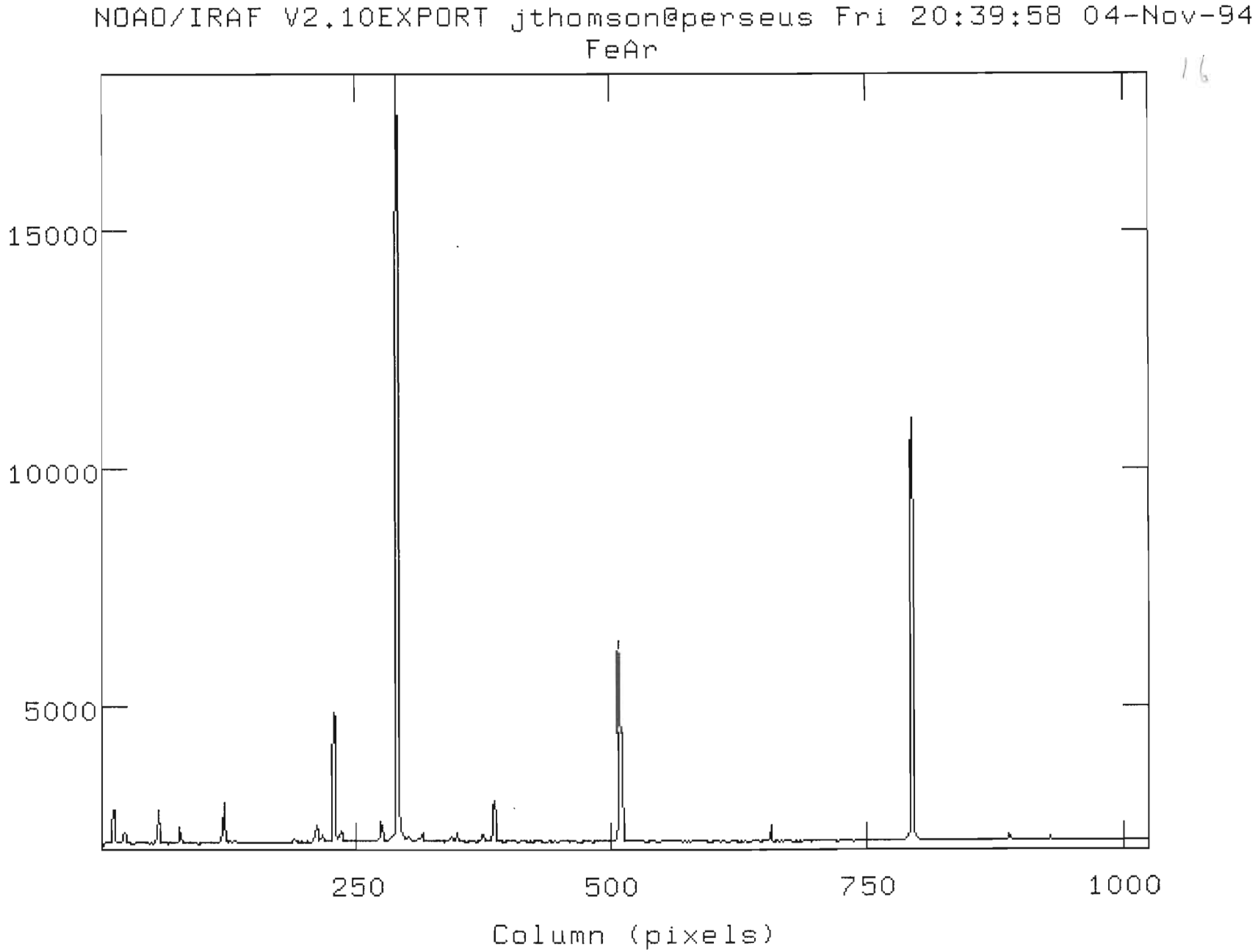
typical 2575 for 4450 Å

~4600Å/pixel for 4800cen for setup ran 05.26apr94

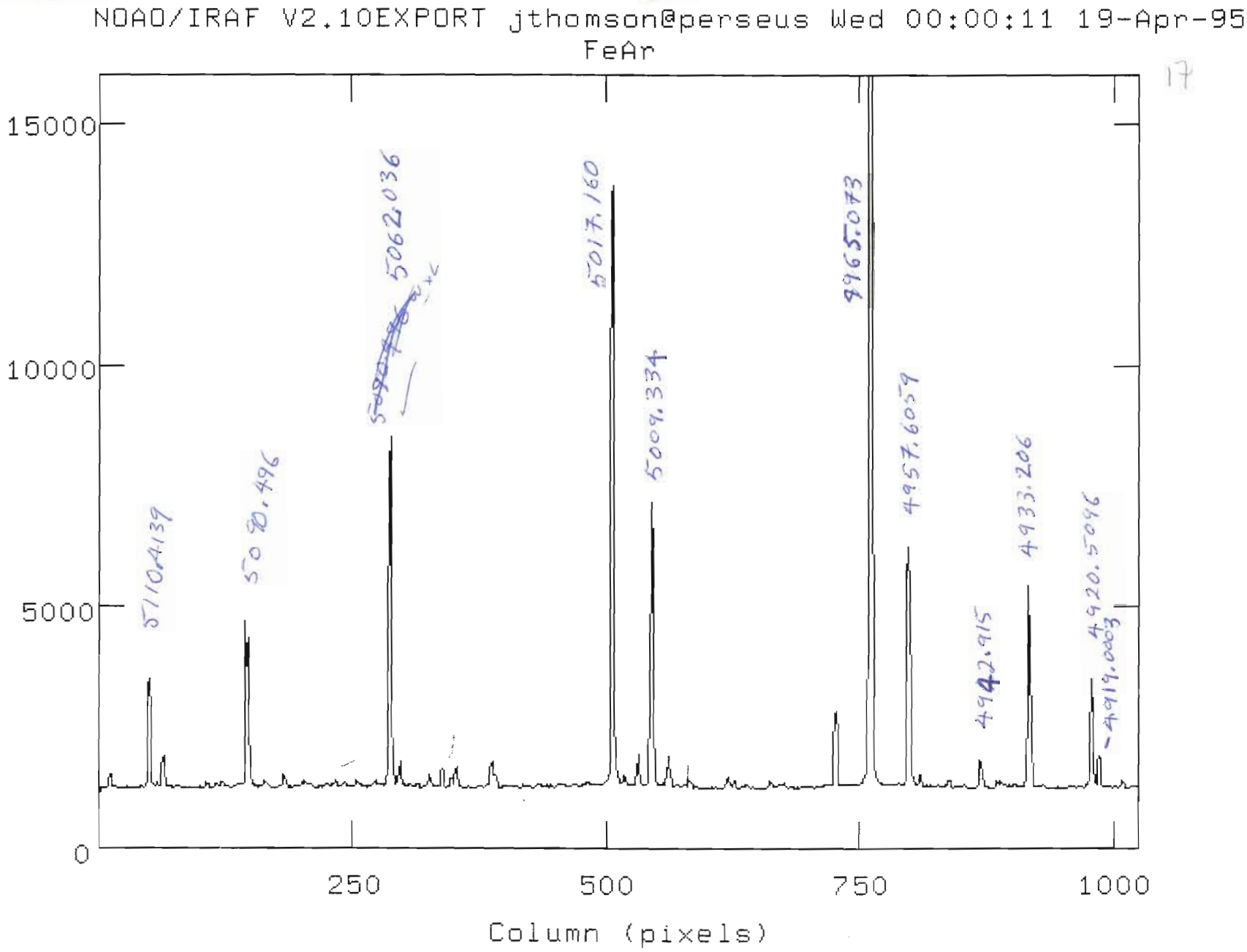
JHN 97 600 l/mm 4600Å center Mn setup
Tgrating % ; degs

6771

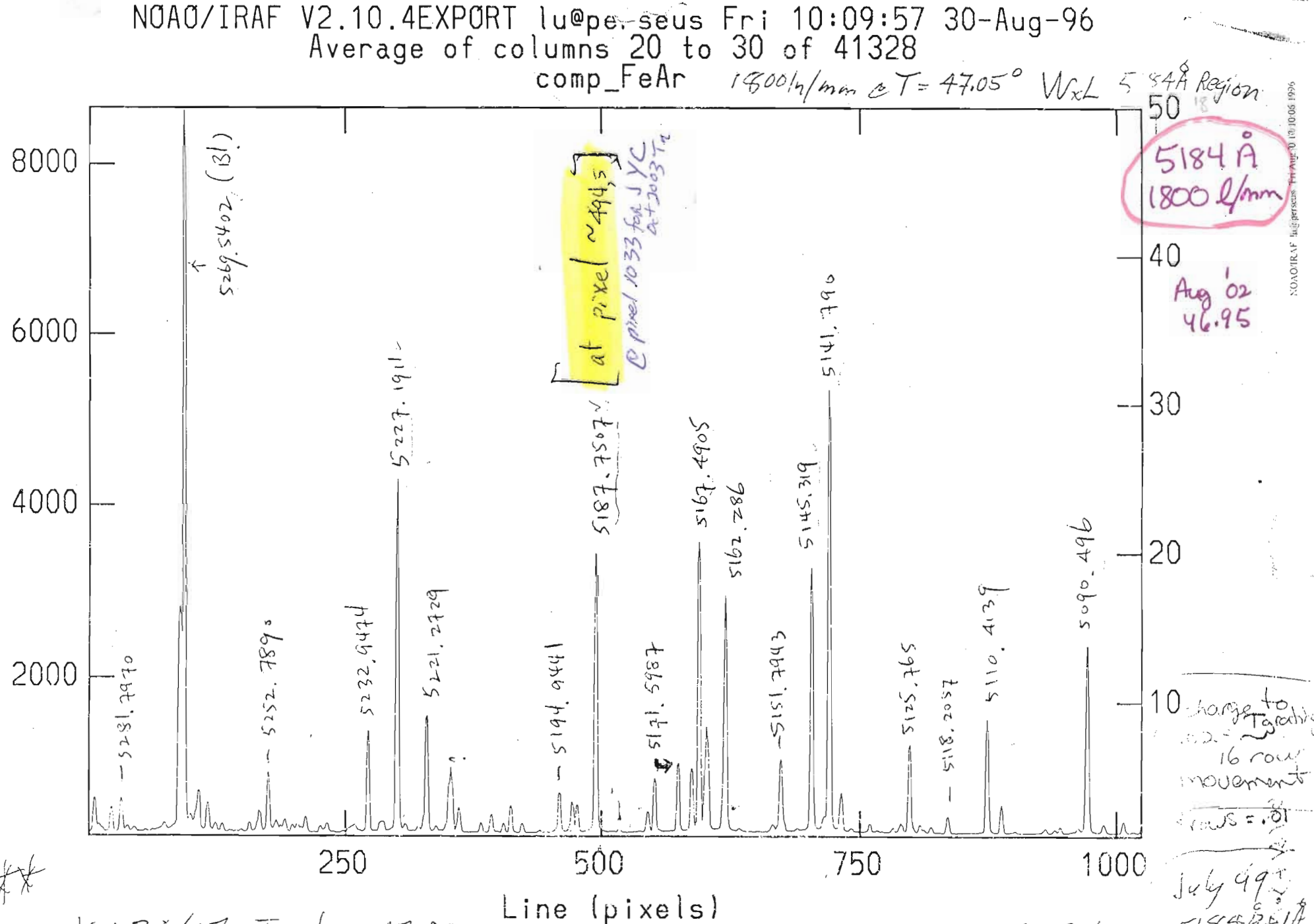

NOAO/IRAF V2.10EXPORT jthomson@perseus Wed 00:08:45 19-Apr-95
Average of columns 23 to 25 of cc29967
FeAr
4000
3000
2000
1000
0
50
40
30
20
10
250
500
750
1000
Line (pixels)
4933.206
4920.5096
4904.753
4889.033
4879.860
4865.919
4847.815
4806.017
4764 ?
4735
Pixel 993 for BL
4861 Ap 2160 A/1
G 7111=51.00 Dec 2005
1800 ln/mm grating,Center @ 486.1 nm,G=4820,tilt=44.95 degs



1200 ln/mm 4862 Angs, H Beta,2nd order,BG39 filter,G=5960



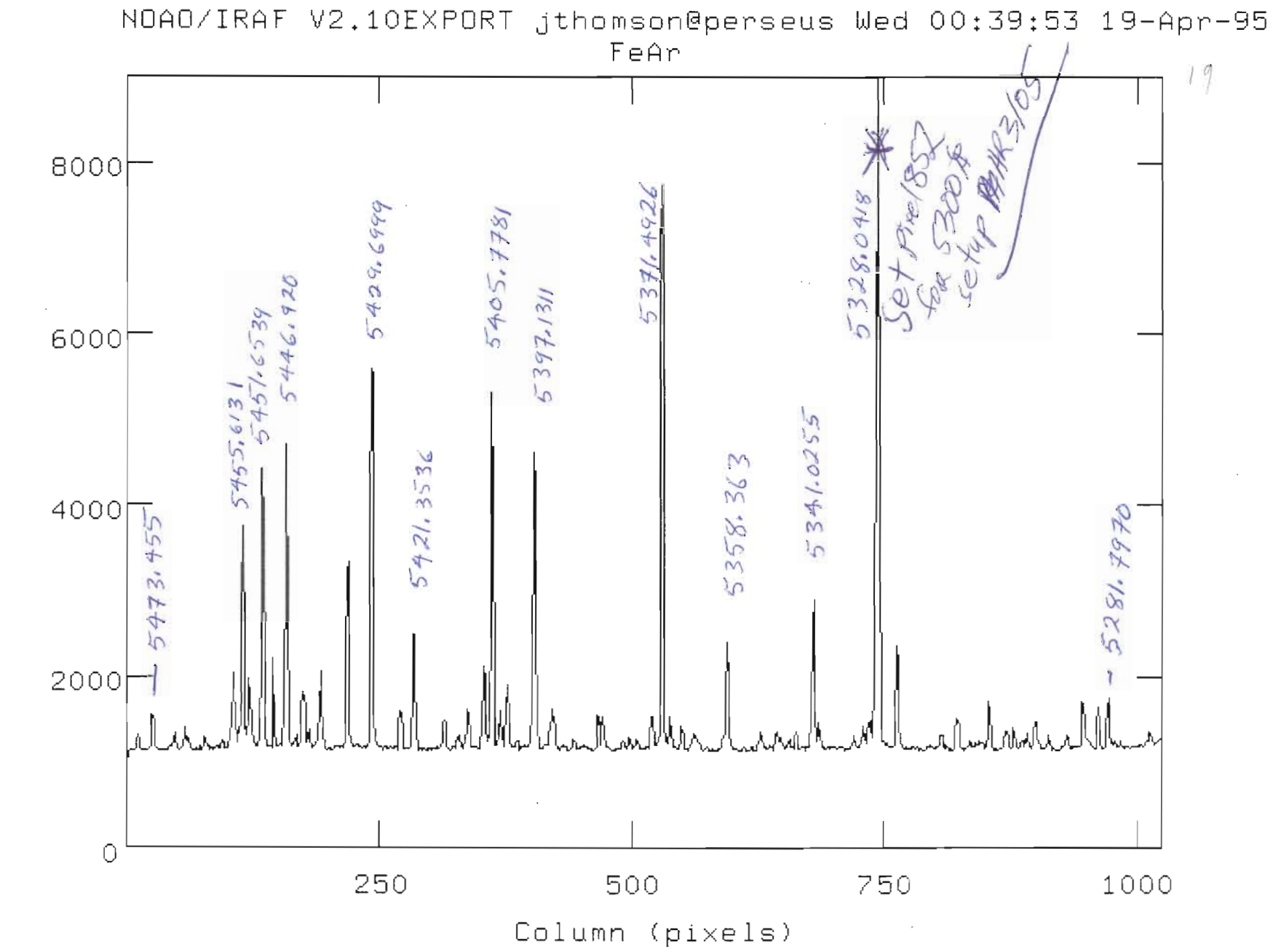
1800 ln/mm grating,Center @ 501.6 nm,G=4940,tilt=46.1 degs



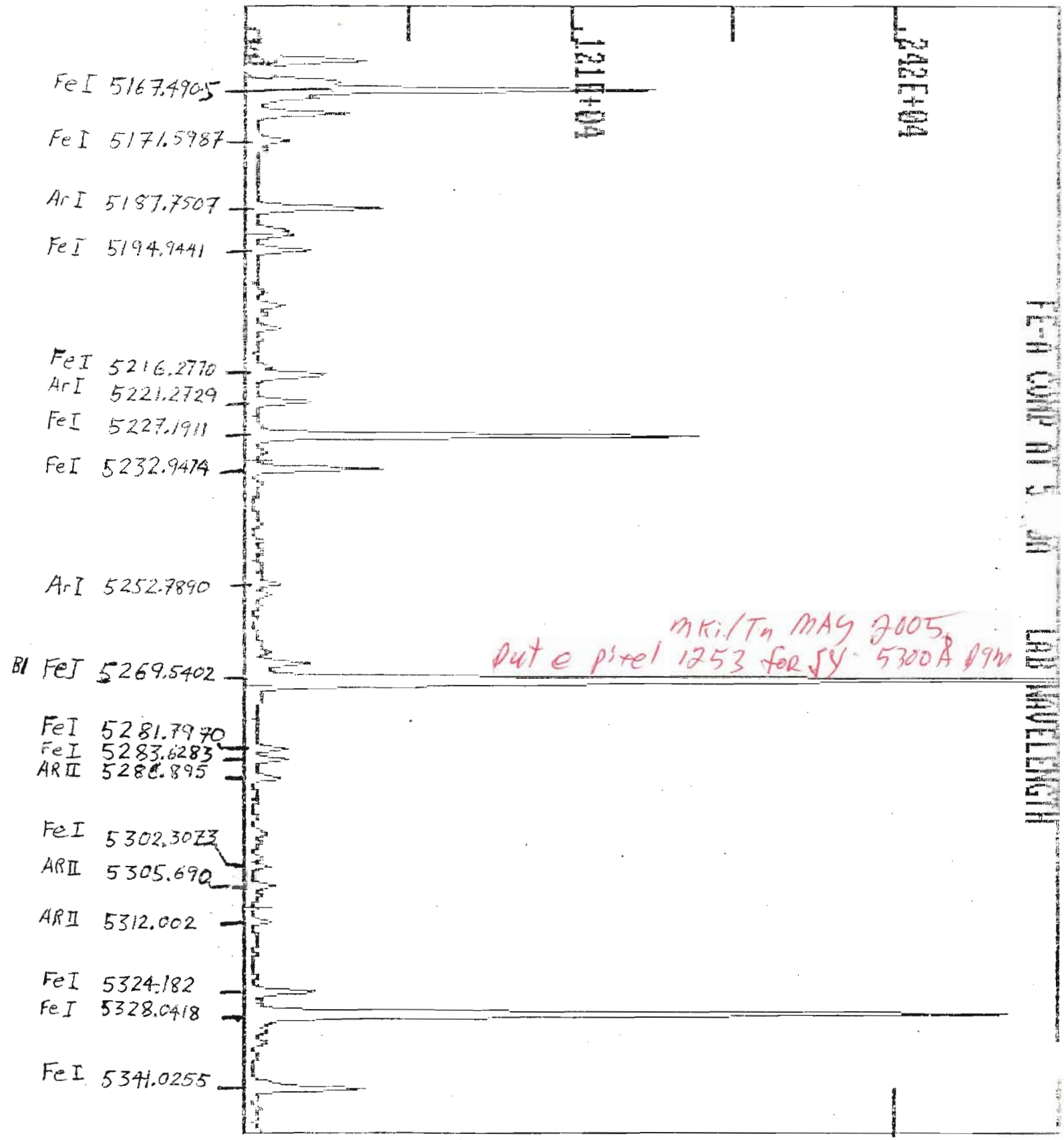
change to Tgrating
16 row movement
rows = .01
July 99
5184 Å ± 1 Å
@ 47.00°

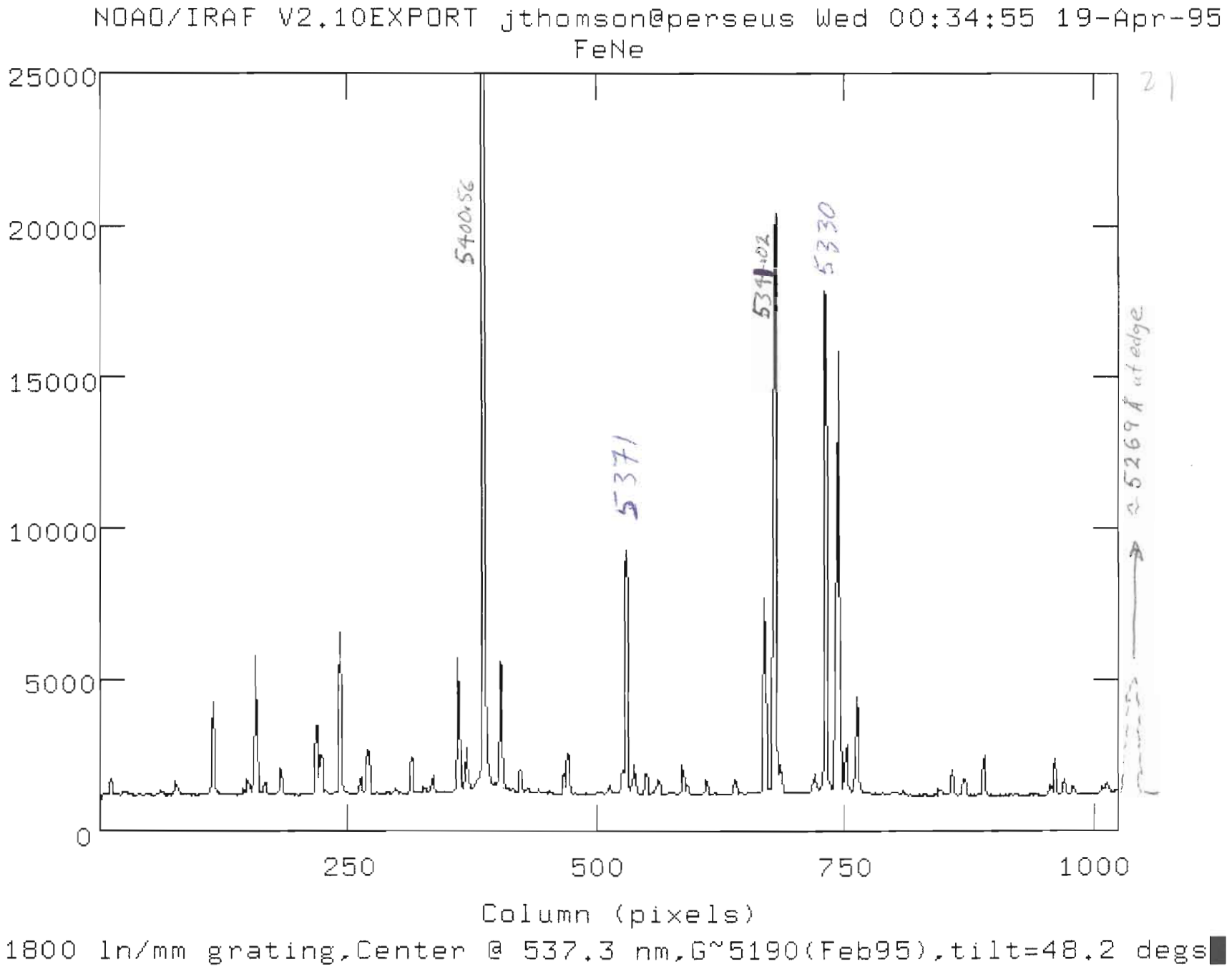
MAY 30/97 Tgrating → 47.06
puts 5184 Å @ Row 497

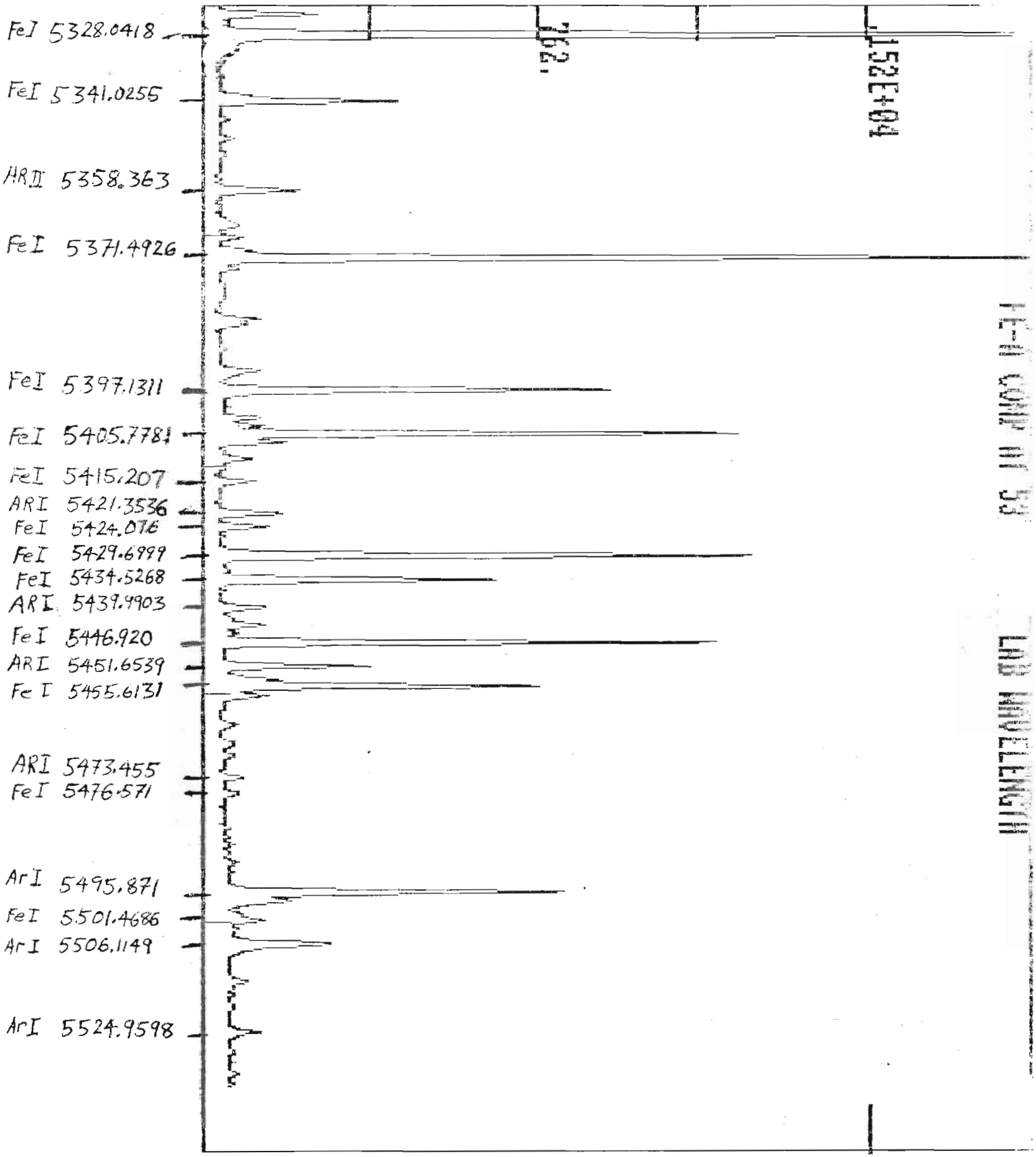
now 5212 steps as of Nov 21/96
46.906 Deins

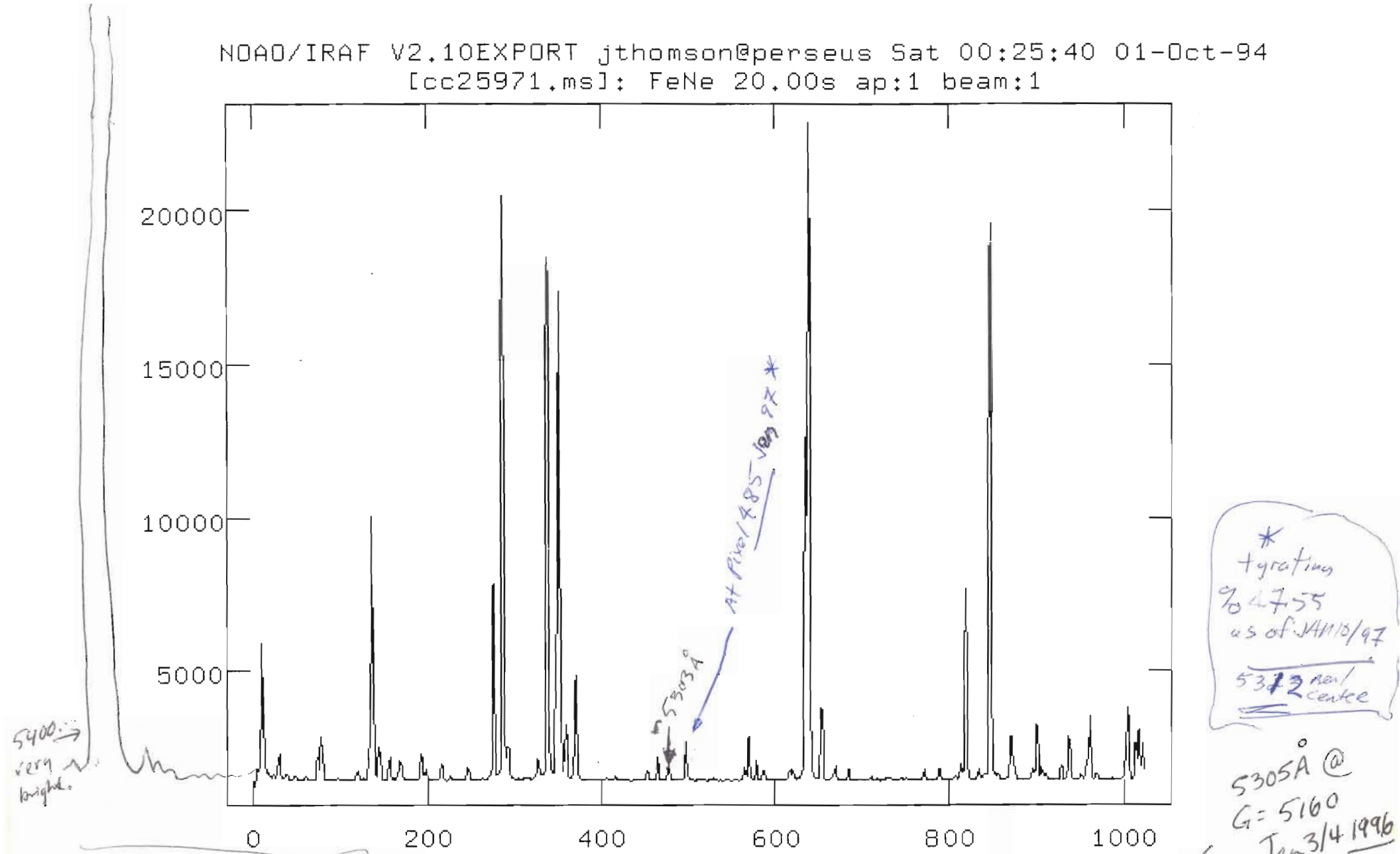


1800 ln/mm grating,Center @ 537.3 nm,G~5190(Feb95),tilt=48.2 degs


Fe I 5167.4905
Fe I 5171.5987
Ar I 5187.7507
Fe I 5194.9441
Fe I 5216.2770
Ar I 5221.2729
Fe I 5227.1911
Fe I 5232.9474
Ar I 5252.7890
B1 Fe I 5269.5402
Fe I 5281.7970
Fe I 5283.6283
AR II 5288.895
Fe I 5302.3073
AR II 5305.690
AR II 5312.002
Fe I 5324.182
Fe I 5328.0418
Fe I 5341.0255
WAVELENGTH
mki/Tn MAG 7005.
Put e pixel 1253 for 5y 5300Å 09m


NOAO/IRAF V2.10EXPORT jthomson@perseus Wed 00:34:55 19-Apr-95
FeNe
25000
20000
15000
10000
5000
0
250
500
750
1000
Column (pixels)
5400.56
5371
5341.02
5330
≥ 5269 Å at edge
1800 ln/mm grating,Center @ 537.3 nm,G~5190(Feb95),tilt=48.2 degs


Fe I 5328.0418
Fe I 5341.0255
Ar II 5358.363
Fe I 5371.4926
Fe I 5397.1311
Fe I 5405.7781
Fe I 5415.207
Ar I 5421.3536
Fe I 5424.076
Fe I 5429.6999
Fe I 5434.5268
Ar I 5439.9903
Fe I 5446.920
Ar I 5451.6539
Fe I 5455.6131
Ar I 5473.455
Fe I 5476.571
Ar I 5495.871
Fe I 5501.4686
Ar I 5506.1149
Ar I 5524.9598
762.
1526.04
FE-AR COMP 11 53
LAB WAVELENGTH



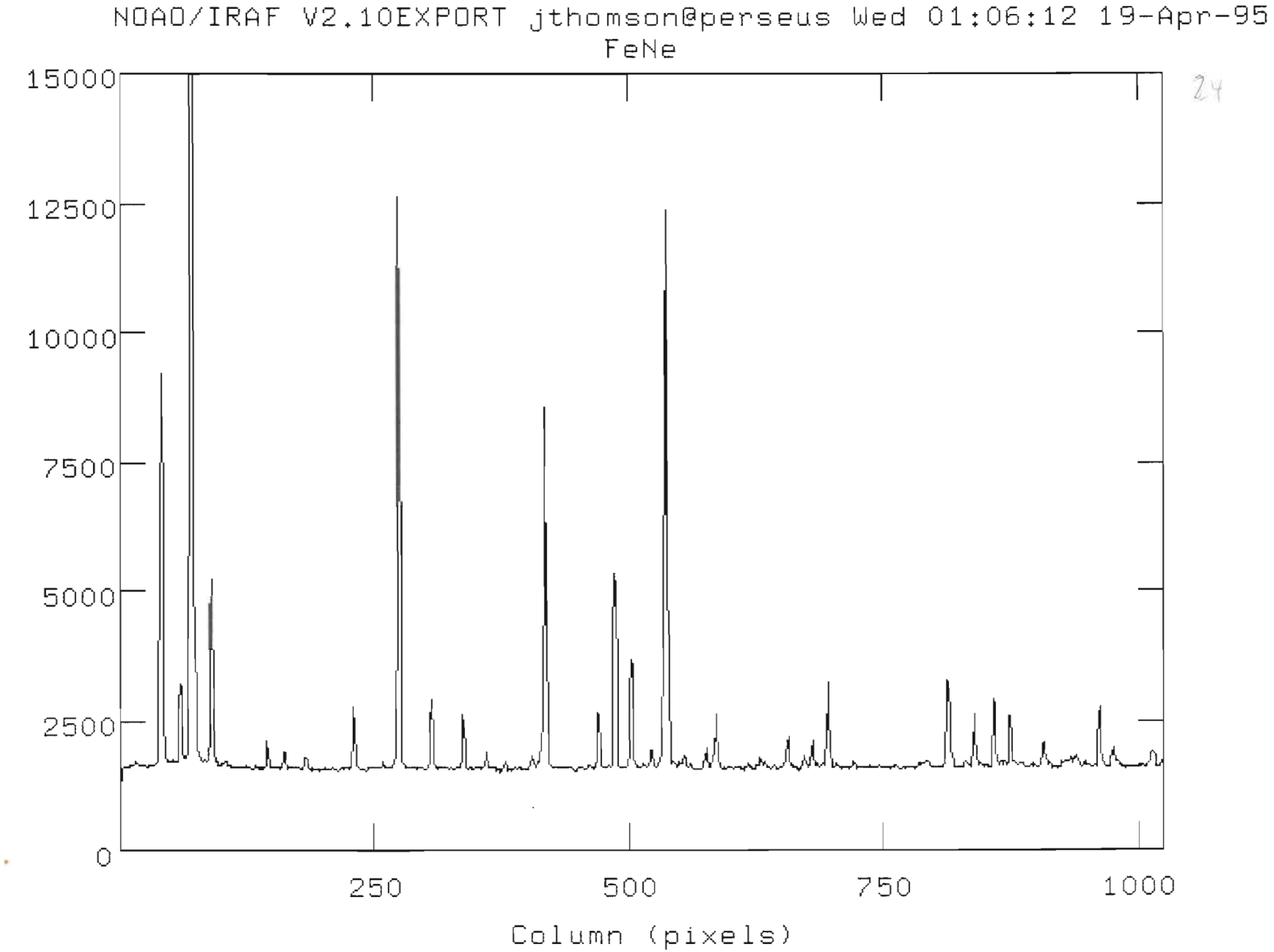
Note Apr 97
4756 ideal with
± 5 12 center @ 5298Å
* 4775 July 27/97

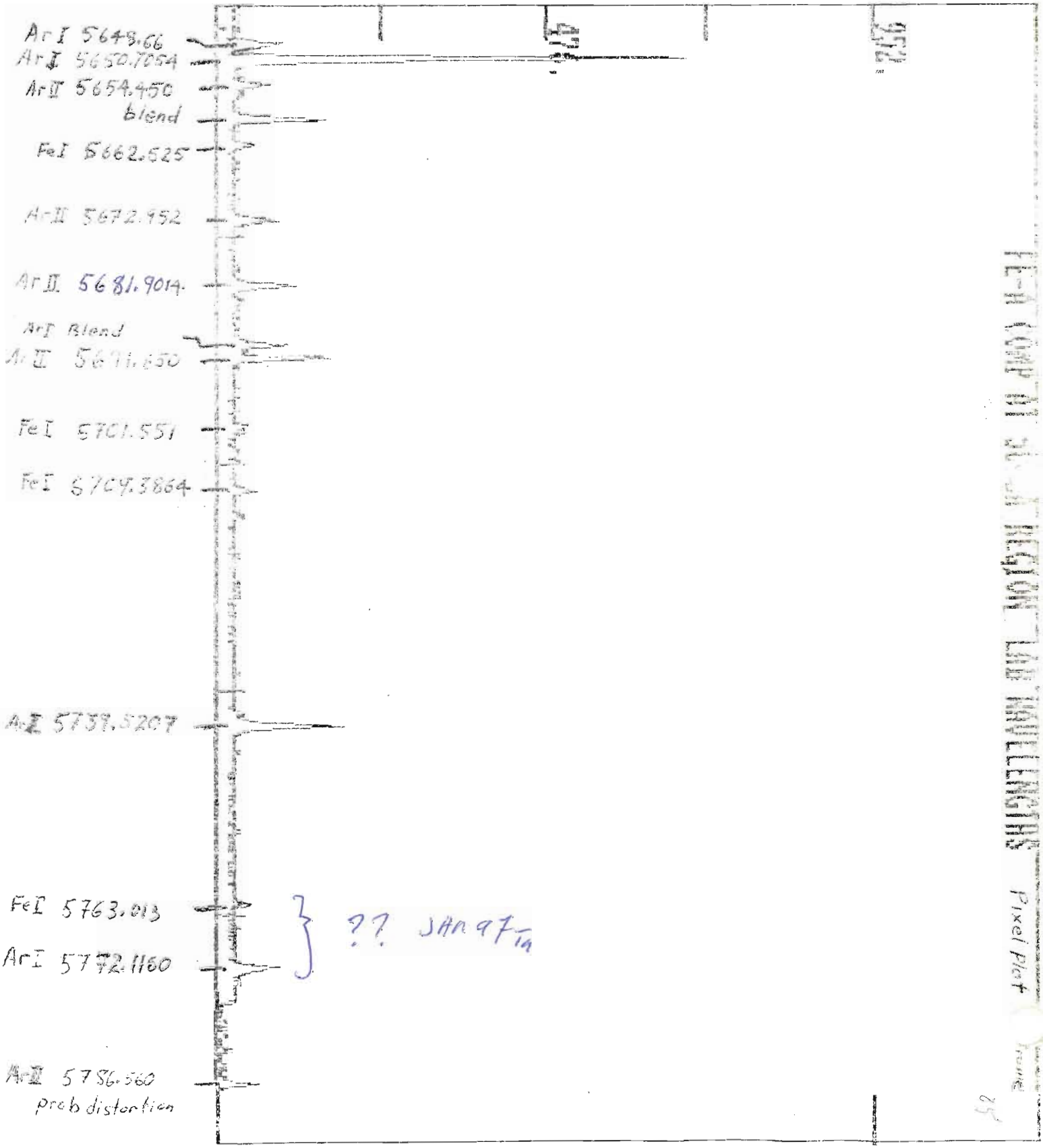
not really.

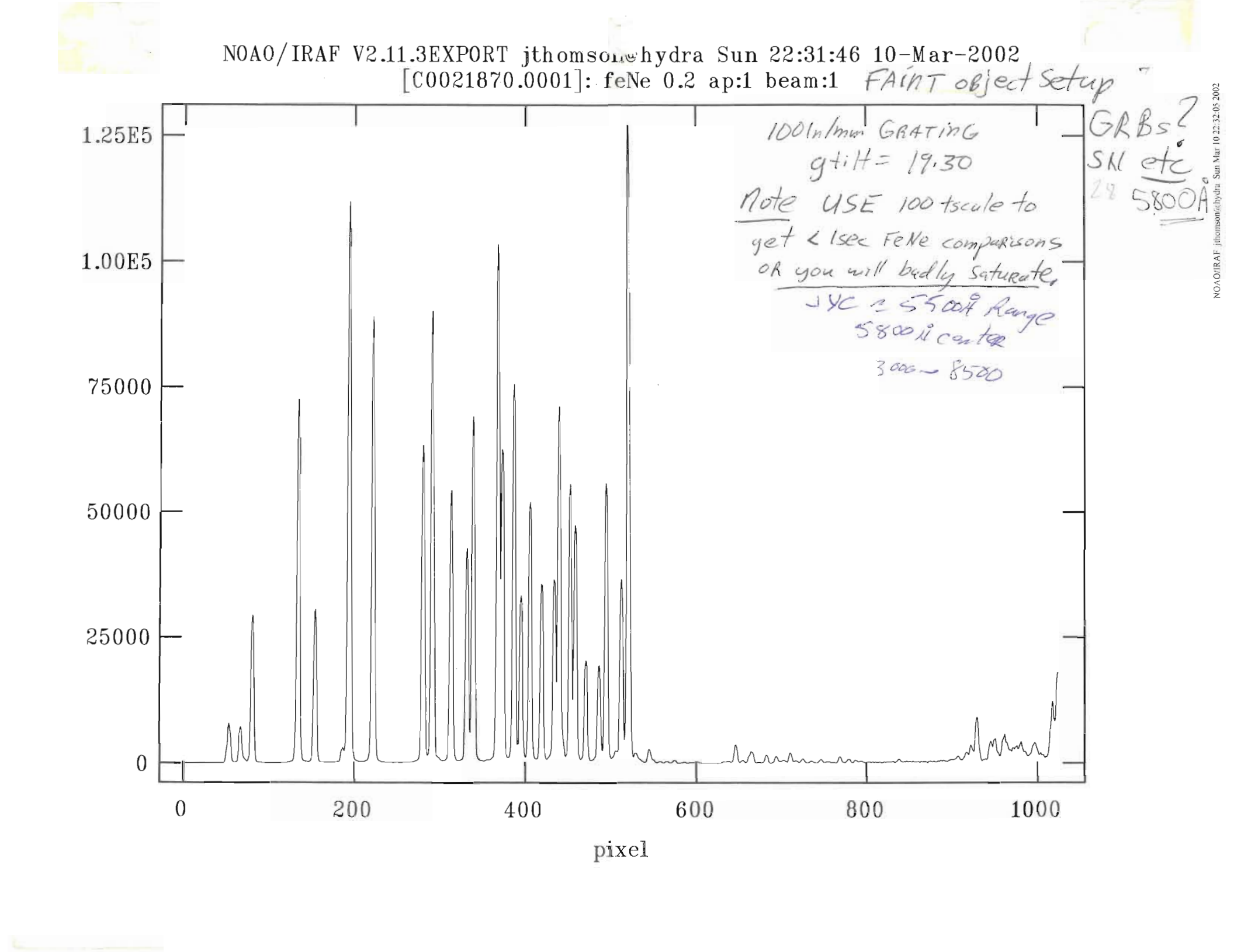
* tyrating
@ 4755
as of JAN 10/97
5312 real center

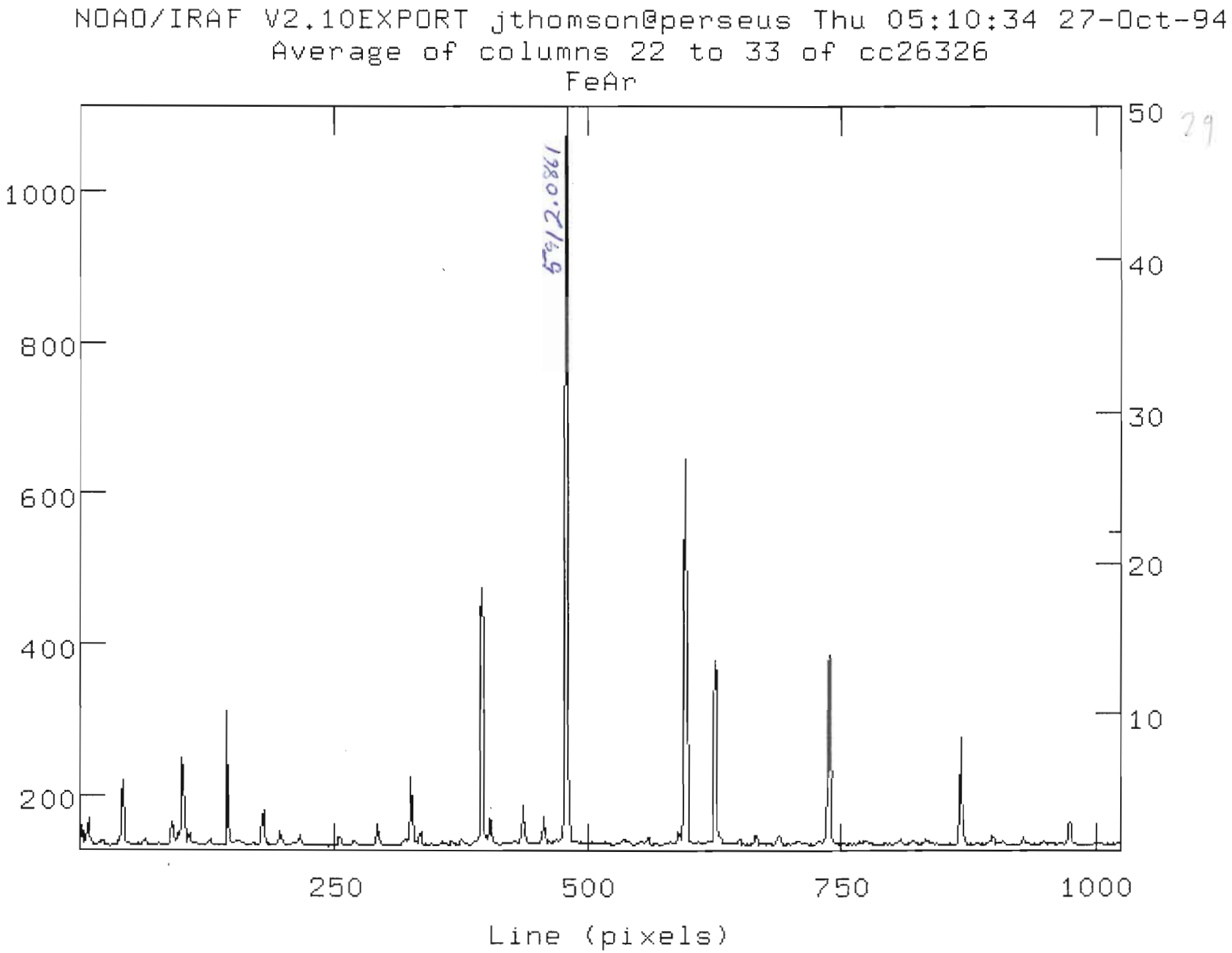
5305Å @
G = 5160
Jan 3/4 1996

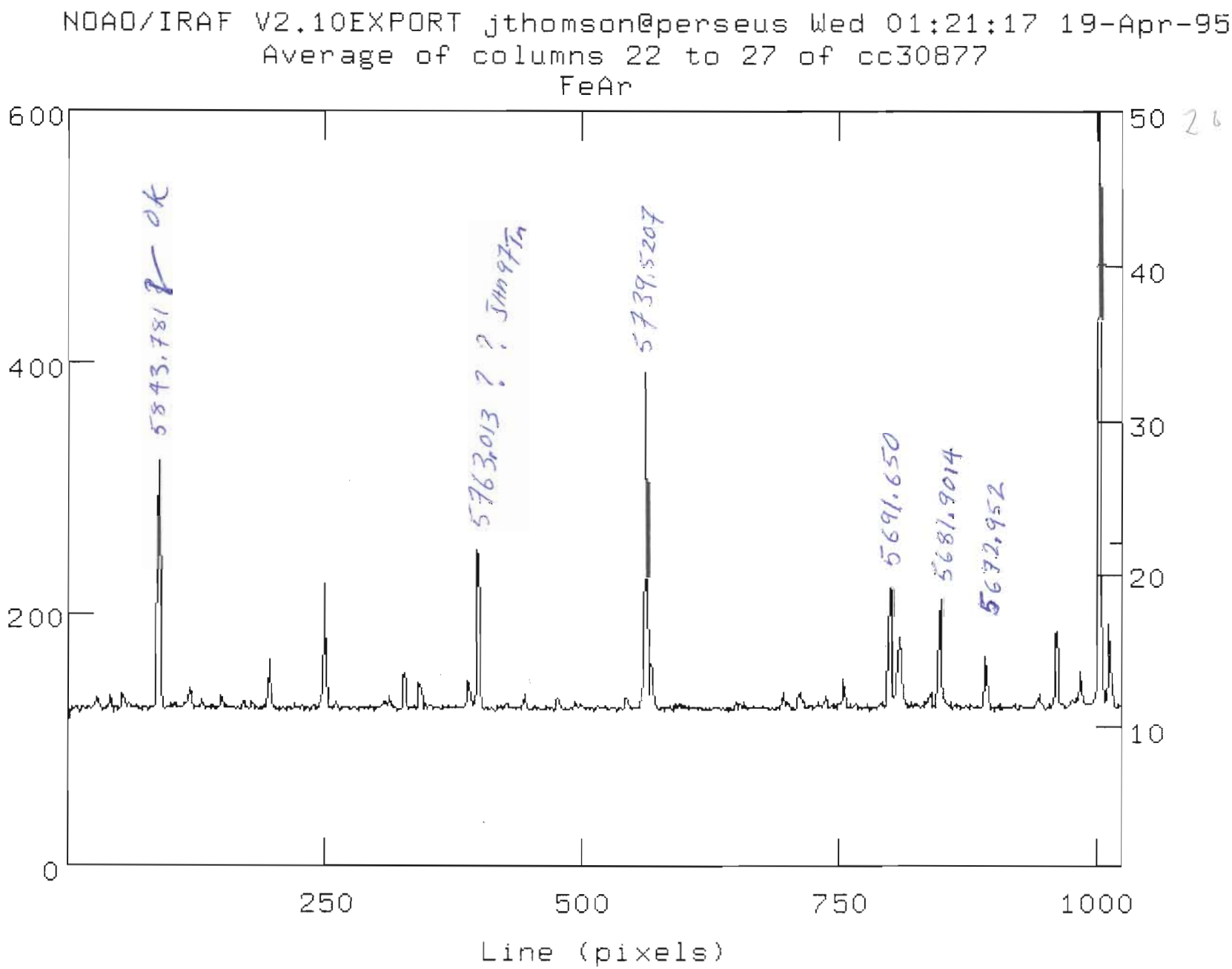
G = 5115
G = 5140 as of Feb 16/95
To get 5400 Region Too
Tilt 4775

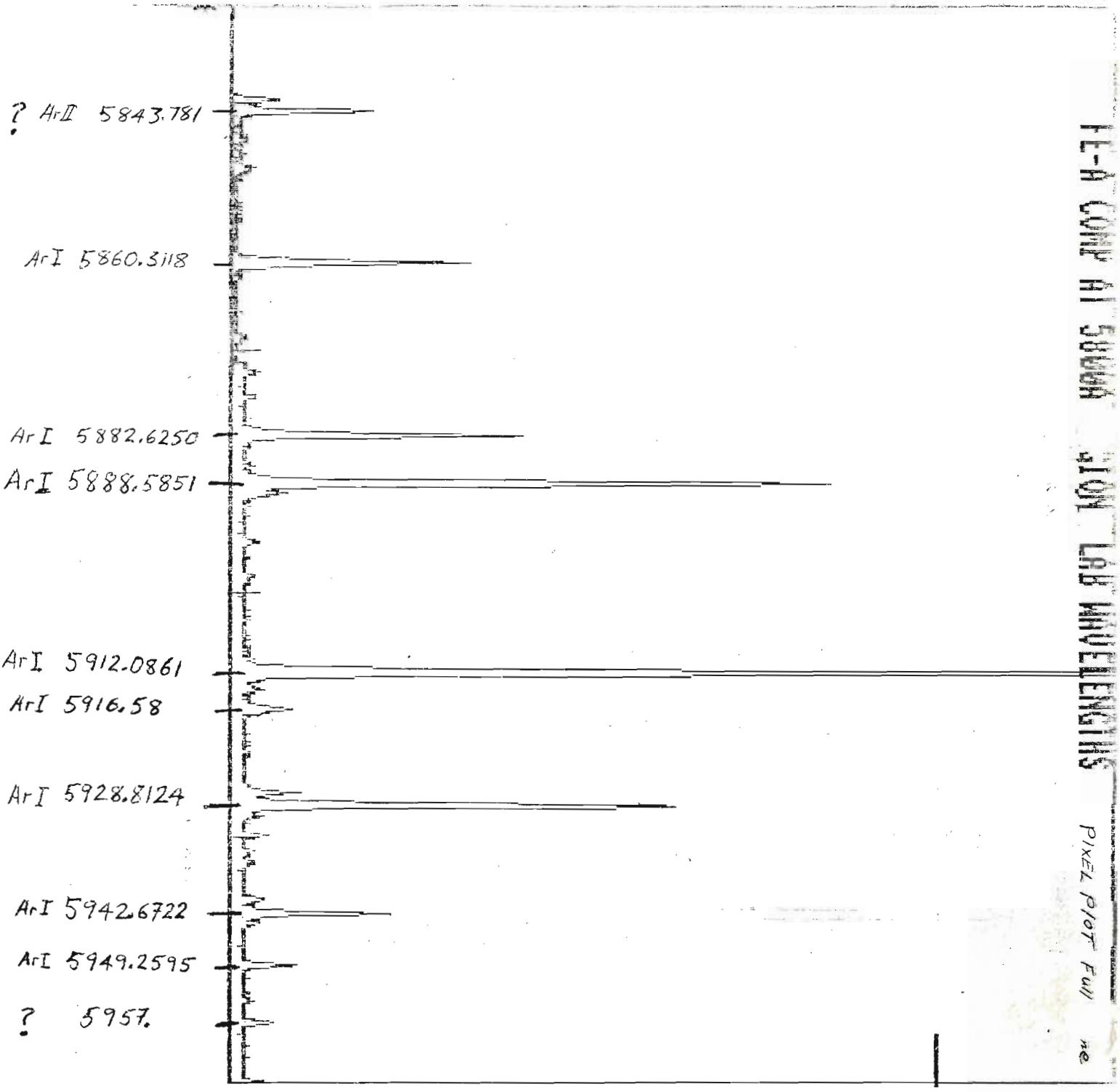

NOAO/IRAF V2.10EXPORT jthomson@perseus Wed 01:06:12 19-Apr-95
FeNe
15000
12500
10000
7500
5000
2500
0
250
500
750
1000
Column (pixels)
1800 ln/mm grating,Center @ 556.8 nm,G=5323,tilt=49.7 degs

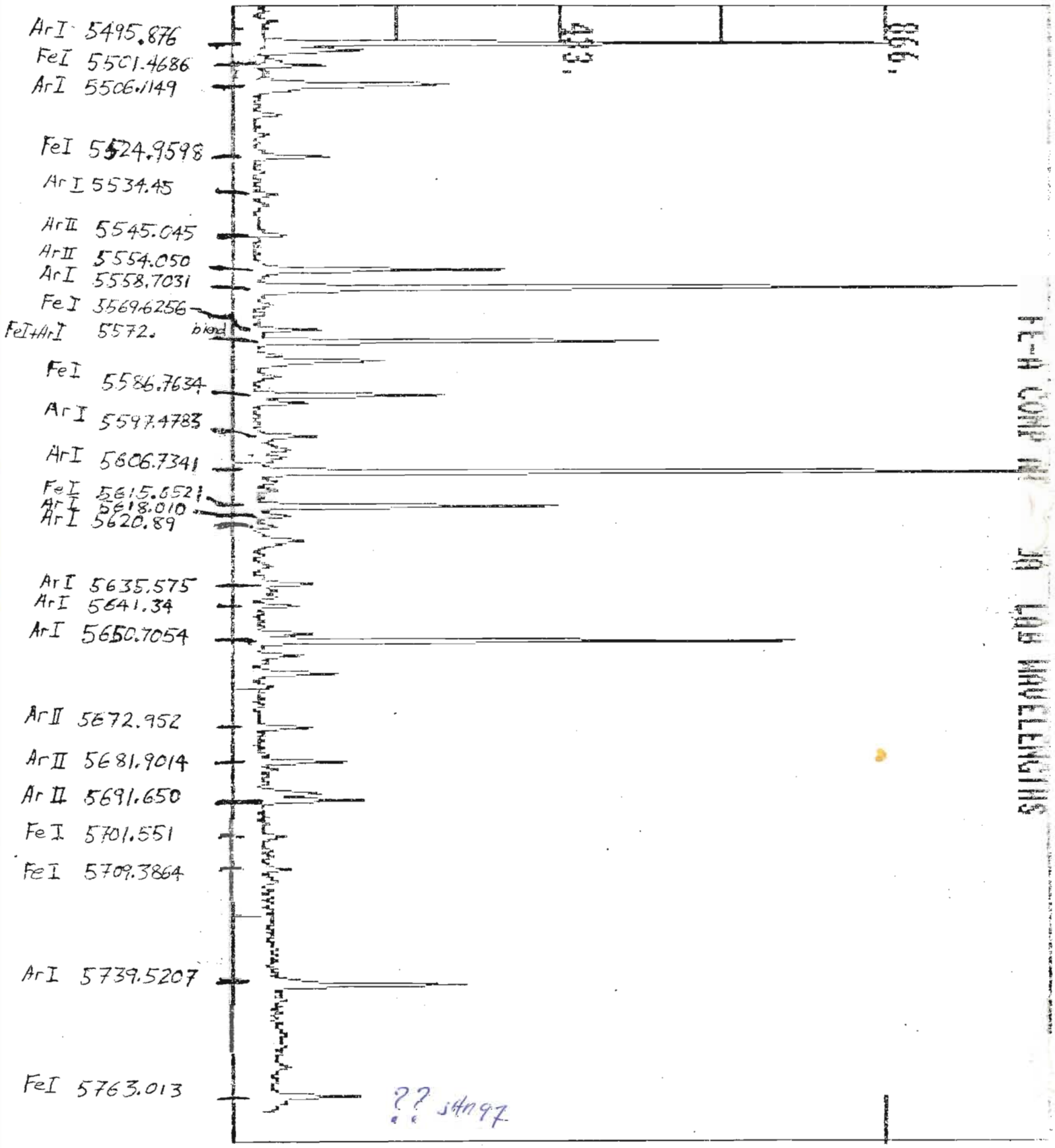

Ar I 5648.66
Ar I 5650.7054
Ar II 5654.450
blend
Fe I 5662.525
Ar II 5672.952
Ar II 5681.9014
Ar I Blend
Ar II 5691.650
Fe I 5701.551
Fe I 5709.3864
Ar I 5739.5207
Fe I 5763.013
Ar I 5772.1160
Ar II 5786.560
prob distortion
?? JAN 97
Pixel Plot
Frame 2

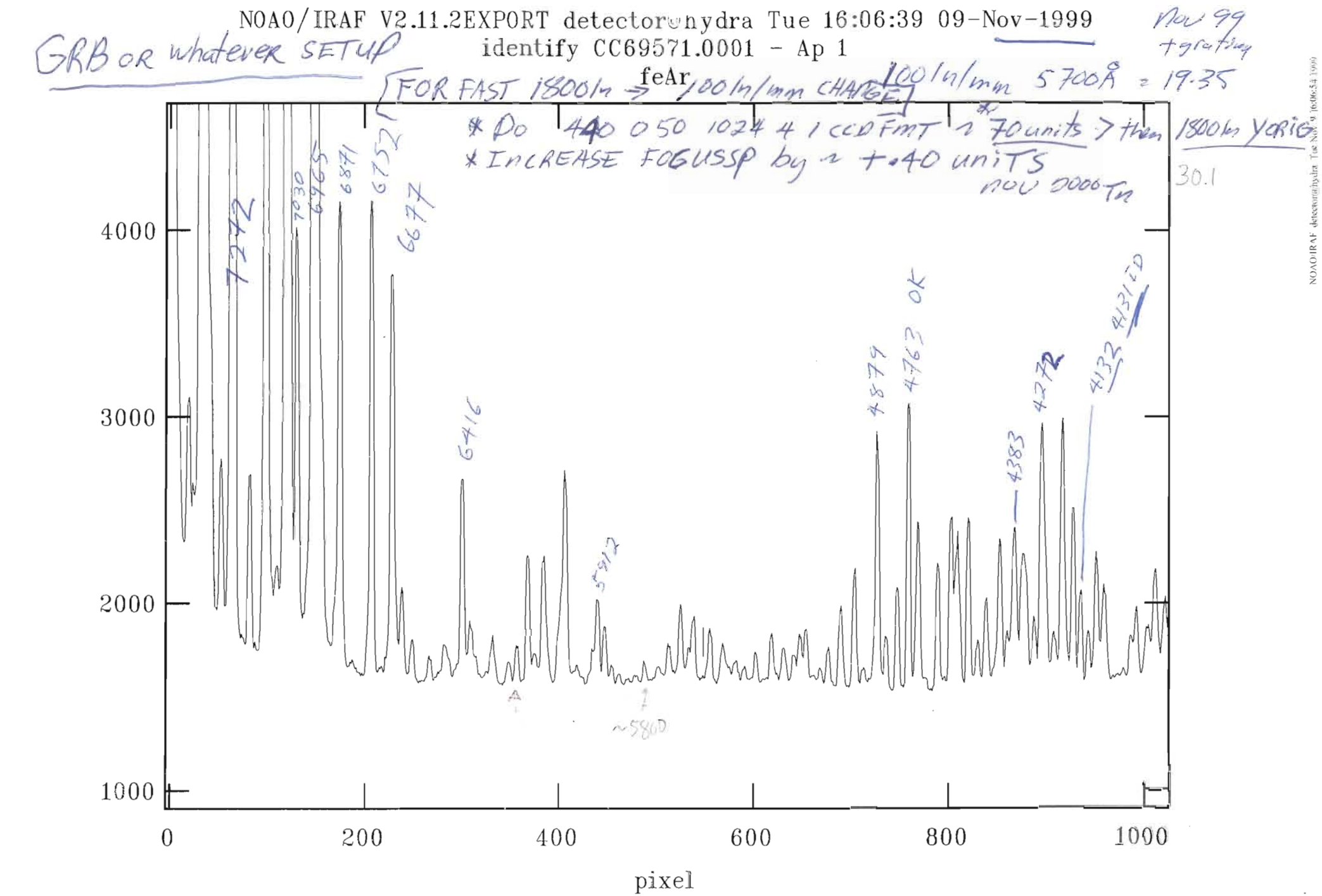

NOAO/IRAF V2.11.3EXPORT jthomson@hydra Sun 22:31:46 10-Mar-2002
[C0021870.0001]: feNe 0.2 ap:1 beam:1 FAINT object setup
1.25E5
1.00E5
75000
50000
25000
0
0
200
400
600
800
1000
pixel
100ln/mm GRATING
gtilt= 19.30
Note USE 100 tscale to
get < 1sec FeNe comparisons
OR you will badly saturate,
JYC ~ 5500Å Range
5800Å center
3000 - 8500
GRBs?
SN etc
5800Å
NOAO/IRAF jthomson@hydra Sun Mar 10 22:32:05 2002


NOAO/IRAF V2.10EXPORT jthomson@perseus Thu 05:10:34 27-Oct-94
Average of columns 22 to 33 of cc26326
FeAr
1000
800
600
400
200
50
40
30
20
10
250
500
750
1000
Line (pixels)
1800 ln/mm 5890 Angstroms G=5545
5567 → 5892 Å

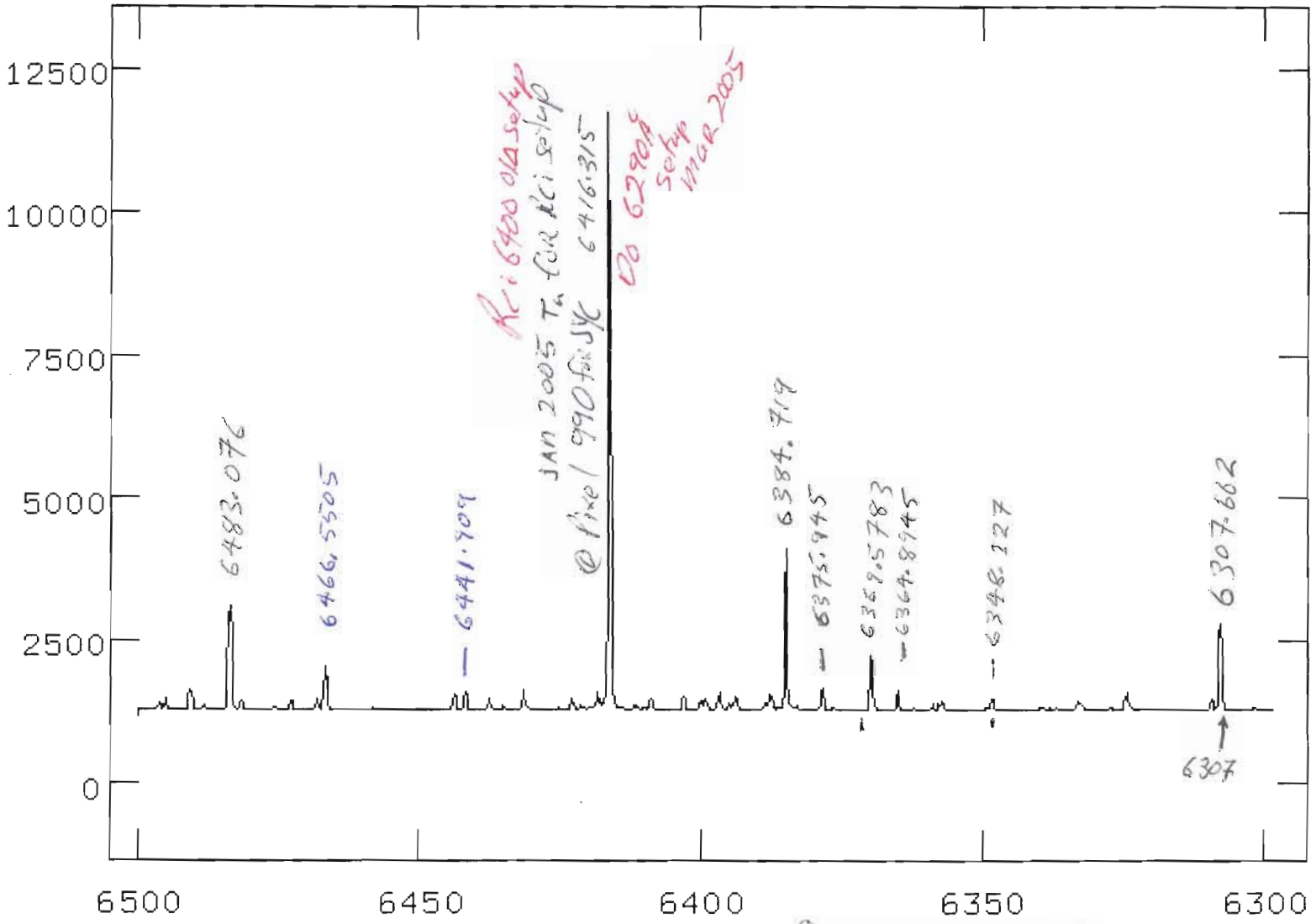

NOAO/IRAF V2.10EXPORT jthomson@perseus Wed 01:21:17 19-Apr-95
Average of columns 22 to 27 of cc30877
FeAr
5843.781 ok
5763.013 ? ? Sm 977a
5739.5207
5691.650
5681.9014
5672.952
600
400
200
0
50
40
30
20
10
250
500
750
1000
Line (pixels)
1800 ln/mm grating,Center @ 574.9 nm,G=5454,tilt=50.8 degs


? ArII 5843.781
ArI 5860.3118
ArI 5882.6250
ArI 5888.5851
ArI 5912.0861
ArI 5916.58
ArI 5928.8124
ArI 5942.6722
ArI 5949.2595
? 5957.
FE-A COMP AT 5888A FROM LAB WAVELENGTHS
PIXEL PLOT FULL


ArI 5495.876
FeI 5501.4686
ArI 5506.1149
FeI 5524.9598
ArI 5534.45
ArII 5545.045
ArII 5554.050
ArI 5558.7031
FeI 5569.6256
FeI+ArI 5572. blend
FeI 5586.7634
ArI 5597.4783
ArI 5606.7341
FeI 5615.6521
ArI 5618.010
ArI 5620.89
ArI 5635.575
ArI 5641.34
ArI 5650.7054
ArII 5672.952
ArII 5681.9014
ArII 5691.650
FeI 5701.551
FeI 5709.3864
ArI 5739.5207
FeI 5763.013
?? shn97

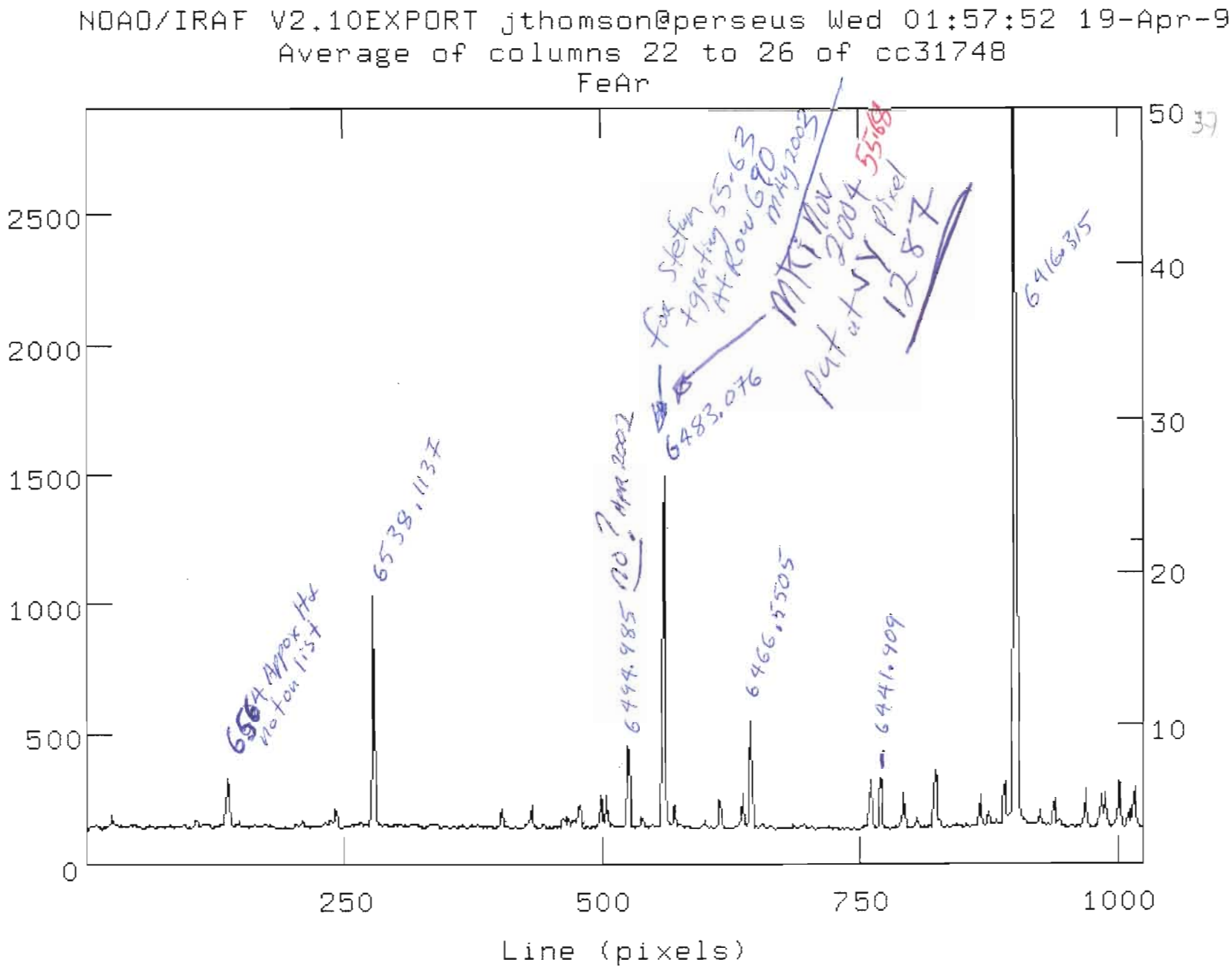

NOAO/IRAF V2.11.2EXPORT detector@nydra Tue 16:06:39 09-Nov-1999
identify CC69571.0001 - Ap 1
GRB OR whatever SETUP
Nov 99 +grating
FOR FAST 1800l/m → feAr 600l/mm CHANGE 1200l/m/mm 5700Å = 19.35
* Do 440 050 1024 4 1 CCD FMT ~ 70 units > then 1800l/m YORIG
* INCREASE FOCUSSP by ~ +.40 UNITS
NOV 0000 TH
30.1
7242
7030
6965
6871
6752
6677
6416
5917
~5800
4879
4763 OK
4383
4272
4132
4131 ED
4000
3000
2000
1000
0
200
400
600
800
1000
pixel
NOAO/IRAF detector@nydra Tue Nov 9 16:06:54 1999

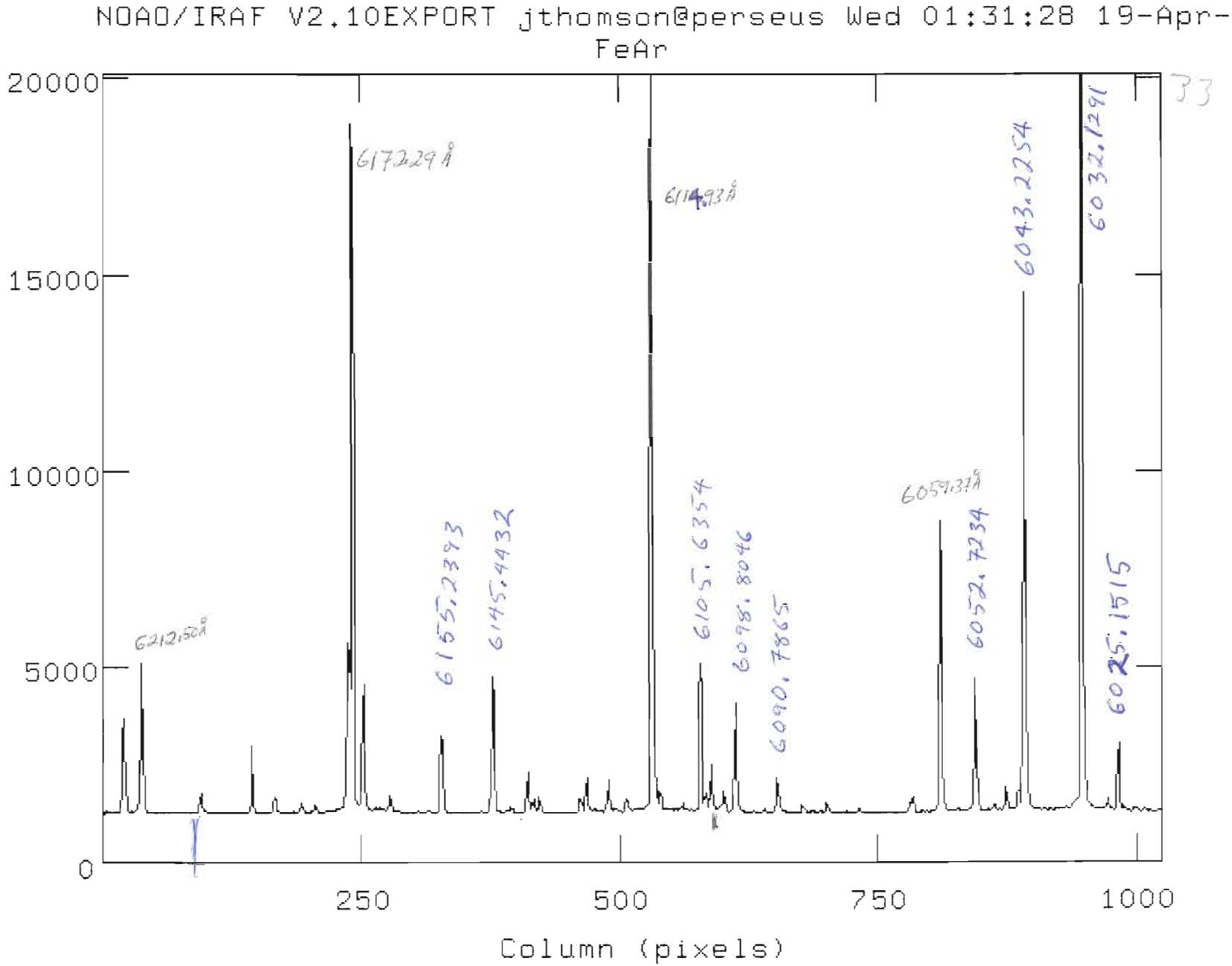
NOAO/IRAF V2.10EXPORT jthomson@perseus Sat 02:05:34 01-Oct-94
identify cc25886.ms - Ap 1
FeAr



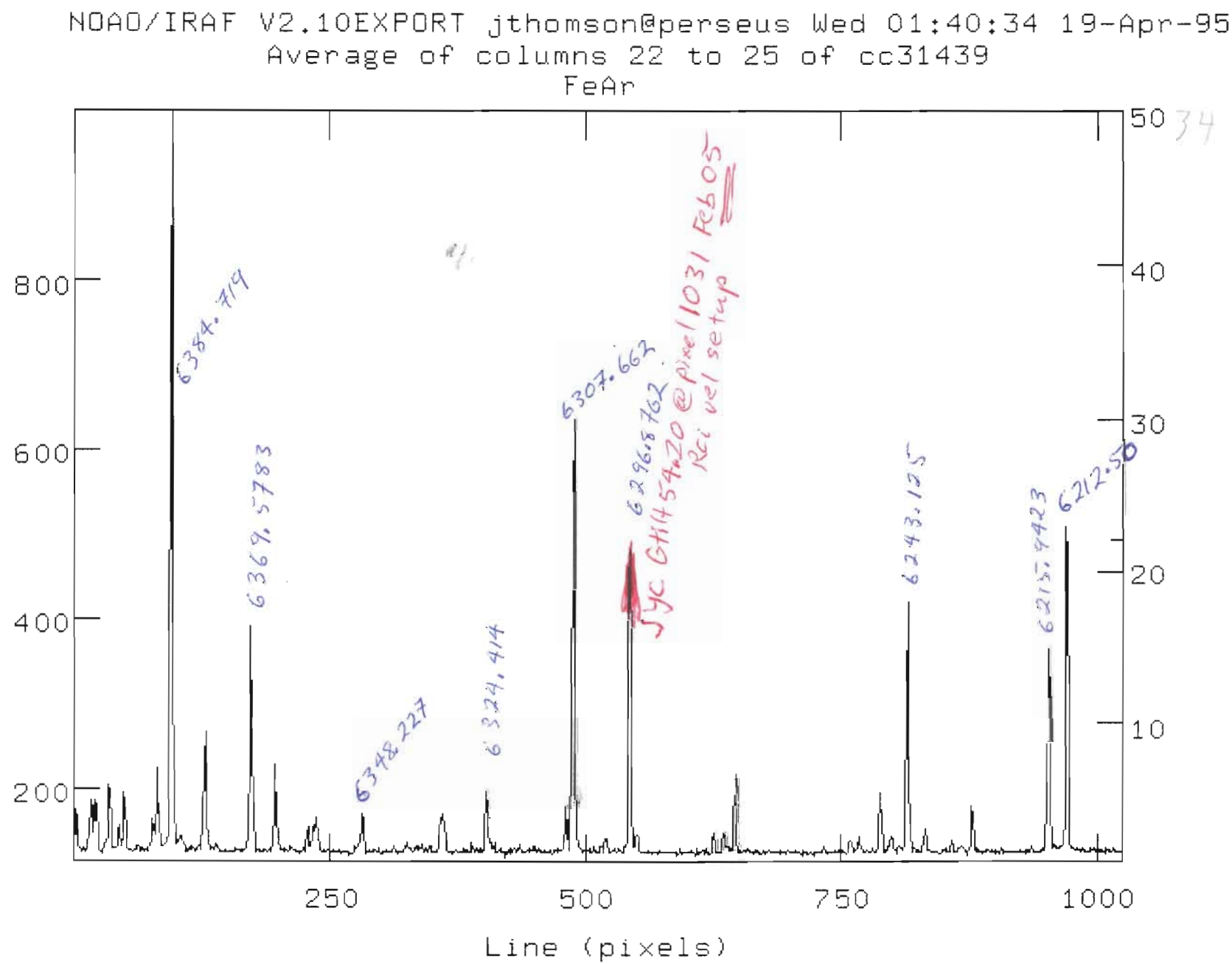
Kr i 6400 old setup
JAN 2005 Ta for Kr i setup
@ Pixel 6410.315
990 for JK
Do 6290Å setup MAR 2005

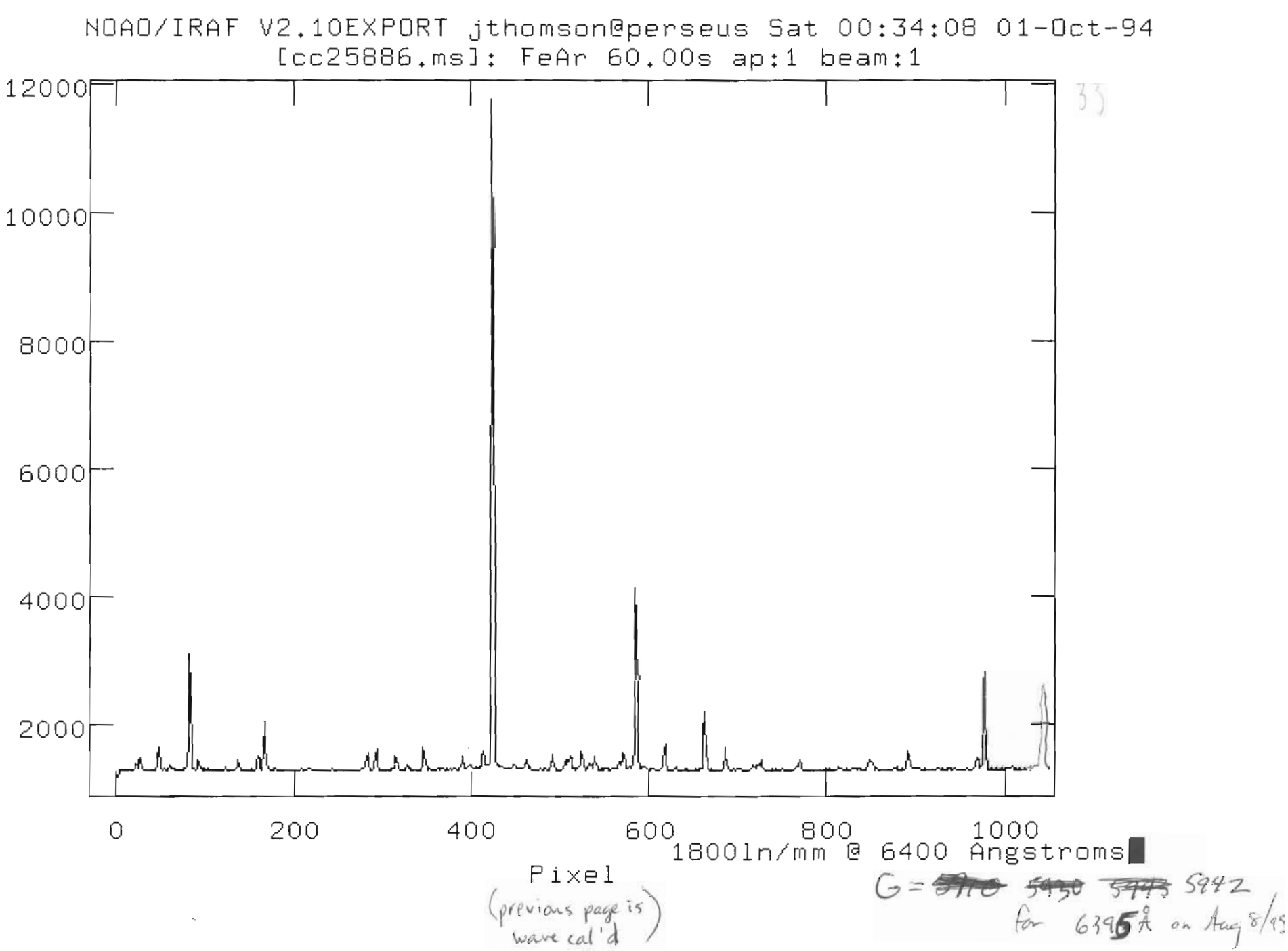
G = 5910 Exactly ± 2Å @ 6400Å
G = 5930 @ 6500 of Feb 16/95


NOAO/IRAF V2.10EXPORT jthomson@perseus Wed 01:57:52 19-Apr-95
Average of columns 22 to 26 of cc31748
FeAr
6538.1137
6444.985
6483.076
6466.5505
6441.909
6416.315
Approx Ha
Line (pixels)
1800 ln/mm grating, Center @ 649.8 nm, G=6000, tilt=55.7 degs



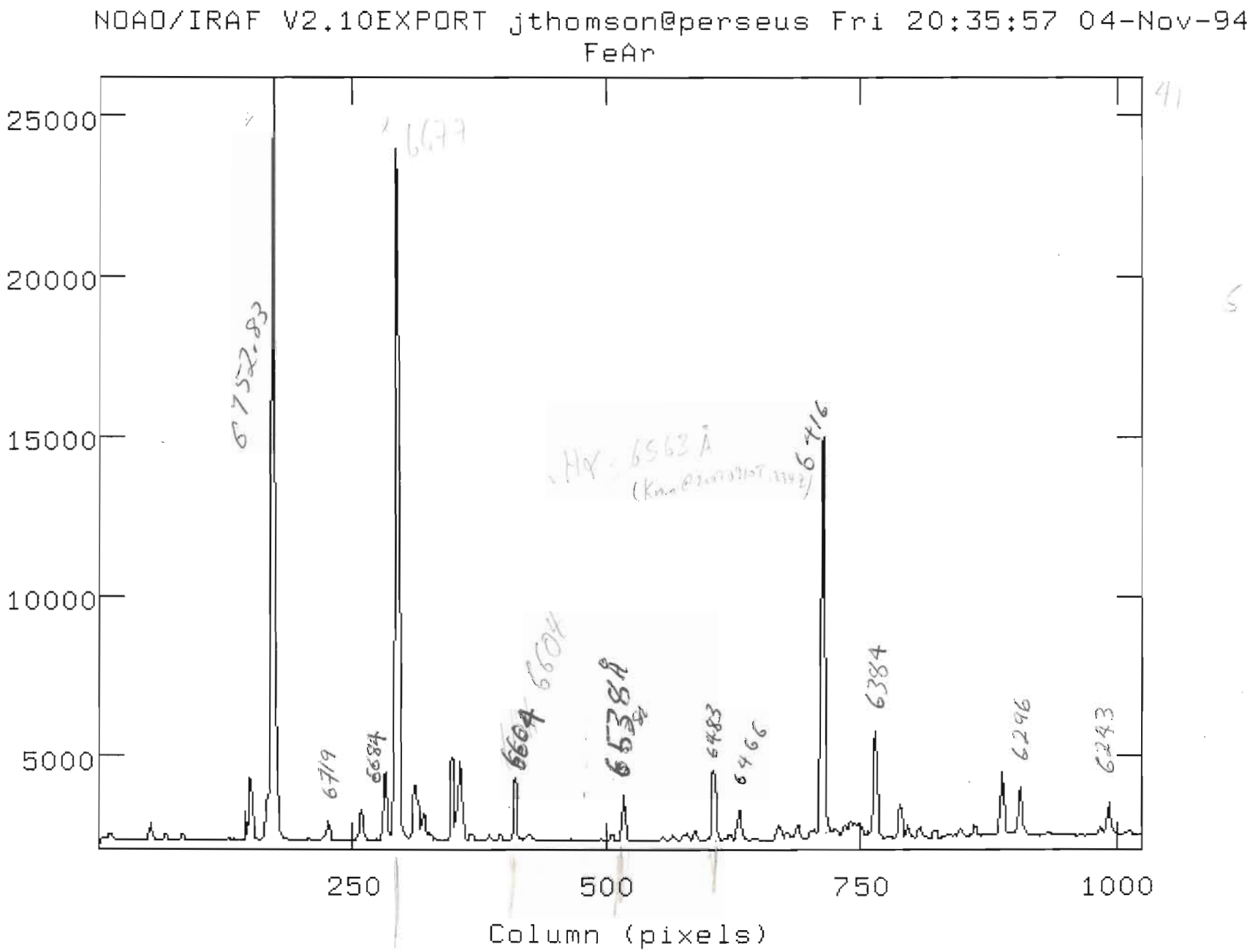
1800 ln/mm grating,Center @ 611.9 nm,G=5723,tilt=53.1 degs


NOAO/IRAF V2.10EXPORT jthomson@perseus Wed 01:40:34 19-Apr-95
Average of columns 22 to 25 of cc31439
FeAr
6384.719
6369.5783
6348.227
6324.414
6307.663
6296.8762
6243.125
6217.9423
6212.50
800
600
400
200
50
40
30
20
10
250
500
750
1000
Line (pixels)
1800 ln/mm grating,Center @ 630.2 nm,G=5860,tilt=54.3 degs

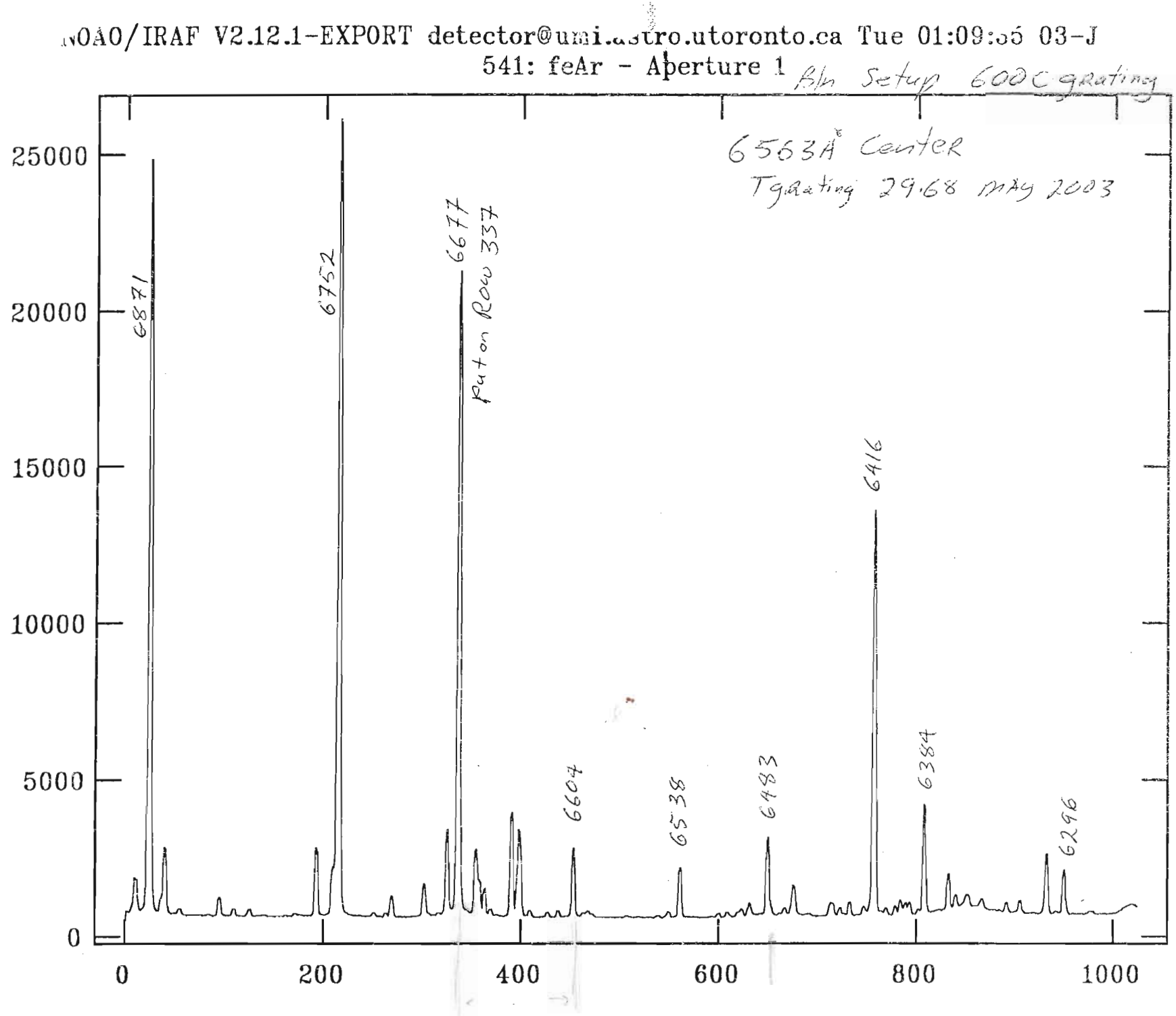


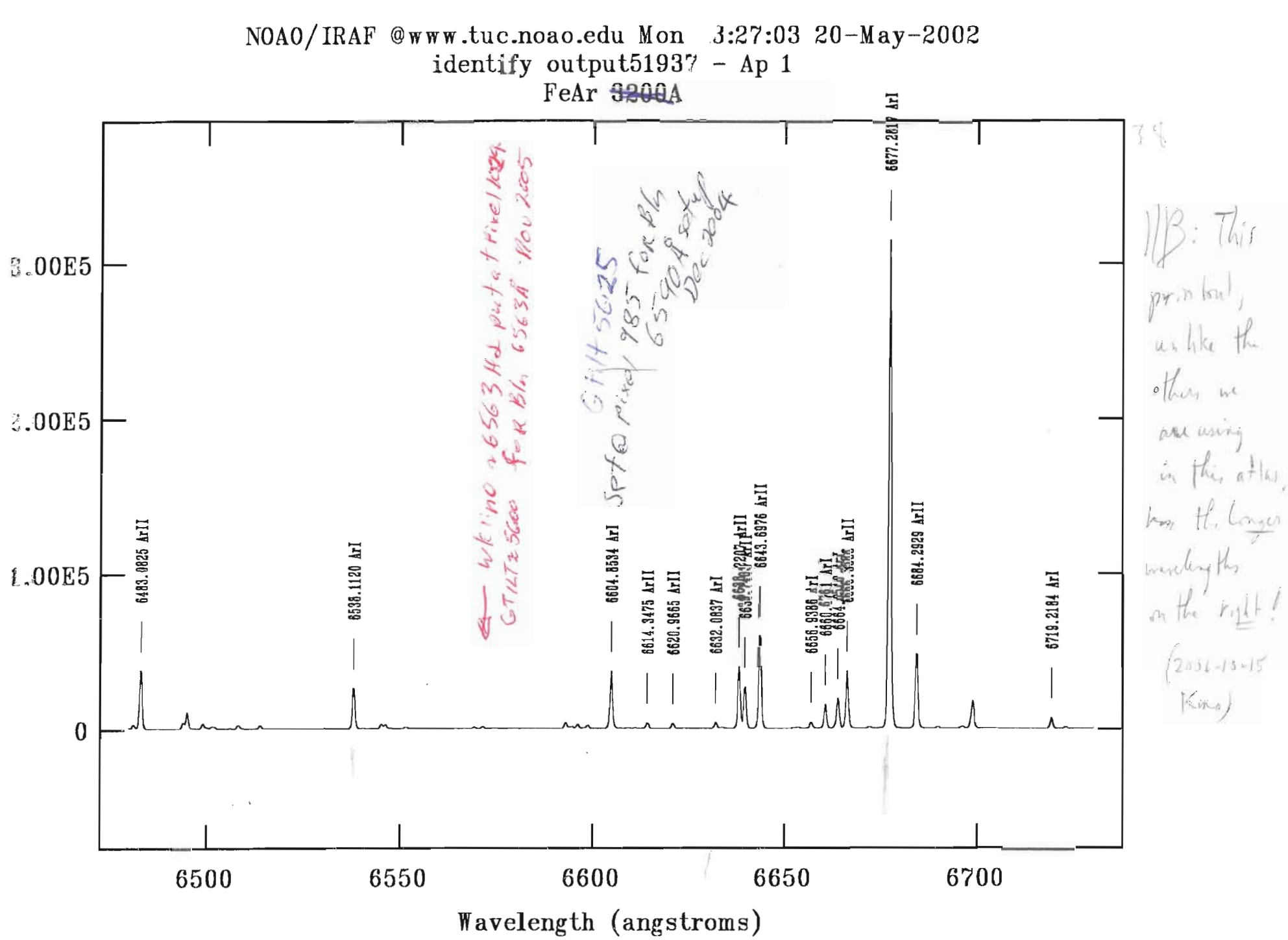
(previous page is wave cal'd)

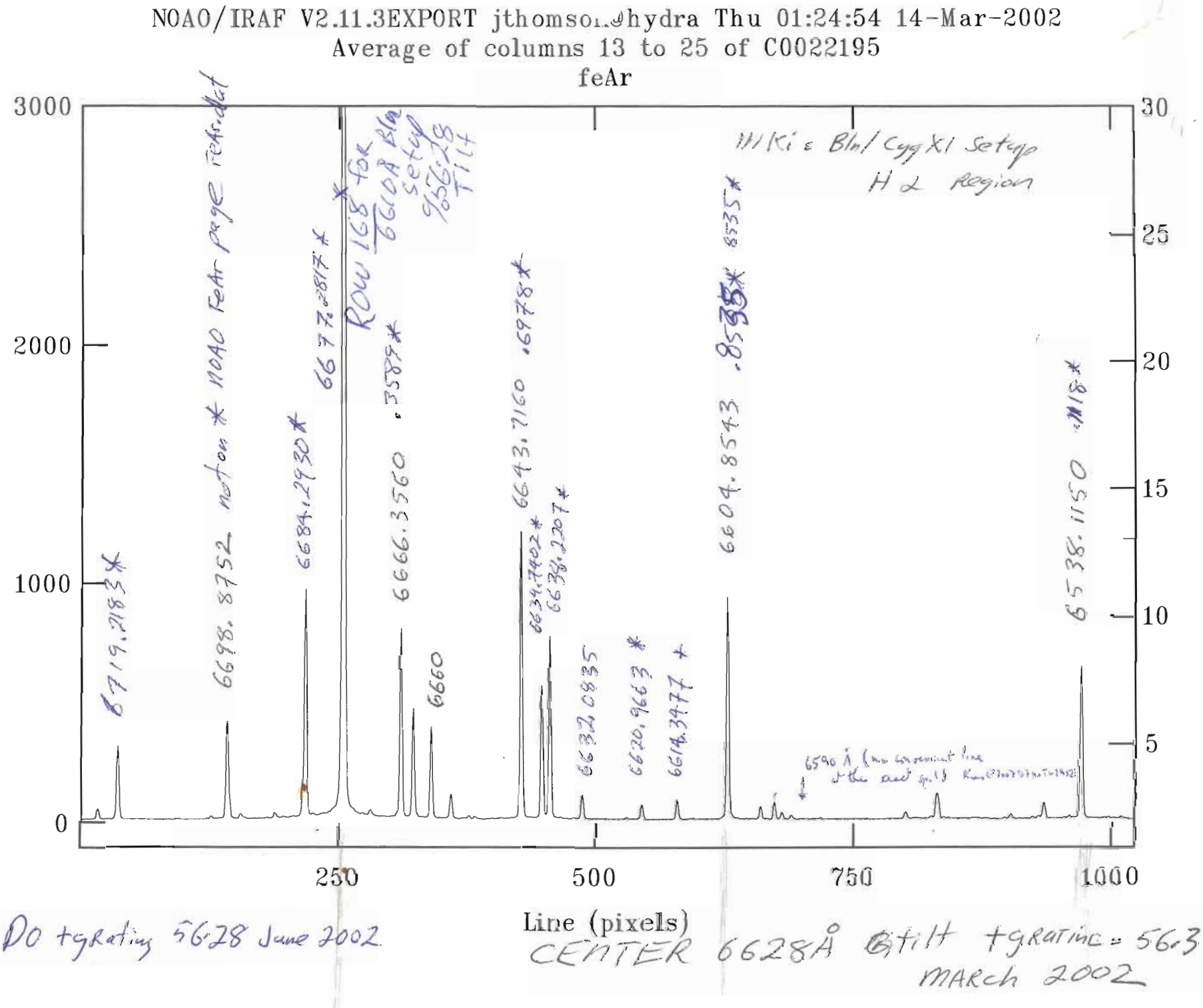
G = ~~5710~~ ~~5450~~ ~~5445~~ 5942
for 6395 Å on Aug 8/95

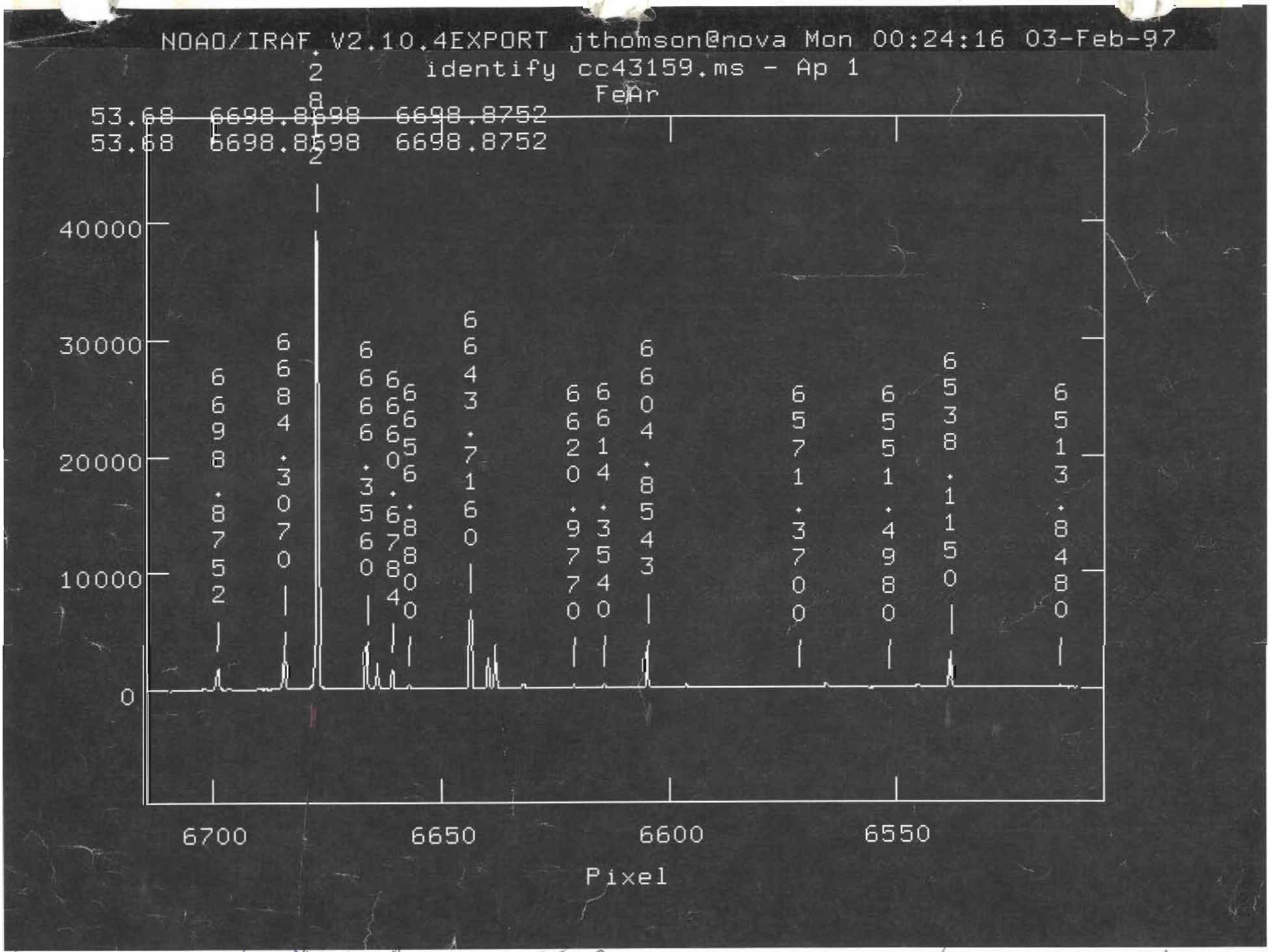


600 ln/mm 6563 Angs, H Alpha, 1st order,no filters,G=3100

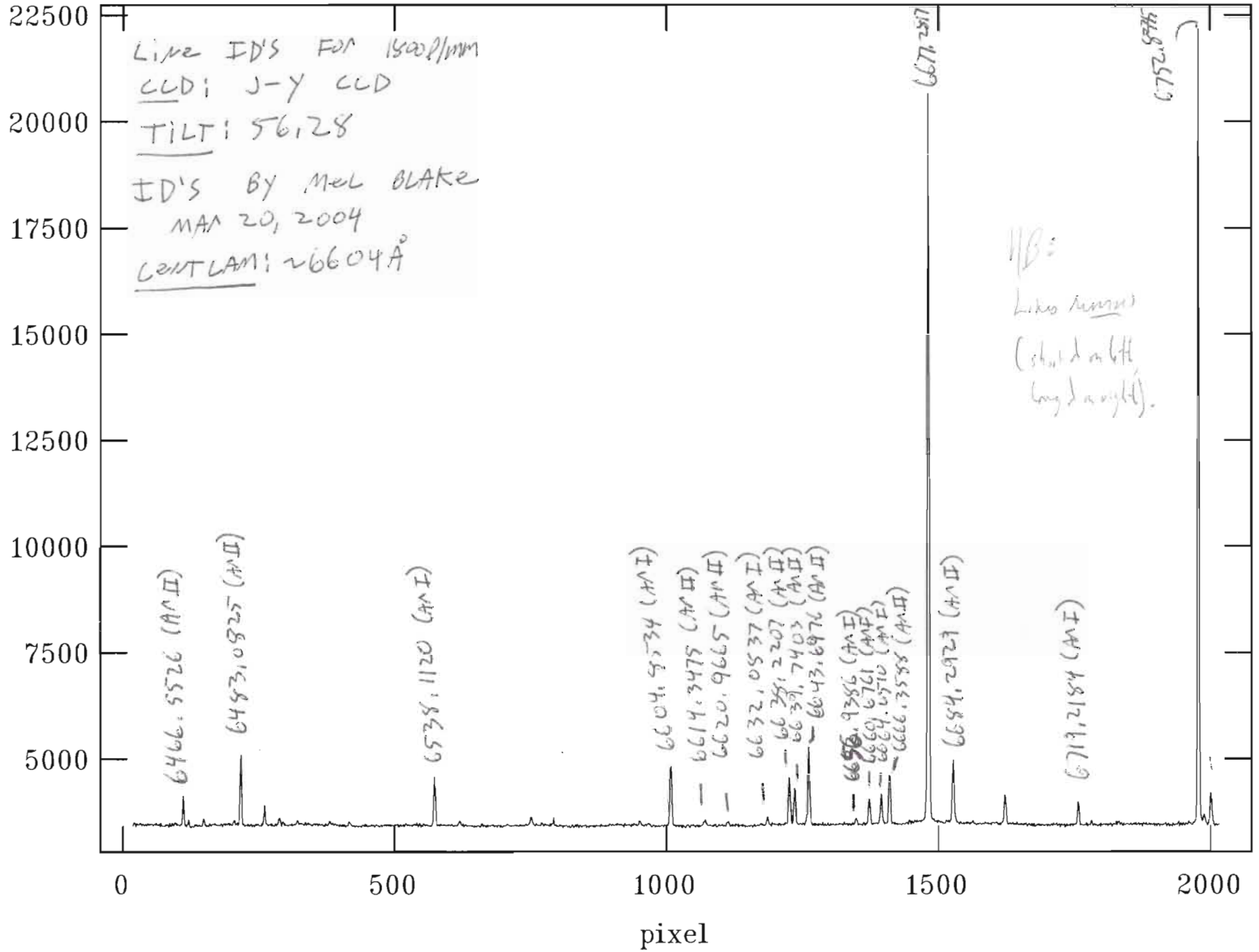

NOAO/IRAF V2.12.1-EXPORT detector@umi.astro.utoronto.ca Tue 01:09:55 03-J
541: feAr - Aperture 1
Rh Setup 600C grating
6563Å Center
Tgrating 29.68 MAY 2003
Put on Row 337
6871
6752
6677
6604
6538
6483
6416
6384
6296
25000
20000
15000
10000
5000
0
0
200
400
600
800
1000


NOAO/IRAF @www.tuc.noao.edu Mon 3:27:03 20-May-2002
identify output51937 - Ap 1
FeAr 3200A
6483.0825 ArII
6538.1120 ArI
6604.8534 ArI
6614.3475 ArII
6620.9665 ArII
6632.0837 ArI
6643.6976 ArII
6656.9386 ArI
6677.2817 ArI
6684.2929 ArII
6719.2184 ArI
2.00E5
1.00E5
0
6500
6550
6600
6650
6700
Wavelength (angstroms)



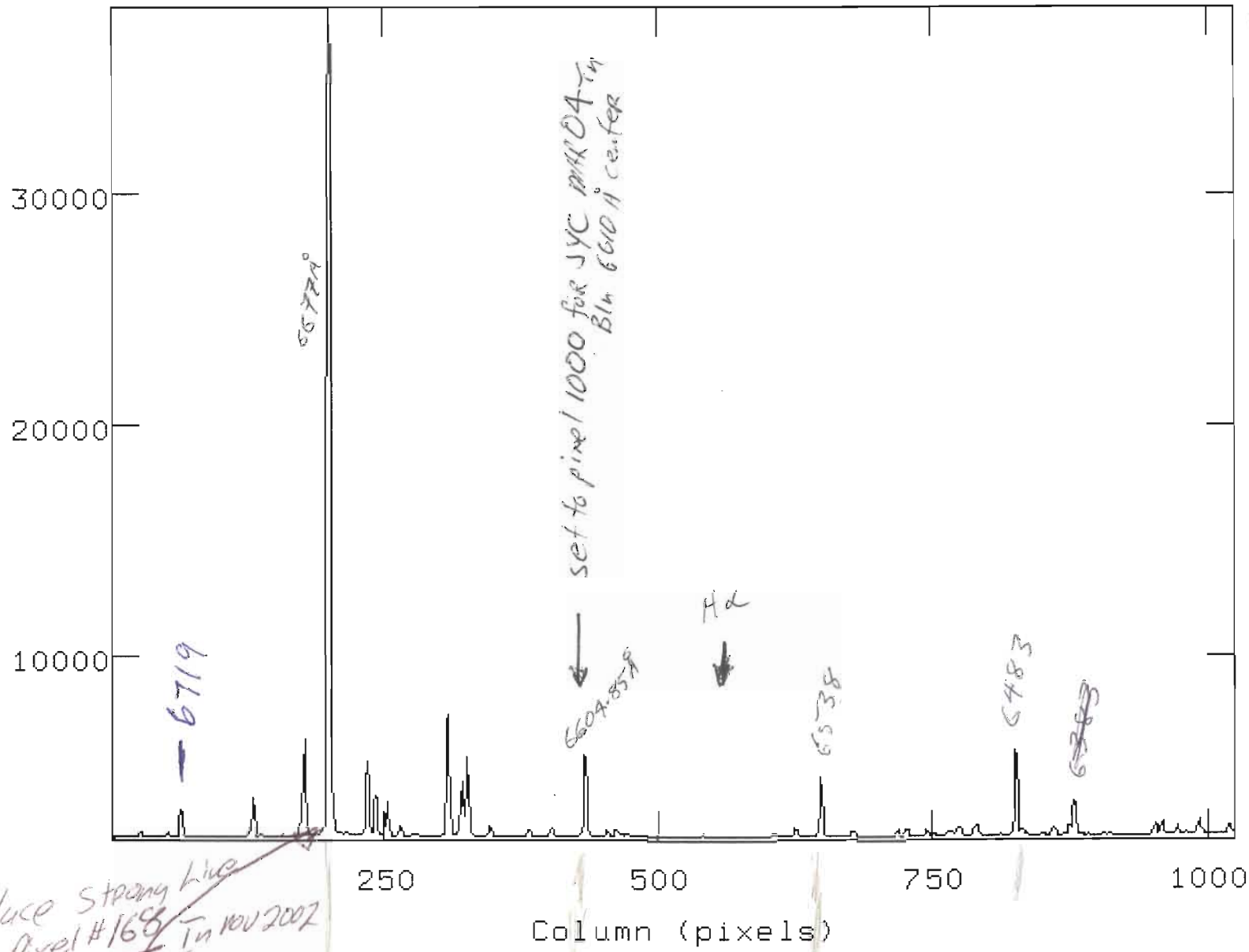


(typing SGAO Oct 2001) Put STRONG LINE AT ROW 257 for 6625 CentLam Mtg WORK MARCH 2001



NOAO/IRAF V2.10EXPORT jthomson@perseus Fri 20:42:40 04-Nov-94

FeAr

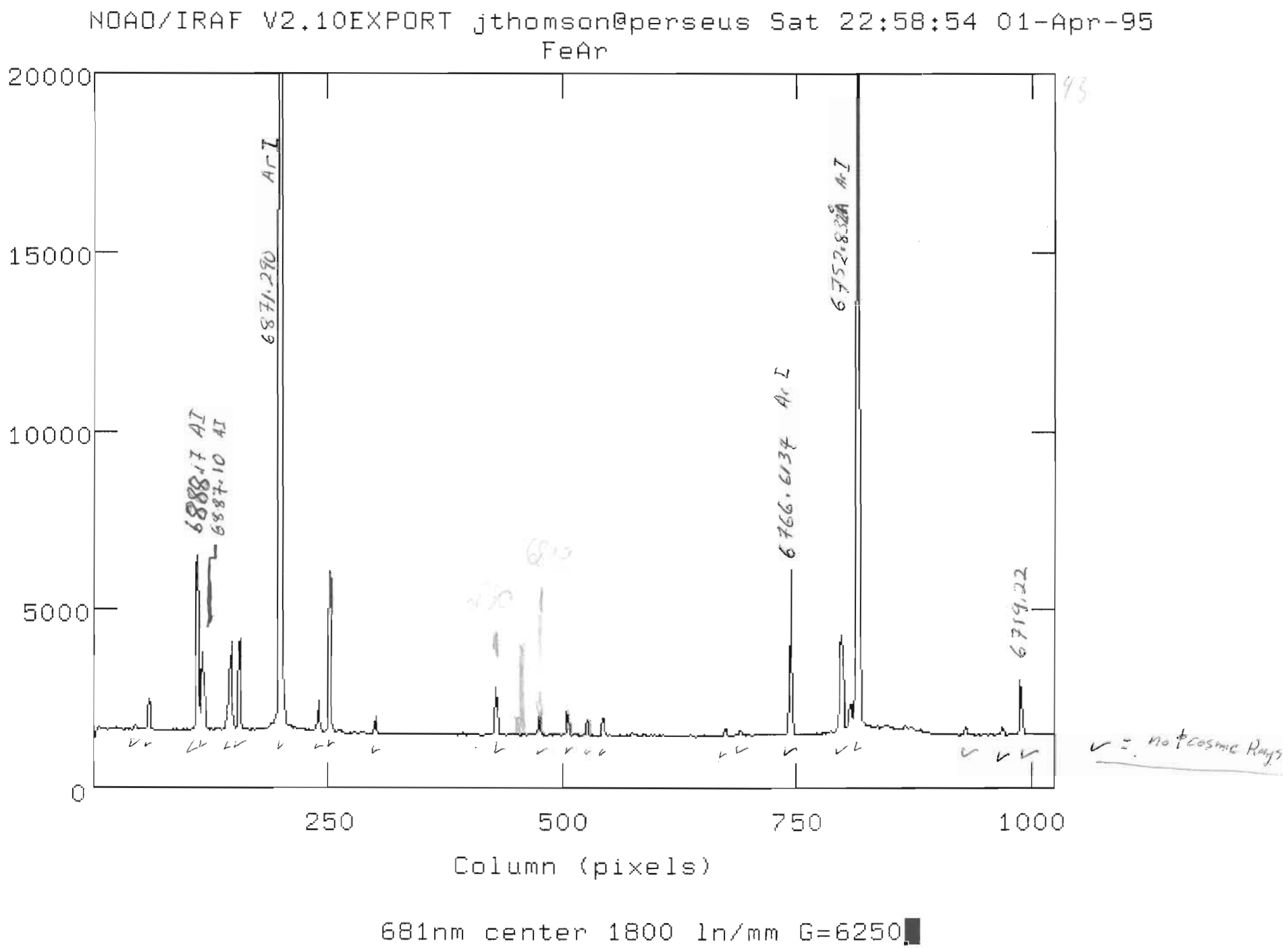


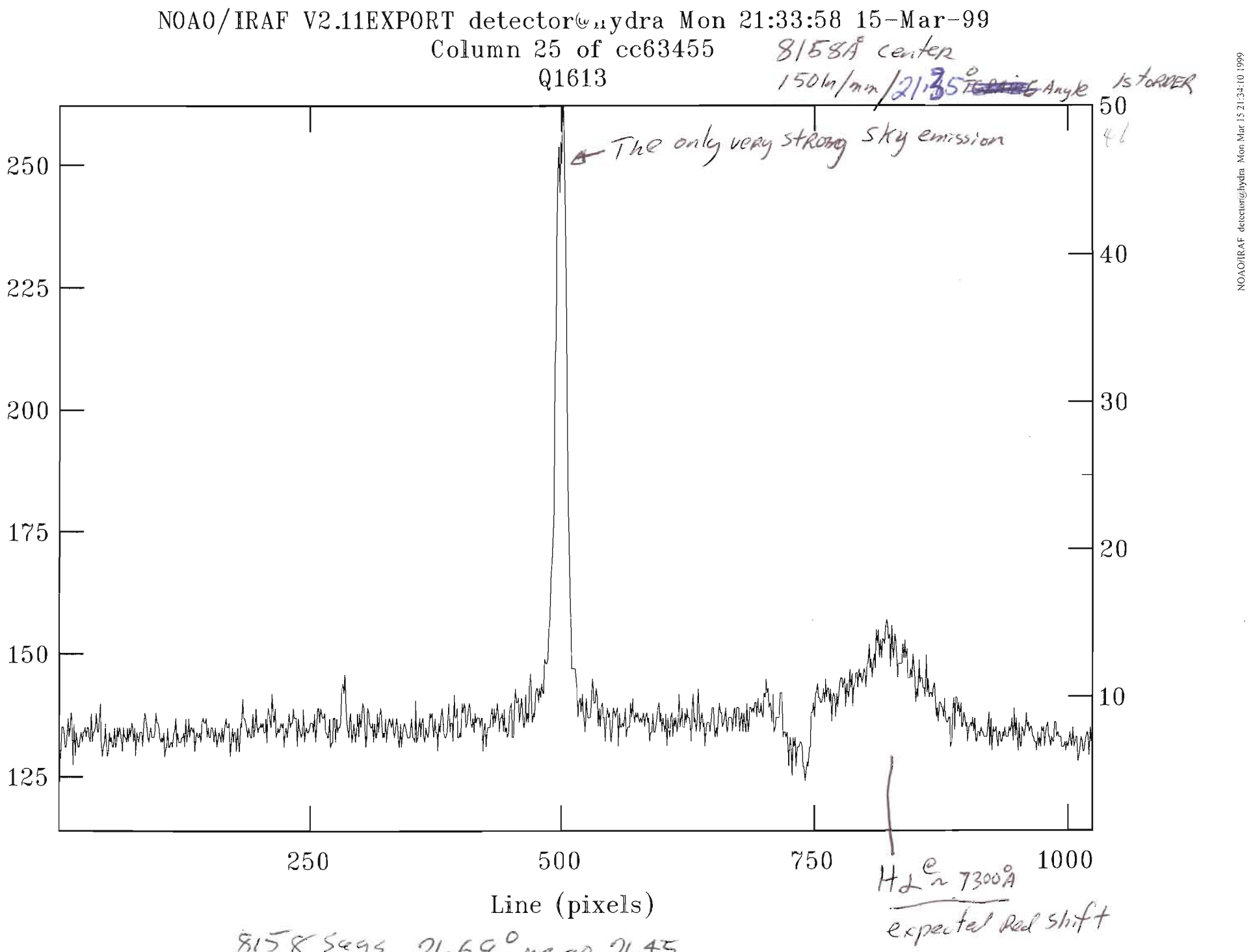
Place strong line at pixel #168 Jan NOV 2002

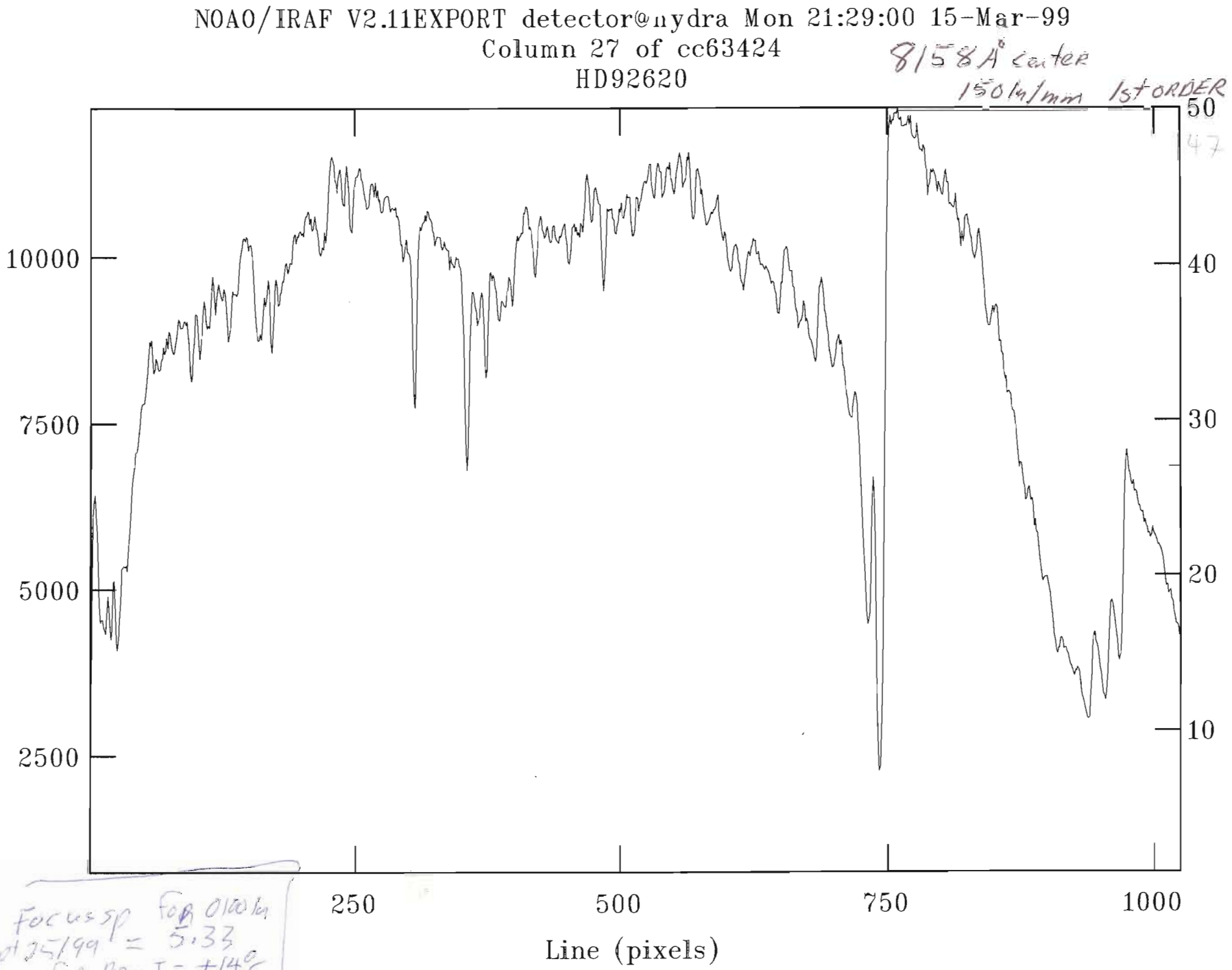
1200 ln/mm 6563 Angs, H Alpha, 1st order, OG 560 filter, G=4520

FOR Bln (gg X1 work NOV 2002 1800 ln/mm grating 5628

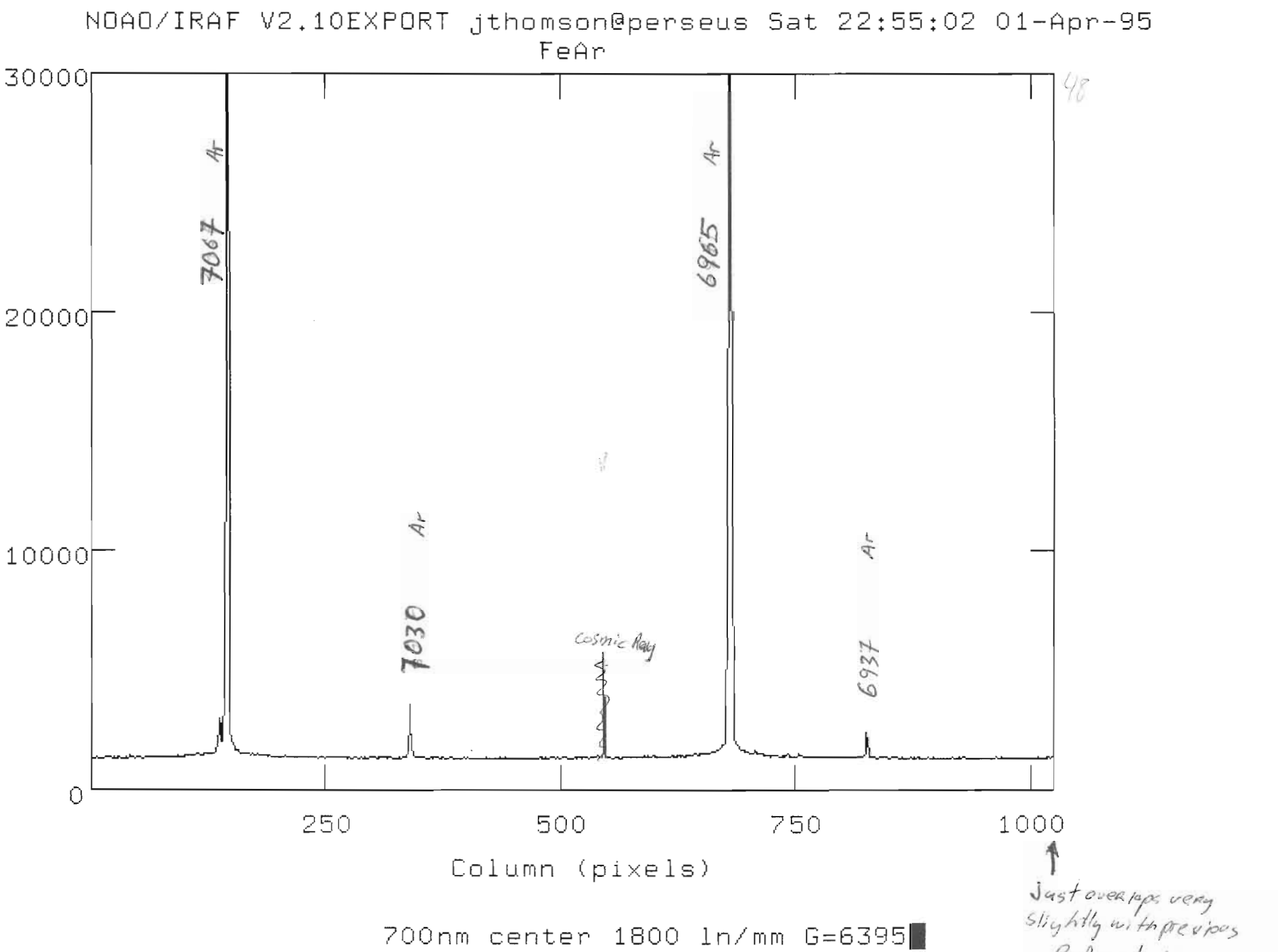
tilt = 42.1°

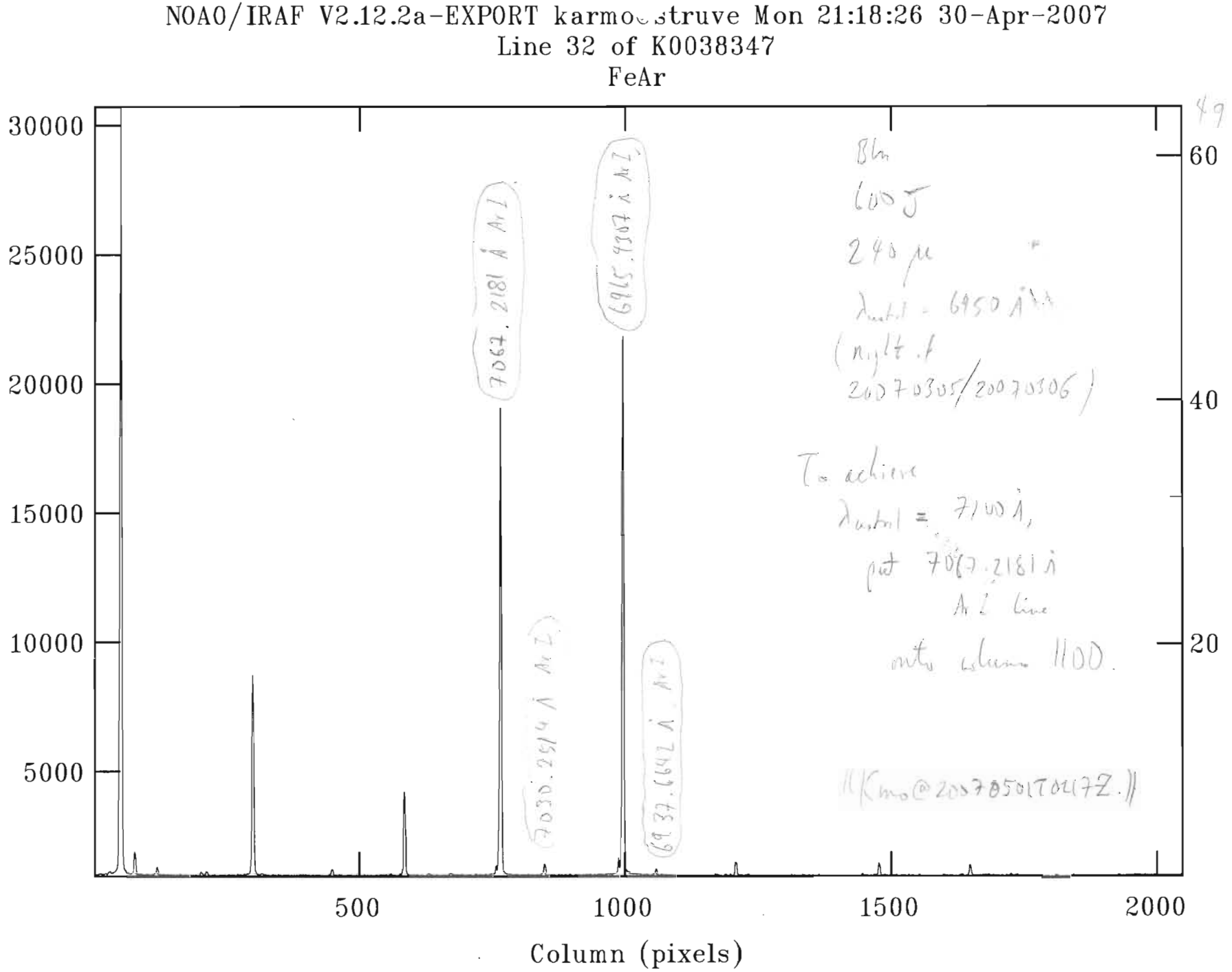

NOAO/IRAF V2.10EXPORT jthomson@perseus Sat 22:58:54 01-Apr-95
FeAr
20000
15000
10000
5000
0
250
500
750
1000
Column (pixels)
6888.17 AI
6887.10 AI
6871.290 Ar I
6766.6134 Ar I
6752.8328 Ar I
6719.22
681nm center 1800 ln/mm G=6250


NOAO/IRAF V2.11EXPORT detector@hydra Mon 21:33:58 15-Mar-99
Column 25 of cc63455
Q1613
8158Å center
150ln/mm / 21.35° Angle is former
The only very strong sky emission
250
225
200
175
150
125
50
40
30
20
10
250
500
750
1000
Line (pixels)
H2 @ n 7300Å
expected Red shift
8158 secs 21.69° we go 21.45
∴ go -.24° of computation.
NOAO/IRAF detector@hydra Mon Mar 15 21:34:10 1999



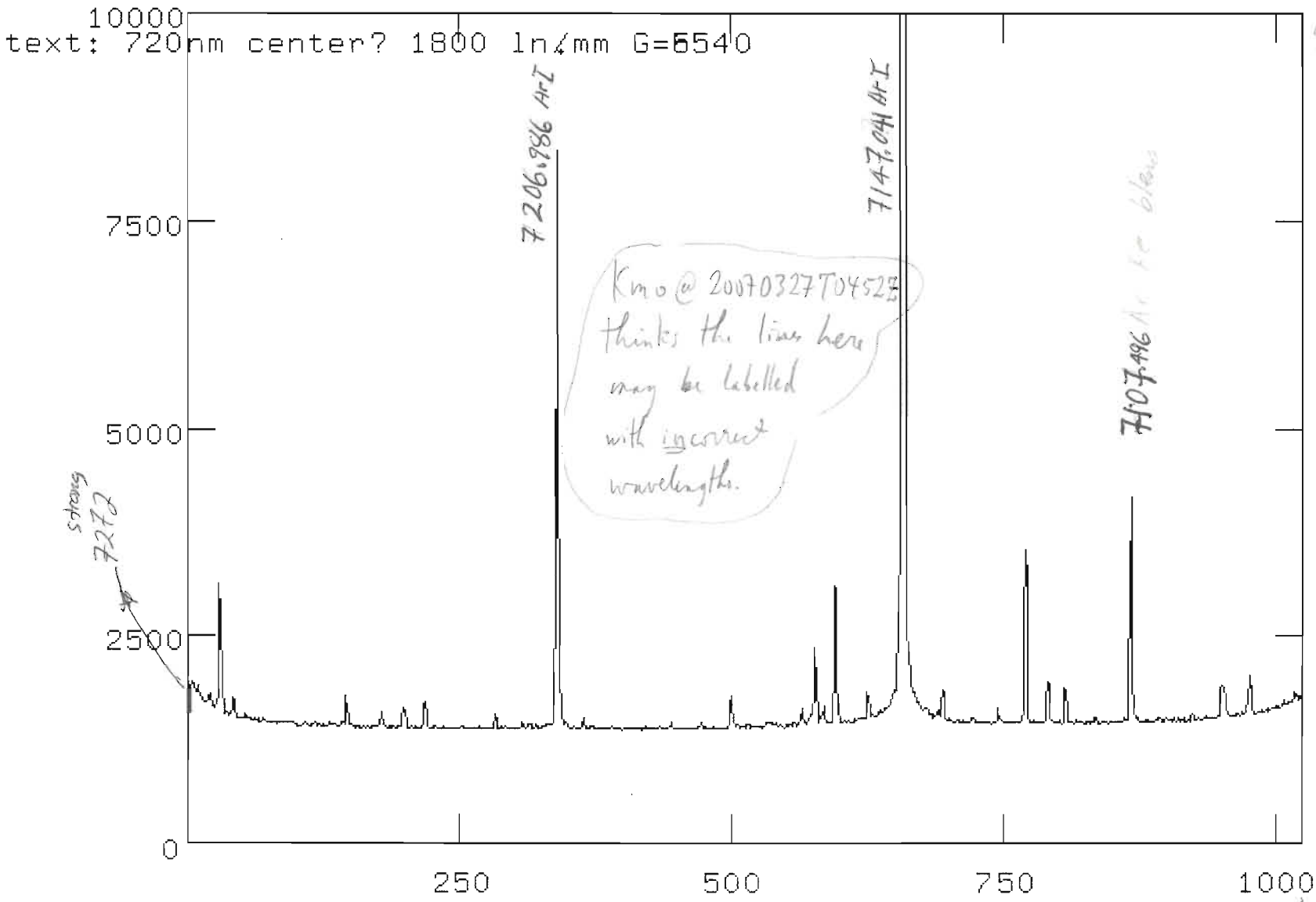
Focus sp for 0100 hg
Sept 25/99 = 5.33
for Dome T = +14°C


NOAO/IRAF V2.10EXPORT jthomson@perseus Sat 22:55:02 01-Apr-95
FeAr
30000
20000
10000
0
250
500
750
1000
Column (pixels)
7067
Ar
7030
Ar
Cosmic Ray
6965
Ar
6937
Ar
700nm center 1800 ln/mm G=6395
48
Just overlaps very slightly with previous Red end of 681nm center FRame.
40 pixel overlap



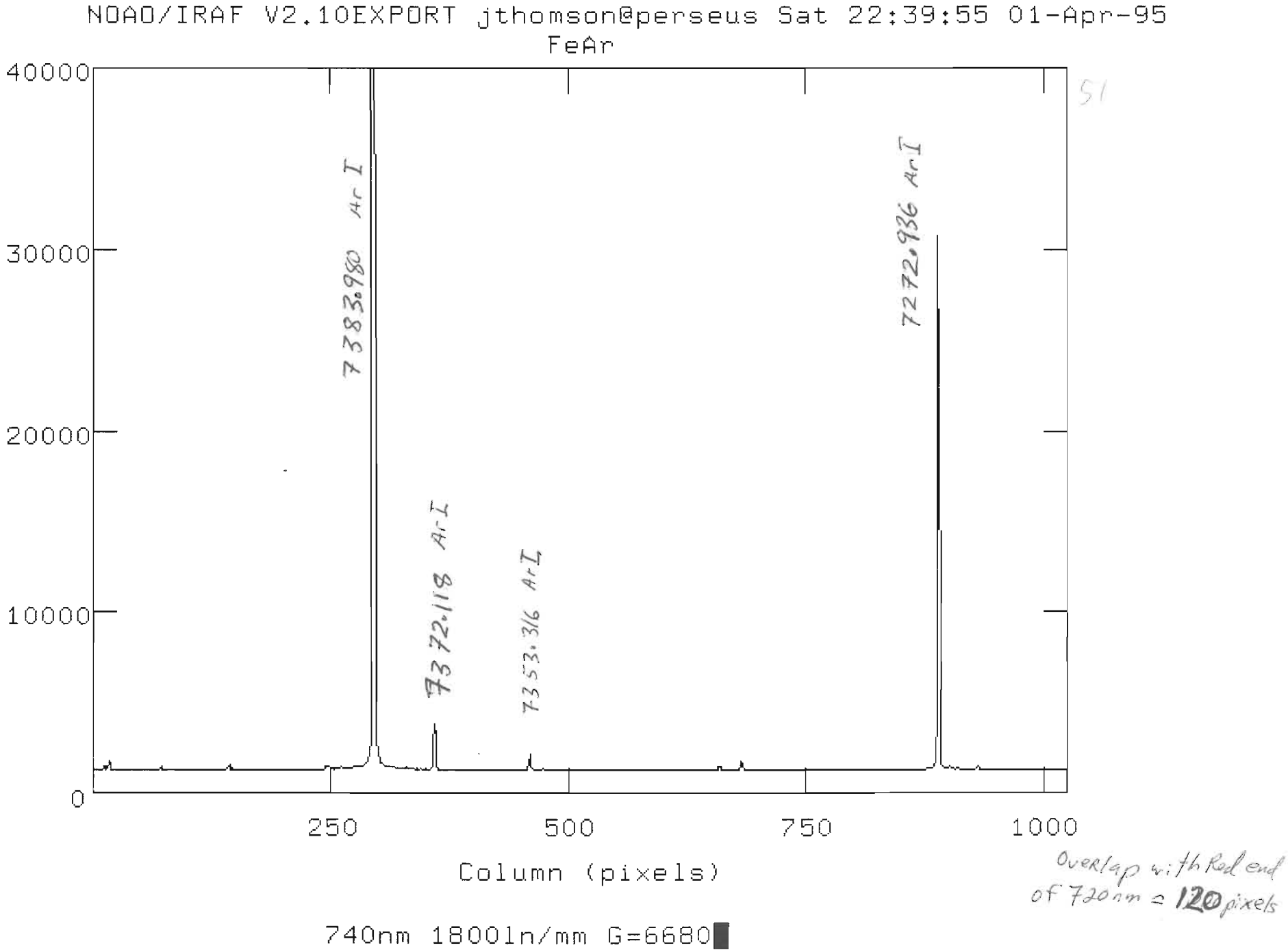
NOAO/IRAF V2.10EXPORT jthomson@perseus Sat 22:46:50 01-Apr-95

FeAr



720nm center? 1800 ln/mm G=6540

overlap with the Red end of previous 700nm Frame = 90 pixels



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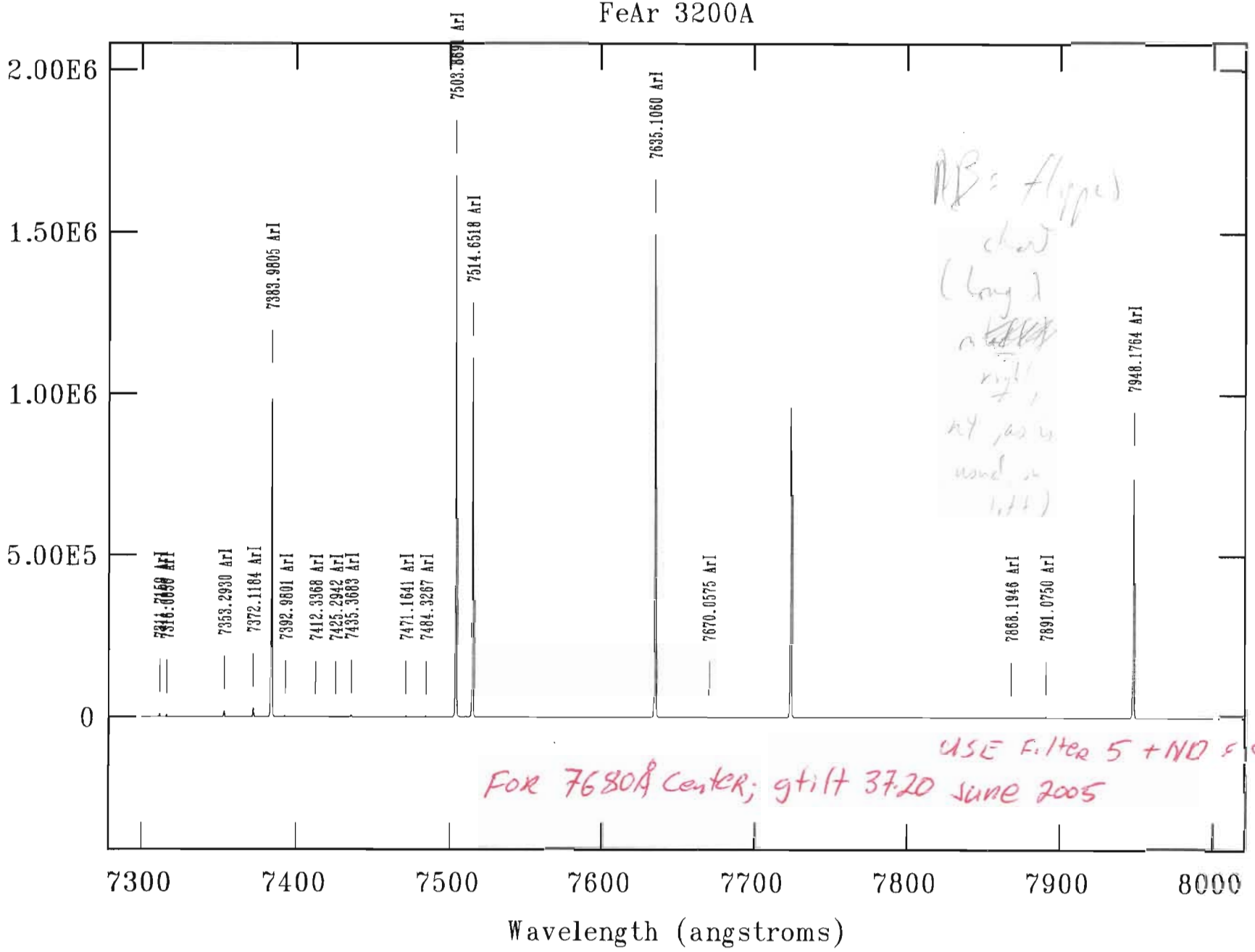
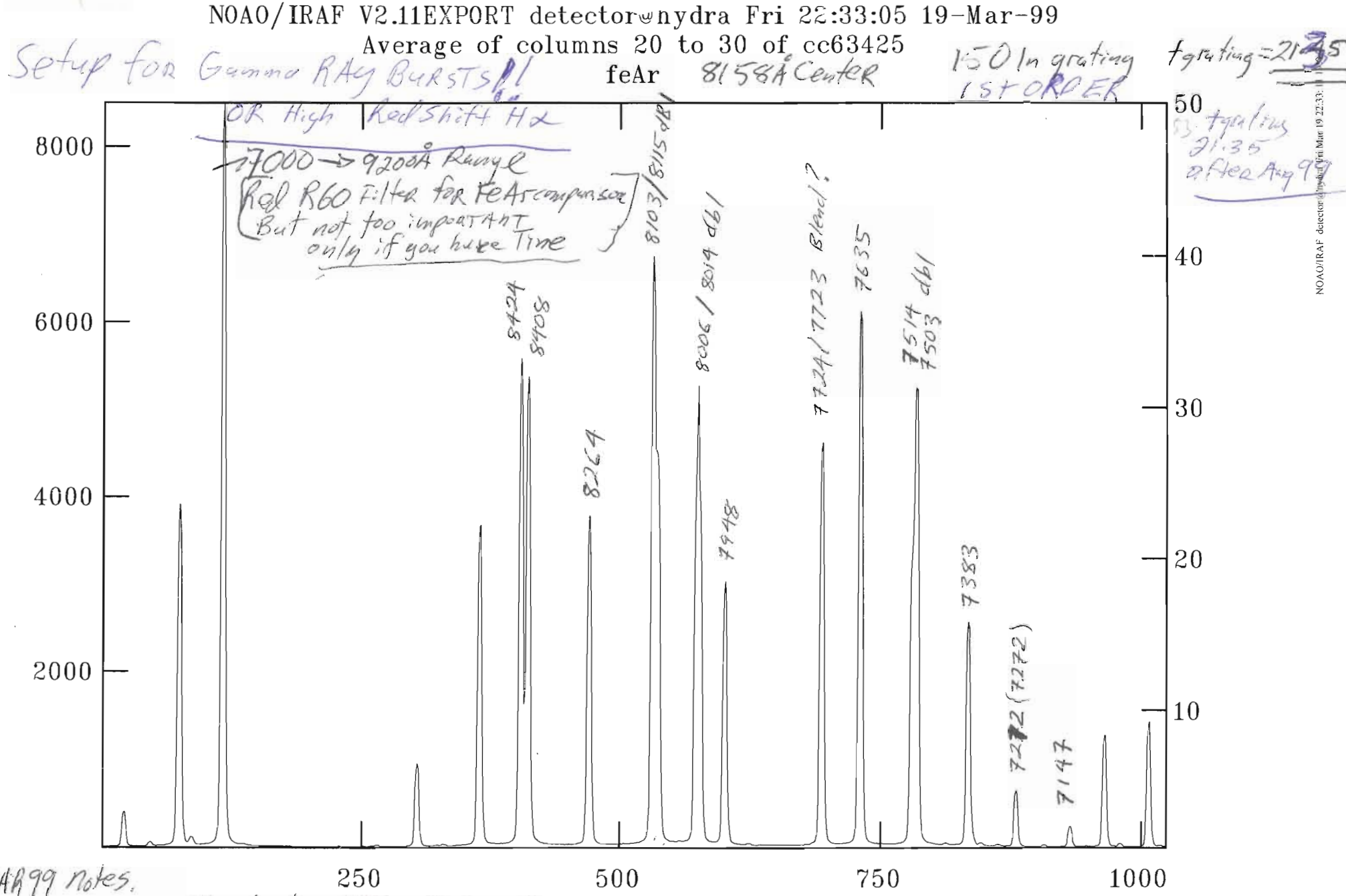
Overlap with Red end of 720nm ≈ 120 pixels

NOAO/IRAF V2.12.1-EXPORT @www.tuc.noao.edu Mon 04:54:23 06-Jun-2005
identify output28165 - Ap 1
FeAr 3200A



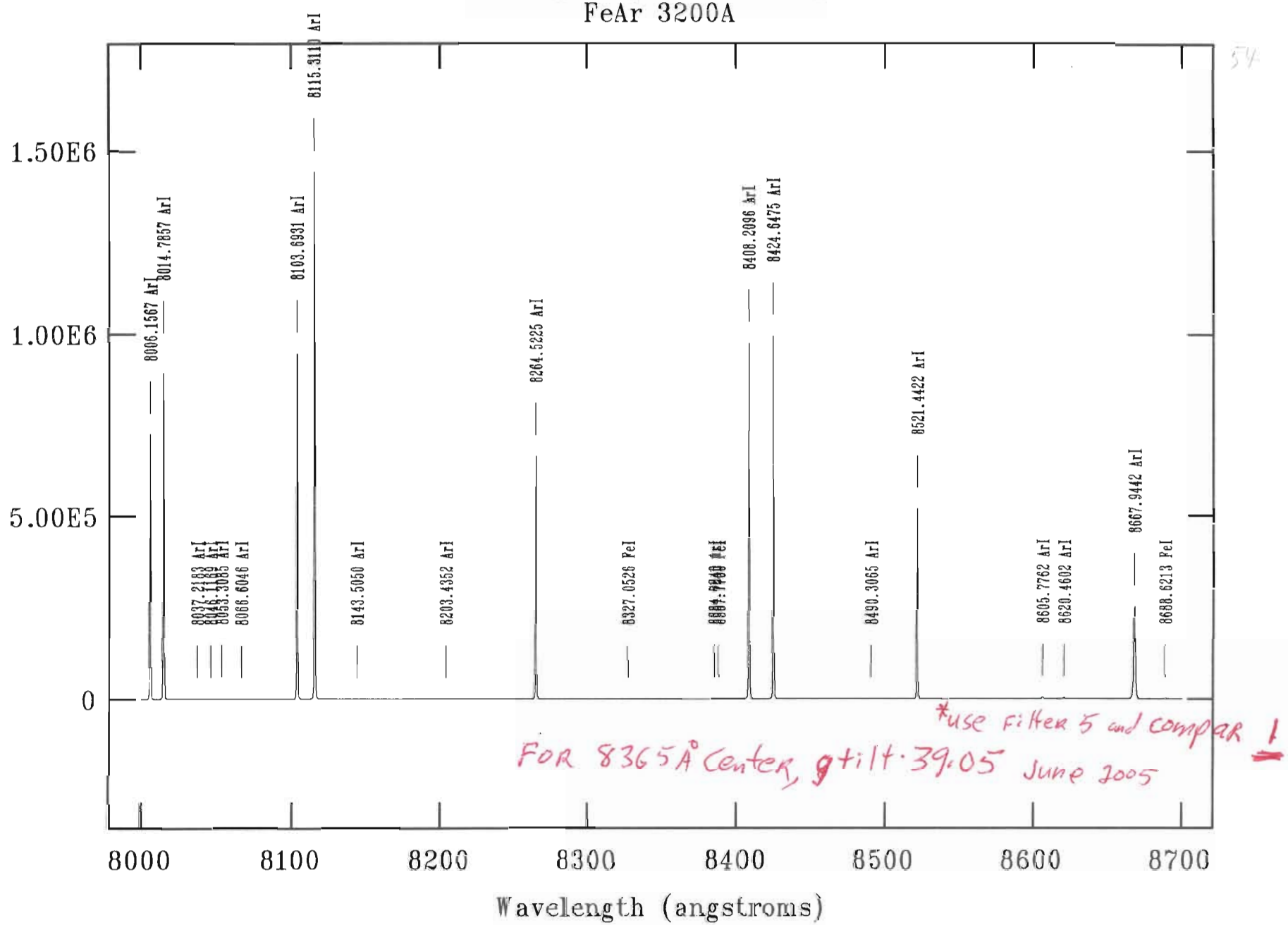
USE Filter 5 + ND & compare!

For 7680Å center; gtilt 37.20 June 2005



MAR99 Notes.
SpectR Focus +.14 units above 1800/m - Hz Focus #
Y Origin maybe ~420, But sometimes as Low as 330 oRigin Y

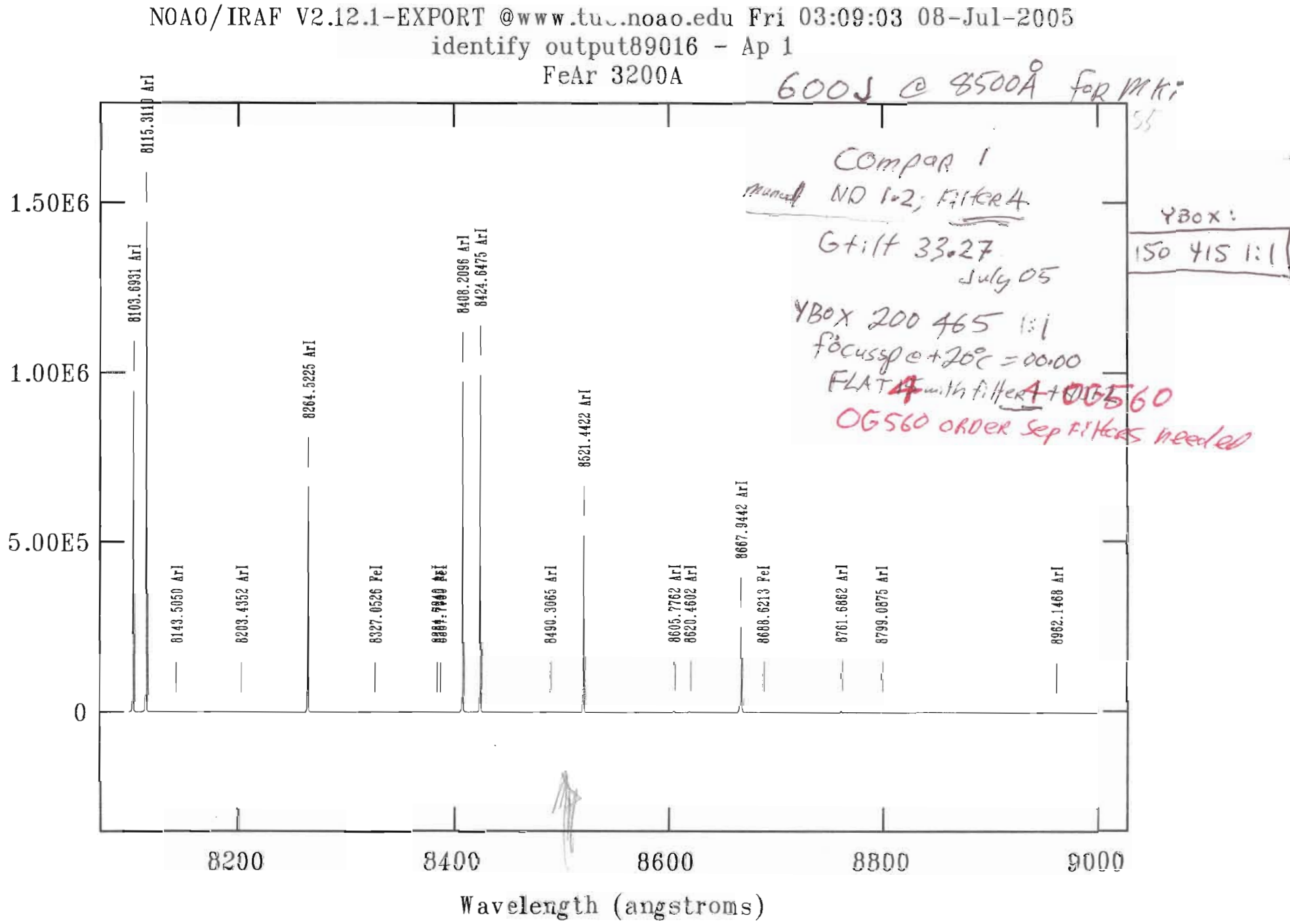
NOAO/IRAF V2.12.1-EXPORT @www.tuc.noao.edu Mon 04:34:51 06-Jun-2005
identify output26773 - Ap 1
FeAr 3200A

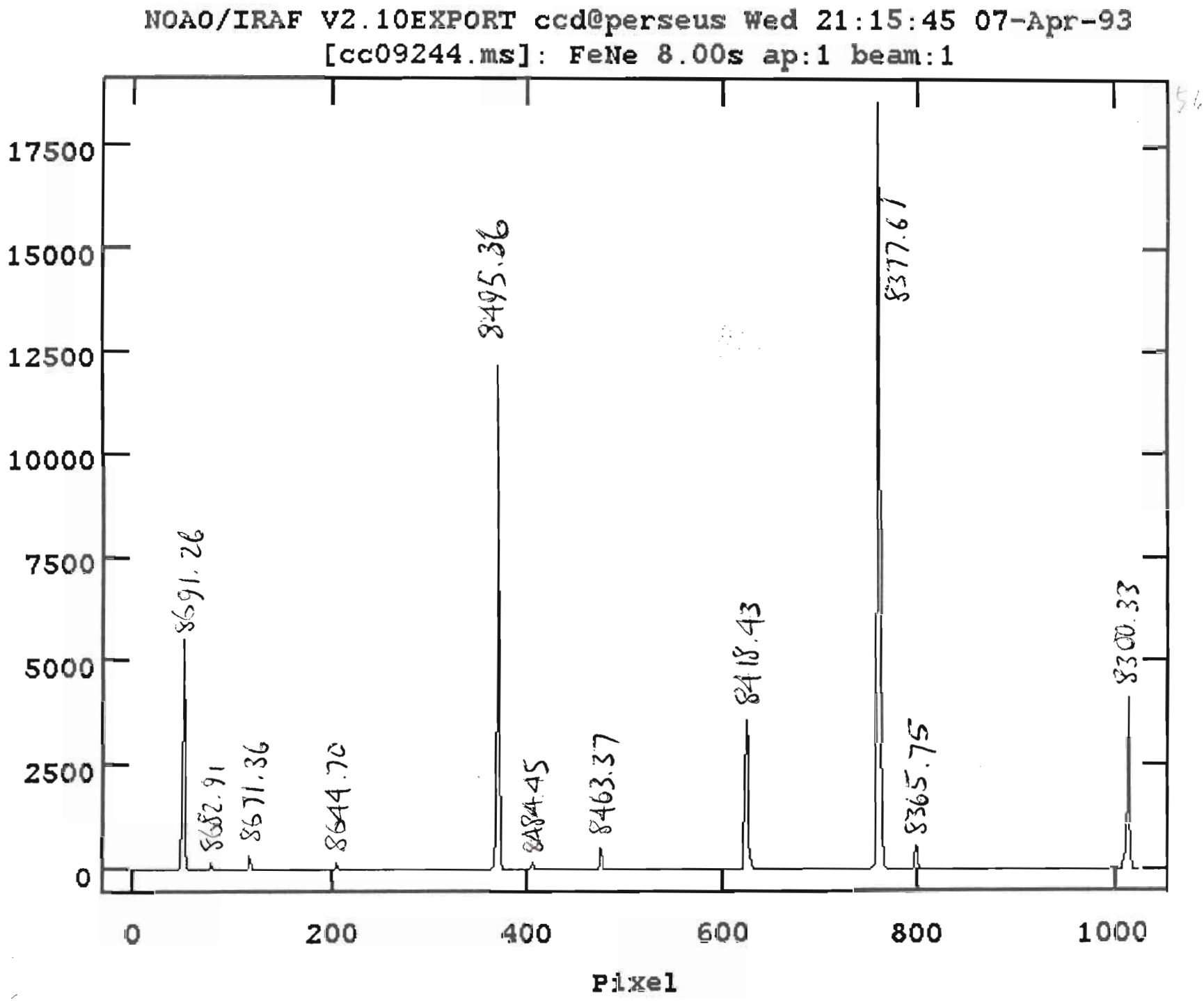


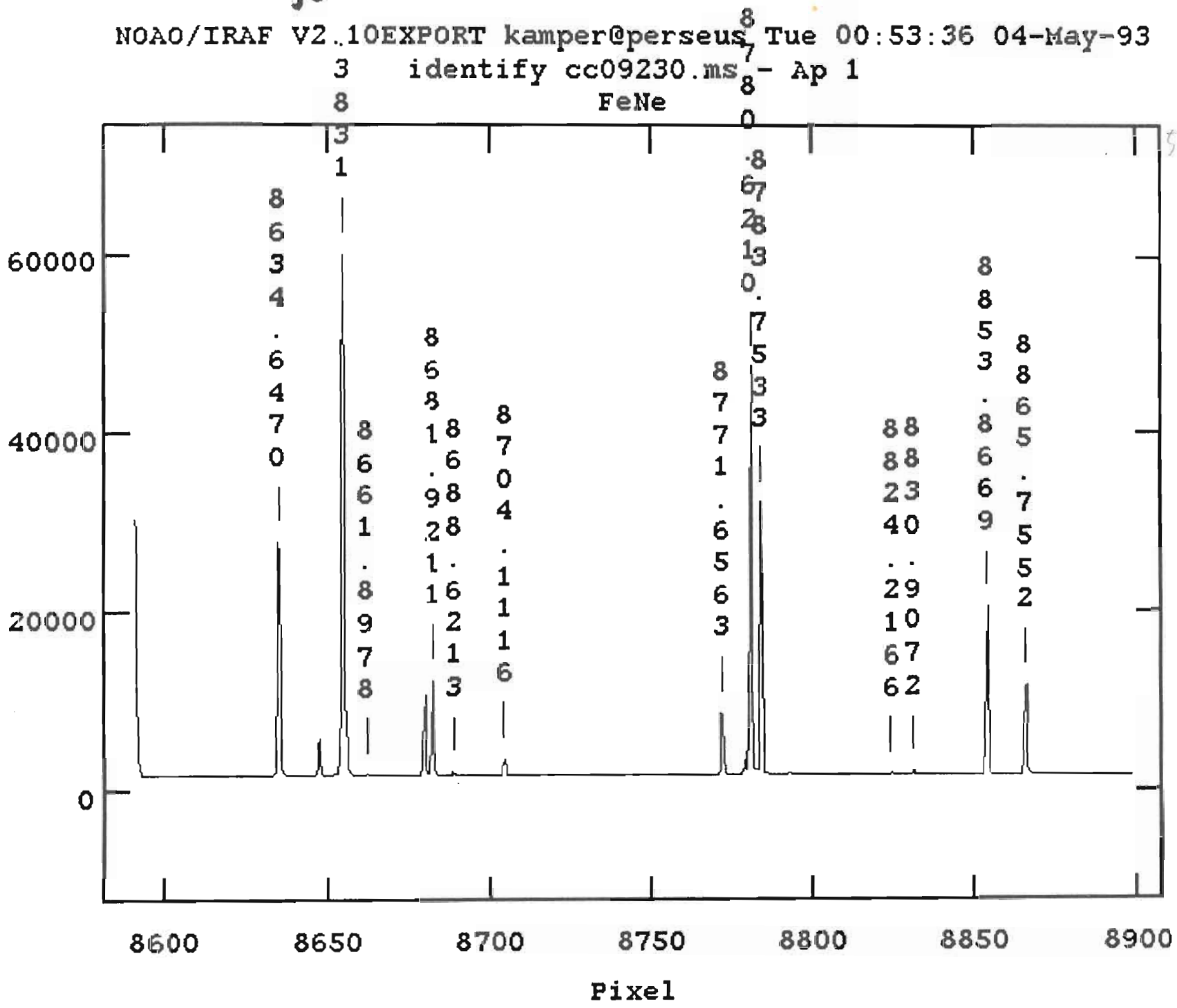
54

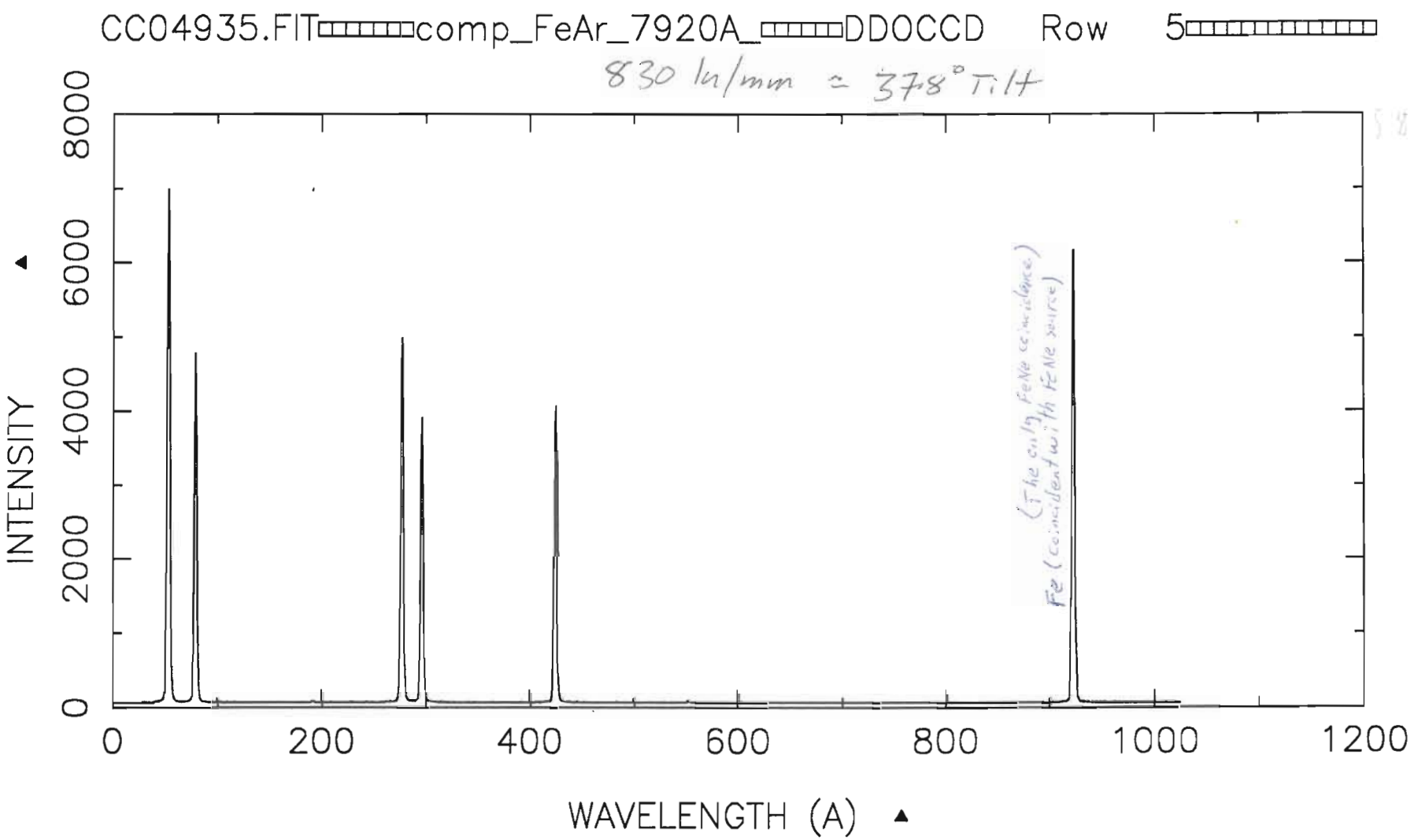
*use Filter 5 and compAR !

FOR 8365Å Center, gtilt·39.05 June 2005


NOAO/IRAF V2.12.1-EXPORT @www.tuc.noao.edu Fri 03:09:03 08-Jul-2005
identify output89016 - Ap 1
FeAr 3200A
600l @ 8500Å for MKi
55
Compar 1
manual ND 1.2; Filter 4
Gtilt 33.27
July 05
YBOX 200 465 1:1
focussp @ +20°C = 00.00
FLAT 4 with filter 4 + OG560
OG560 ORDER Sep Filters needed
YBox:
150 415 1:1
1.50E6
1.00E6
5.00E5
0
8115.3110 ArI
8103.6931 ArI
8143.5050 ArI
8203.4352 ArI
8264.5225 ArI
8327.0526 FeI
8408.2096 ArI
8424.6475 ArI
8490.3065 ArI
8521.4422 ArI
8605.7762 ArI
8620.4692 ArI
8667.9442 ArI
8688.6213 FeI
8761.6862 ArI
8799.0875 ArI
8962.1468 ArI
8200
8400
8600
8800
9000
Wavelength (angstroms)


NOAO/IRAF V2.10EXPORT ccd@perseus Wed 21:15:45 07-Apr-93
[cc09244.ms]: FeNe 8.00s ap:1 beam:1
17500
15000
12500
10000
7500
5000
2500
0
0
200
400
600
800
1000
Pixel
8591.26
8682.91
8671.36
8644.70
8495.36
8484.45
8463.37
8418.43
8377.61
8365.75
8300.33


NOAO/IRAF V2.10EXPORT kamper@perseus Tue 00:53:36 04-May-93
identify cc09230.ms - Ap 1
FeNe
8634.6470
8661.8978
8781.1630
8871.6563
8885.8669
8865.7552
60000
40000
20000
0
8600
8650
8700
8750
8800
8850
8900
Pixel



ithomson 1-Dec-1991 20:56