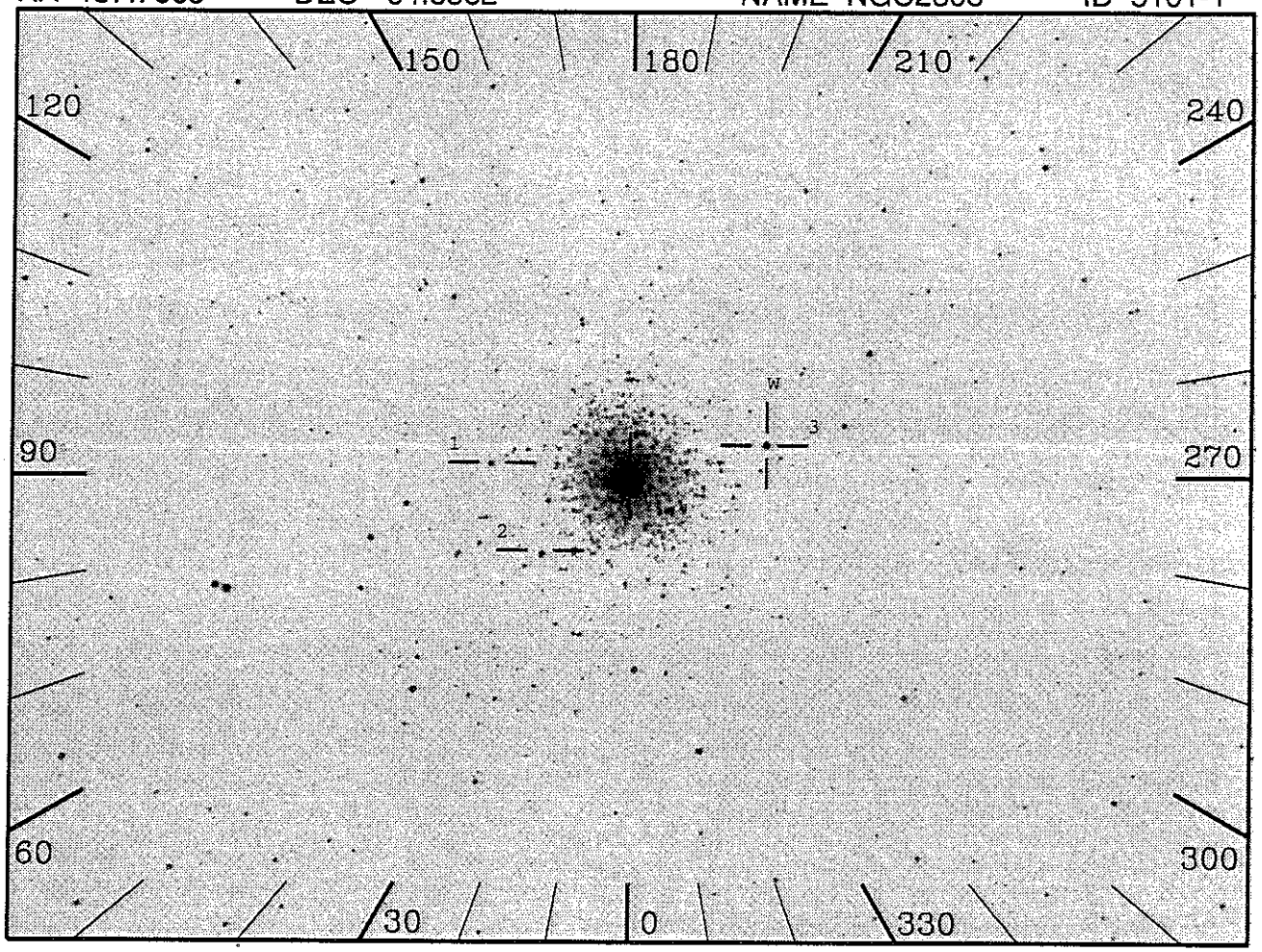
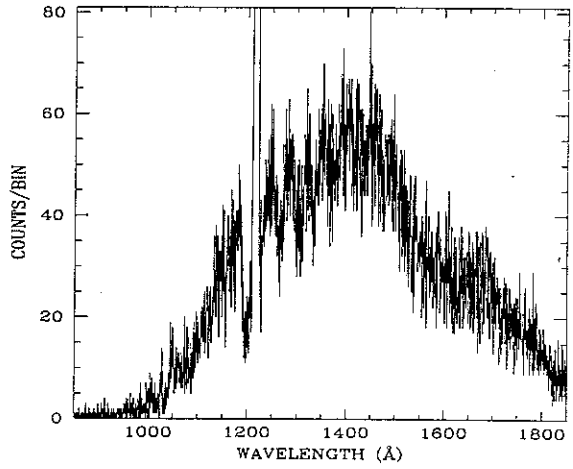
RA 137.7663 DEC -64.6562 NAME NGC2808 ID 5101-1



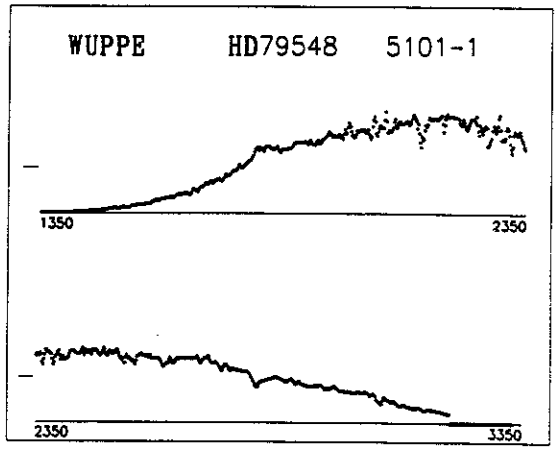
10"x56", 1000(s), Night

OBJECT: 5101 NGC2808
KEYWORDS: Globular Cluster
COMMENTS:
Place the 10"x56" slit on the cluster center.

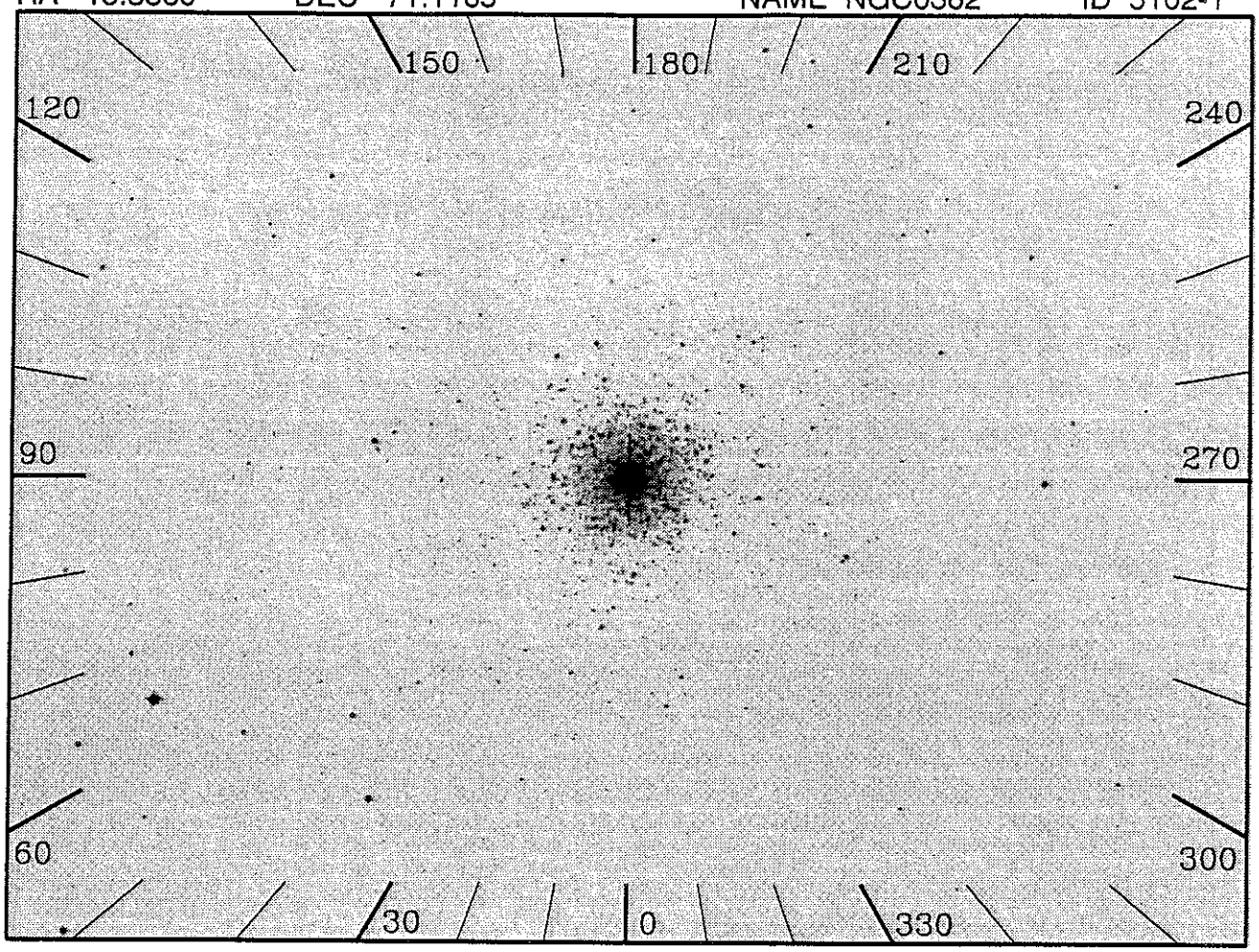
Try to match up the guide stars, as WUPPE wants to offset to a nearby star.



ID: 5101-1 U=Prime SciPgm= U05
Names: NGC2808
Info: V= Wupmag=11.6
% Pol:
Pos Ang:
Mechanism:
Comments:
NOTE: WUPPE OFFSET TARGET
WUP offsetting to HD79548
Info: A0 V=10.4 Wupmag=
IUE data used for simulated spectrum is that of 109-Vir (2408).

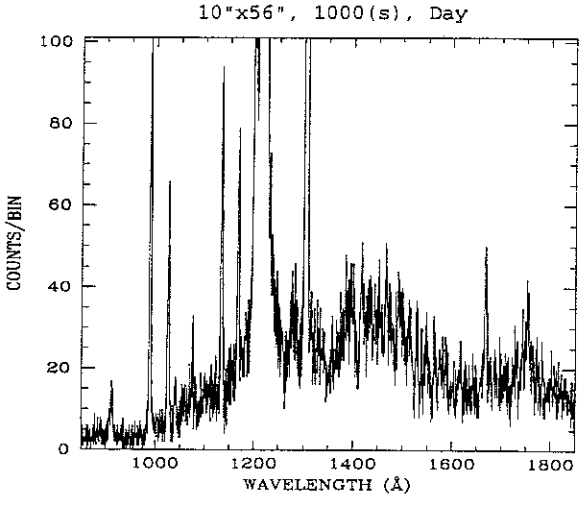


RA 15.3860 DEC -71.1165 NAME NGC0362 ID 5102-1

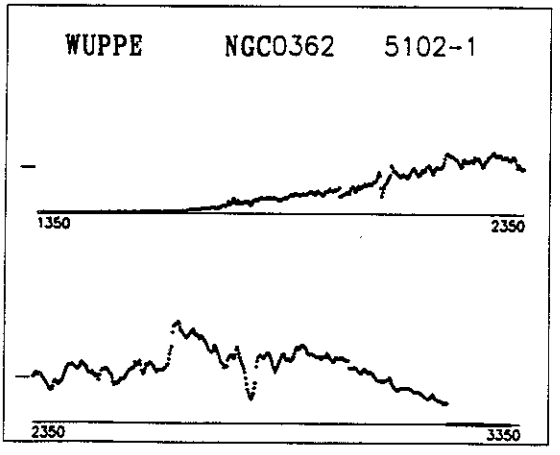


OBJECT: 5102 NGC0362
KEYWORDS: Globular Cluster
COMMENTS:
Place the 10"x56" slit on the cluster center.

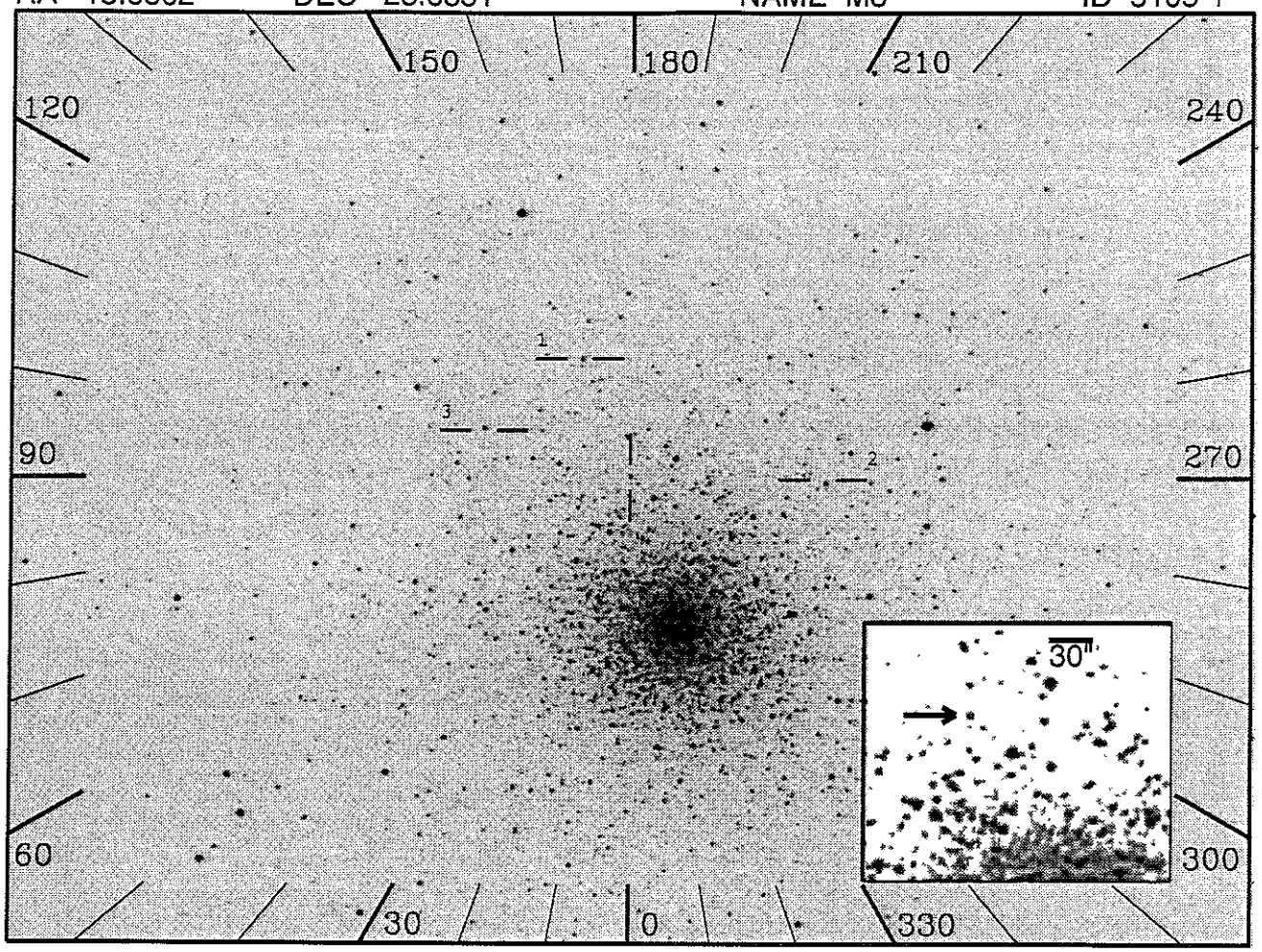
This cluster has a red horizontal branch, so may not produce much far-UV flux.



ID: 5102-1 U=Prime SciPgm= U05
Names: NGC0362
Info: V= Wupmag=10.9
% Pol:
Pos Ang:
Mechanism:
Comments:
Get integrated cluster spectrum with HUT.
Probe to interstellar dust.

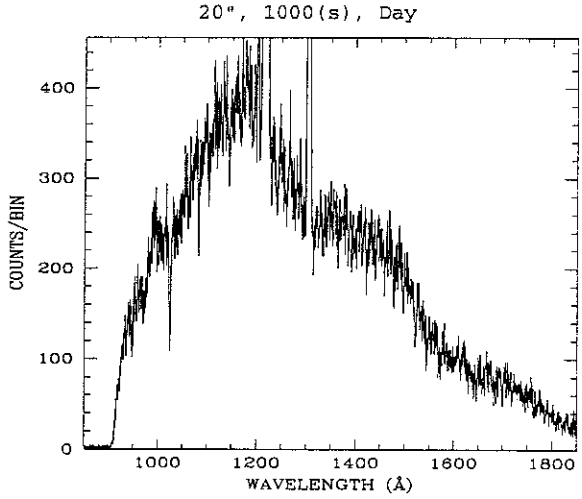


RA 13.6662 DEC 28.6851 NAME M3 ID 5105-1

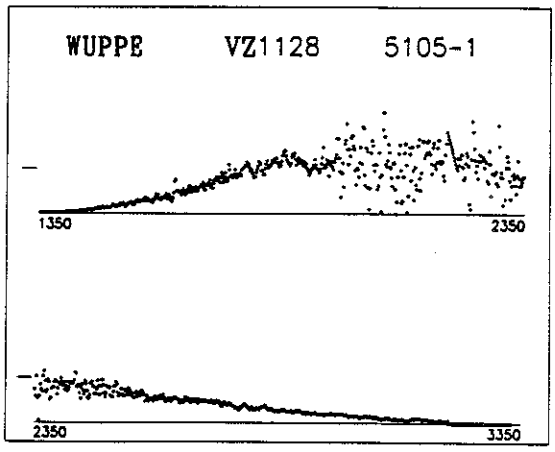


OBJECT: 5105 M3
KEYWORDS: UV-Bright Stars in Globular Clusters
COMMENTS:
We will observe the UV-bright star vZ 1128.

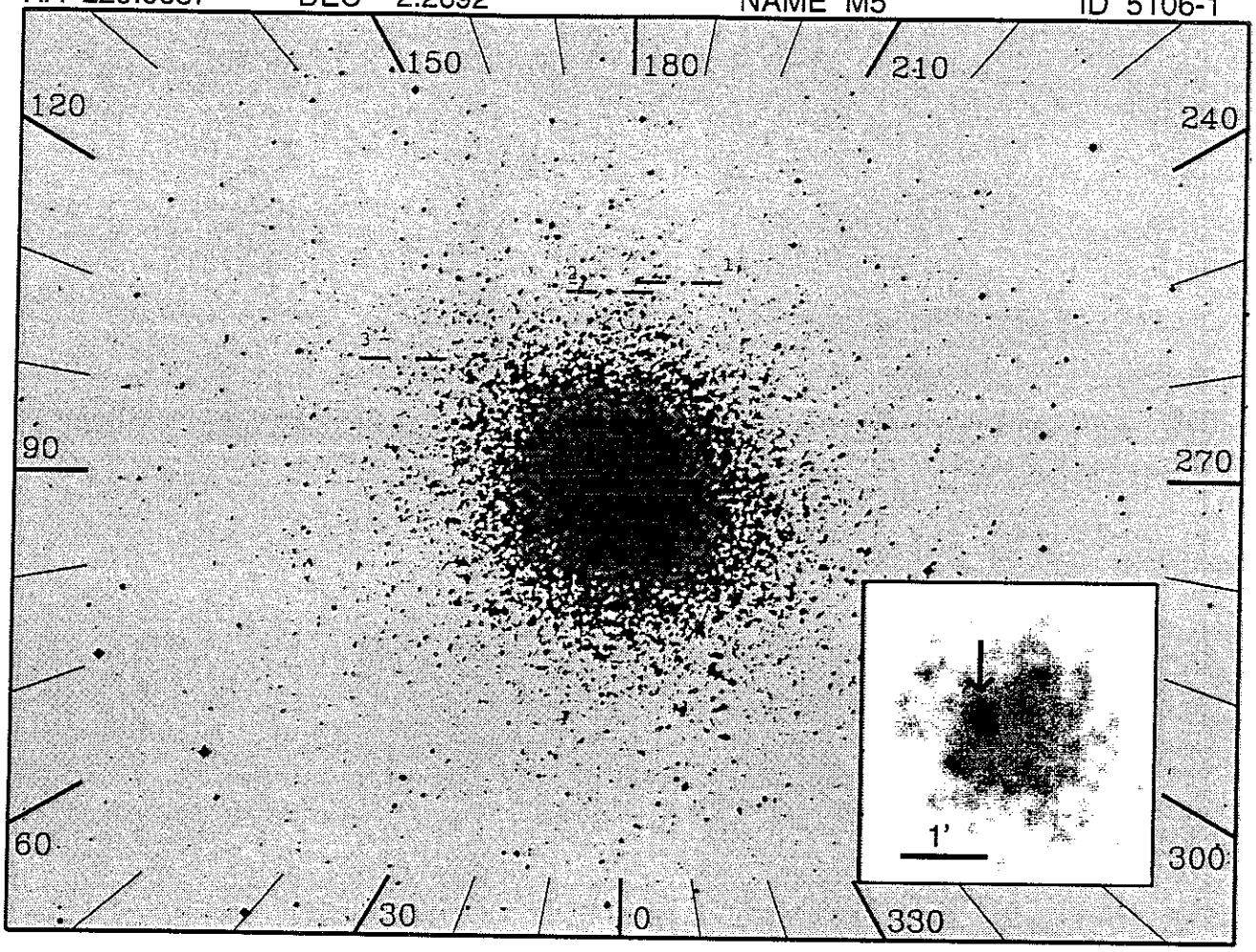
The star is 208" N and 73" E of the cluster center.
The star is visible, but the field is crowded.



ID: 5105-1 U=Prime SciPgm= U05
Names: M3 NGC5272
HUT=UVBS vZ1128
Info: O6 V= 15.03 Wupmag=10.63
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar Target=vZ1128. V=15.03.
B-V=-.41. E(B-V)=.01. Post AGB star.
UV-bright cluster member. Companions
within 12". Co-pointing with HUT.



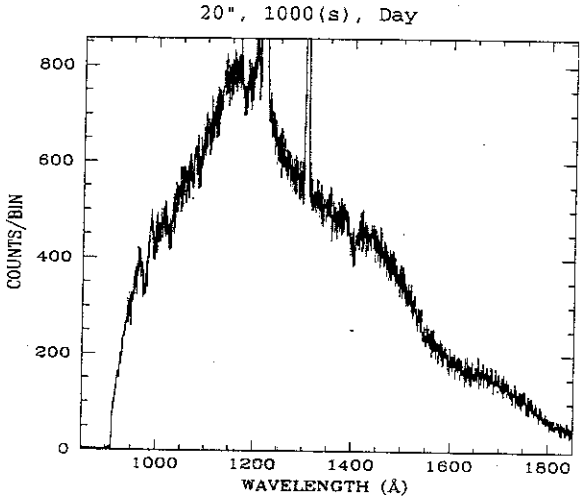
RA 229.0037 DEC 2.2692 NAME M5 ID 5106-1



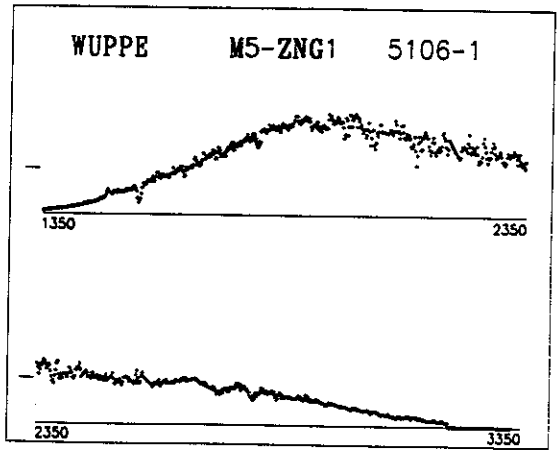
OBJECT: 5106 M5
KEYWORDS: UV-Bright Stars in Globular Clusters
COMMENTS:
We will observe the UV-bright star ZNG 1, or UVB.

Because the star is buried within the cluster, we will use guide-star locate. The count rate should rise dramatically once the star enters the slit.

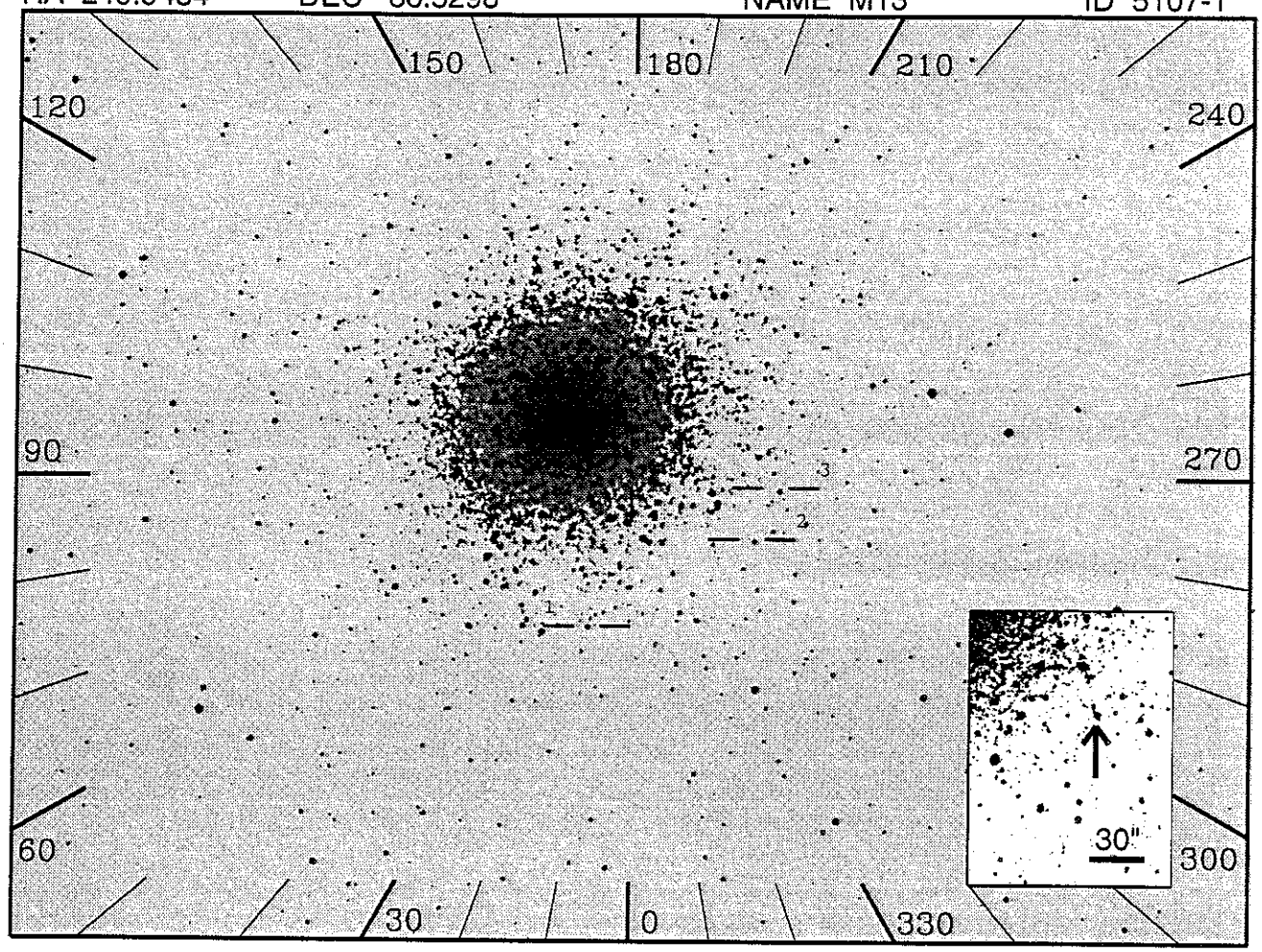
Note: Inset shows UV image of the cluster core.



ID: 5106-1 U=Prime SciPgm= U05
Names: M5 NGC5904
HUT=ZNG1
Info: V= 14.2 Wupmag=10.74
% Pol:
Pos Ang:
Mechanism:
Comments:
Target=ZNG1, B-V=-.3. Probe to interstellar dust. ZNG1 is a UV bright star. Co-pointing with HUT.



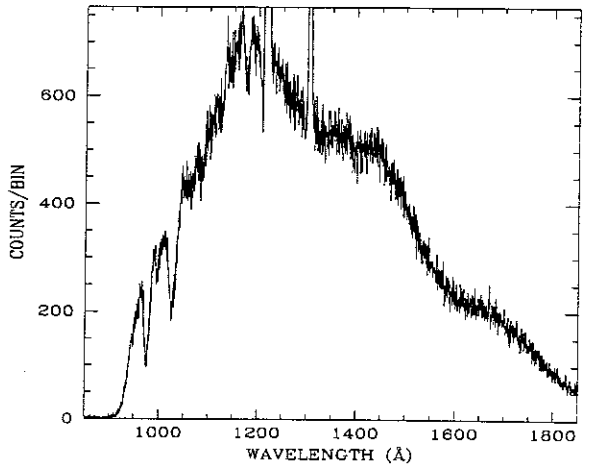
RA 249.9434 DEC 36.5298 NAME M13 ID 5107-1



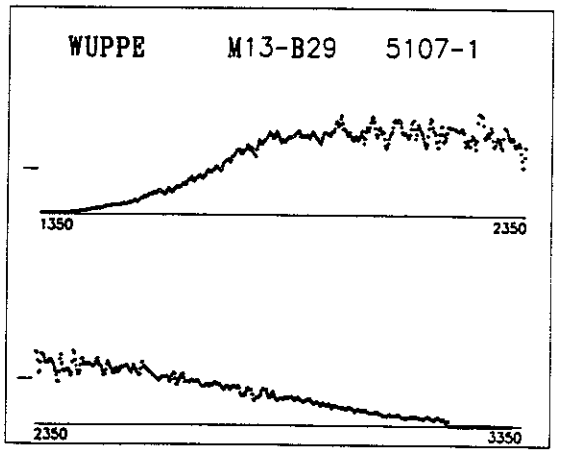
20", 1000(s), Day

OBJECT: 5107 M13
KEYWORDS: UV-Bright Stars in Globular Clusters
COMMENTS:
We will observe the UV-bright star Barnard 29.

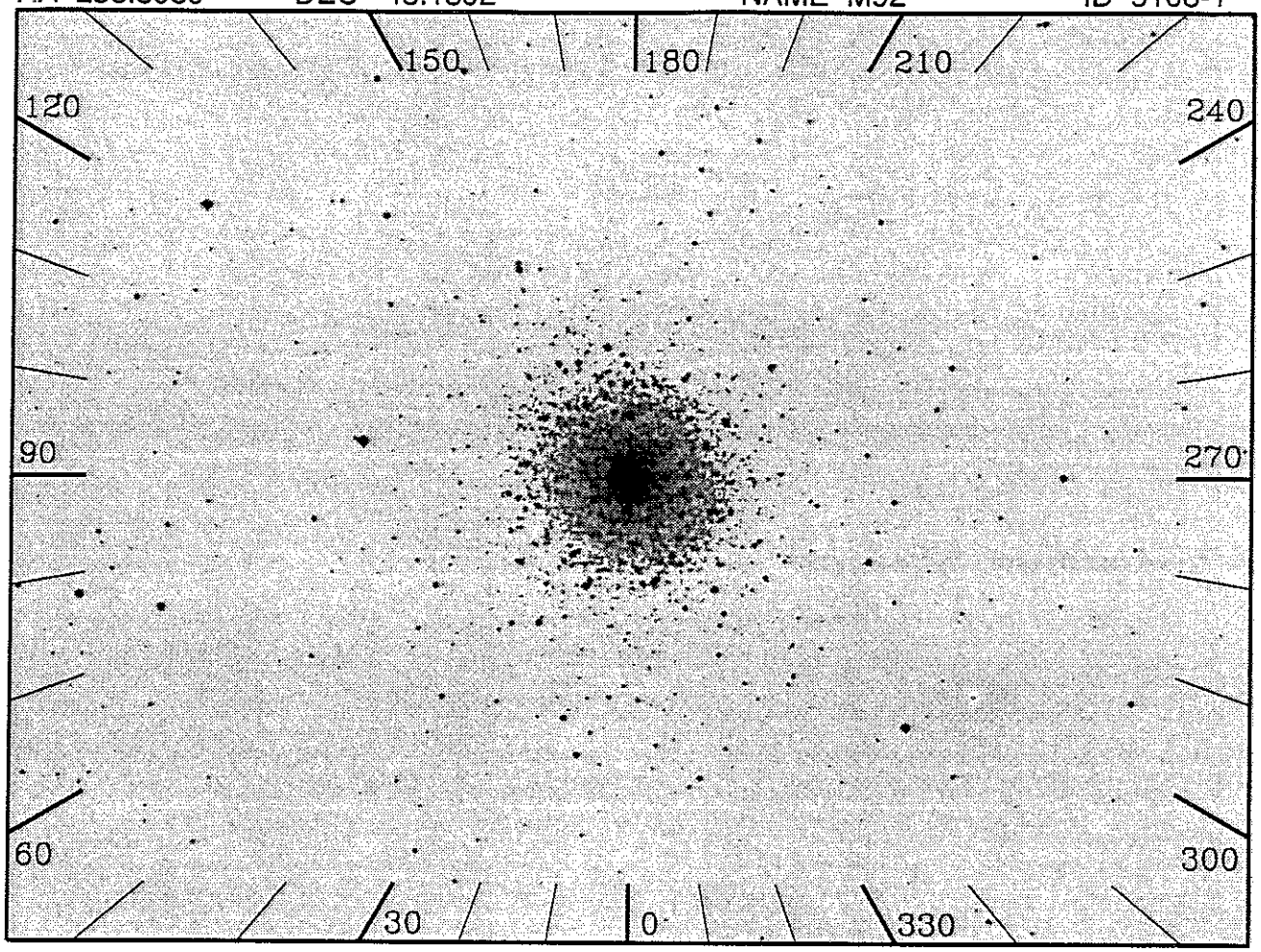
The star is 89" S and 94" W of the cluster center.
The star is visible, but the field is crowded.



ID: 5107-1 U=Prime SciPgm= U05
Names: M13 NGC6205
HUT=Barnard 29
Info: B3 V= 13.0 Wupmag=10.2
% Pol:
Pos Ang:
Mechanism:
Comments:
HUT & WUP observing B29, B-V=-.10
Probe to interstellar dust. B29 is
a UV bright star.

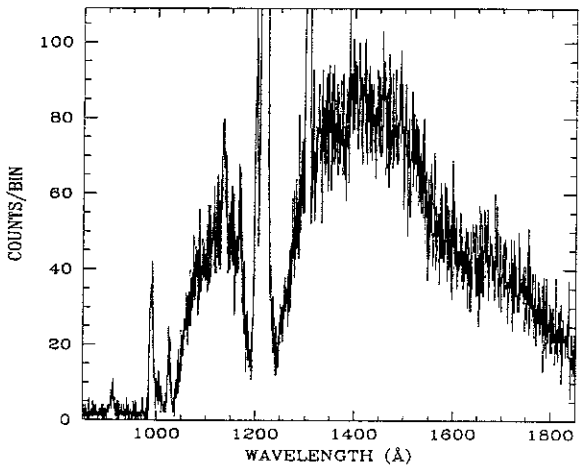


RA 258.8959 DEC 43.1892 NAME M92 ID 5108-1

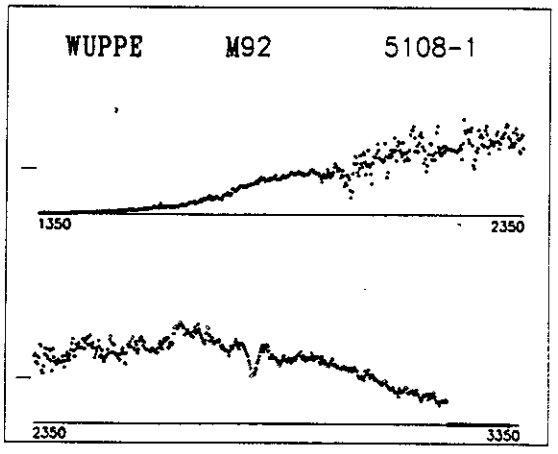


OBJECT: 5108 M92
KEYWORDS: Globular Cluster
COMMENTS:
Place the 10"x56" slit on the cluster center.

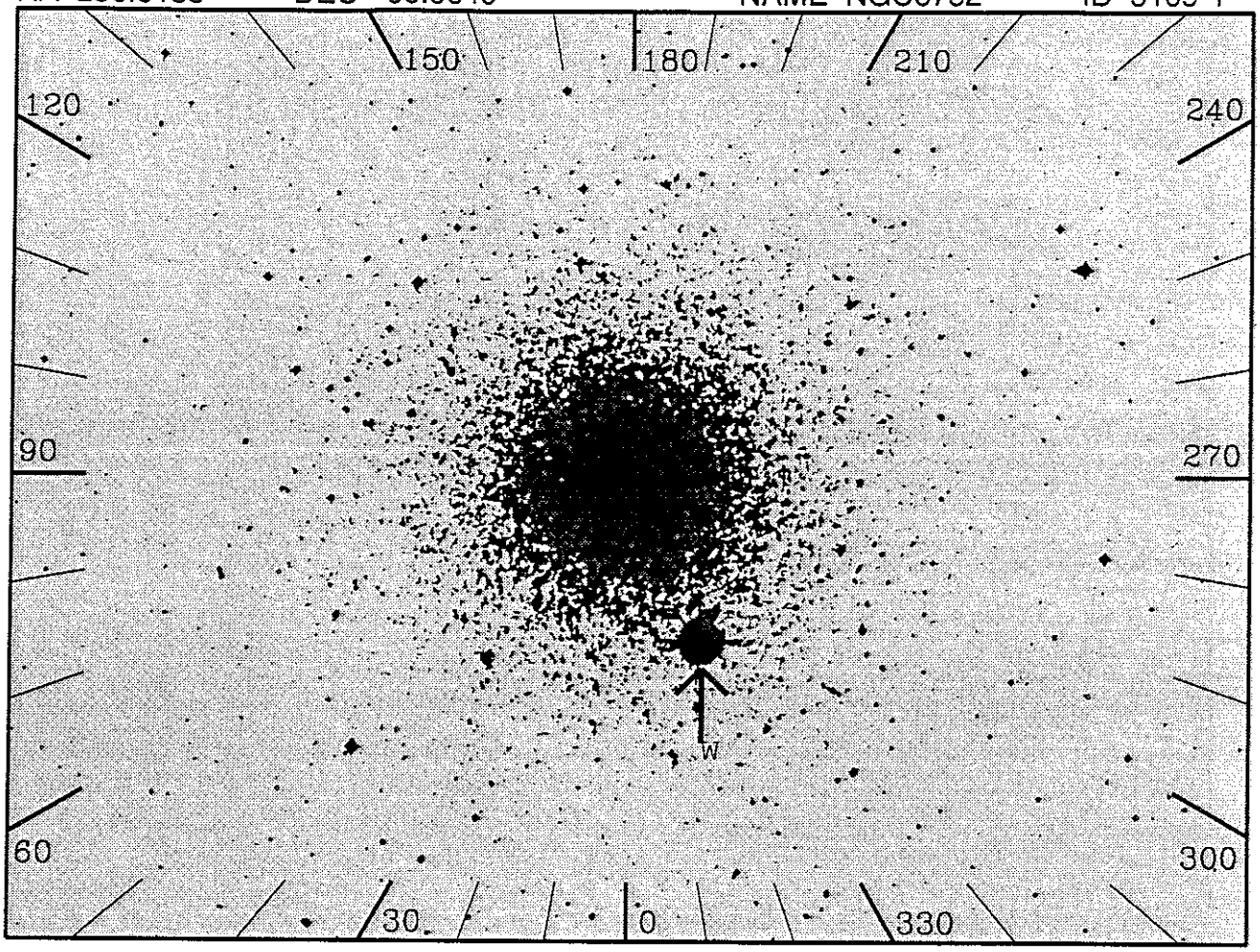
10"x56", 1000(s), Day



ID: 5108-1 U=Prime SciPgm= U05
Names: M92 NGC6341
Info: Globular Cluster V= Wupmag=10.9
% Pol:
Pos Ang:
Mechanism:
Comments:
Get integrated cluster spectrum. Probe to interstellar dust. Co-pointing with HUT.

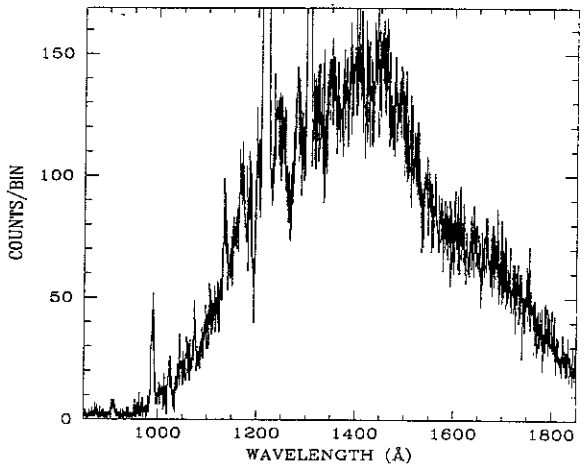


RA 286.6138 DEC -60.0640 NAME NGC6752 ID 5109-1

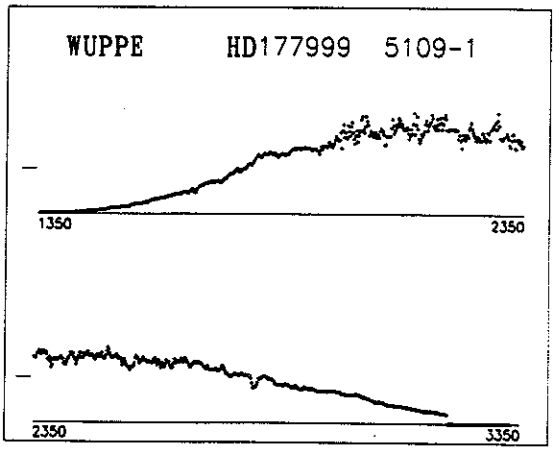


OBJECT: 5109 NGC6752
KEYWORDS: Globular Cluster
COMMENTS:
Use guide-star locate because of a 7th-magnitude star in the TV camera field.

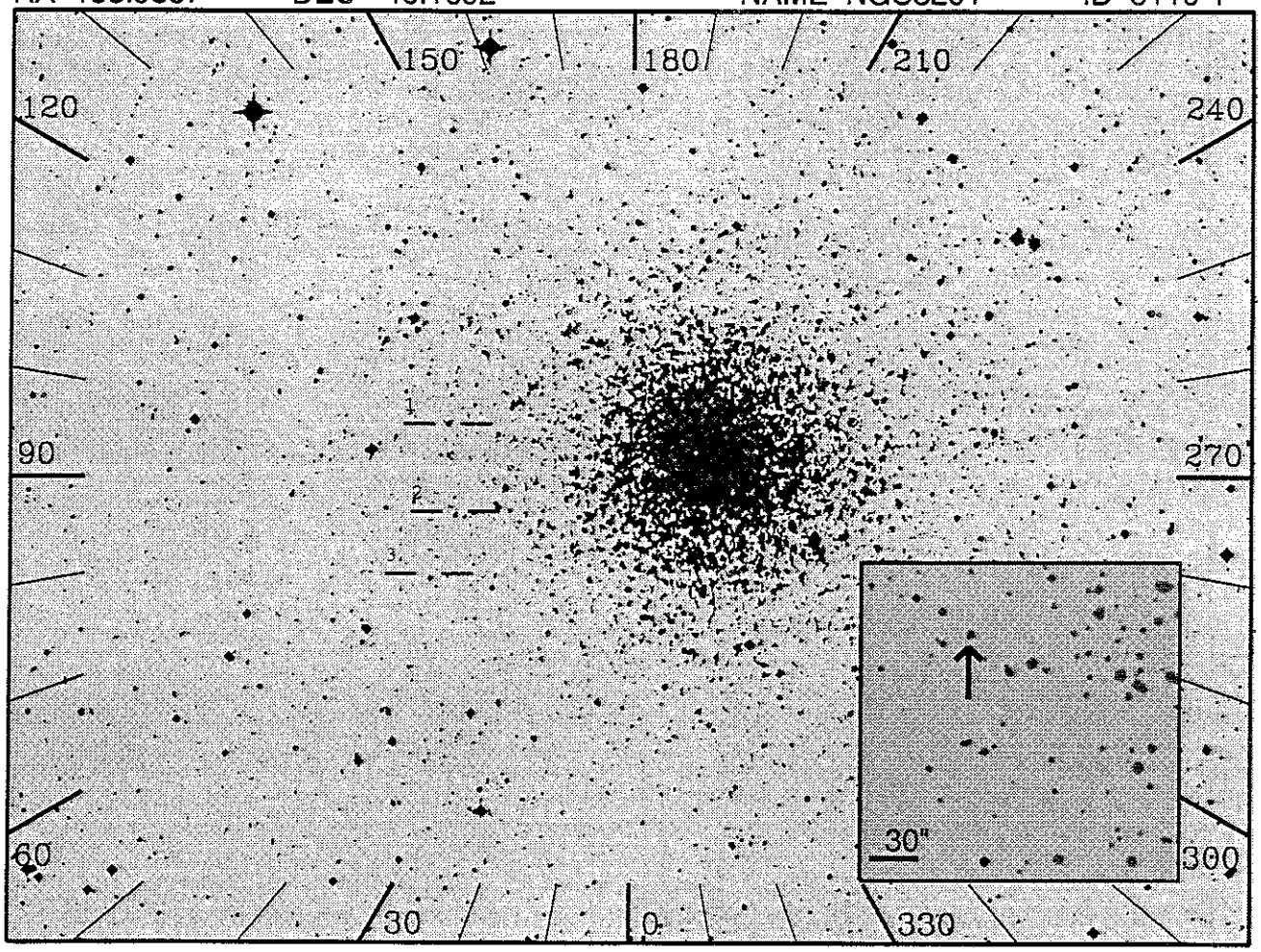
10"x56", 1000(s), Day



ID: 5109-1 U=Prime SciPgm= U05
Names: NGC6752
Info: Globular Cluster V= Wupmag=10.7
% Pol:
Pos Ang:
Mechanism:
Comments:
NOTE: WUPPE OFFSET TARGET
WUP is offsetting to HD177999
Info: B9II/III V=7.41 Wupmag=6.36
B-V=-.06, U-B=-.17. Probe to inter-
stellar dust.
IUE data used for simulated spectrum
is that of Xi2-Cet (0604).



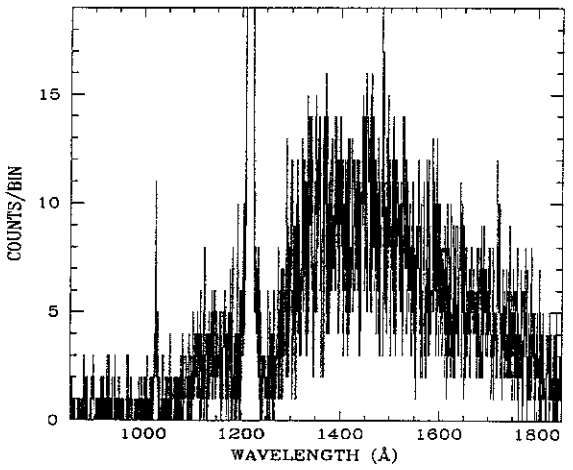
RA 153.9337 DEC -46.1692 NAME NGC3201 ID 5110-1



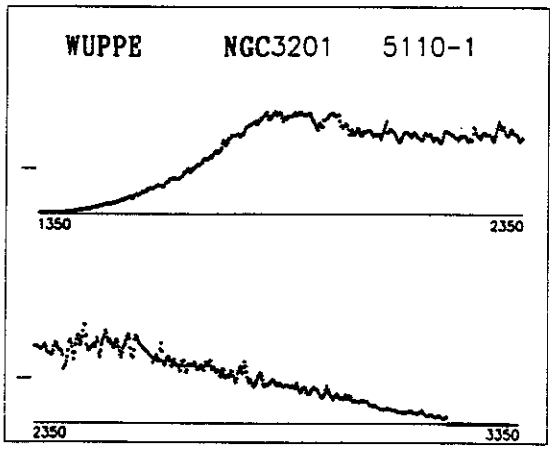
20", 1000(s), Night

OBJECT: 5110 NGC3201
KEYWORDS: UV-Bright Stars in Globular Clusters
COMMENTS:
We will observe the UV-bright star L4502.

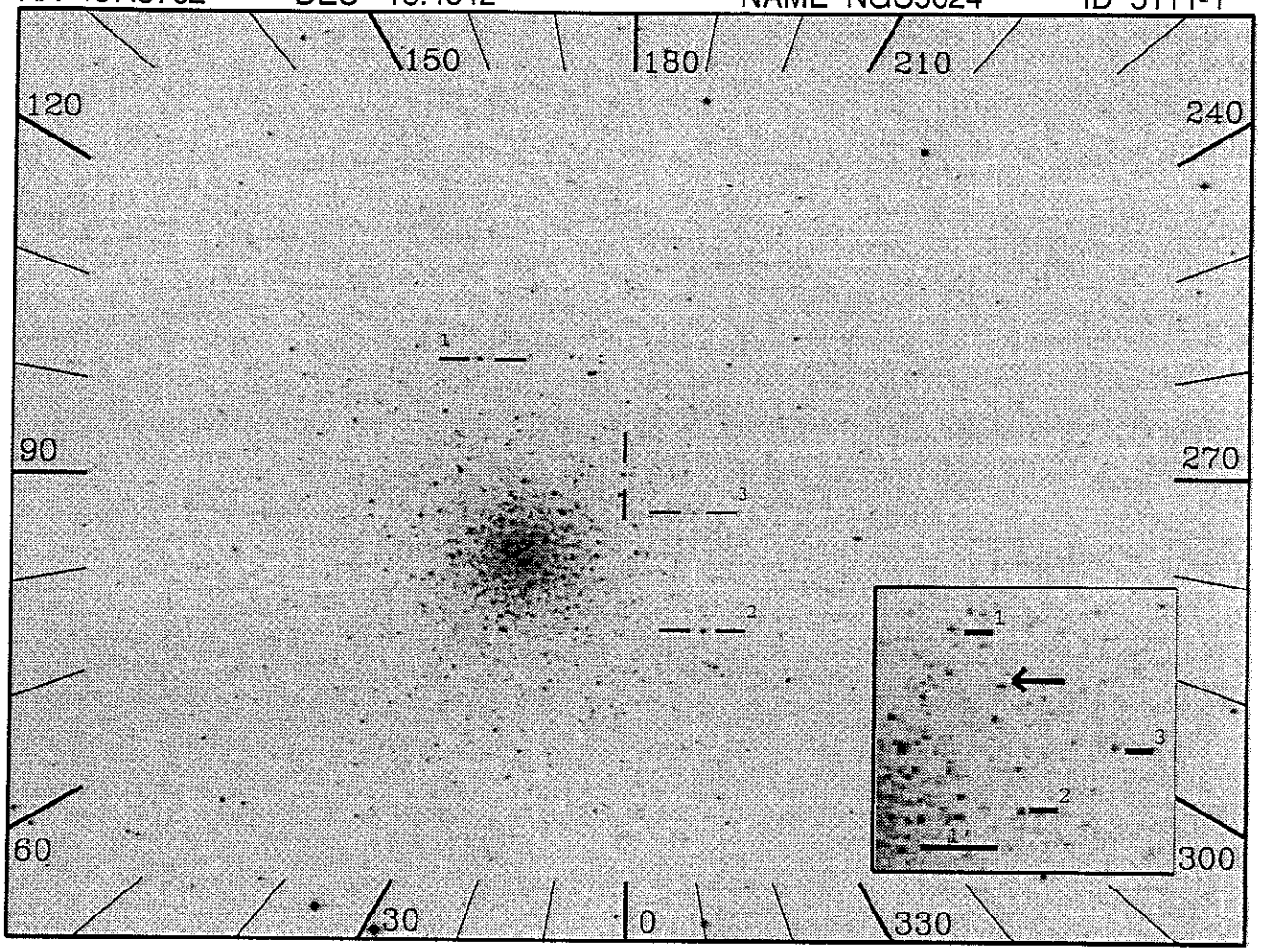
The star is 110" E and 31" S of the cluster center. It is visible, but the field is crowded. The cluster is highly reddened, so the count rate will remain low even when you've found the star.



ID: 5110-1 U=Prime SciPgm= U05
Names: NGC3201
HUT=L4502 (IV-5-2)
Info: V=13.79 Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar Target: L4502=IV-5-2, B-V=.19, U-B=-.22. Probe to interstellar dust. Co-pointing with HUT. IUE data used for simulated spectrum is that of Omg-Cen (5116).



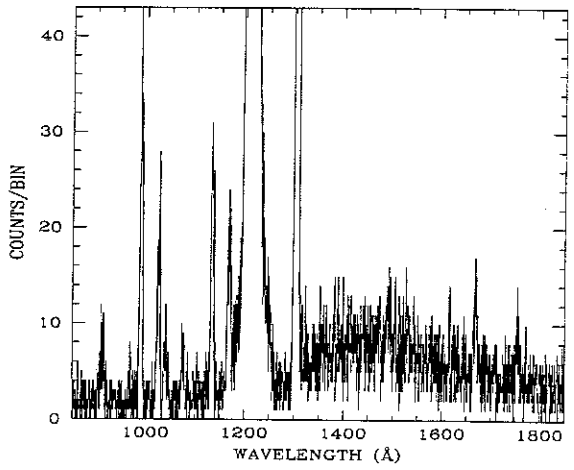
RA 197.5762 DEC 18.4642 NAME NGC5024 ID 5111-1



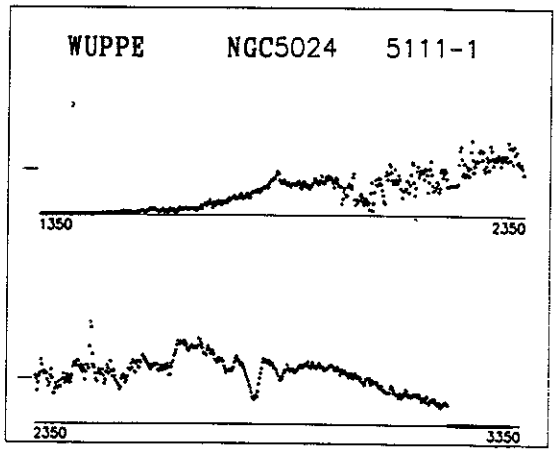
20", 1000(s), Day

OBJECT: 5111 NGC5024
KEYWORDS: UV-Bright Stars in Globular Clusters
COMMENTS:
We will observe the UV-bright star ZNG 3, or star L.

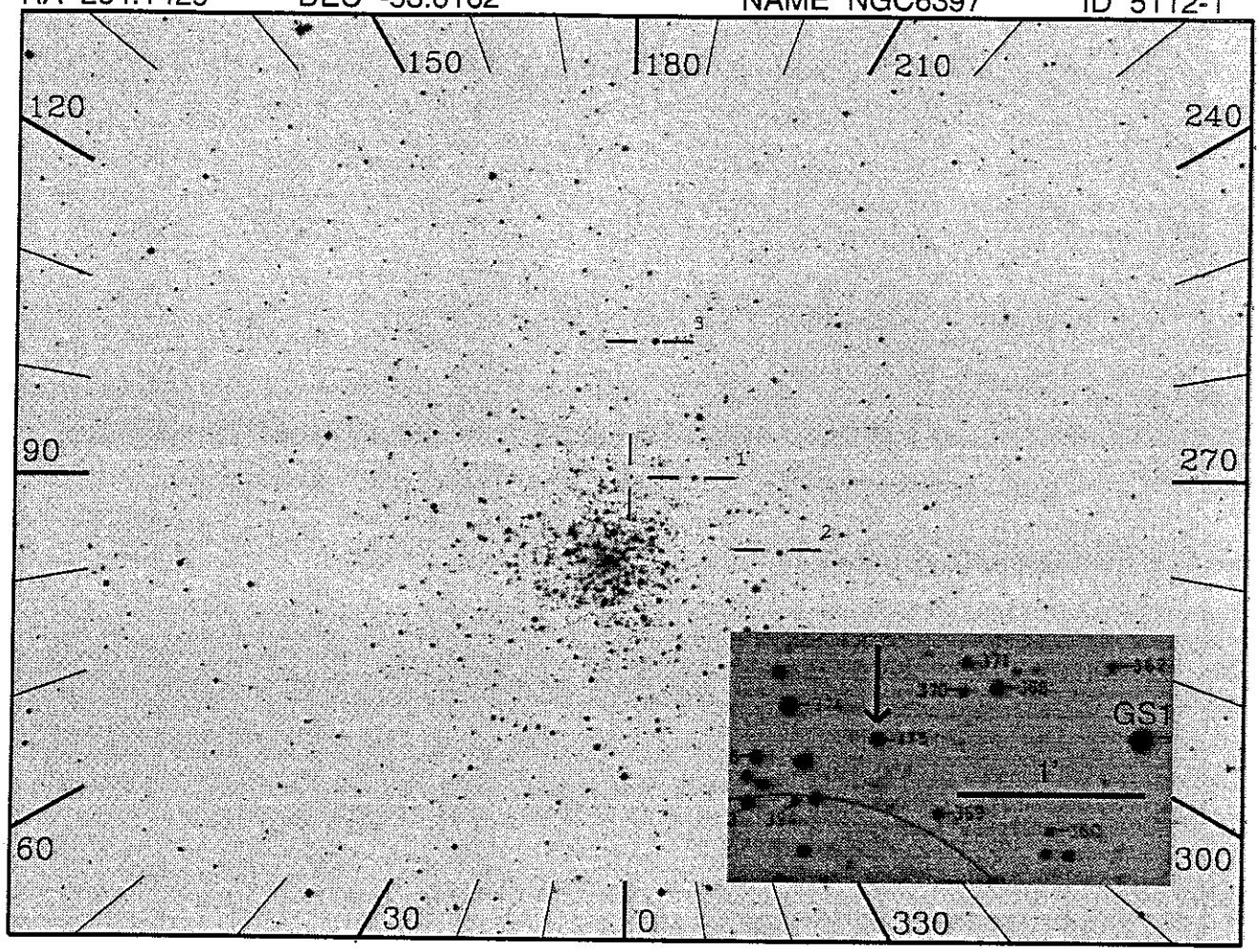
The star is 109" N and 142" W of the cluster center.
This star is faint, so the count rate will be low.



ID: 5111-1 U=Prime SciPgm= U05
Names: NGC5024 M53
HUT=ZNG3
Info: V= 14.94 Wupmag=12.9
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar target=ZNG3, B-V=.04.
Co-pointing with HUT.
IUE data used for simulated spectrum
is that of M5 (5106).



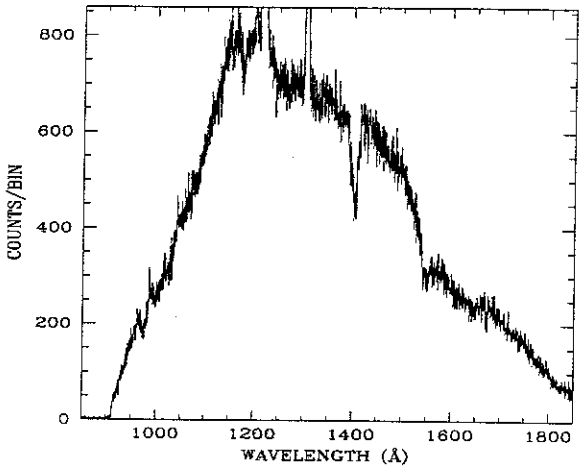
RA 264.1429 DEC -53.6162 NAME NGC6397 ID 5112-1



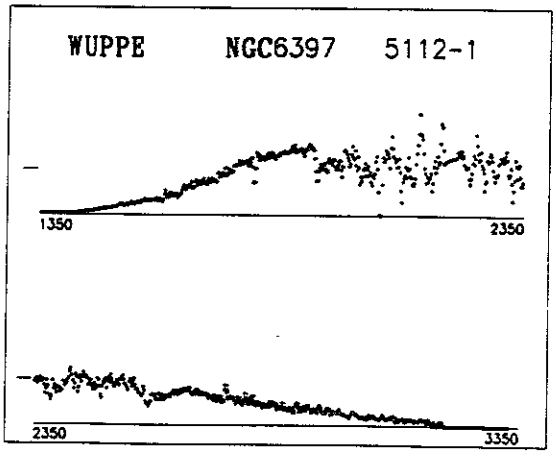
OBJECT: 5112 NGC6397
KEYWORDS: UV-Bright Stars in Globular Clusters
COMMENTS:
We will observe the UV-bright star ROB 162.

The star is 25" W and 114" N of the cluster center. It is well separated from other stars and relatively bright.

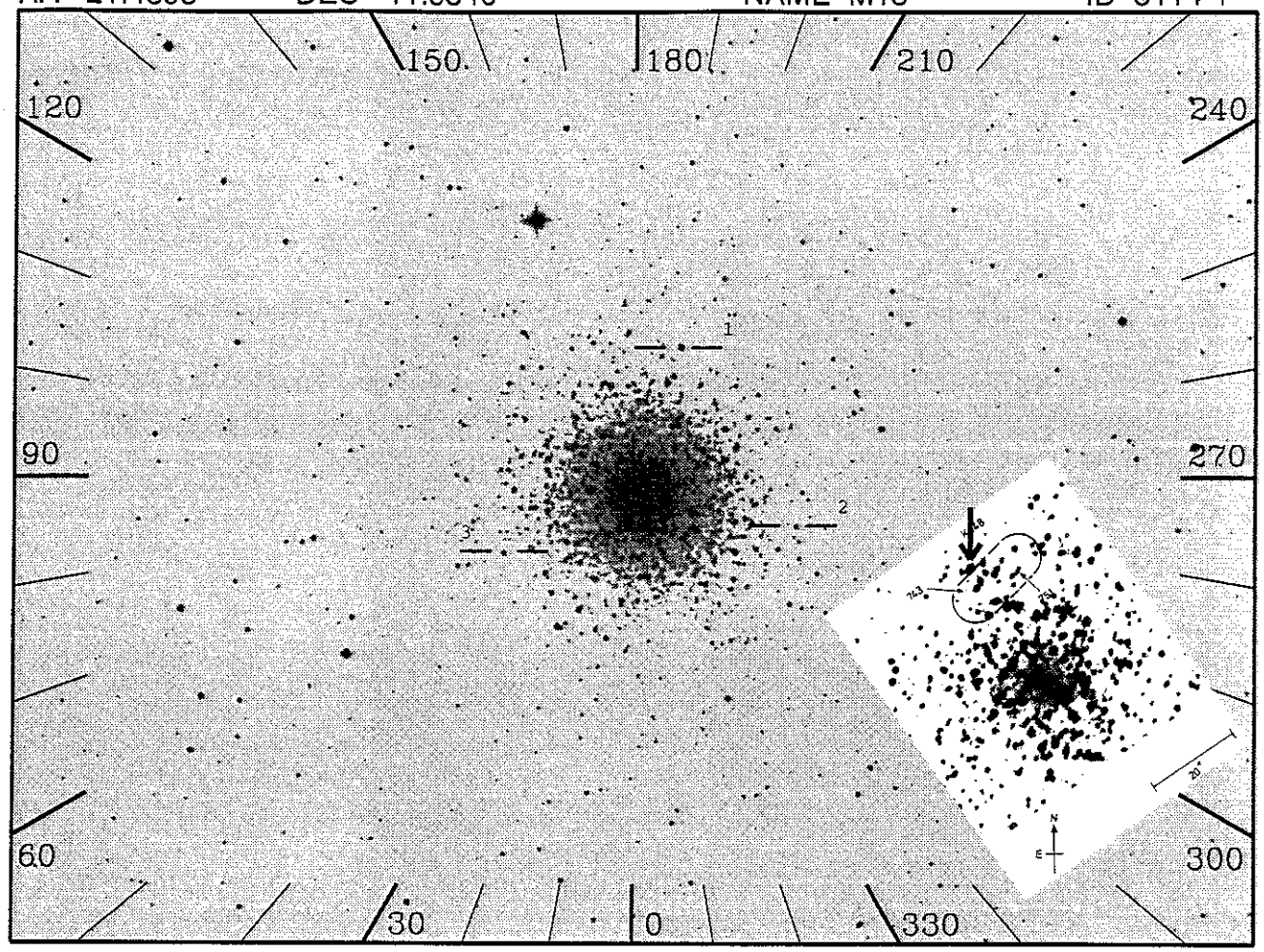
20", 1000(s), Day



ID: 5112-1 U=Prime SciPgm= U05
Names: NGC6397
HUT=ROB162
Info: sdOp V=13.23 Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar Target=ROB162. B=13.06.
Co-pointing with HUT.
IUE data used for simulated spectrum is that of SW-Mid (2506).



RA 21.4595 DEC 11.9540 NAME M15 ID 5114-1

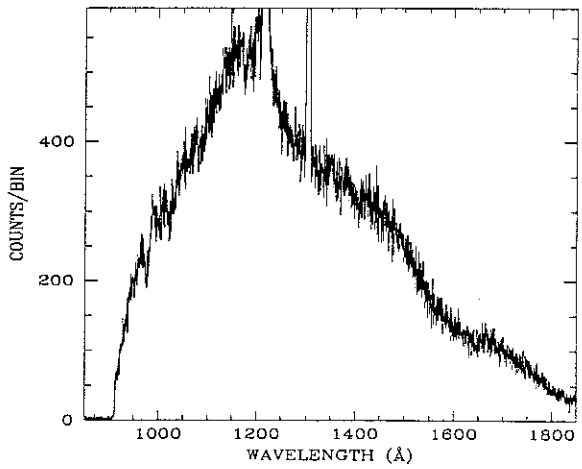


20", 1000(s), Day

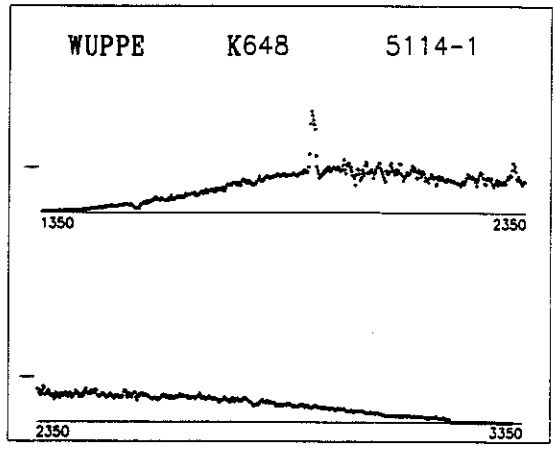
OBJECT: 5114 M15
KEYWORDS: UV-Bright Stars in Globular Clusters
COMMENTS:
We will observe the planetary nebula K648.

The star is 26" N and 13" E of the cluster center. Because the star is buried within the cluster, we will use guide-star locate. The count rate should rise dramatically once the star enters the slit.

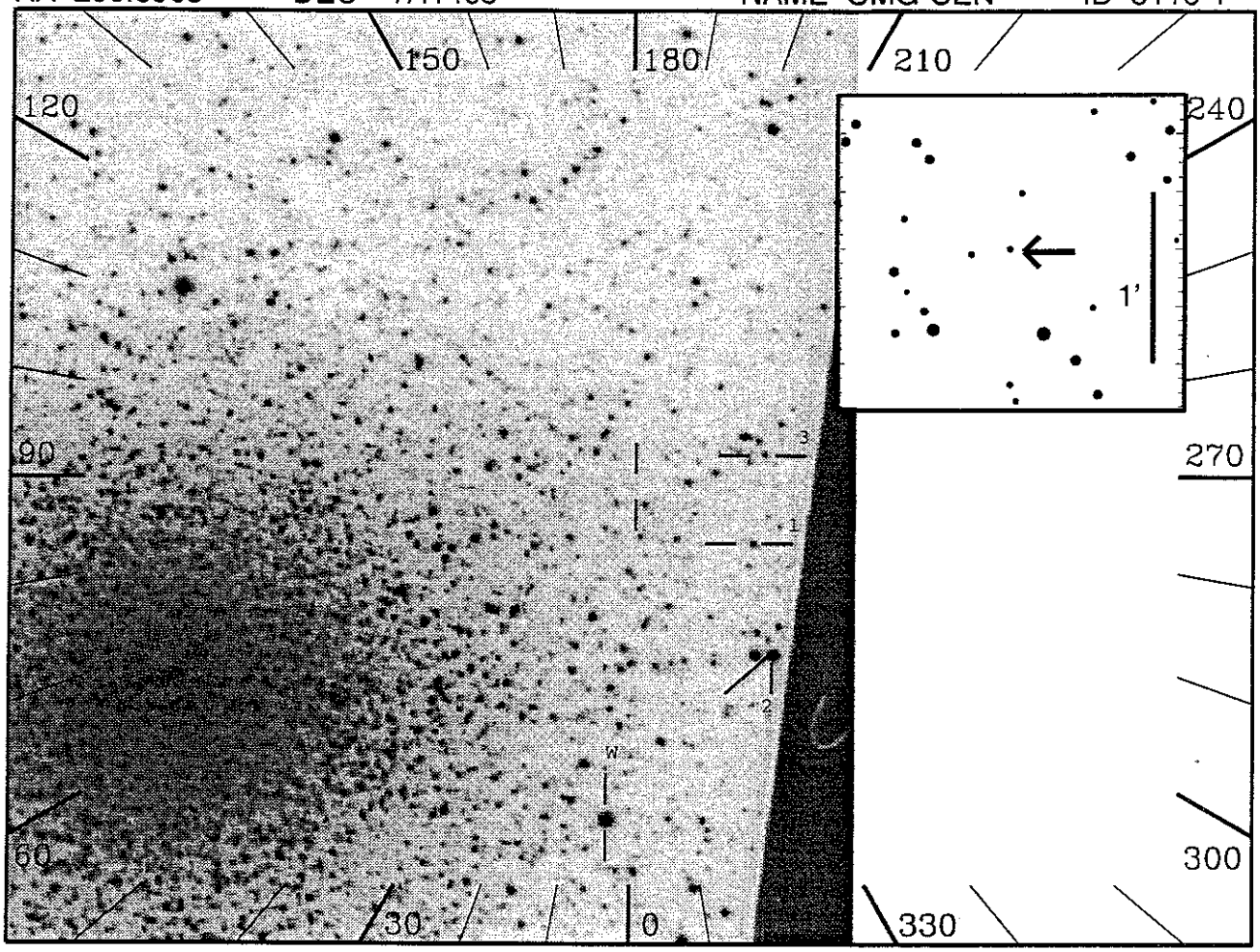
Note: Inset is from an IUE paper; ignore the aperture outline. They missed.



ID: 5114-1 U=Prime SciPgm= U05
Names: M15 NGC7078
HUT=K648
Info: V= Wupmag=10.56
% Pol:
Pos Ang:
Mechanism:
Comments:
Co-pointing with HUT.



RA 200.6903 DEC -47.1408 NAME OMG-CEN ID 5116-1

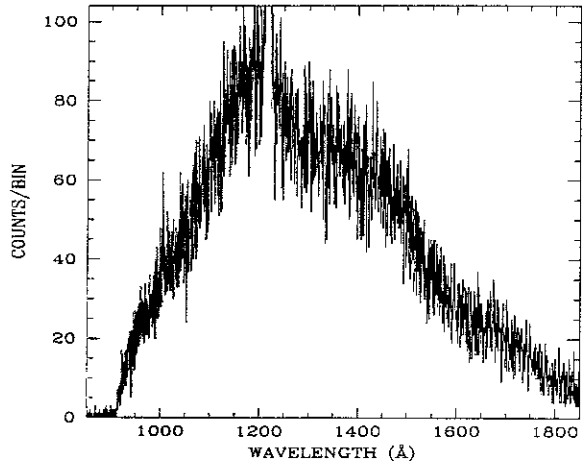


20", 1000(s), Night

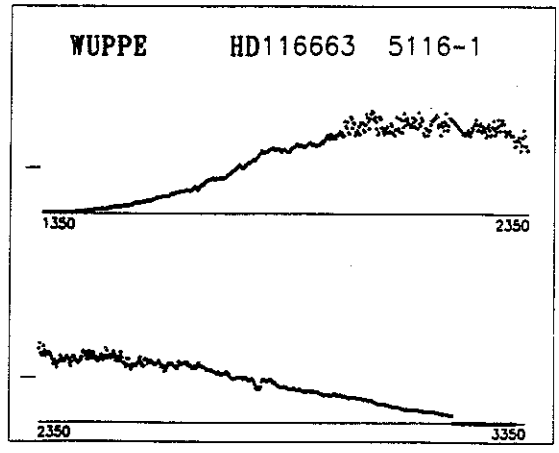
OBJECT: 5116 OMG-CEN
KEYWORDS: UV-Bright Stars in Globular Clusters
COMMENTS:
We will observe the UV-bright star ROA 5342.

The star is 10.2 arcmin W and 4.6 arcmin N of the cluster center. It is faint (V = 15.9) but quite hot.

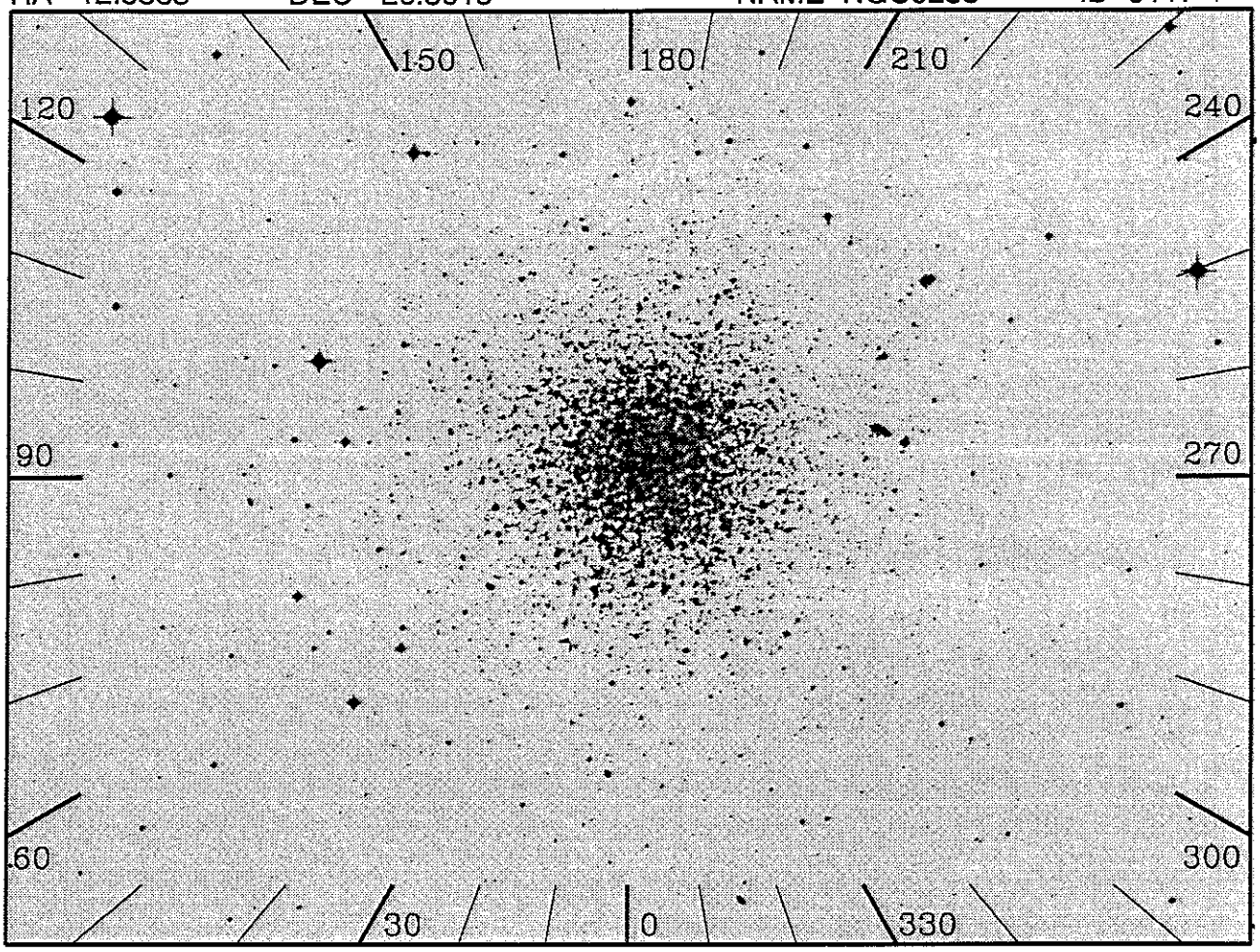
WARNING: FAINT STAR IN CROWDED FIELD.



ID: 5116-1 U=Prime SciPgm= U05
Names: OMG-CEN NGC5139
HUT=ROA5342
Info: V= Wupmag=10.7
% Pol:
Pos Ang:
Mechanism:
Comments:
NOTE: WUPPE OFFSET TARGET
WUP is offsetting to HD116663
Info: B9V V=8.80 Wupmag=
Foreground star. B-V=.00, U-B=-.13.
IUE data used for simulated spectrum
is that of Zet-Peg (0610).

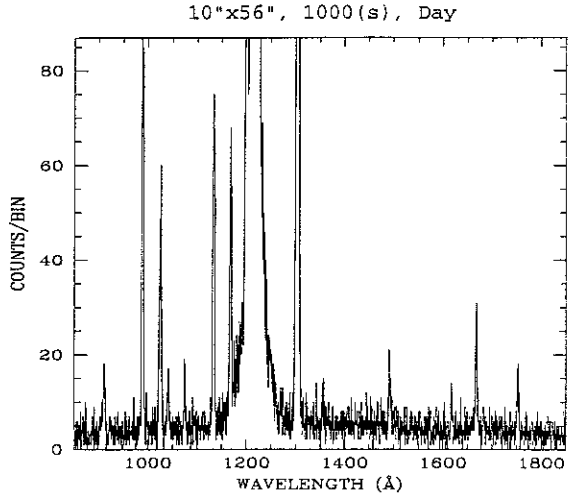


RA 12.5883 DEC -26.8613 NAME NGC0288 ID 5117-1

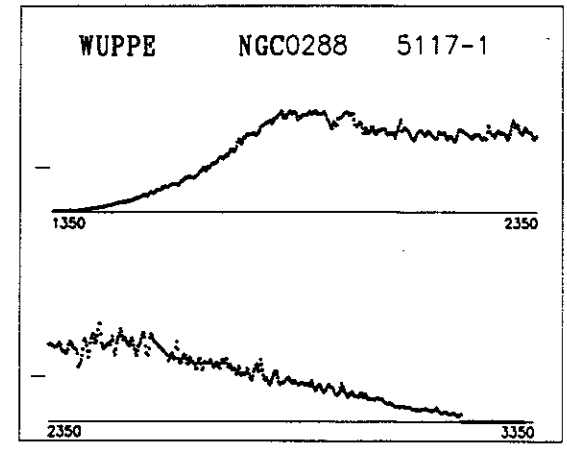


OBJECT: 5117 NGC0288
KEYWORDS: Globular Cluster
COMMENTS:
Place the 10"x56" slit on the cluster center.

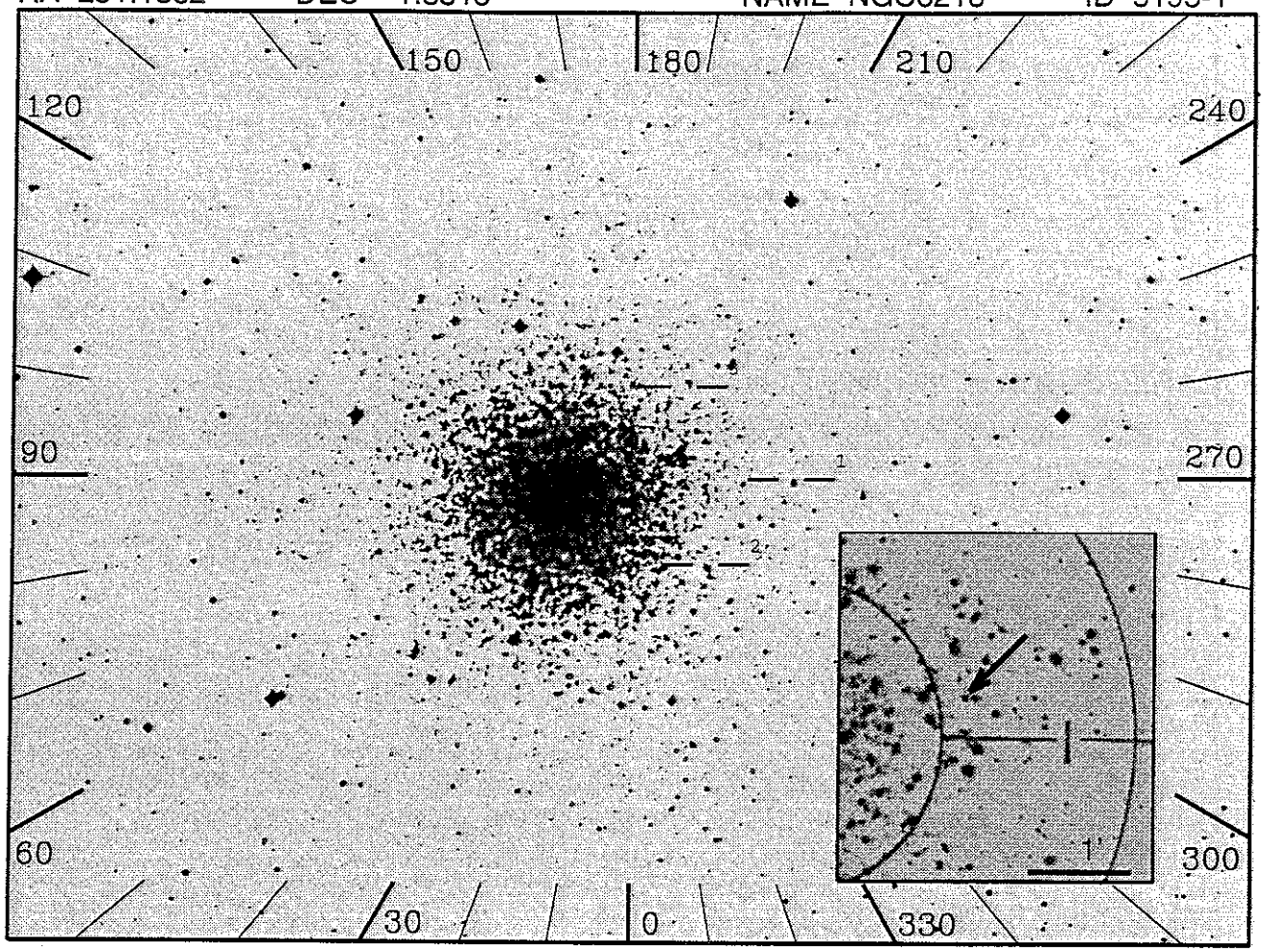
This cluster is very faint.



ID: 5117-1 U=Prime SciPgm= U05
Names: NGC0288
Info: Globular Cluster V= Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Get integrated cluster spectrum. Probe to interstellar dust. Co-pointing with HUT. IUE data used for simulated spectrum is that of Omg-Cen (5116).



RA 251.1332 DEC -1.8513 NAME NGC6218 ID 5195-1

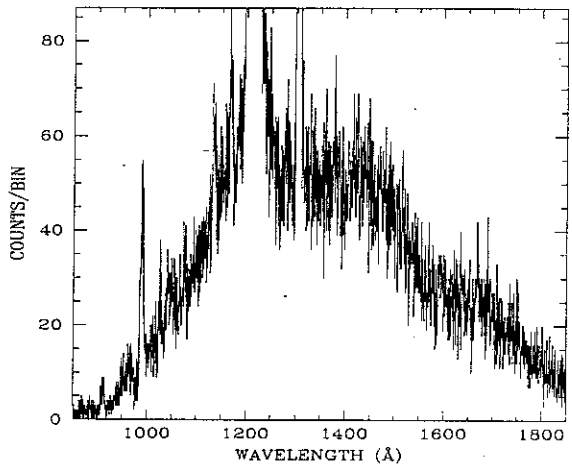


OBJECT: 5195 NGC6218
KEYWORDS: UV-Bright Stars in Globular Clusters
COMMENTS:
We will observe the UV-bright star IV-1-10.

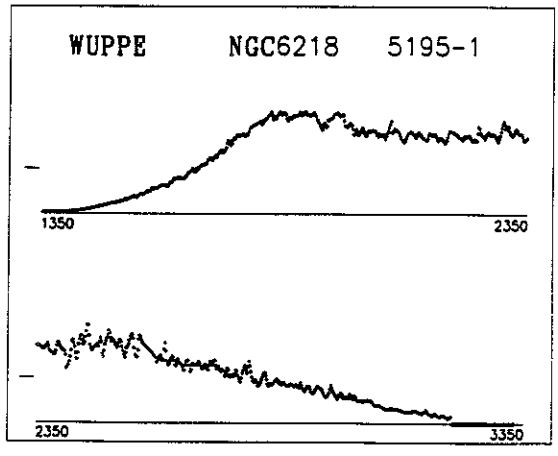
The star is 29" N and 100" W of the cluster center.
The star is visible, but the field is crowded.

Please ignore the arcs and label "1" on the inset.
They are relics from a published paper.

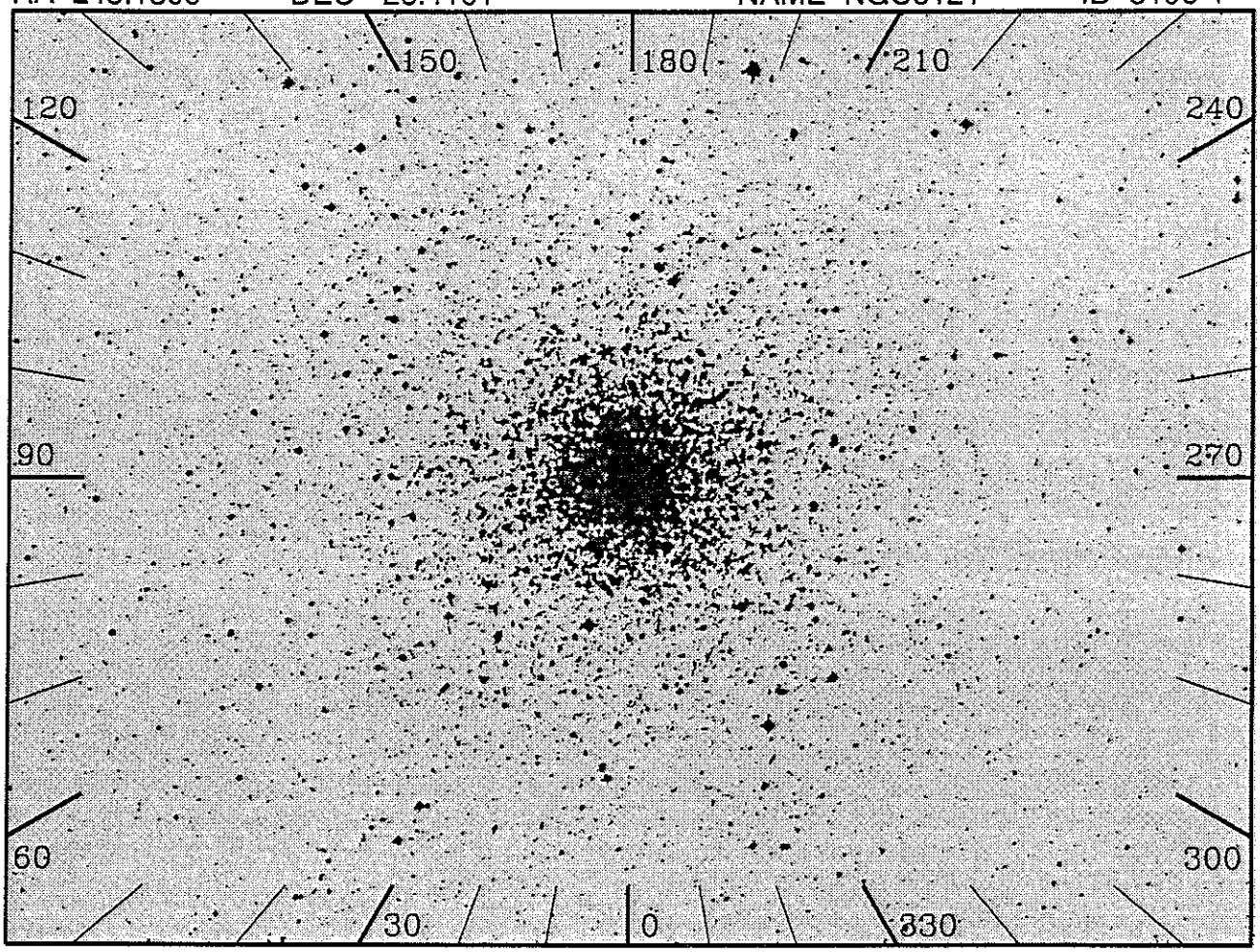
20", 1000(s), Day



ID: 5195-1 U=Prime SciPgm= U05
Names: NGC6218 M12
HUT=UVBSIV-1-10
Info: V=14.69 Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar Target=UVBSIV-1-10, B-V=.04.
Co-pointing with HUT.
IUE data used for simulated spectrum is
that of Omg-Cen (5116).

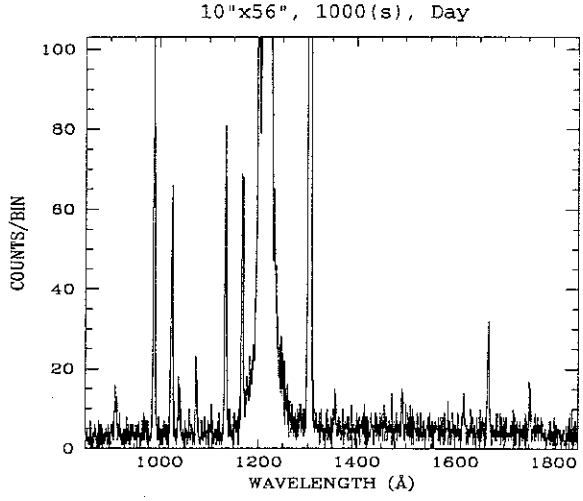


RA 245.1306 DEC -26.4101 NAME NGC6121 ID 5196-1

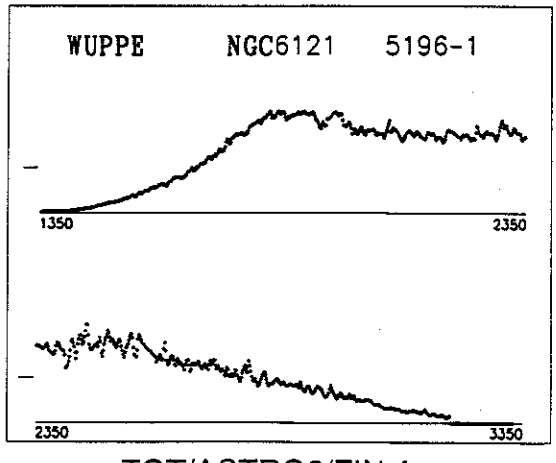


OBJECT: 5196 NGC6121
KEYWORDS: Globular Cluster
COMMENTS:
Place the 10"x56" slit on the cluster center.

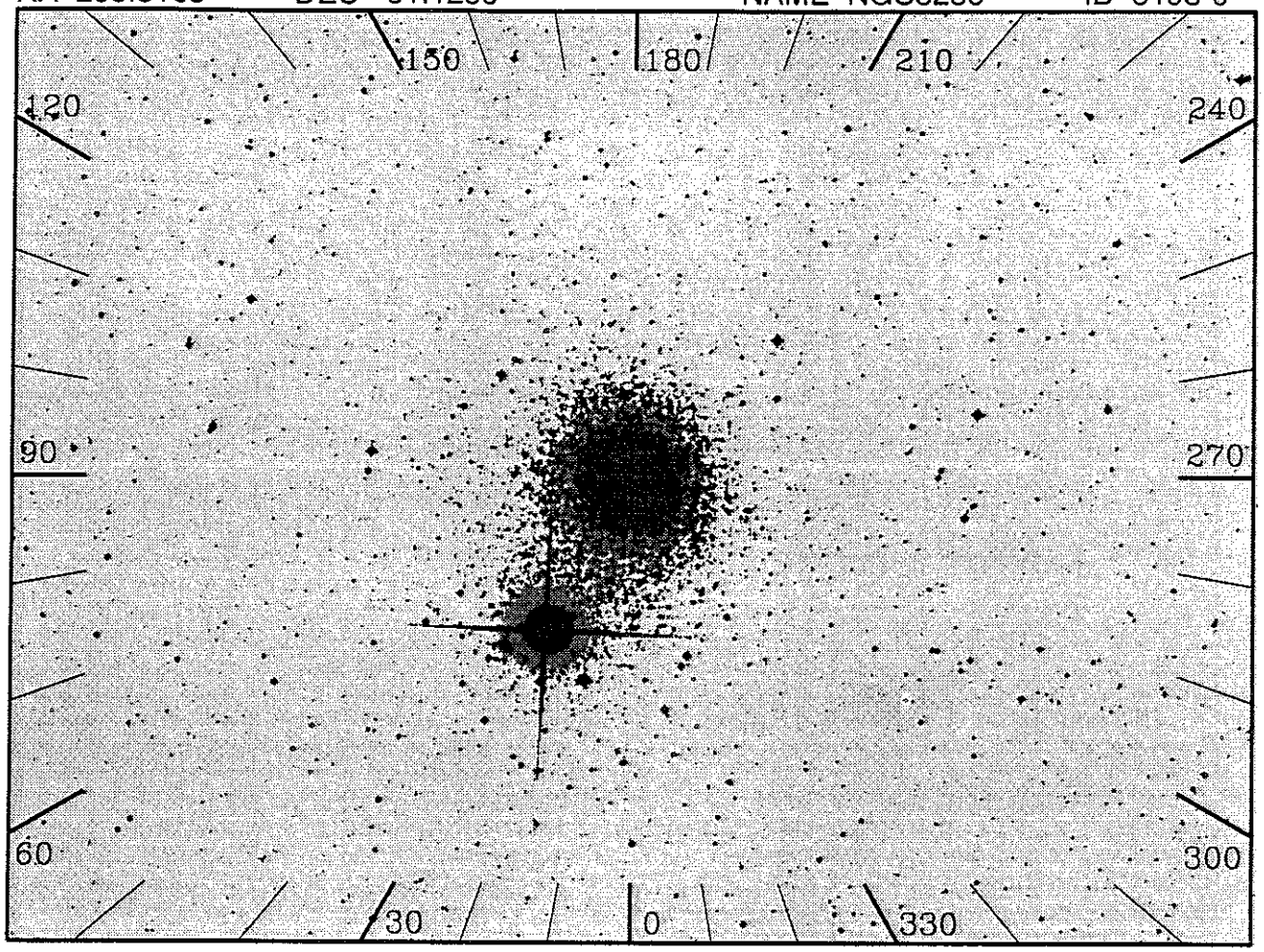
This cluster is quite faint.



ID: 5196-1 U=Prime SciPgm= U05
Names: NGC6121 M4
Info: V= Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Get integrated cluster spectrum. Co-pointing with HUT.
IUE data used for simulated spectrum is that of Omg-Cen (5116).

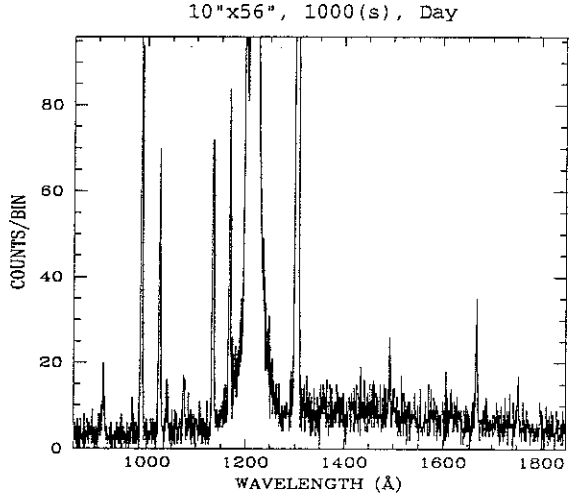


RA 205.8168 DEC -51.1236 NAME NGC5286 ID 5198-0

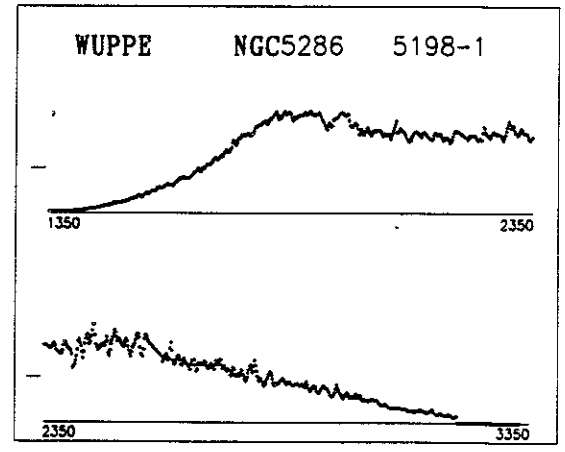


OBJECT: 5198 NGC5286
KEYWORDS: Globular Cluster
COMMENTS:
Place the 10"x56" slit on the cluster center.

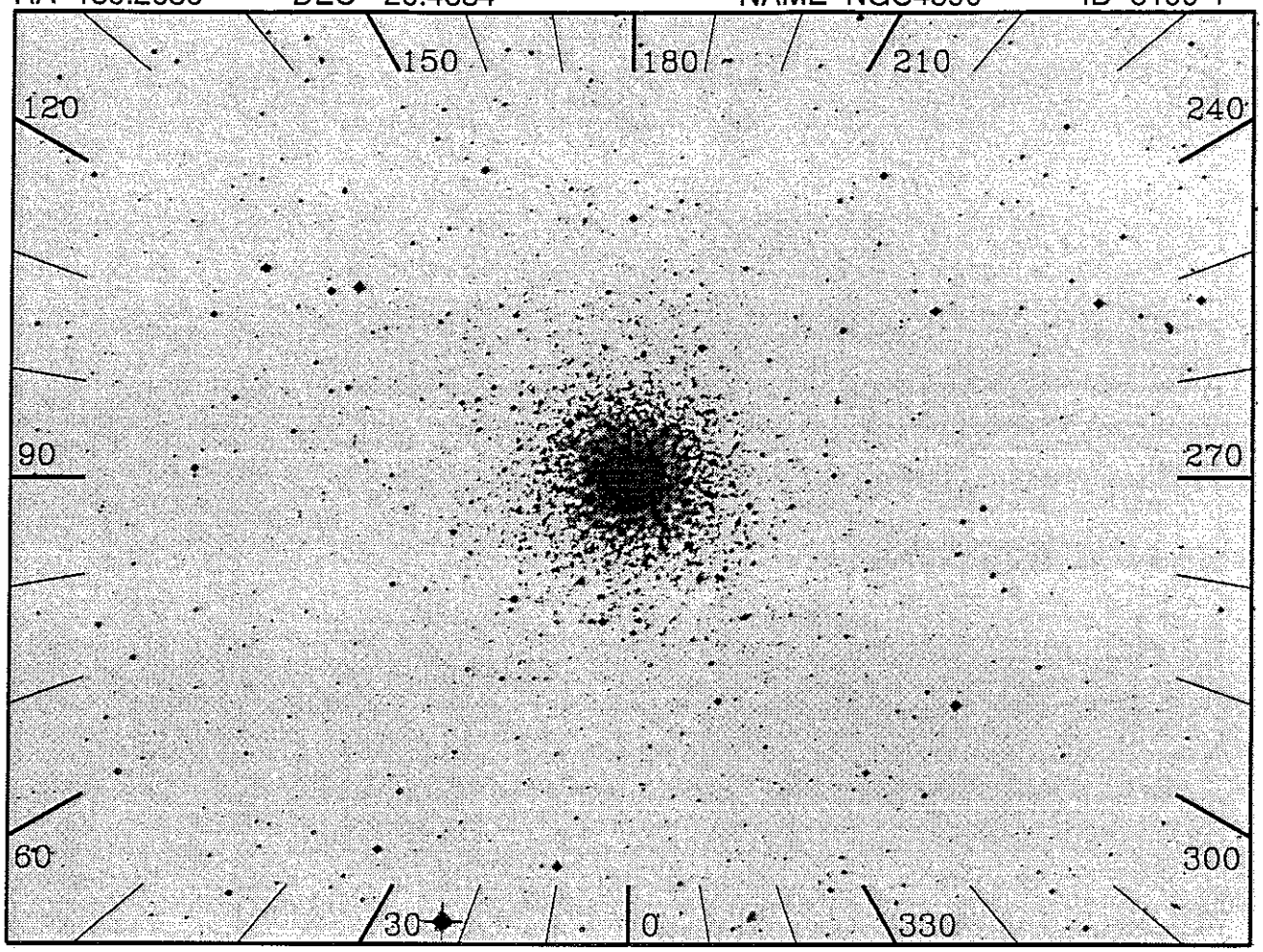
There is a 5th magnitude star in the TV camera field of view. Use it as a guide star.



ID: 5198-1 U=Prime SciPgm= U05
Names: NGC5286
Info: V= Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Integrated cluster spectrum. IUE data used for simulated spectrum is that of Omg-Cen (5116).



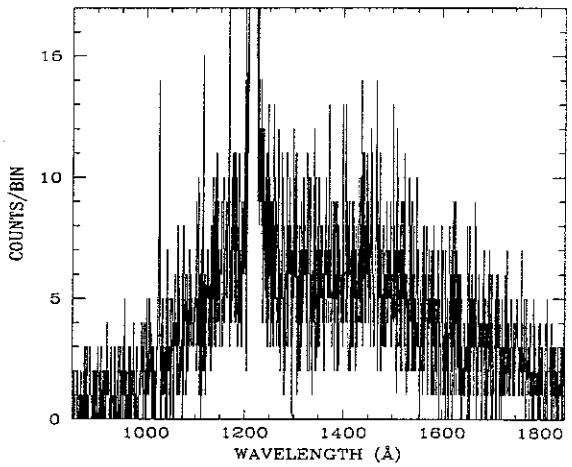
RA 189.2030 DEC -26.4684 NAME NGC4590 ID 5199-1



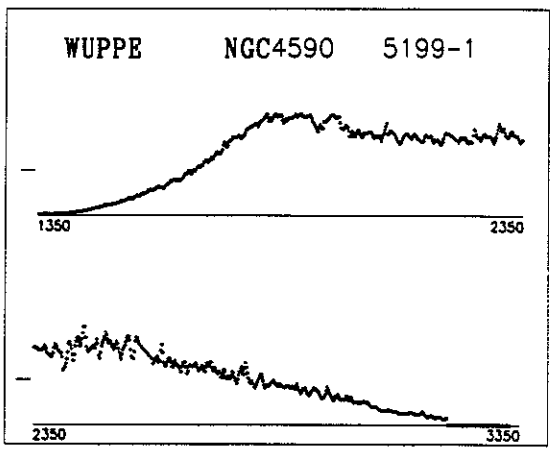
10"x56", 1000(s), Night

OBJECT: 5199 NGC4590
KEYWORDS: Globular Cluster
COMMENTS:
Place the 10"x56" slit on the cluster center.

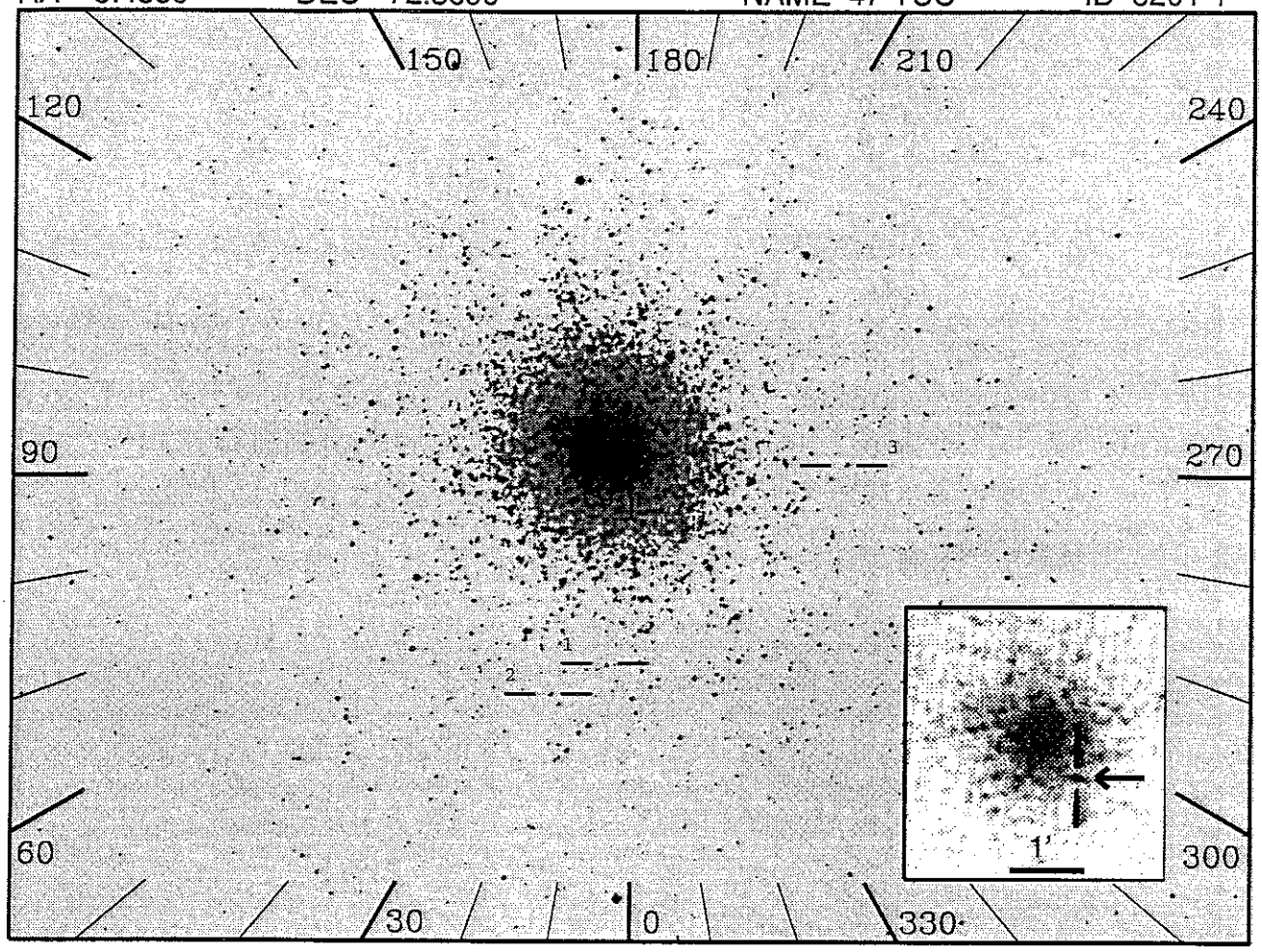
This guy is faint.



ID: 5199-1 U=Prime SciPgm= U05
Names: NGC4590 M68
Info: A V= Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Get integrated cluster spectrum. Co-pointing with HUT.
IUE data used for simulated spectrum is that of Omg-Cen (5116).

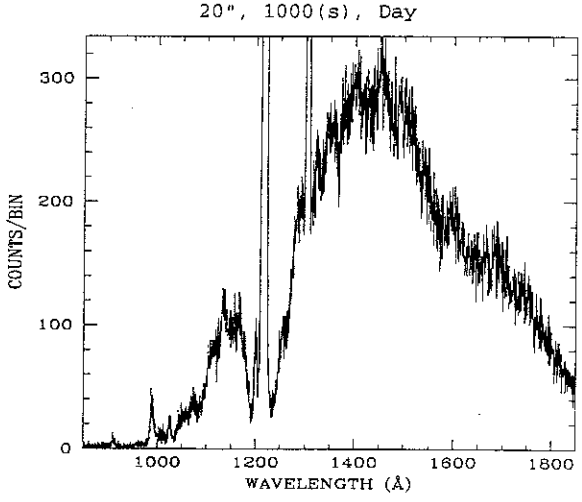


RA 5.4359 DEC -72.3690 NAME 47-TUC ID 5201-1

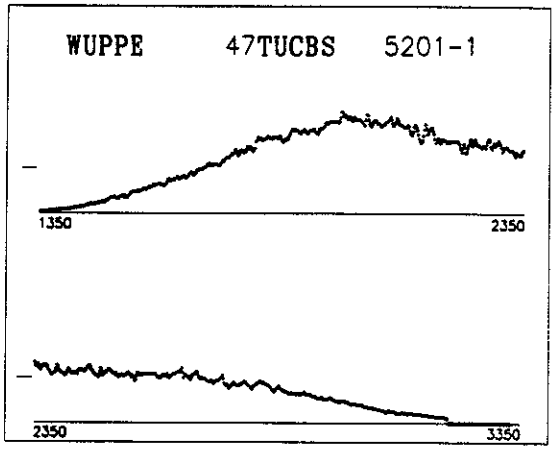


OBJECT: 5201 47-TUC
KEYWORDS: UV-Bright Stars in Globular Clusters
COMMENTS:
We will observe the UV-bright star BS.

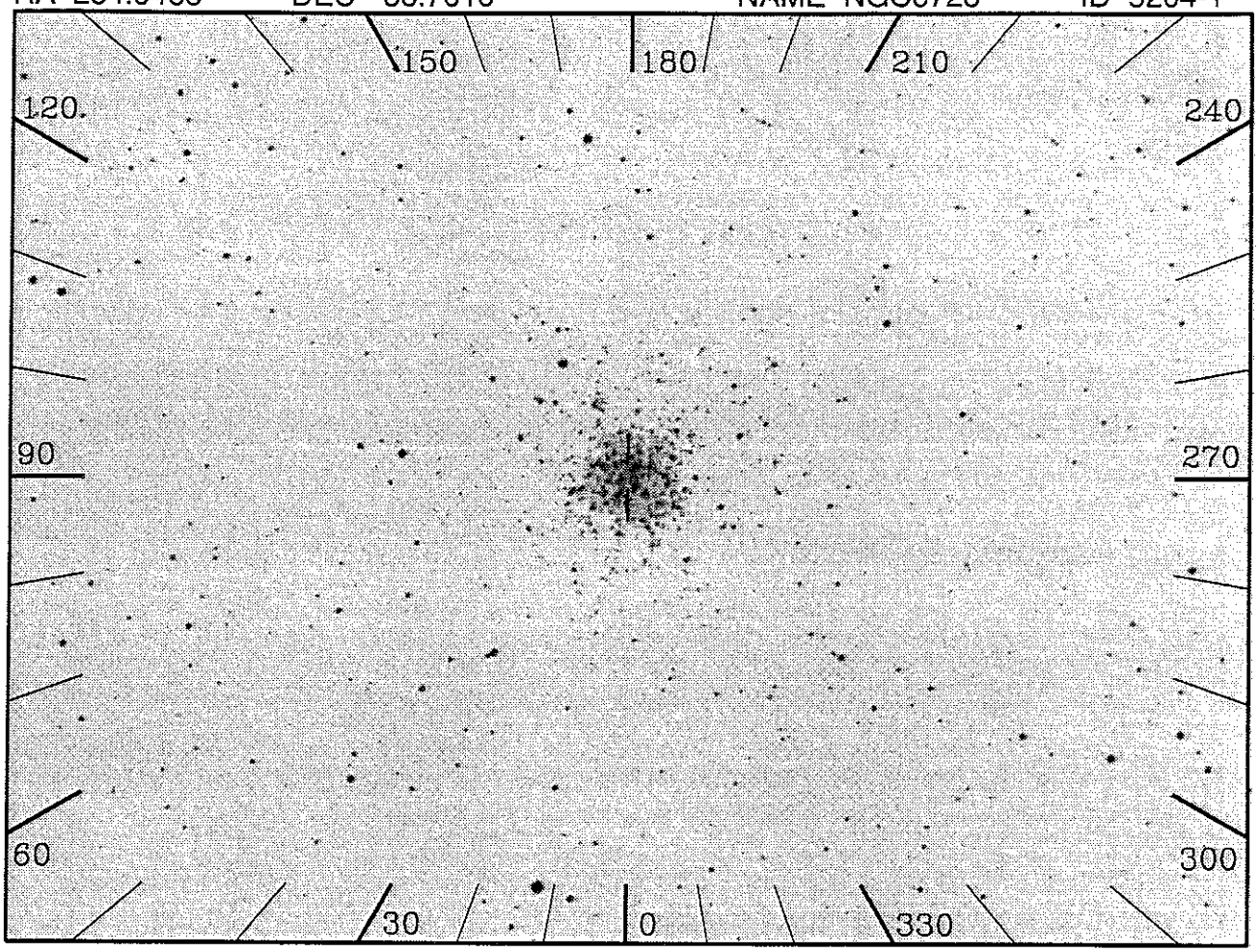
The star is 41" S and 35" W of the cluster center.
It is the brightest star in the cluster.



ID: 5201-1 U=Prime SciPgm= U05
Names: 47-TUC NGC0104
HUT=47Tuc BS
Info: B8-9 V= 10.7 Wupmag=11.0
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar target: BS, B-V=-.1. Has companions at 4" and 5". Probe to interstellar dust. BS is a UV-bright star. Co-pointing with HUT. IUE data used for simulated spectrum is that of M67_F81 (5311).

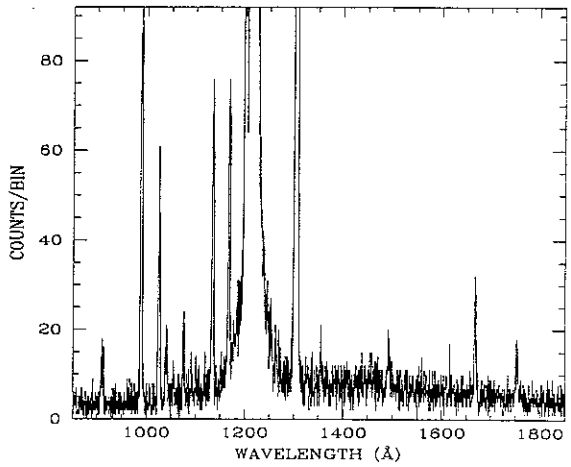


RA 284.0466 DEC -36.7010 NAME NGC6723 ID 5204-1

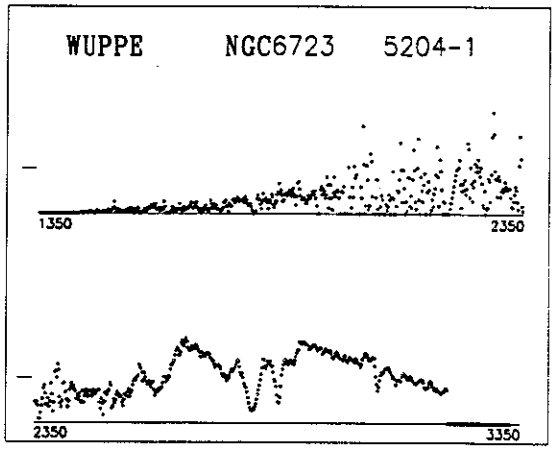


10"x56", 1000(s), Day

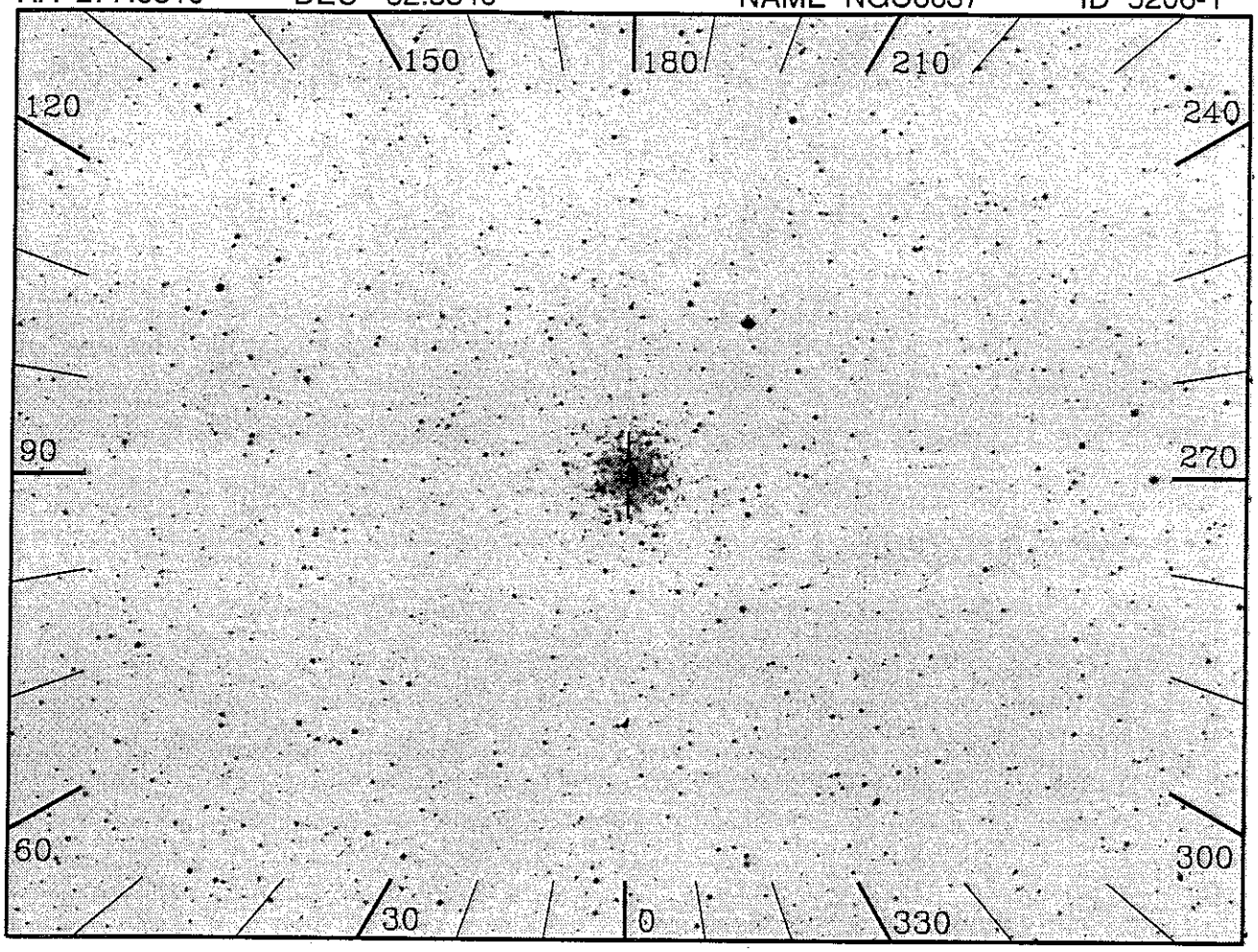
OBJECT: 5204 NGC6723
KEYWORDS: Globular Cluster
COMMENTS:
Place the 10"x56" slit on the cluster center.



ID: 5204-1 U=Prime SciPgm= U05
Names: NGC6723
Info: V= Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Integrated cluster spectrum. IUE data used for simulated spectrum is that of NGC6637 (5206).

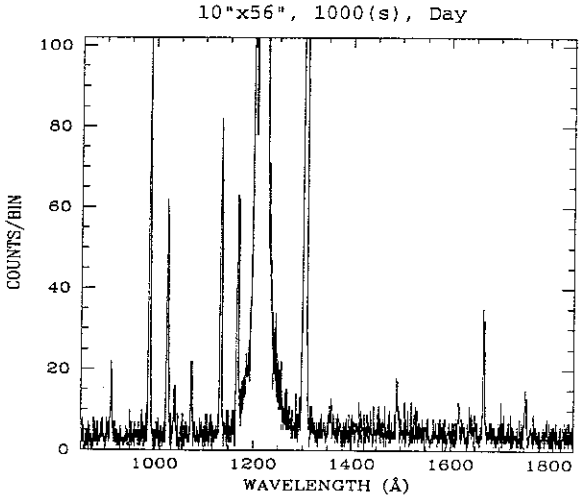


RA 277.0310 DEC -32.3840 NAME NGC6637 ID 5206-1

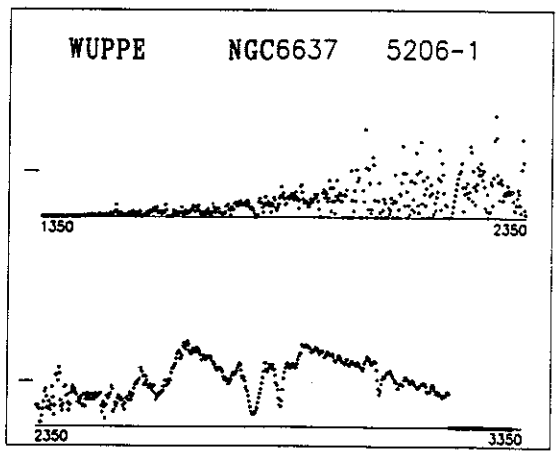


OBJECT: 5206 NGC6637
KEYWORDS: Globular Cluster
COMMENTS:
Place the 10"x56" slit on the cluster center.

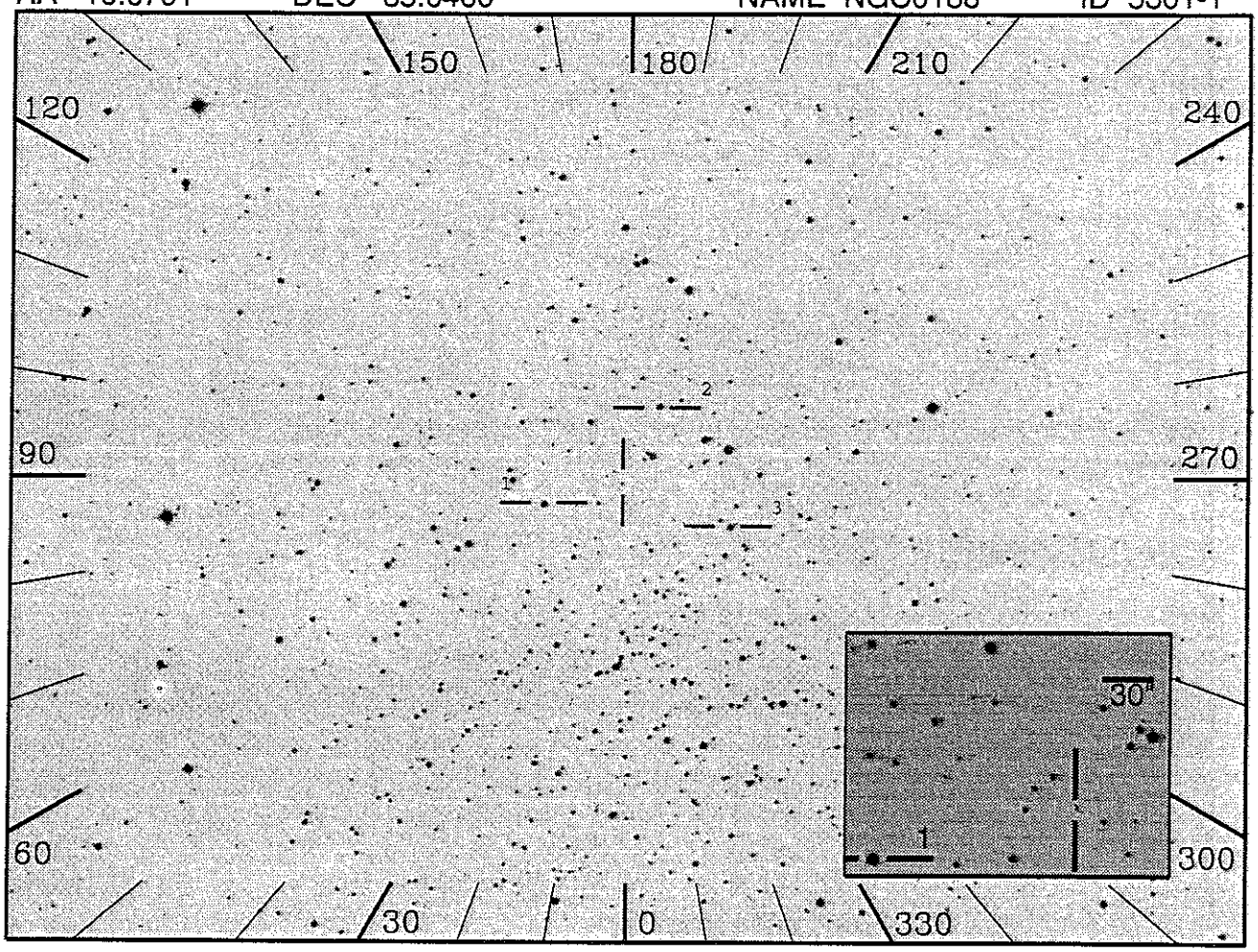
This cluster has a red horizontal branch, so may not produce much far-UV flux.



ID: 5206-1 U=Prime SciPgm= U05
Names: NGC6637 M69
Info: V= Wupmag=13.5
% Pol:
Pos Ang:
Mechanism:
Comments:
Integrated cluster spectrum.

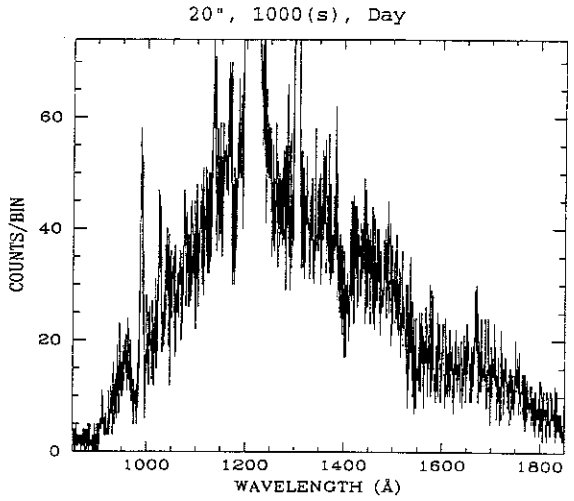


RA 10.6791 DEC 85.0460 NAME NGC0188 ID 5301-1

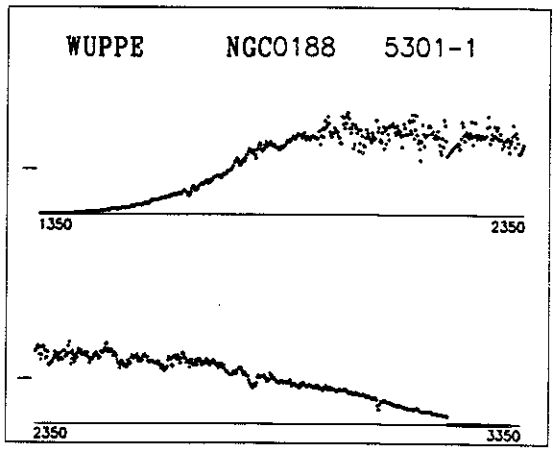


OBJECT: 5301 NGC0188
KEYWORDS: Open Cluster
COMMENTS:
We will observe the sdB star II-91.

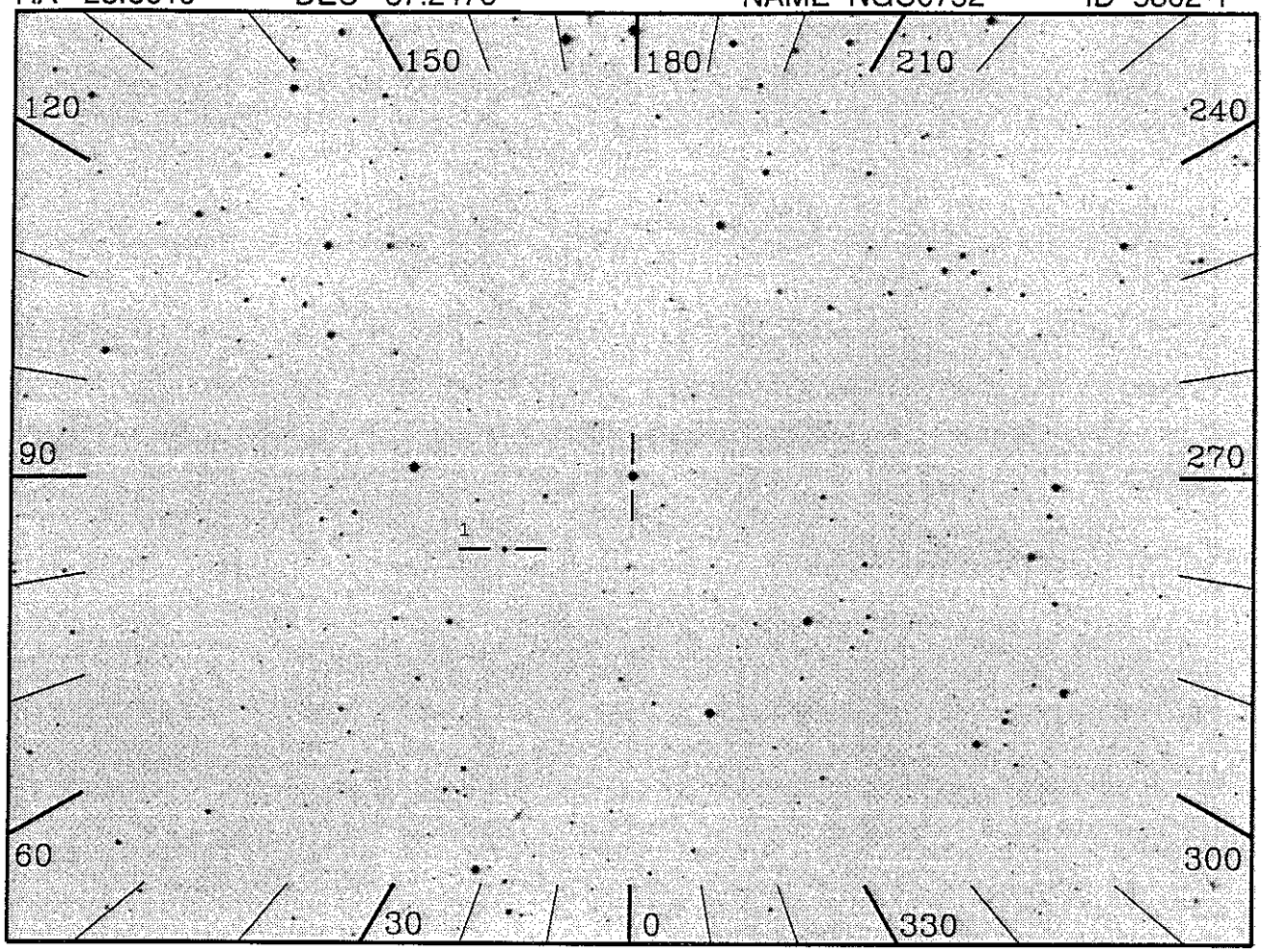
Star is optically faint (V = 16.3), but quite blue.



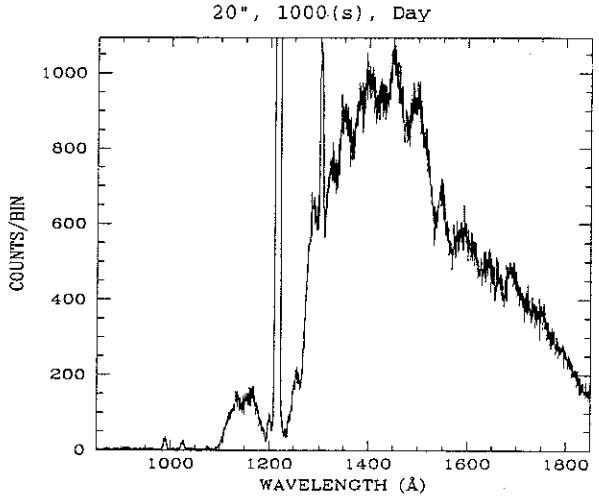
ID: 5301-1 U=Prime SciPgm= U04
Names: NGC0188
HUT=II-91
Info: sdB V=16.3 Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar Target is II-91, sdB. Co-pointing with HUT.
IUE data used for simulated spectrum of NGC0188 is that of NGC752 (5304).



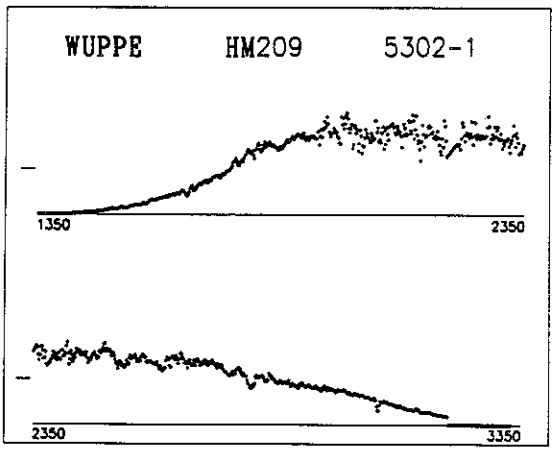
RA 28.6619 DEC 37.2476 NAME NGC0752 ID 5302-1



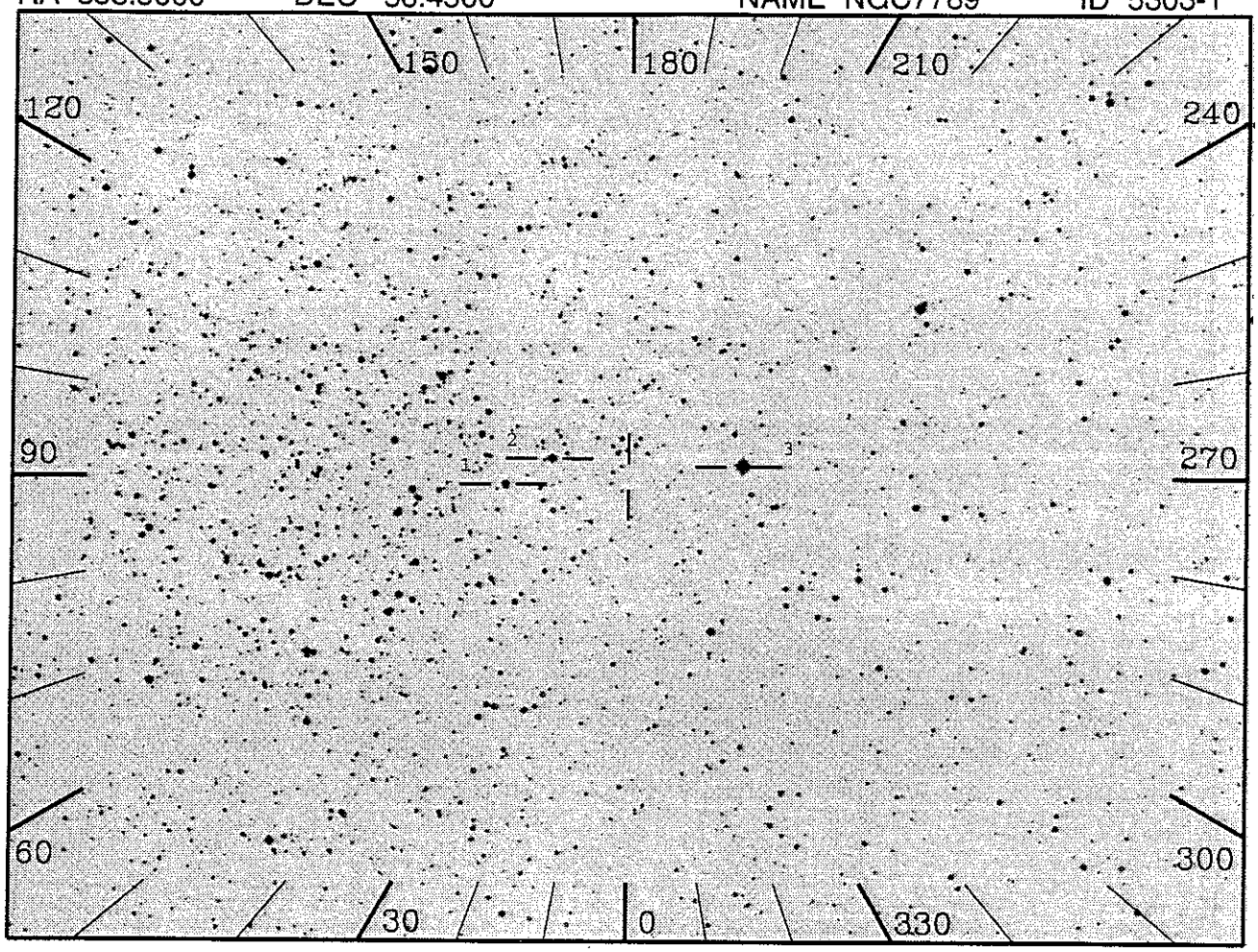
OBJECT: 5302 NGC0752
KEYWORDS: Open Cluster
COMMENTS:
Star is blue straggler HM 209.



ID: 5302-1 U=Prime SciPgm= U04
Names: NGC0752
HUT=HM209
Info: A0III V= 9.7 Wupmag=9.15
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar Target=BD+36367=PPM66805=HM209, A0III, B-V=.061. Brightest star in the cluster. Co-pointing with HUT.



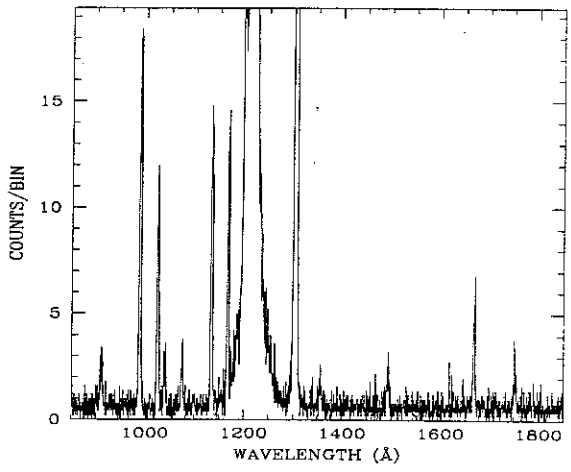
RA 358.5000 DEC 56.4500 NAME NGC7789 ID 5303-1



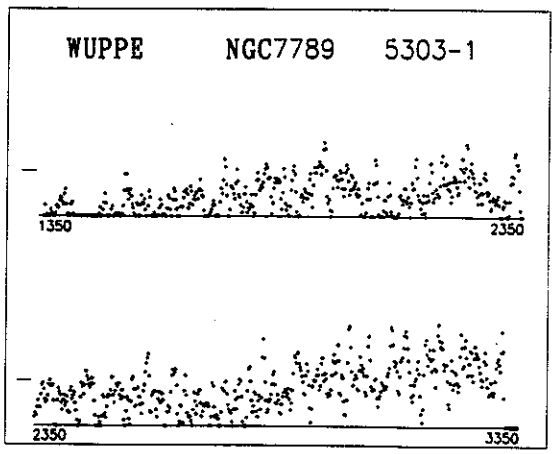
OBJECT: 5303 NGC7789
KEYWORDS: Open Cluster
COMMENTS:
This is an airglow pointing; there is no star at the specified coordinates.

The HUT mirror will move 10" to the W once the BEGIN command is issued.

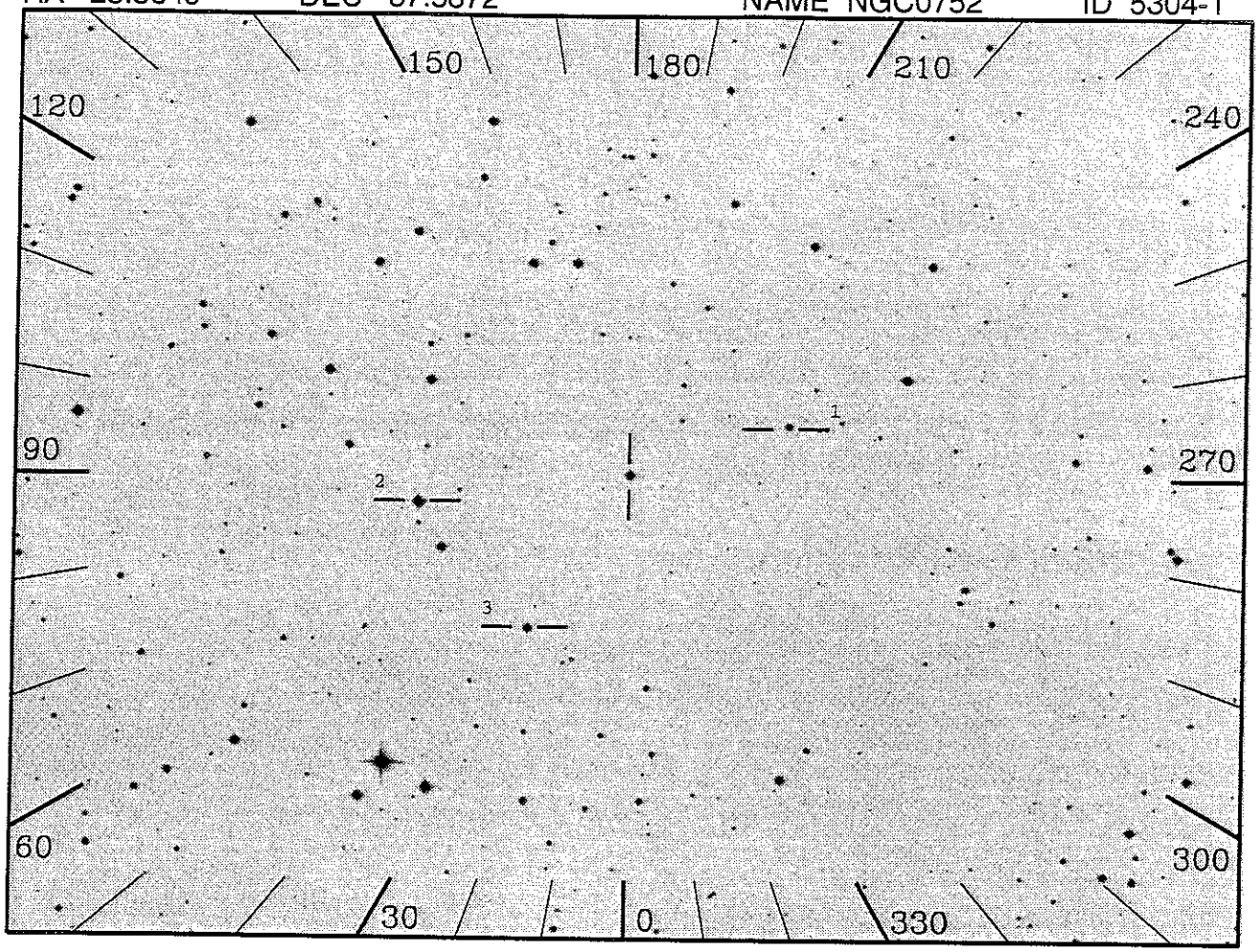
12", 1000(s), Day



ID: 5303-1 U=Prime SciPgm= U05
Names: NGC7789
Info: V= Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Astro-1 data used for simulated spectrum is that of A665 (9319) (blank sky).



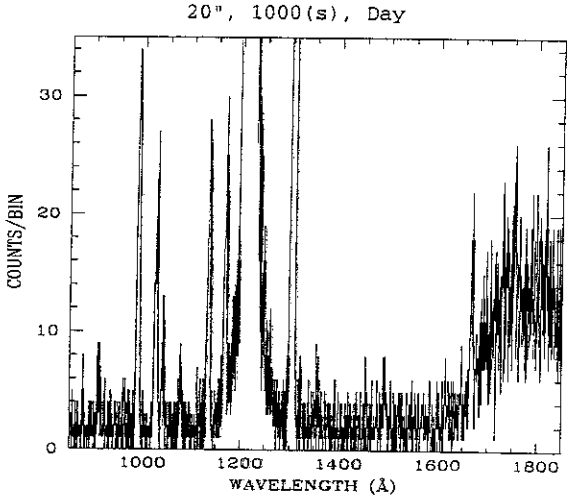
RA 28.5649 DEC 37.5372 NAME NGC0752 ID 5304-1



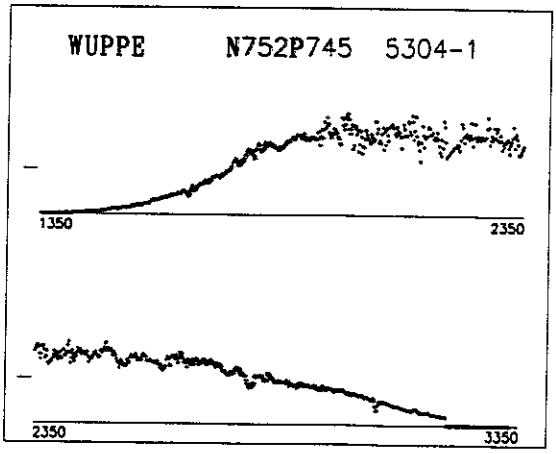
OBJECT: 5304 NGC0752 NORTH
KEYWORDS: Open Cluster
COMMENTS:
This star is P745.

The star is bright and should be easy to see. Unfortunately, it's too red to be useful, so this is an airglow pointing.

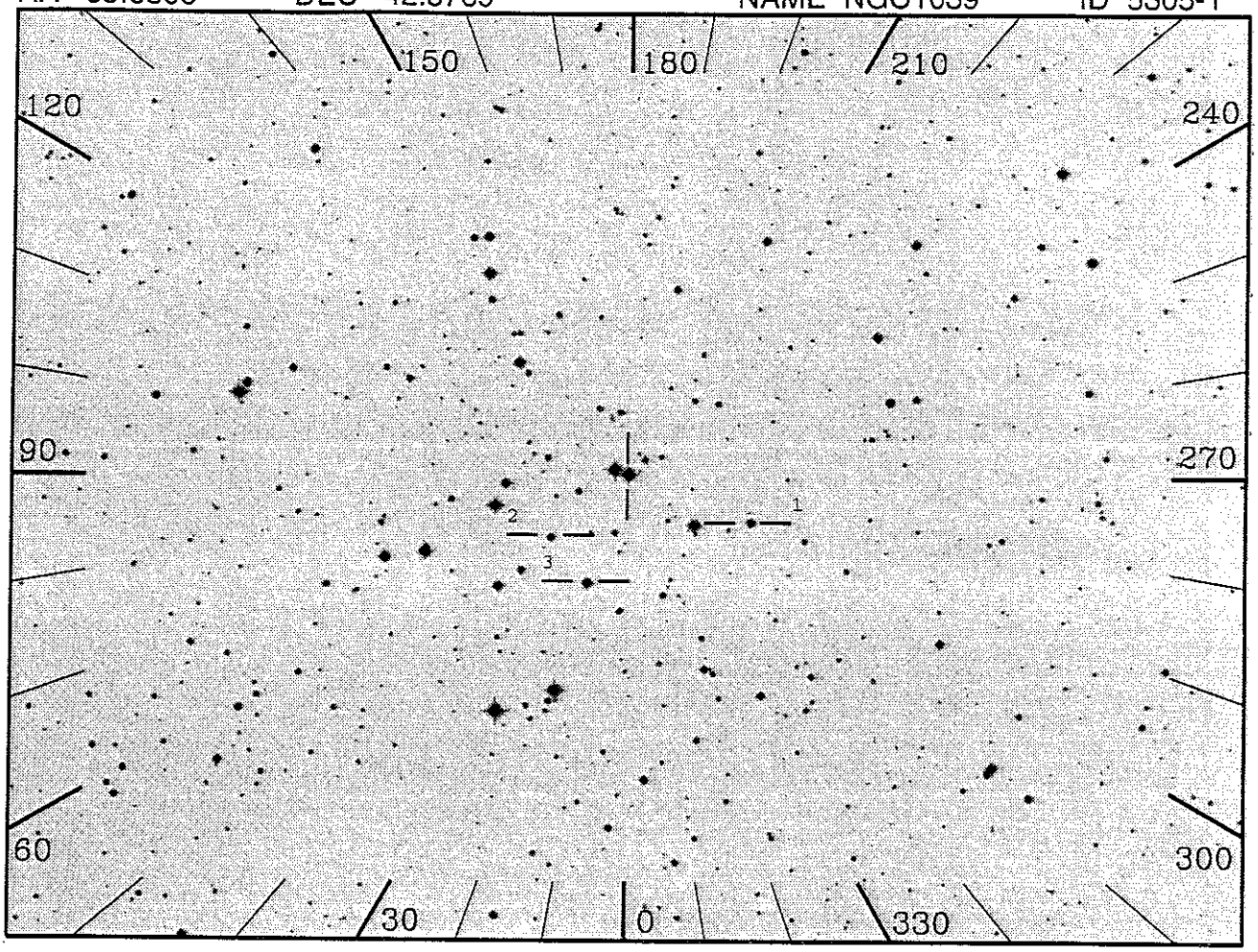
HUT mirror will move 20" in the -Z direction once the BEGIN command is issued.



ID: 5304-1 U=Prime SciPgm= U05
Names: NGC0752 NORTH
HUT=P745
Info: F0III V=9.87 Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar target=BD+37426=P745.
B-V=.40. Co-pointing with HUT.

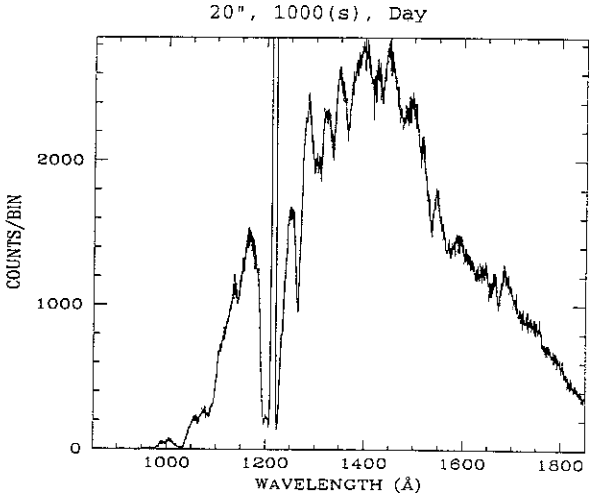


RA 39.6806 DEC 42.5769 NAME NGC1039 ID 5305-1

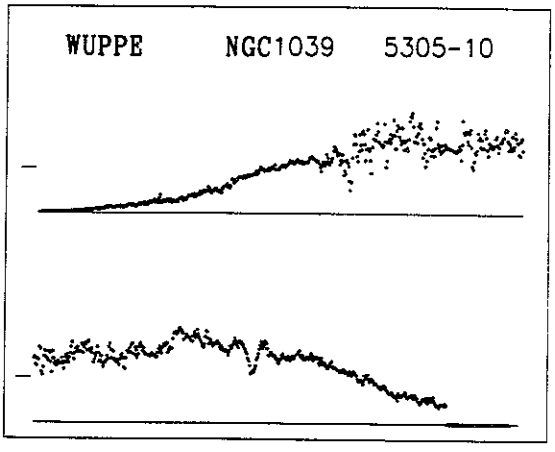


OBJECT: 5305 NGC1039
KEYWORDS: Open Cluster
COMMENTS:
We will observe the Hg-Mn star HD16693.

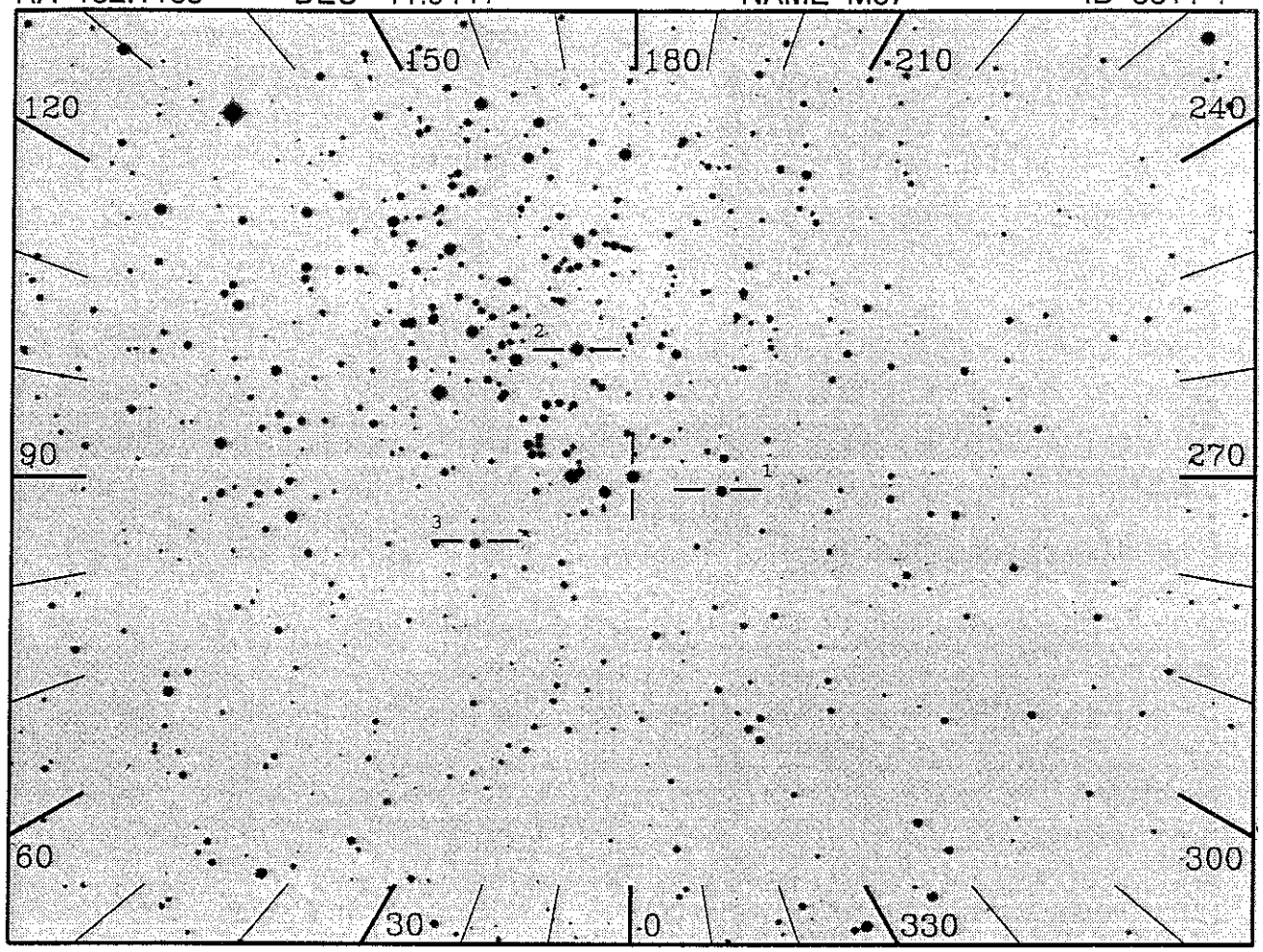
This is a half-aperture observation. If the count rate is not too high, open both doors.



ID: 5305-1 U=Prime SciPgm= U05
Names: NGC1039 M34
HUT=HD16693
Info: B9Vp V= 8.52 Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar target is HD16693. B-V=.00, U-B=-.30. Co-pointing with HUT.
IUE data used for simulated spectrum is that of 28-Tau (2236).

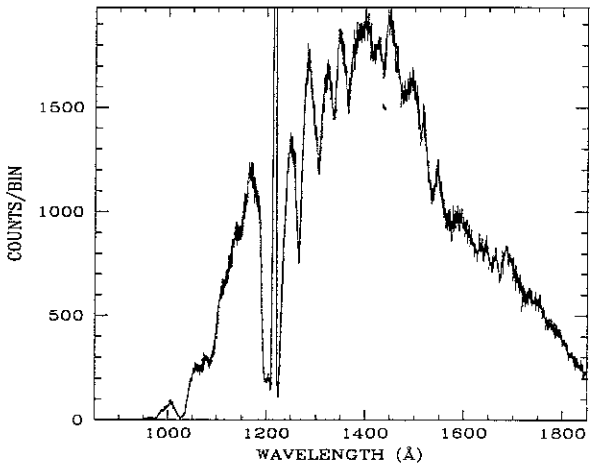


RA 132.1155 DEC 11.9441 NAME M67 ID 5311-1

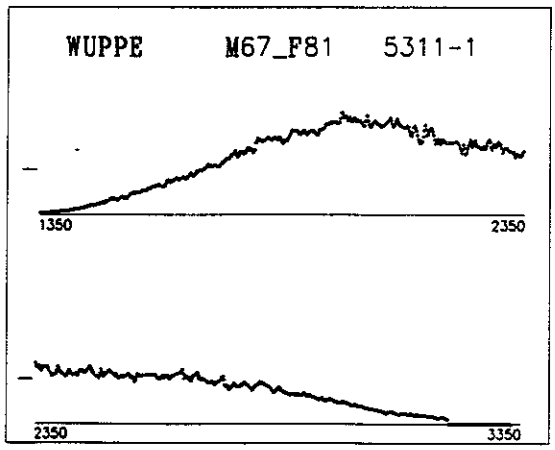


OBJECT: 5311 M67
KEYWORDS: Open Cluster
COMMENTS:
We will observe the blue straggler F81.

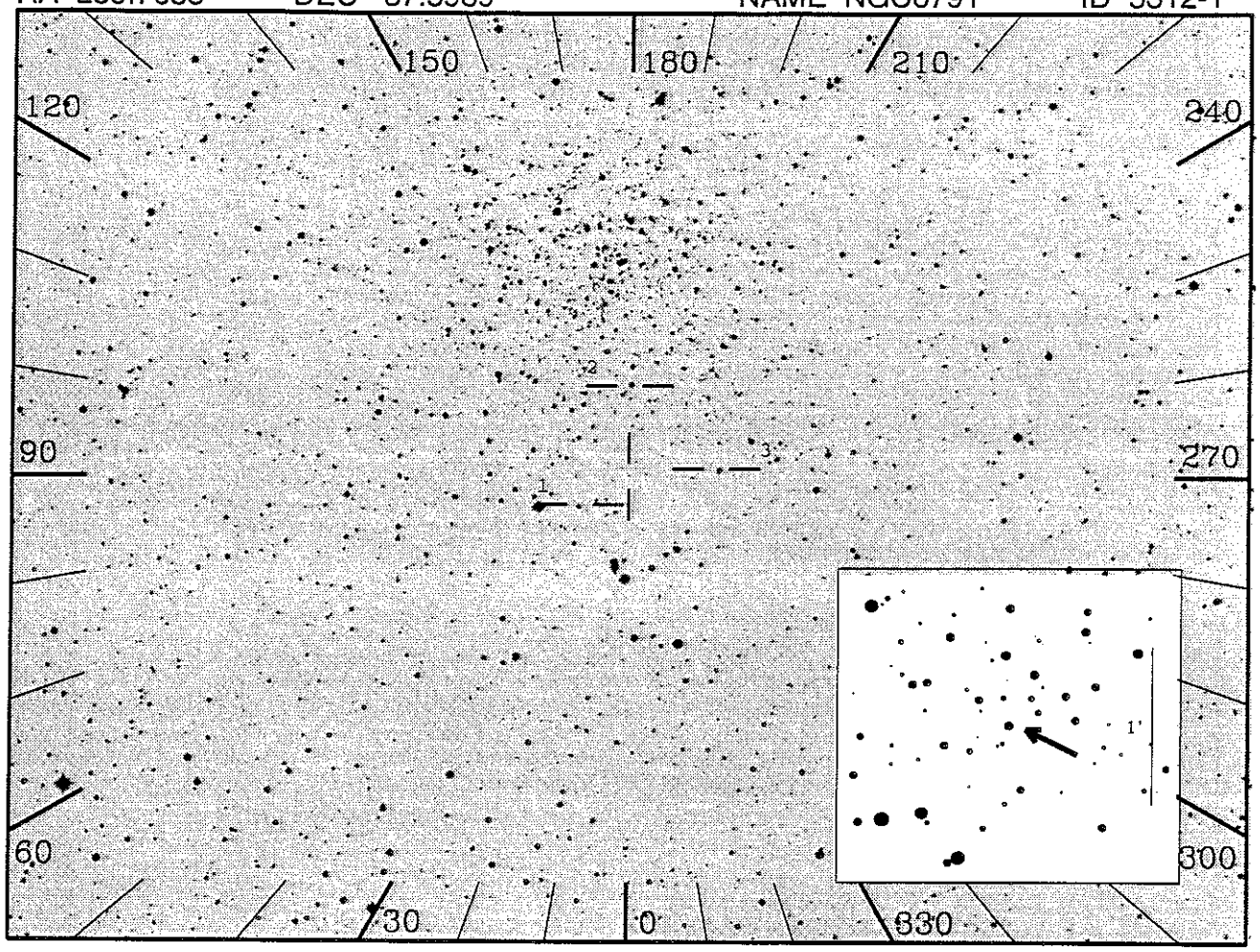
20", 1000(s), Night



ID: 5311-1 U=Prime SciPgm= U04
Names: M67 NGC2682
HUT=M67-F81
Info: B8 V= 10.0 Wupmag=8.63
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar target is NGC2682-81 (F81).
V=10.03, B-V=-.073, E(B-V)=0.05.
M_type=B8V. Bluest star in cluster.
Co-pointing with HUT.



RA 289.7688 DEC 37.5989 NAME NGC6791 ID 5312-1

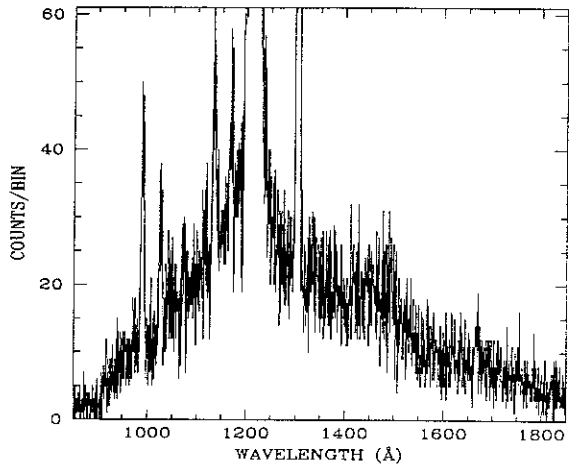


20", 1000(s), Day

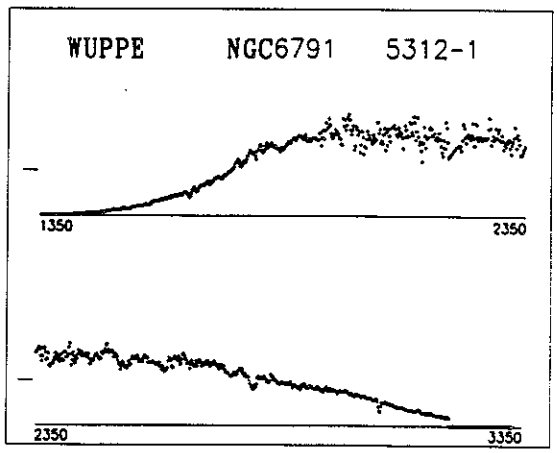
OBJECT: 5312 NGC6791
KEYWORDS: Open Cluster
COMMENTS:
We will observe the sdO star B2.

Star is quite faint (V = 17.5); must use guide-star locate.

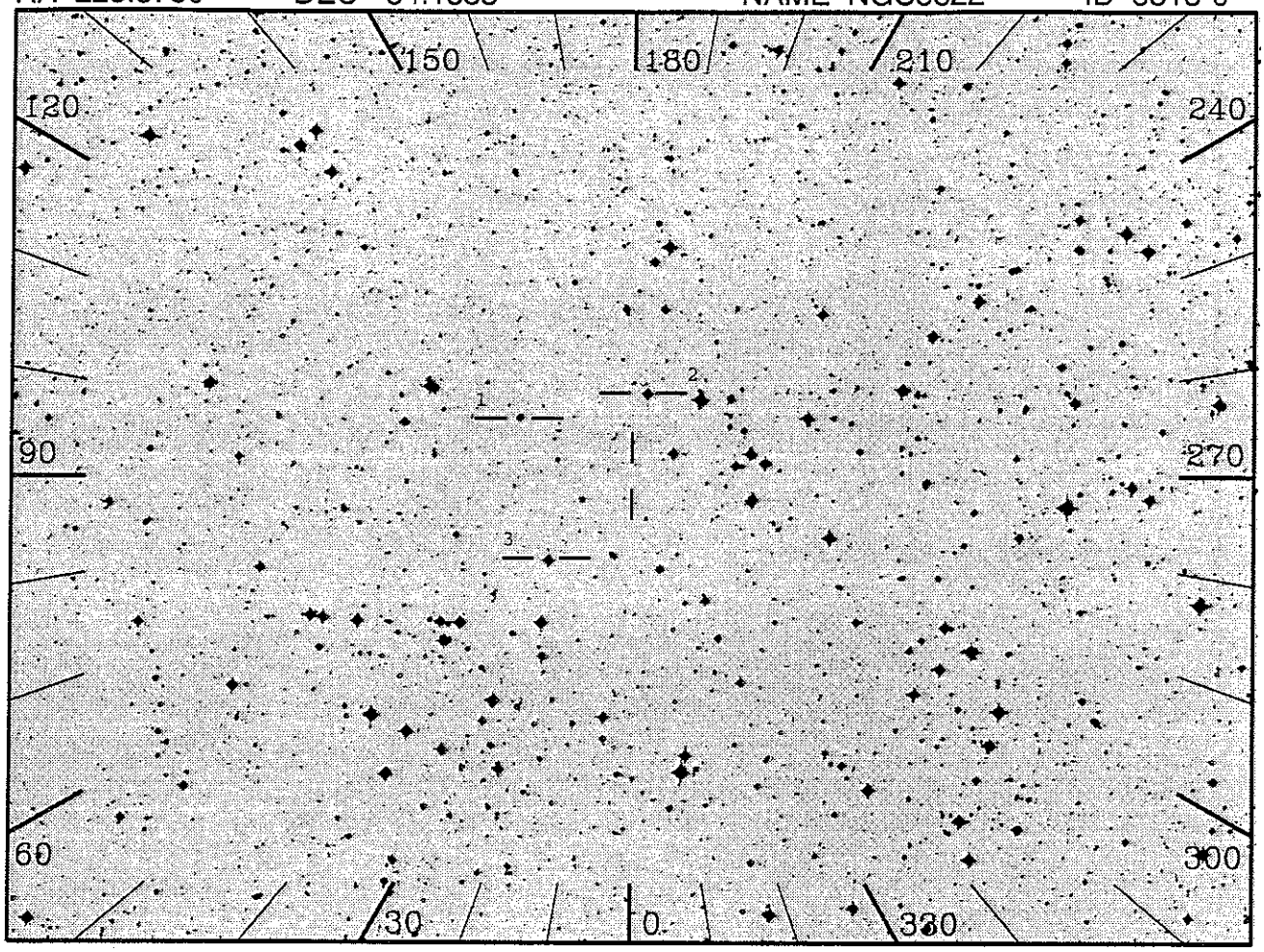
WARNING: Apparent bright star east of GS #1 is not present in more recent surveys, so may not appear in the HUT TV image. It may be a nova or a flaw in the STGSC plate.



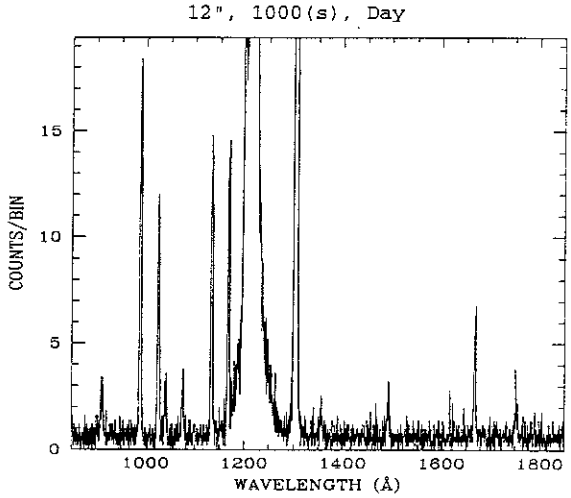
ID: 5312-1 U=Prime SciPgm= U04
Names: NGC6791
HUT=B2
Info: sdO V= 17.5 Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar target=B2, B=17.29. Star may be as hot as 60,000 K. Co-pointing with HUT.
IUE data used for simulated spectrum is that of NGC752 (5304).



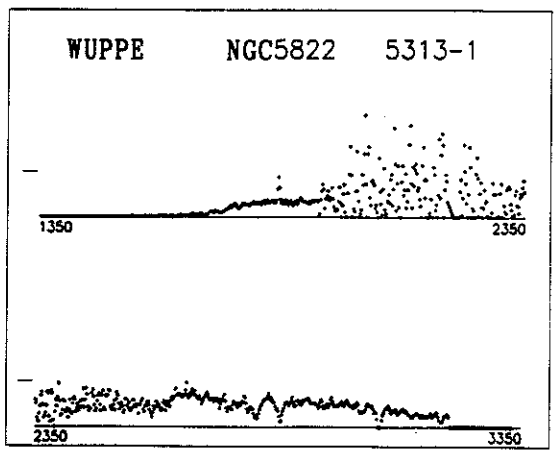
RA 225.3750 DEC -54.1333 NAME NGC5822 ID 5313-0



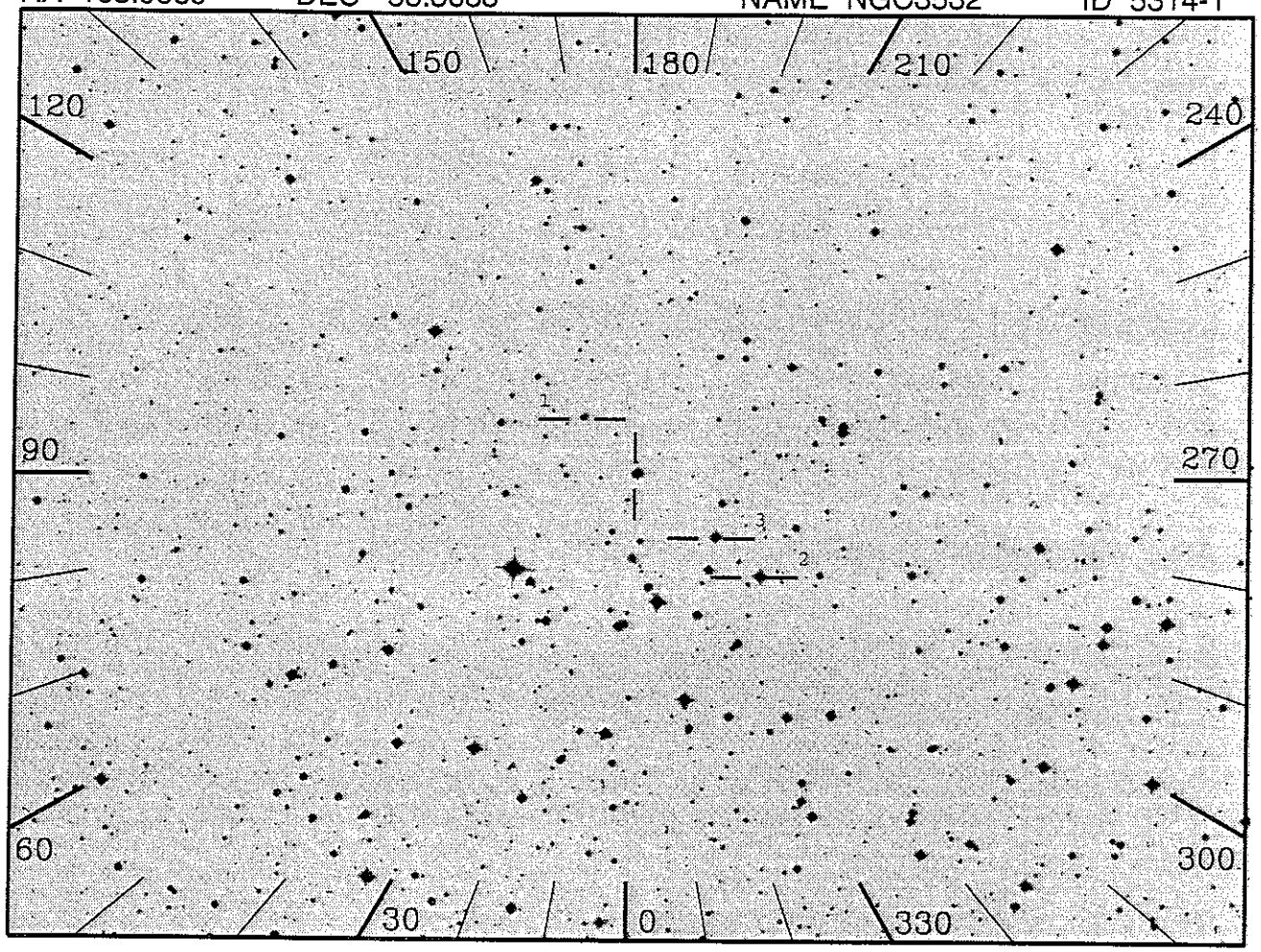
OBJECT: 5313 NGC5822
KEYWORDS: Open Cluster
COMMENTS:
This is an airglow pointing; there is no star at the specified coordinates.



ID: 5313-1 U=Prime SciPgm= U04
Names: NGC5822
Info: V= Wupmag=10.8
% Pol:
Pos Ang:
Mechanism:
Comments:

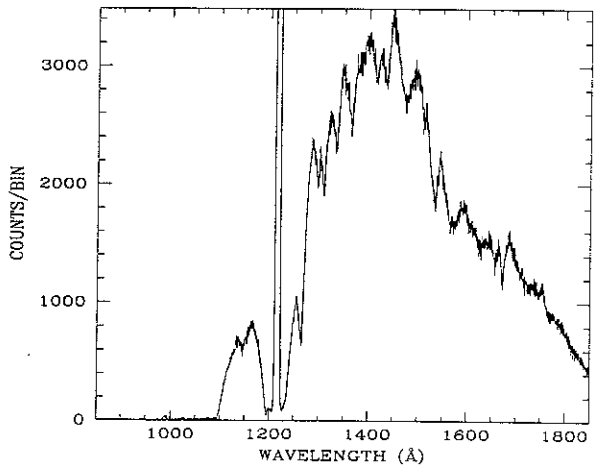


RA 165.9989 DEC -58.3683 NAME NGC3532 ID 5314-1

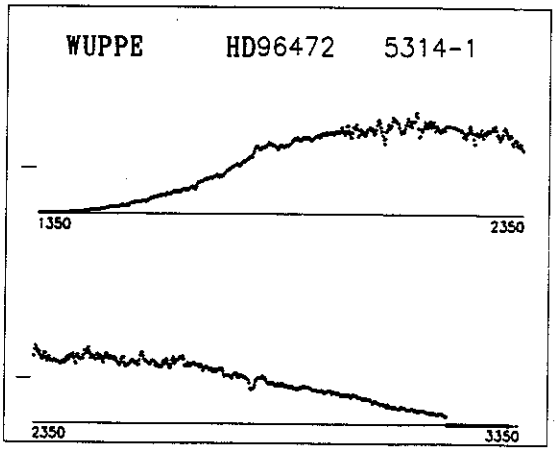


OBJECT: 5314 NGC3532
KEYWORDS: Open Cluster
COMMENTS:
We will observe the MS turn-off star HD96472.

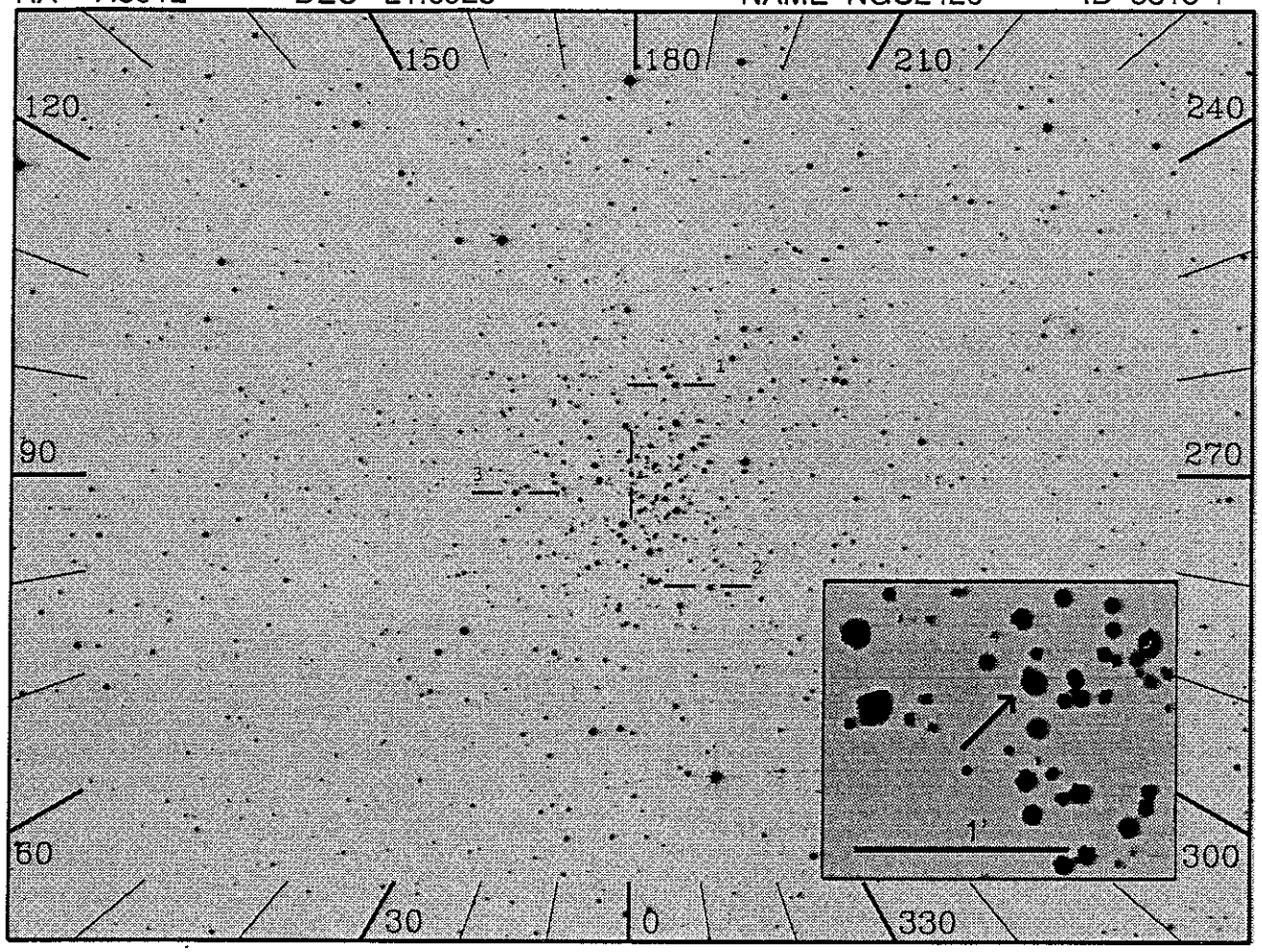
20", 1000(s), Day



ID: 5314-1 U=Prime SciPgm= U04
Names: NGC3532
HUT=HD96472
Info: A0IV V=8.58 Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar target is HD96472, B-V=.00,
U-B=-.05. Co-pointing with HUT.
IUE data used for simulated spectrum is
that of Del-Cyg (0603).



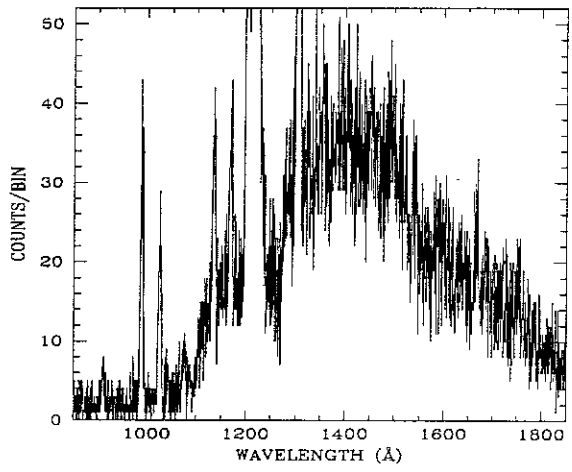
RA 7.5912 DEC 21.6923 NAME NGC2420 ID 5315-1



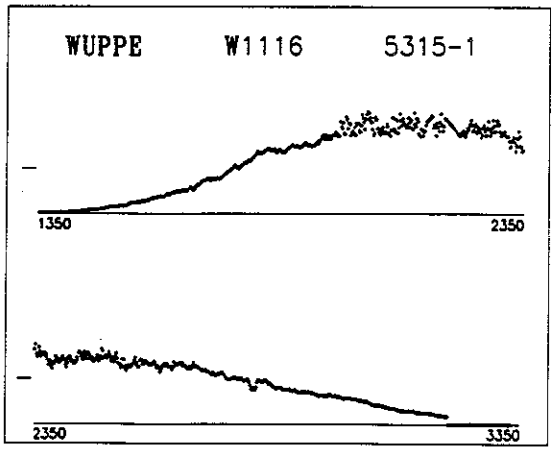
OBJECT: 5315 NGC2420
KEYWORDS: Open Cluster
COMMENTS:
We will observe the blue straggler W 1116.

The star is visible, but the field is crowded.

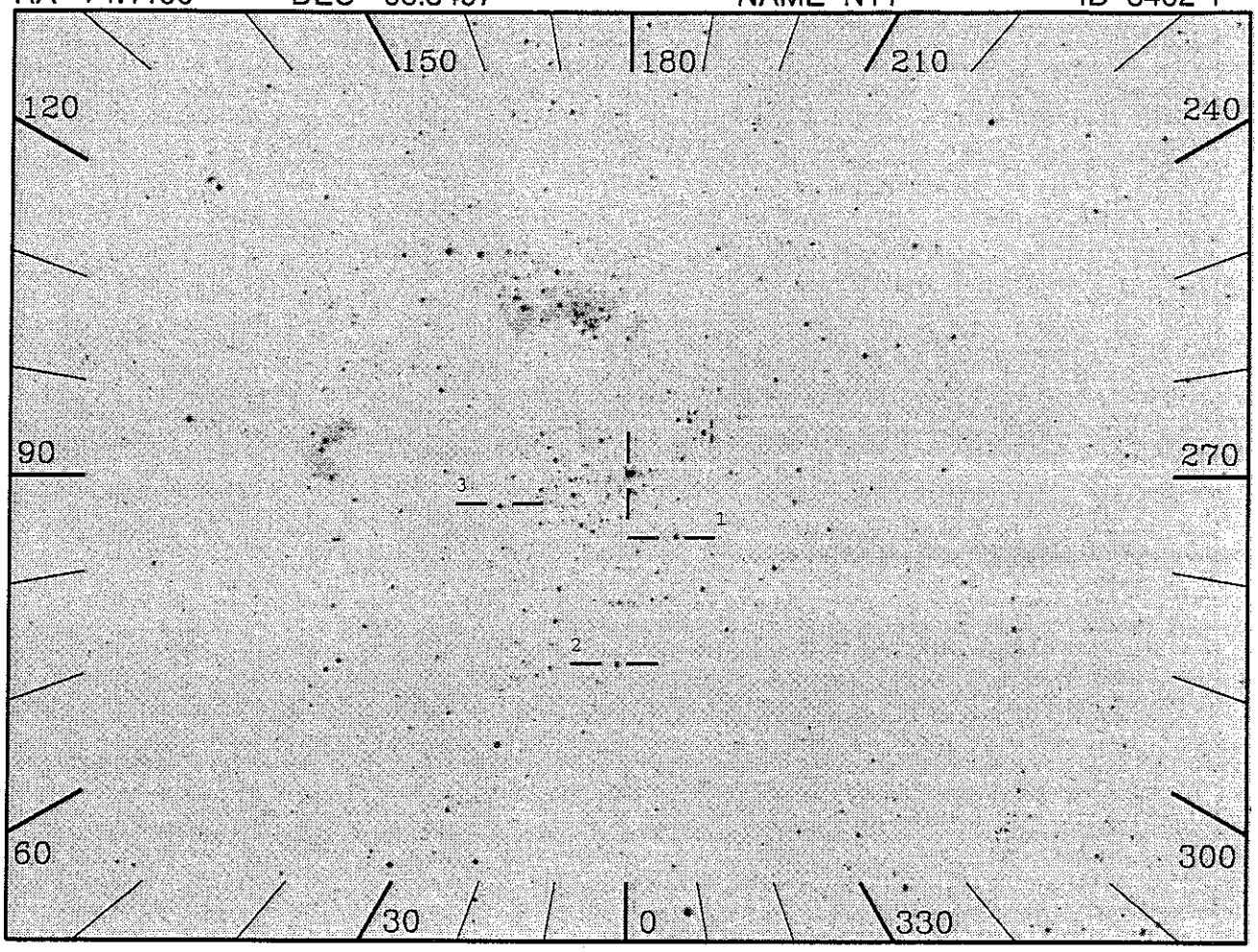
20", 1000(s), Day



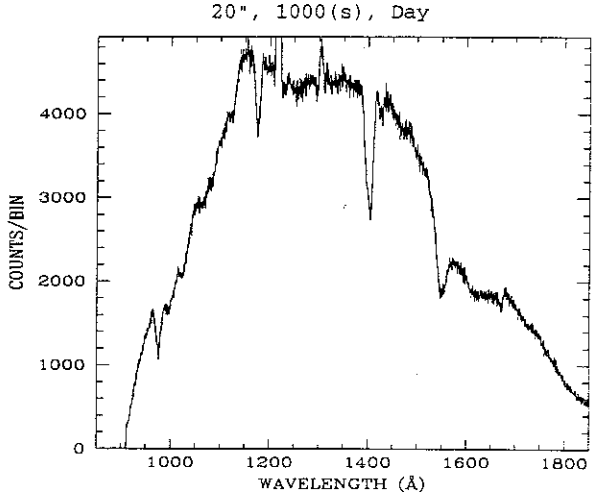
ID: 5315-1 U=Prime SciPgm= U05
Names: NGC2420
HUT=W1116
Info: ~B9V V=13.68 Wupmag=
% Pol:
Pos Ang:
Mechanism:
Comments:
B-V=-.00. Several companions within 15".
IUE data used for simulated spectrum is
that of Zet-Peg (0610).



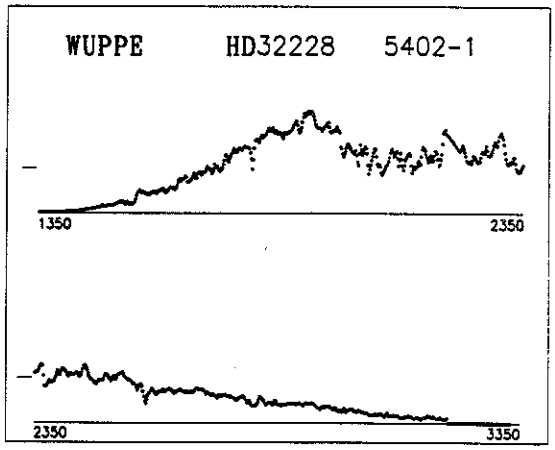
RA 74.1196 DEC -66.5497 NAME N11 ID 5402-1



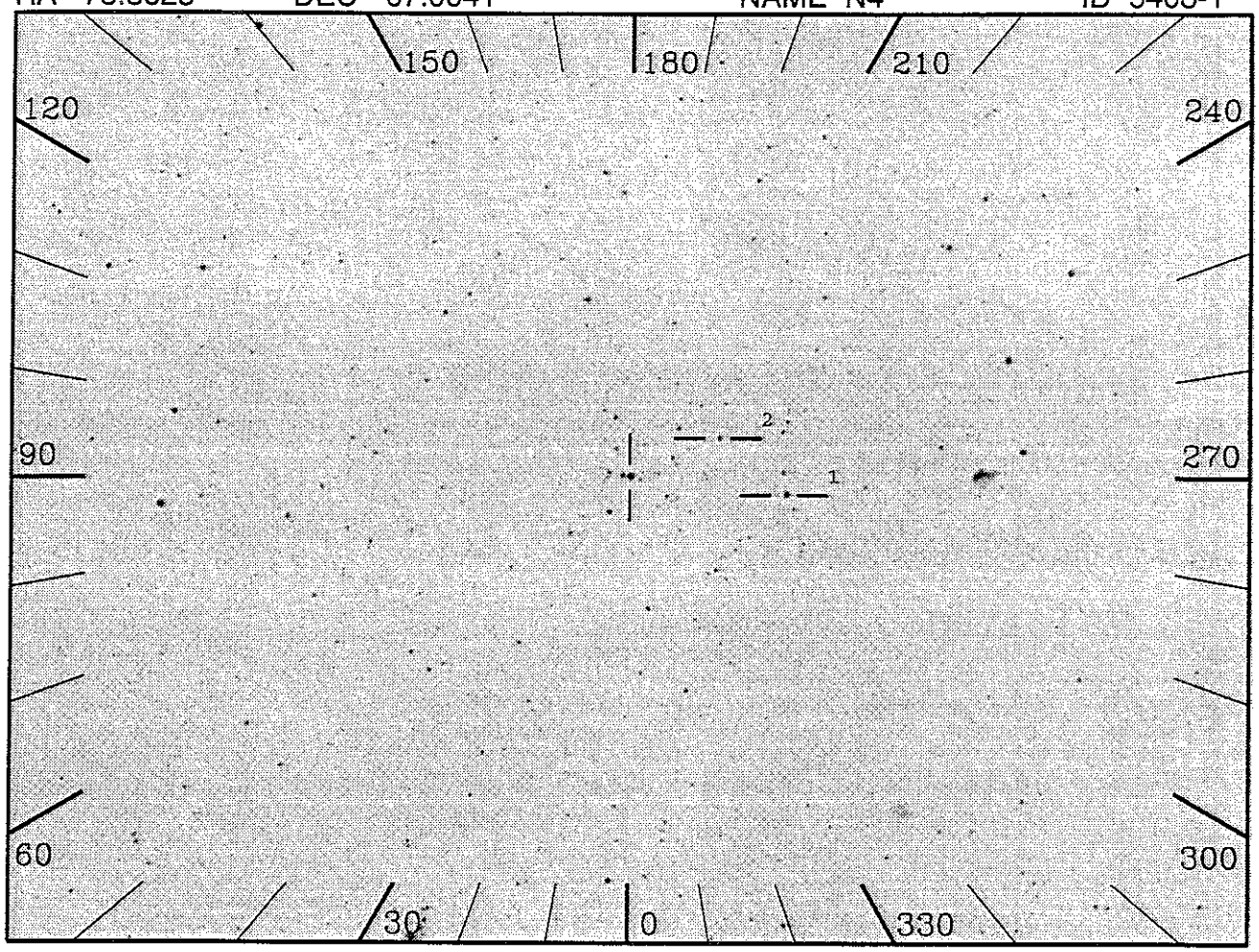
OBJECT: 5402 N11
KEYWORDS: LMC, Wolf-Rayet Star
COMMENTS:
N11 is a large star forming region in the LMC. The actual target is a star selected by WUPPE, HD 32228, which is a WC6+O8 binary with V=10.8. HUT Count rate is uncertain (no IUE flux available) and near the cutoff for full aperture, so assume half aperture to be safe. (Sim is for half aperture.)



ID: 5402-1 U=Prime SciPgm= U04
Names: N11 DEM34
HUT=HD32228
Info: O9.5III+WC5 V= 10.8 Wupmag=7.40
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar target is HD32228, O9.5III+WC5 (separated by less than 1"; O star is slightly brighter), B-V=-.15.
Co-pointing with HUT.

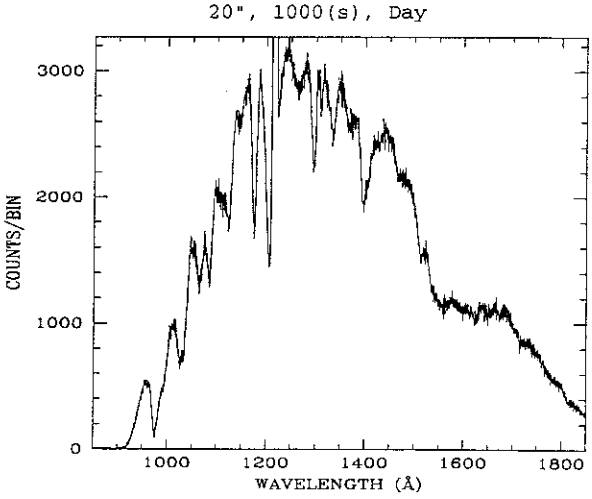


RA 73.3623 DEC -67.0041 NAME N4 ID 5403-1



OBJECT: 5403 N4
KEYWORDS: LMC, B star
COMMENTS:
N4 is an LMC star forming region. HUT has selected the star HD 268653, a B3 Iab star with V=10.7 to have something specific at which to point. The SIM uses a Kurucz model, but no IUE fluxes, so count rate is uncertain.

The target is the brighter of the two stars near the center of the photo.



ID: 5403-1 U=Prime SciPgm= U04
Names: N4 DEM12
HUT=HD268653=SK-665
Info: B3Iab V= 10.7 Wupmag=8.58
% Pol:
Pos Ang:
Mechanism:
Comments:
Stellar target is HD268653=SK-665. B-V=-.02, U-B=-.80. 12.4 mag companion at 2". Possible spoiler star east of target. Co-pointing with HUT.