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## **Project PHaEDRA - Annie Jump Cannon 15**

Extracted on Aug-29-2022 12:07:01

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[[preprinted]] 1 [[/preprinted]]

Sept. 6, 1905

Cont. of examination of C spectrum plates.

C 15849 DC 8358=H.P. 3166.

(1) A  
(2) DC 8380=H.P. 3180  
G5K

C 15850 DC 8944=H.P. 3455

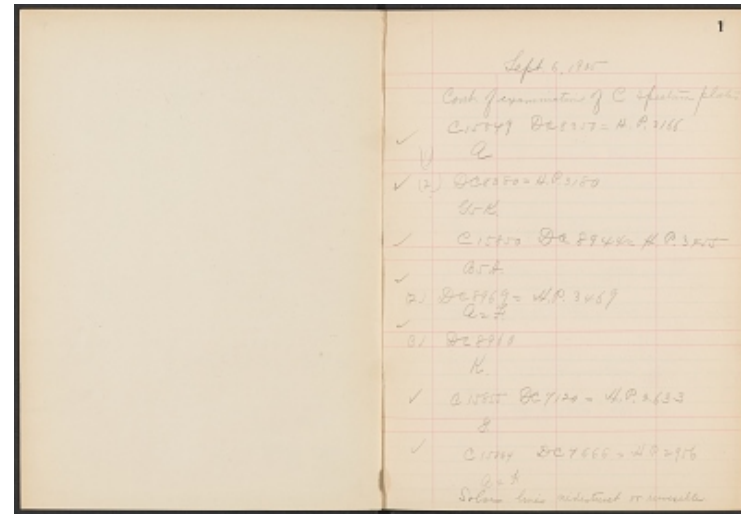
B5A  
(2) DC 8969=H.P. 3469  
A2F  
(3) DC 8960  
K

C 15855 DC 7120=H.P. 2633

G.

C15864 DC 7666=H.P. 2956

A2F  
Solar lines indistinct or invisible.



Project PHaEDRA - Annie Jump Cannon 15  
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[[preprinted]] 2 [[/preprinted]]

Sept. 6, 1905

- (1) C 15865 DC 8440 = H.P. 31988 B5A  
(2) F5G DC 8449 = 16 degrees 5078

C 15866 DC8952 = H.P. 3456 A  
K a little stronger than in Sirius.

C 15867 DC 9509 = H.P. 3842

- (1) K [  
(2) F = DM +16 degrees 4598

C 15868 DC7 953 = H.P. 3047

- (1) A  
(2) DC 7992 = H.P. 3092 A3F? in comp.  
solar lines rather strong for K line

[[end page]]

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[[preprinted]] 3 [[/preprinted]]

Sept. 6, 1905

C 15869 DC 8008 = H.P. 3382

A2F

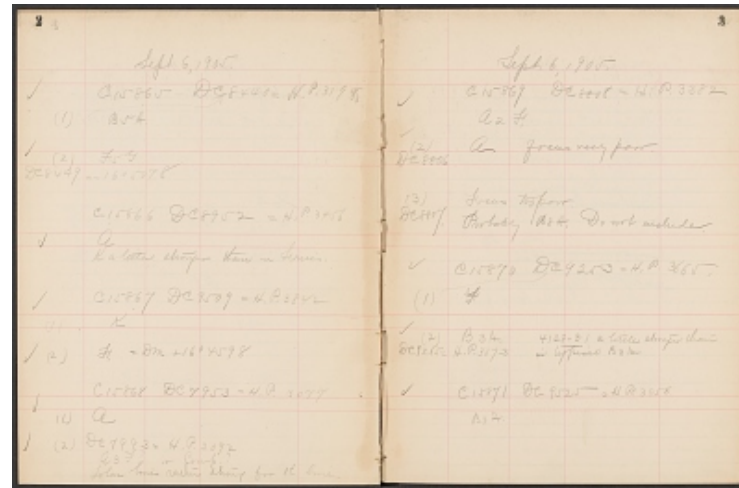
- (2) DC 8806 A focus very poor.  
(3) DC 8807 Focus too poor. Probably B8A. Do not include.

C 15870

- (1) DC 9253 = H.P. 3665 F  
(2) DC 9265 = H.P. 3673 B3A. 4128-31 a little stronger than in typical  
B3A

C 15871 DC 9525 = H.P. 3856

B3A



Project PHaEDRA - Annie Jump Cannon 15  
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Extracted Aug-29-2022 12:07:01

[[preprinted]] 4 [[/preprinted]]

Sept. 6, 1905

C 15872  
DC 9782  
Too poor. Probably A.

C 15874 DC 8488=H.P. 3226.  
Very poor focus.  
[[/strikethrough]] Probably [[/strikethrough]] B5A or B3H.

[[/strikethrough]] C 15849 DC 9038  
H beta bright. Edges dark [[/strikethrough]]

Entered here first by mistake.

[[end page]]  
[[start page]]

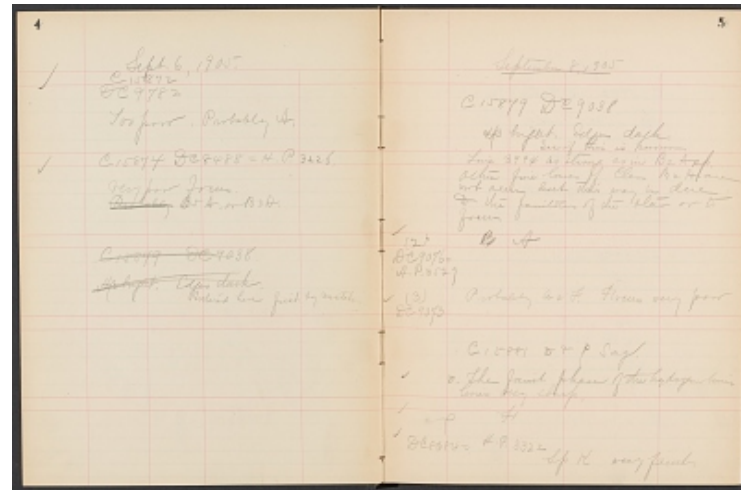
[[preprinted]] 5 [[/preprinted]]

[[underlined]] September 8, 1905 [[/underlined]]

C 15879 DC9038  
H beta bright. Edges dark.  
See if this is known.  
Line 3944 as strong as in B2A sp. Other fine lines of Class B2A are not seen but this may be due to the faintness of the star or to focus.

(2) DC 9076 = H.P. 3529 [[/strikethrough]] B [[/strikethrough]] A  
(3) DC 9073 Probably A2F. Focus very poor.

C 15881 epsilon & rho Sag.  
epsilon. The faint phase of the hydrogen lines very sharp.  
rho. F  
DC 8684 = H.P. 3322  
Sp. K very faint.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 6 [[/preprinted]]

Sept. 8, 1905

[[check mark]] C15882 DC 7579 = H. P. 2918  
F very good

[[check mark]] C15883 DC 8517  
K very good

[[check mark]] C15884 DC 9144.9149 etc.

[[check mark]]

(1)

DC 9149 = H.P. 3575

H

[[check mark]] (2)  
DC9144=HP 3574  
B8A

[[check mark]] (3)  
AC9155=HP 3577  
A[[Subscript]]2[[/subscript]]F

Faint Star slightly [[?]] to classify.

[[end page]]

[[start page]]

[[preprinted]] 7 [[/preprinted]]

Sept. 8th, 1905

[[check mark]] C15885 DC9310

a

[[check mark]](2)

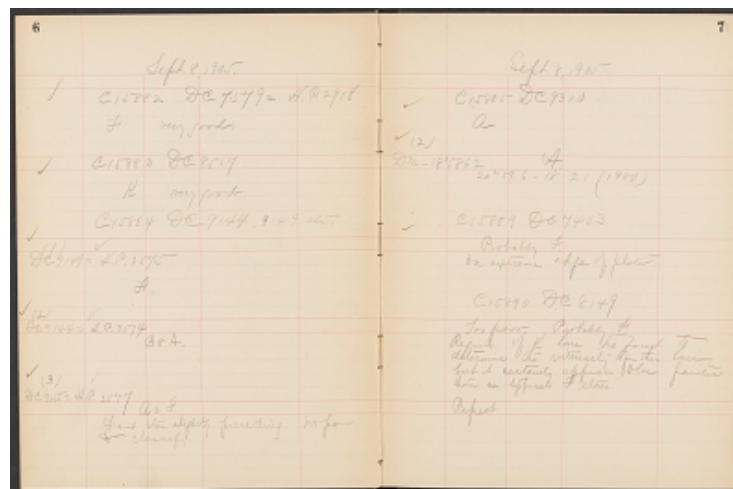
DM 18[[degree symbol]]5862 A

20[[superscript]]h [[/superscript]] 59.6\_18 2.1 (1900)

[[check mark]] C15889 DC7403  
Probably f![[?]] on extreme edge of plate.

C15890 DC8149  
Too poor probably f! [[?]]

Region of K line too faint to determine the intensity of this line but it  
certainly appears to be fainter than in typical F stars.  
Repeat



[[preprinted]] 10 [[/preprinted]]

[[underlined]] Sept. ~~9~~ ~~11, 1905~~ ~~11, 1905~~ ~~11, 1905~~

^[[check mark]] C15903 DC9482=H.P.3819

B2A

^[[check mark]] C15904 DC9750=H.P.3952

Too narrow and poor  
A or B.

Repeat.

^[[check mark]] C15906 DC7677=H.P.2964

F2G

(2)DC7648=H.P.2951

^[[check mark]] K

^[[check mark]] C15908 DC9265=H.P.3673

B5A

^[[check mark]] (2) DC9253=H.P.3665

A5F

^[[check mark]] (3) DC9282  
probably B8a. Hydrogen & 4026 only seen

[[end page]]  
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[[preprinted]] 11 [[/preprinted]]

Sept. 11, 1902

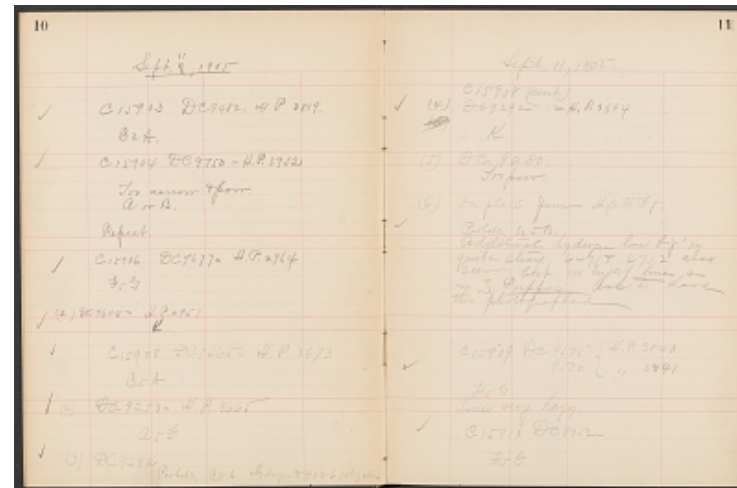
C15908 (cont.)

^[[check mark]] (4) DC9292 =H.P.3694

~~[[strikethrough]](5) [[/strikethrough]]~~  
K

(5) DC9280  
Too poor.

(6) On plate from H theta to H[[?]].



^[[check mark]] Probably Oe5B.  
Additional hydrogen line H gamma ^[[1]] is quite strong. 4471 & 4712  
also seen but no bright lines as in zeta Puppis. Ask to have this  
photographed.

^[[check mark]] C 15909 DC 9505 H.P. 3840  
9506 " 3841  
F5G  
Lines very hazy.

^[[check mark]] C 15910 DC 8052  
F5G

Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]]12[[/preprinted]]

Sept. 11, 1905

C15911 DC 7872 H.P.3028  
" 7873 " 3029

{F or

[[checkmark]]{F5G Focus very poor which may be due to duplicity,  
Better F from this photograph

[[checkmark]] (2) DC 7906

very poor.

May be B8A

Only hydrogen lines & 4026 well seen.

[[checkmark]] C 15912 DC 8543 = H.P. 3254  
A5F.

very blurry.

[[checkmark]] C 15913 DC 9080 = H.P. 3532  
A3F  
K < H

[[checkmark]] C 15915 DC 8980 = H.P. 3479  
B3A.

[[checkmark]] (2) DC 8957  
Probably B3A. Focus poor.  
[[end page]]

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[[preprinted]] 13 [[/preprinted]]

Sept. 11, 1905

[[checkmark]] C 15916 DC 9471 = H.P. 3814  
A5F.

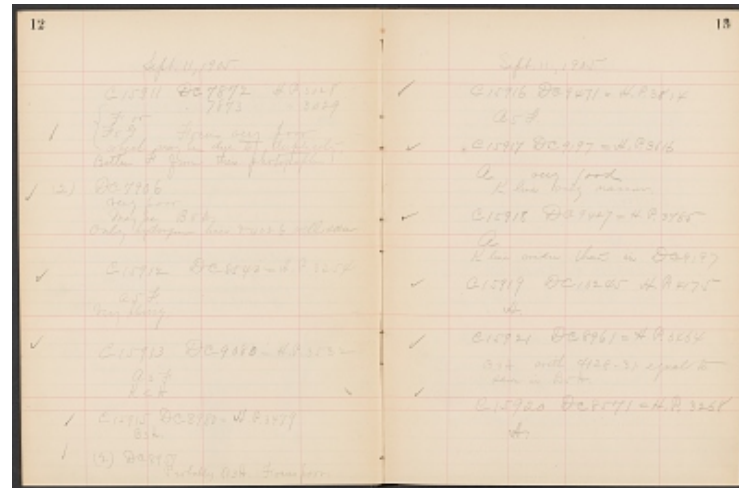
[[checkmark]] C 15917 DC 9197 = H.P. 3616  
A very good  
K line very narrow

[[checkmark]] C 15918 DC 9427 = H.P. 3785  
A  
K line wider than on DC 9197

[[checkmark]] C 15919 DC 10245 H.P. 4175  
A.

[[checkmark]] C 15921 DC 8961 = H.P. 3464  
B3A with 4128-31 equal to same in B5A.

[[checkmark]] C 15920 DC 8571 = H.P. 3268  
A.





Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 20 [[/preprinted]]

[[underlined]] Thursday, Sept. 14, 1905 [[/underlined]]

[[checkmark]] C15280 DC642 = H.P.195

A5F

Solar lines fainter than in typical stars

[[checkmark]] (2)DM + 31° 197 7.3^m

A. with a fainter spectrum of Class A in preceding edge. This is not given as a double star in DM nor in Potsdam cat. nor in Vol. 45, Harvard Annals. The edge is seen quite distinctly and there is no edge on this bright star DC 642. Enter this in double star sp. catalogue.

[[checkmark]] (3) DM +29 degrees 200

A

[[checkmark]] C 15281 DC 1303 +19 degrees 340

A

[[checkmark]] (2) DM +19 degrees 342

G

[[end page]]

[[start page]]

[[preprinted]] 21 [[/preprinted]]

Sept. 14, 1905.

[[checkmark]] C 15282 DC 2177 = H.P. 626

A

[[checkmark]] (2) +31 degrees 649 DC 2143

B3A HB not on plates

[[checkmark]] (3) DC 2157

G

[[checkmark]] (4) DC 2156

B3A

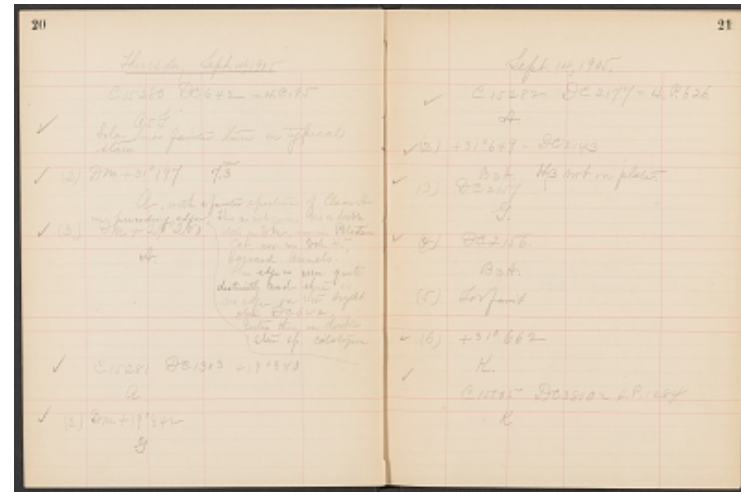
(5) Too faint

[[checkmark]] (6) +31 degrees 662

K.

[[checkmark]] C 15505 DC 3810 = H.P. 1284

K



[[preprinted]]

22

[[preprinted]]

Sept. 14, 1905

[[checkmark]]

C15525 DC6626 H.P.2373 A 2 F

[[checkmark]]

C15527 DC3060 = H.P.988

B 2 H4649 seen also [[?]] lines of shorter than H[[?]]

[[checkmark]]

(2) DC3033

B3A. Lines very hazy This may be due to spectrum being very near edge of plate

[[checkmark]]

(3) DC3056

B8H ~~probabl~~

~~[[cross out]]~~ or B9H. Focus very poor. K is > than 4026, so better class it B9S

[[checkmark]]

(4) DC3064 B3H

[[end page]]

[[start page]]

[[preprinted]]

23[[preprinted]]

Sept 14, 1905

C15527 (cont.)

[[checkmark]]

(5) DM+5 degrees 901

B3A very indistinct lines

[[checkmark]]

(6) +2 degrees 965 K

[[checkmark]]

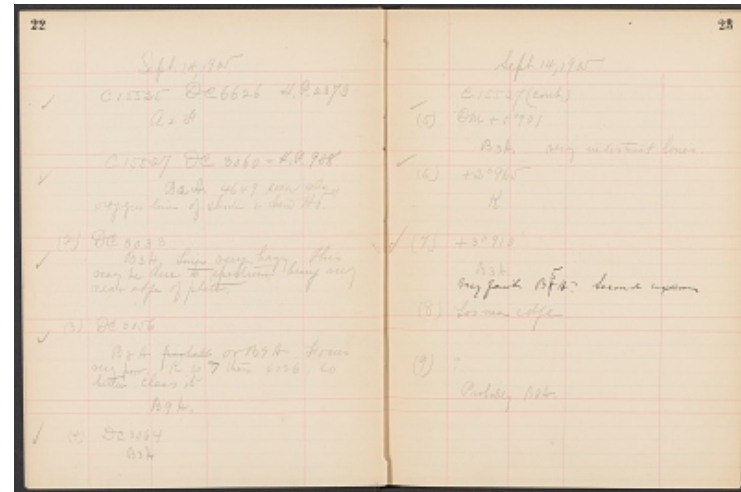
(7) +3degrees 910

B3A very faint B~~[[cross out]]~~8

~~[[cross out]]~~H ? Second [[?]]

(8) Too near edge

(9) ? Probably B8A.



Project PHaEDRA - Annie Jump Cannon 15  
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Extracted Aug-29-2022 12:07:01

[[preprinted]] 24 [[/preprinted]]

Sept. 14, 1905

[check mark] C 15533 DC 6969

G.

(2) Too poor

[check mark] (3) DC 6977 = H.P. 2548

K

H beta off plates

[[end page]]

[[start page]]

[[preprinted]] 25 [[/preprinted]]

[[underlined]] Wednesday, September 20, 1905 [[/underlined]]

Examination of X plates for classifying fainter stars.

[check mark] X 10900 S.M.P. 4943

(1) K

(2) Too faint for certain classification

K or K5M

(3) F5G or perhaps G

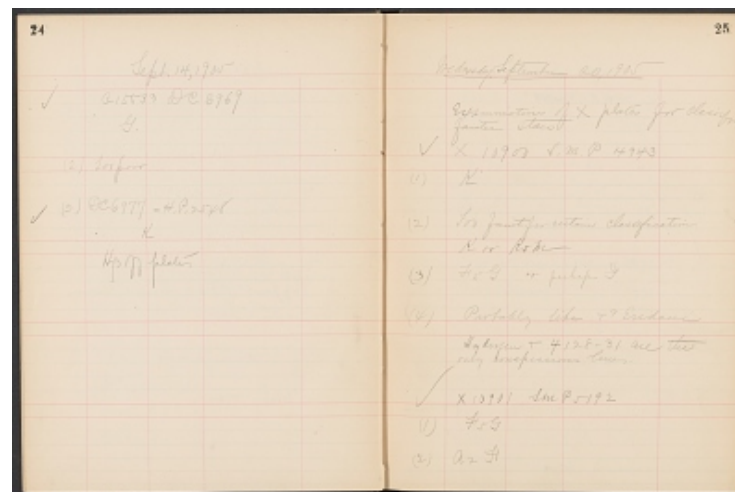
(4) Probably like tau <sup>9</sup> Eridani

Hydrogen & 4128-31 are the only conspicuous lines.

[check mark] X 10901 SMP 5192

(1) F5G

(2) A2F



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 26 [[/preprinted]]

Sept. 20, 1905

X10901 (cont)

(3) B8A

(4) B3A H beta not on plate.

(5) A or A2F H beta not on plate

[[checkmark]] X 10902 S.M.P. 5599

F5G Poor focus

[[checkmark]] X 10903 SMP 5599

F5G good

2nd image of same type and is probably the same star.

X 10907 SMP 5918

Too poor. Probably A2F

[[end page]]

[[new page]]

[[preprinted]] 27 [[/preprinted]]

Sept. 20, 1905

X 10912 SMP 5622

(1) G

(2) Too poor

A or B9A

No lines seen except hydrogen.

X 10913 SMP 2144

Brightest star assumed to be 2144

very narrow & dense

B3A

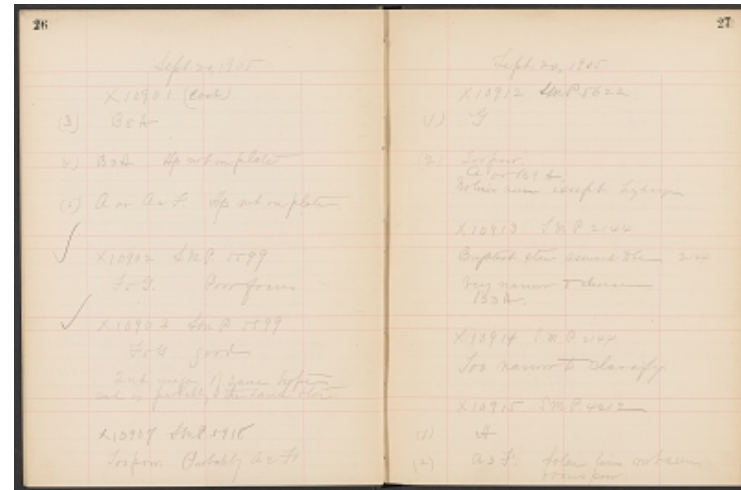
X 10914 S.M.P. 2144

Too narrow to classify

X 10915 SMP 4212

(1) A

(2) A3F Solar lines not seen. Focus poor



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 28 [[/preprinted]]

Sept. 20, 1905

X 10916 SMP 2051

- (1) Ma
- (2) K
- (3) G5K

X 10917 SMP 2853

- (1) K
- (2) A poor
- (3) B8A apparently, although 4481 is not seen very distinctly, 4471 and 4026 are the only prominent Orion lines.

- (4) K
- (5) Too poor, 1st type

[[end page]]

[[new page]]

[[preprinted]] 29 [[/preprinted]]

Sept. 20, 1905.

X 10918 SMP 3593

A5F

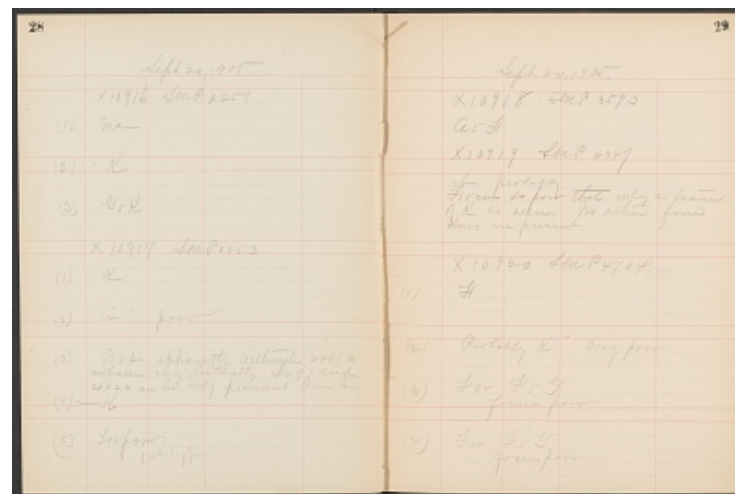
X 10919 SMP 4347

A probably

Focus so poor that only a trace of K is seen. No other fine lines are present.

X 10920 SMP 4704

- (1) F
- (2) Probably K. Very poor.
- (3) F or F5G focus poor
- (4) F or F5G focus poor



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 30 [[/preprinted]]  
Sept. 20, 1905

X 10921 SMP 5183

F

Focus horrible.

X 10922 SMP 2124

- (1) F5G
- (2) B3A H beta not on plate
- (3) A

X 10923 SMP 3011

- (1) B3A
  - (2) Too poor. No lines seen except the hydrogen.
- [[end page]]

[[new page]]  
[[preprinted]] 31 [[/preprinted]]

X 10924 SMP 3822

Too poor  
Nothing seen but strong hydrogen lines.

X 10925 SMP 2652

G5K

X 10926 SMP 3333

A5F

X 10927 SMP 3970

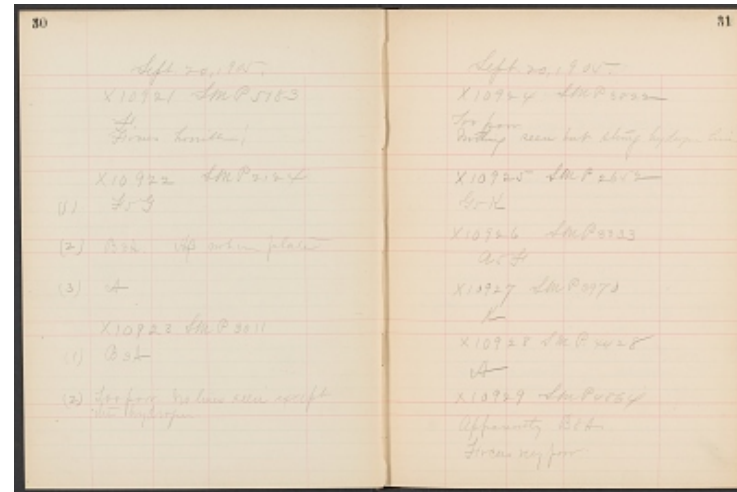
K

X 10928 SMP 4428

A

X 10929 SMP 4864

Apparently B8A  
Focus very poor.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01



[[preprinted]] 34 [[/preprinted]]

September 20, 1905

X 10941 SMP 4813

(1) K

(2) K or K5M

X 10942 SMP 5446

Spectra too poor to classify.

(1) Only hydrogen lines & K seen.

(2) A or A2F

(3) A5F probably. Very poor

X 10943 SMP 4727

Quality 2 Too poor.

[[end page]]

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[[preprinted]] 35 [[/preprinted]]

X 10944 SMP 2505

(1) Probably A. Only the hydrogen lines are seen.

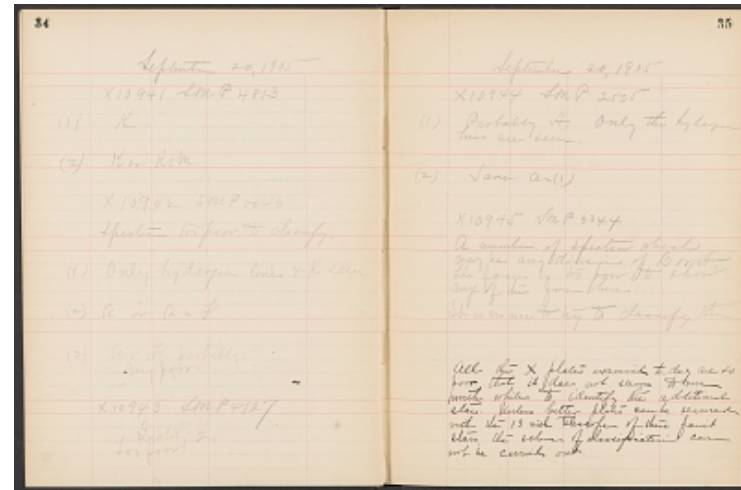
(2) Same as (1)

X 10945 SMP 3344

A number of spectra which may be any division of B or A. The focus is too poor to show any of the fine lines.

It is no use to try to classify them.

All the X plates examined today are so poor that it does not seem to me worth while to identify the additional stars. Unless better plates can be secured with the 13 inch telescope of these faint stars, the scheme of classification can not be carried out.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 36 [[/preprinted]]  
[[underline]] Friday, October 20, 1905 [[/underline]]

Examination of spectrum plates for lines of peculiar intensity in alpha Andromedae.  
See letter of Lochyer.

Lines mentioned have wave lengths 3943.9, 3984.1, 4137.4, 4206.3 and 4282.4.

I have marked them on C 643 alpha Andrm.

other stars showing same lines

mu Leporis. All seen distinctly except 3984 which is indistinctly seen.

12 Can. Ven. C 6544  
The lines are not distinctly seen although I believe the three of greater lambda are present.

mu Leporis is the only star I can find like alpha Andromedae.  
[[end page]]

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[[preprinted]] 37 [[/preprinted]]  
[[underline]] Thursday, Nov. 23, 1905 [[/underline]]

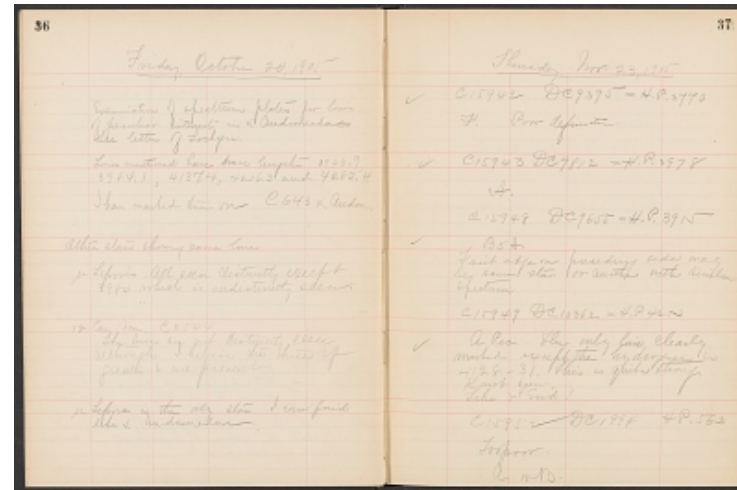
[[checkmark]] C 15942 DC 9395 = H.P. 3770  
F. Poor definition.

[[checkmark]] C 15943 DC 9812 = H.P. 3978  
A.

C 15948 DC 9655 = H.P. 3915  
[[checkmark]] B5a  
Faint edge preceding side may be same star or another with similar spectrum.

C 15949 DC 10362 = H.P. 4213  
[[checkmark]] A Pec. The only line clearly marked except the hydrogen is 4128-31. This is quite strong  
K not seen.  
Like tau<sup>9</sup> Erid?

C 15952 DC 1994 H.P. 563  
Too poor  
A or B.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 42 [[/preprinted]]  
Nov. 23, 1905

[[checkmark]] C 16037 DC 1151 = H.P. 327  
A5F

[[checkmark]] (2) DC 1154 = H.P. 329

G5K

[[checkmark]] (3) DM -0 degrees 318 1 59.1 -0 40.2  
K

C 16040 DC 2739

[[checkmark]] Probably B8A. Focus very poor and 4026 is the only Orion  
line clearly seen.

(2) DC 2767

Probably B8A. All lines very hazy. Faint on preceding [[?]] DM +14  
degrees 795 is also first type. A or B.

[[checkmark]] C 16050 DC 9257 = H.P. 3666

F K line is narrower than in most F stars but hardly marked enough to  
class it composite.

[[end page]]

[[new page]]

[[preprinted]] 43 [[/preprinted]]  
Nov. 23, 1905

[[checkmark]] C 16051 DC 2172 = H.P. 622

B3A Good.

[[checkmark]] C 16055 DC 9224 = H.P. 3636

B3A.

[[checkmark]] C 16061 DC 8379 = H.P. 3178.

A3F.

(2) DC ~~8317~~ 8371

[[checkmark]] A probably. Focus poor.

(3) Ma +18 degrees 3817 ~~DC 8371~~  
faint.

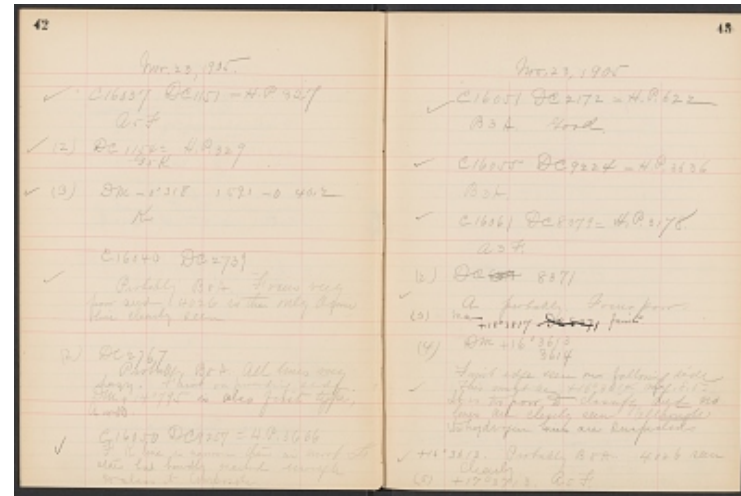
(4) DM +16 degrees 3613/ 3614

[[checkmark]] Faint edge seen on following side. This may be +16  
degrees 3614 mag. 8.5

It is too poor to classify and no lines are clearly seen although the  
hydrogen lines are suspected.

[[checkmark]] +16 degrees 3613 Probably B8A. 4026 seen clearly.

(5) +17 degrees 3713. A5F.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 44 [[/preprinted]]  
Nov. 23, 1905.

[[checkmark]] C 16067 DC 2571 = H.P. 789

F  
[[checkmark]] (2) Ma Identif.  
+14 degrees 711

[[checkmark]] C 16070 DC 9254 = H.P. 3664  
Probably B8A. 4471 & 4481 seen. Other lines in poor focus

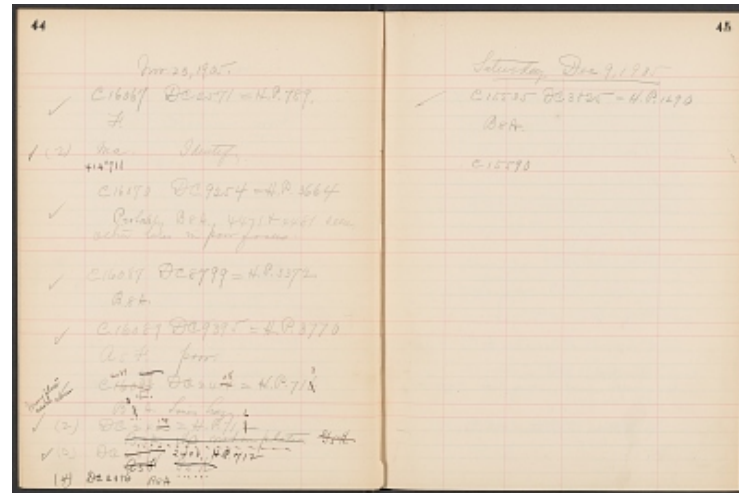
[[checkmark]] C 16087 DC 8799 = H.P. 3372  
B8A.

[[checkmark]] C 16089 DC 9395 = H.P. 3770  
A5F. poor.  
[[margin]] wrong plate was on cover [[/margin]]  
C ~~16094/34~~ ~~16039~~ DC 24  
~~14~~ = H.P. 71 ~~08~~ ~~6~~  
~~3~~.  
B ~~8~~ ~~3A~~. Lines hazy.  
~~8~~ ~~(2)~~ DC 24 ~~08~~  
~~14~~ = H.P. 71 ~~2~~ ~~6~~  
B3A H beta not on plate G5K  
[[checkmark]] (3) DC ~~2397~~ ~~2403~~ H.P.  
712 ~~A3F~~ ~~G5K~~  
(4) DC 2396 B8A  
[[end page]]

[[new page]]  
[[preprinted]] 45 [[/preprinted]]  
[[underline]] Saturday, Dec. 9, 1905 [[/underline]]

[[checkmark]] C 15535 DC 3835 = H.P. 1290  
B8A.

C 15590



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 48 [[/preprinted]]  
Dec. 11, 1905

[[checkmark]] C 16006 DC 8811 = H.P. 3381  
B5A.

[[checkmark]] C 16016 DC 2201 = H.P. 632  
B3A  
[[checkmark]] (2) DC 2238 = H.P. 647  
B3A. H beta off the plate.

[[checkmark]] C 16020 DC 9346 = H.P. 3735  
F5G

[[checkmark]] C 16022 DC 646 = H.P. 196  
K

[[checkmark]] DC 603 = H.P. 178  
A2F

[[checkmark]] C 16024 DC 2426 = H.P. 722  
Very poor  
A5F.  
[[end page]]

[[new page]]  
[[preprinted]] 49 [[/preprinted]]  
Dec. 11, 1905

[[checkmark]] C 16049 DC 8858 = H.P. 3400  
B3A.  
[[checkmark]] (2) DC 8882 = H.P. 3413  
Probably B8A. very poor.

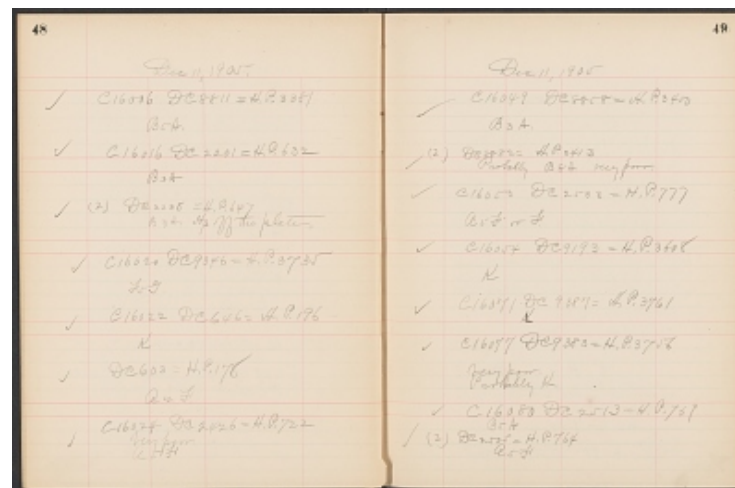
[[checkmark]] C 16050 DC 2533 = H.P. 777  
A5F or F

[[checkmark]] C 16054 DC 9193 = H.P. 3608  
K

[[checkmark]] C 16071 DC 9387 = H.P. 3761  
K

[[checkmark]] C 16077 DC 9383 = H.P. 3756  
Very poor.  
Probably K.

[[checkmark]] C 16080 DC 2513 = H.P. 789  
B5A  
[[checkmark]] (2) DC 2505 = H.P. 764  
A5F



[[preprinted]] 52 [[/preprinted]]

Dec. 11, 1905.

[[checkmark]] C 16113 DC 36 = H.P. 12  
B8A.

[[checkmark]] C 16116 DC 390 = H.P. 385  
A.

[[checkmark]] C 16117 DC 2116 = H.P. 604  
K

[[checkmark]] C 16118 DC 1538 = H.P. 420  
F5G

[[checkmark]] C16121 DC 2058 = H.P. 581  
G5K

[[checkmark]] C 16128 DC 1708 = H.P. 474  
A

[[checkmark]] (2) DC 1715 = H.P. 47 ~~4~~  
8  
B8 or 9 A  
(3) A2F.

[[end page]]  
[[start page]]

[[preprinted]] 53 [[/preprinted]]

Dec. 11, 1905

[[checkmark]] C 16129 DC 2294 = H.P. 662  
B5A.

[[checkmark]] (1) C 16132 DC 9243 = H.P. 3651  
A

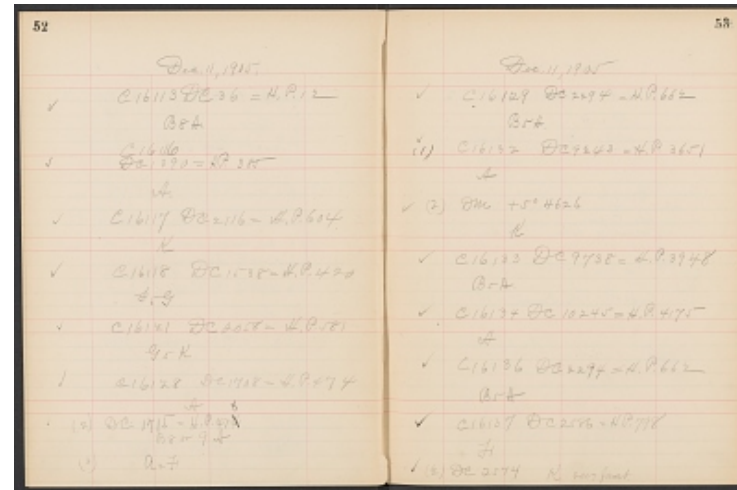
[[checkmark]] (2) DM +5 degrees 4626  
K

[[checkmark]] C 16133 DC 9738 = H.P. 3948  
B5A

[[checkmark]] C 16134 DC 10245 = H.P. 4175  
A

[[checkmark]] C 16136 DC 2294 = H.P. 662  
B5A

[[checkmark]] C 16137 DC 2586 = H.P. 778  
F  
[[checkmark]] (2) DC 2574



K very faint.

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Extracted Aug-29-2022 12:07:01

[[preprinted]] 54 [[/preprinted]]

Dec. 11, 1905

[[checkmark]] C 16141 DC 2493 = H.P. 758  
A2F

[[checkmark]] C 16143 DC 972 = H.P. 272

K

[[checkmark]] (2) = DC 976

A Pec

Probably like tau ^[[9]] Erid. Only 4128-31 seen of the fainter lines.

[[checkmark]] C 16144 DC 1248 = H.P. 352

G5K

[[checkmark]] (2) DC 1224 = H.P. 343

F5G

[[checkmark]] C 16145 DC 3100 = H.P. 1000  
B3A.

[[end page]]

[[start page]]

[[preprinted]] 55 [[/preprinted]]

Dec. 11, 1905

[[checkmark]] C 16147 DC 9715 = H.P. 3940

K

[[checkmark]] (2) DC 9737 = H.P. 3946

B8A.

[[checkmark]] C 16148 DC 118 = H.P. 42  
A2F

[[checkmark]] C 16154 DC 723 = H.P. 209

Qualit 2

Too poor

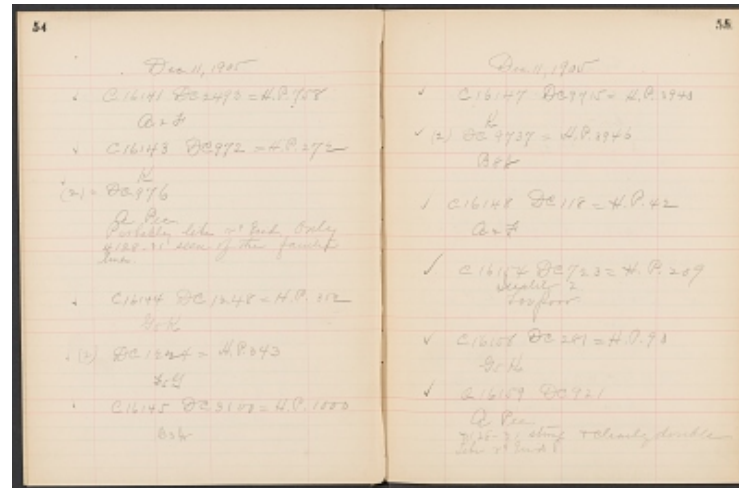
[[checkmark]] C 16158 DC 281 = H.P. 90

G5K

[[checkmark]] C 16159 DC 921

A Pec

4128-31 strong & clearly double like tau ^[[9]] Erid.





[[preprinted]] 56 [[/preprinted]]

Dec. 11, 1905

[[checkmark]] C 16161 DC 2475 = H.P. 747

Too poor

Only the hydrogen lines seen.

[[checkmark]] C 16170 DC 1799 = H.P. 505

K

[[checkmark]] C 16172 DC 9969 = H.P. 4051

A good

[[checkmark]] C 16173 DC 1303 = H.P. 365

A K double, probably due to being near edge of plate.

[[checkmark]] C 16175 DC 2543 = H.P. 782

B3A very poor focus.

[[checkmark]] C 16116 DC 3702 + H.P. 1231

A lines very sharp. Probably similar to alpha Cygni.

[[checkmark]] (2) DC 3720

A. very poor

[[end page]]

[[start page]]

[[preprinted]] 57 [[/preprinted]]

Dec. 11, 1905.

[[checkmark]] C 16178 DC 9254 = H.P. 3664

Probably B8A. very poor.

[[checkmark]] (2) DM -6 degrees 5604

probably F. very poor.

[[checkmark]] C 16183 DC 2217 = H.P. 640

Probably B8A. very poor

[[checkmark]] C 16184 DC 3009 = H.P. 964

B3A, good

[[checkmark]] (2) DC 3027

B3A

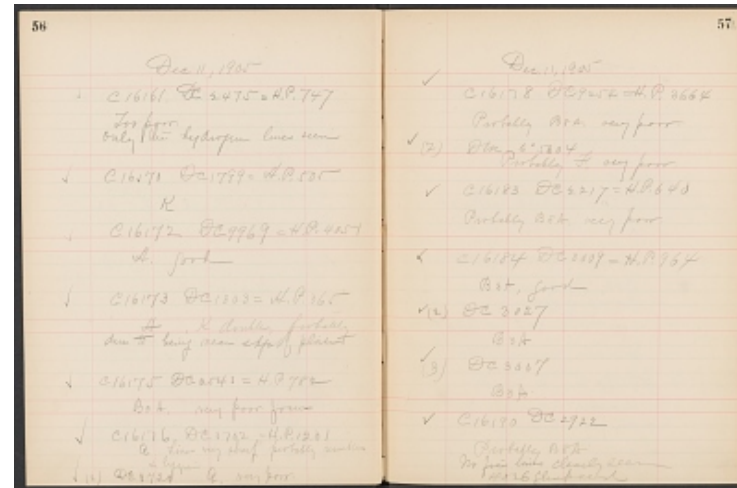
[[checkmark]] (3) DC 3007

B3A

[[checkmark]] C 16190 DC 2922

Probably B8A.

No fine lines clearly seen. 4026 glimpsed.



[[preprinted]] 58 [[/preprinted]]

Dec. 11, 1905

[[checkmark]] C 16160 DC 1194 = H.P. 334  
A3F

[[checkmark]] C 16140 DC 1692 = H.P. 465  
A2F

[[checkmark]] C 16119 DC 1911 = H.P. 544  
B8A, B7A or A  
Narrow image

[[checkmark]] C 16115 DC 1207 = H.P. 337  
F

[[checkmark]] (2) DC 1176  
Probably B8A  
very poor.

[[end page]]

[[start page]]

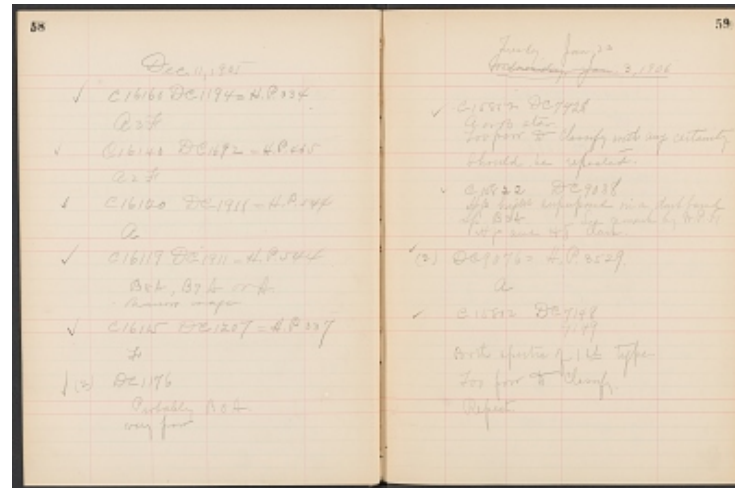
[[preprinted]] 59 [[/preprinted]]

[[striketthrough]] Wednesday, Jan 3 [[/striketthrough]] [[underlined]]  
Tuesday, Jan 23, 1906 [[/underlined]]

[[checkmark]] C 15852 DC 7428  
A or B star  
Too poor to classify with any certainty.  
Should be repeated.

[[checkmark]] C 15822 DC 9038  
H beta bright superposed in a dark band  
Sp. B3A See remark by W.P.F.  
H gamma and H delta dark.  
[[checkmark]] (2) DC 9076 = H.P. 3529  
A

[[checkmark]] C 15802 DC 7148, 7149  
Both spectra of 1st type  
Too poor to classify  
Repeat



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 60 [[/preprinted]]

Jan. 23, 1906.

[[checkmark]] C 15481 DC 6418

A

[[checkmark]] C 15177 DC 9298

(3) Dark lines very indistinct, resembles gamma Cass

[[checkmark]] (4) H.P. 3684 = DC 9277

Like beta Orionis

[[checkmark]] (5) DM +46 degrees 3141

B8A? 4026 seen quite distinctly. Other Orion lines not seen.

[[checkmark]] (6) Probably B3A. H beta off the plate. H.P. 3705 = DC 9300

[[checkmark]] (7) DC 9309

A5F

Solar lines not well seen.

[[end page]]

[[start page]]

[[preprinted]] 61 [[/preprinted]]

Jan. 23, 1906.

[[checkmark]] C 15878 DC 9038

Very poor

H beta faintly bright.

[[checkmark]] (2) DC 9076 = H.P. 3529

A or A2F

[[checkmark]] C 15730 DC 5174 = H.P. 1746

F5G

[[checkmark]] C 15754 DC 7511 = H.P. 2877

K

[[checkmark]] C 15809 DC 8834

A

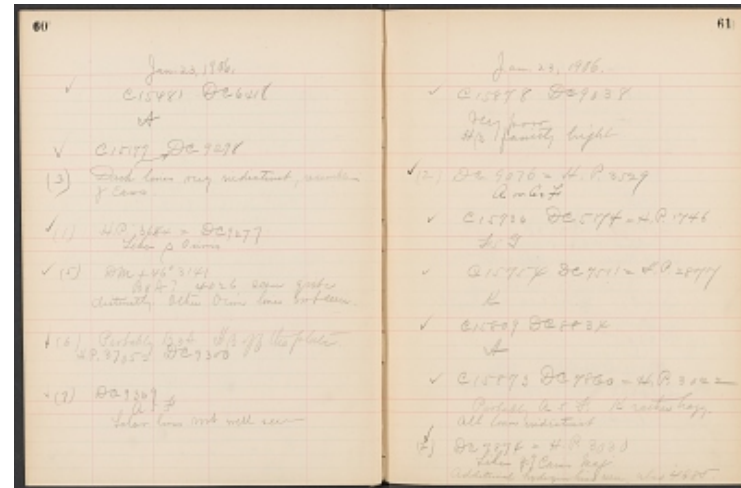
[[checkmark]] C 15873 DC 7860 = H.P. 3022

Probably A5F. K rather hazy. All lines indistinct.

[[checkmark]] (2) DC 7874 = H.P. 3030

Like 29 Canis Maj.

Additional hydrogen lines seen, also 4685



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 62 [[/preprinted]]

Jan. 23, 1906

[[checkmark]] C 15873 (cont)

(2) DC 7874

Image very poor but class certain

[[checkmark]] (3) DC 7817 = H.P. 3006

A.

[[checkmark]] C 15877 DC 9038

Too poor. H beta not seen. Other hyd. lines appear double.

[[checkmark]] C 15975 DC 9266 = H.P. 3683

A

[[checkmark]] (2) DC 9205

K

H beta off the plate.

[[checkmark]] C 14999 DC 9080 = H.P. 3532

A3F

[[checkmark]] C 15947 DC 9188 = H.P. 3614

A3F

Slightly peculiar.

[[end page]]

[[start page]]

[[preprinted]] 63 [[/preprinted]]

[[underlined]] Jan. 24, 1906 [[/underlined]]

[[checkmark]] C 16003 DC 2090

Probably A

repeat.

[[checkmark]] C 16004 DC 329

A5F

(2) Probably B3A

Off the plate from H delta to violet

[[checkmark]] C 16005 DC 2111

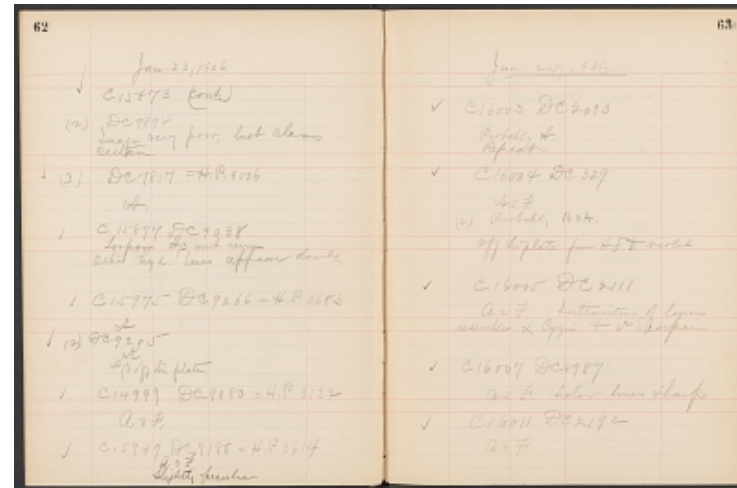
A2F. Intensities of lines resemble alpha Cygni & iota <sup>^</sup>[[2]] Scorpii

[[checkmark]] C 16007 DC 8987

A5F. Solar lines sharp.

[[checkmark]] C 16011 DC 2192

A3F.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 68 [[/preprinted]]

Jan. 24, 1906

[[checkmark]] C 16045 DC 3437 = H.P. 1127  
G5K

[[checkmark]] C 16046 DC 3074 = H.P. 992  
Too poor  
Probably A.

[[checkmark]] C 16056 DC 9848 = H.P. 3997  
8 Lacertae. Double star  
Plate confirm the peculiarity found in C 15143. H beta is much fainter in the northern than in southern components and resembles H beta in eta Centauri and the variable H beta stars. No brightness noted.

[[checkmark]] DC 9867  
Very peculiar, excellent photograph.  
Like tau Canis Majoris. All lines well defined. Study in detail  
[[checkmark]] (3) +37 degrees 4651  
A5F

[[end page]]  
[[start page]]

[[preprinted]] 69 [[/preprinted]]

Jan. 26, 1906

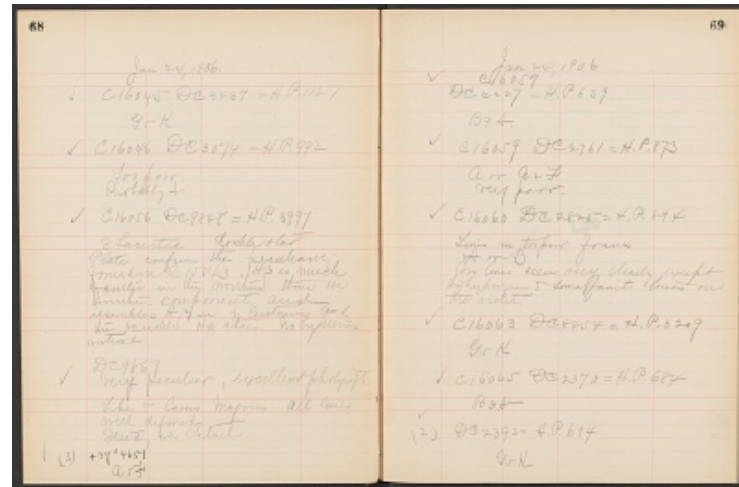
[[checkmark]] C 16057 DC 2227 = H.P. 639  
B9A

[[checkmark]] C 16059 DC 2761 = H.P. 873  
A or A2F  
Very poor

[[checkmark]] C 16060 DC 2825 = H.P. 894  
Lines in too poor focus  
A or B  
No lines seen very clearly except the hydrogen & some faint lines in the violet.

[[checkmark]] C 16063 DC 8454 = H.P. 3209  
G5K

[[checkmark]] C 16065 DC 2370 = H.P. 684  
B3A  
[[checkmark]] (2) DC 2392 = H.P. 694  
G5K



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 70 [[/preprinted]]

Jan. 24, 1906

[[checkmark]] C 16068 DC 9023 = H.P. 3500  
B3A

[[checkmark]] C 16076 DC 3058 = H.P. 989  
B3A

[[checkmark]] C 16078 DC 9386 = H.P. 3764  
B3A H beta bright = 5  
Other hydrogen lines broad but no brightness seen.

[[checkmark]] C 16081 DC 2907 = H.P. 922  
A2F

[[checkmark]] C 16090 DC 9583 = H.P. 3861  
A

[[end page]]  
[[start page]]

[[preprinted]] 71 [[/preprinted]]

[[underlined]] January 26, 1906 [[/underlined]]

C 16093 DC 3065 = H.P. 990  
A

[[checkmark]] (2) DC 3043

B3A. H beta off the plate

[[checkmark]] (3) DC 3057

A or A2F

K stronger than in DC 3065

[[checkmark]] (4) DC 3093

A2F

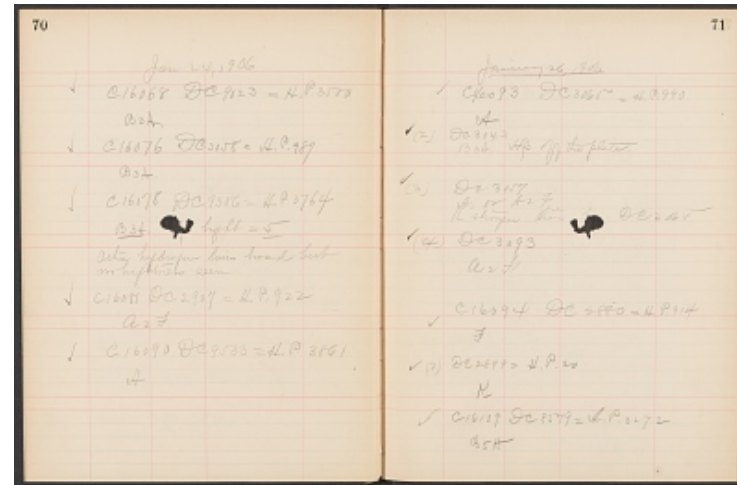
[[checkmark]] C 16094 DC 2880 = H.P. 914

F

[[checkmark]] (2) DC 2899 = H.P. 20

K

[[checkmark]] C 16109 DC 8579 = H.P. 3272  
B5H



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 72 [[/preprinted]]

Jan. 26, 1906

[[checkmark]] C 16114 DC 616 = H.P. 184

A

[[checkmark]] (2) DC 700

A

[[checkmark]] (3) DC 618

G

[[checkmark]] C 16124 DC 9817 = H.P. 3979

A

[[checkmark]] C 16135 DC 1645 = H.P. 451

A

[[checkmark]] C 16139 DC 9987 = H.P. 4060

B3A

C 16146 DC 9782

A

very poor image

[[end page]]

[[start page]]

[[preprinted]] 73 [[/preprinted]]

Jan. 26, 1906

[[checkmark]] C 16155 DC 9246 = H.P. 3655

B5A

[[checkmark]] C 16156 DC 9750 = H.P. 3952

B8A.

[[checkmark]] C 16164 DC 9779 = H.P. 3968

A. 4026 faintly seen.

[[checkmark]] C 16163 DC 9038

H beta bright = 2

Sp. B3A

[[checkmark]] (2) DM +35 degrees 4001

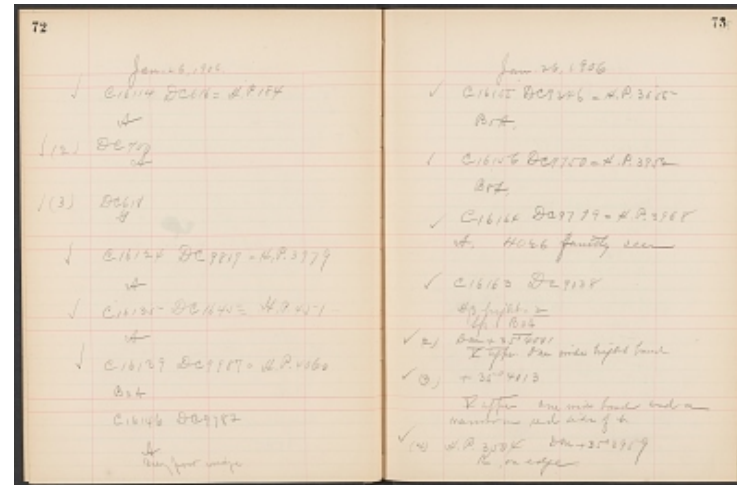
V type. One wide bright band

[[checkmark]] (3) +35 degrees 4013

V type. One wide band and a narrow red side of r.

[[checkmark]] (4) H.P. 3504 DM +35 degrees 3959

K on edge.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01



[[preprinted]] 76 [[/preprinted]]

[[underlined]] January 27, 1906 [[/underlined]]

[[checkmark]] C 16038 DC 1715 = H.P. ~~[[/striketthrough]]~~ 5  
A or B9A  
Focus very poor  
[[checkmark]] (2) DC 1708 = H.P. 474  
A2F

[[checkmark]] C 16253 DC 343 = H.P. 111  
A5F. very poor

[[checkmark]] C 16266 zeta Urs. Maj.  
A or A2F  
Too poor

[[checkmark]] C 16267 zeta Urs. Maj.  
Narrow & poor.

[[checkmark]] C 16274 DC 1454 = H.P. 440  
F5G

[[end page]]  
[[start page]]

[[preprinted]] 77 [[/preprinted]]

Jan. 27, 1906

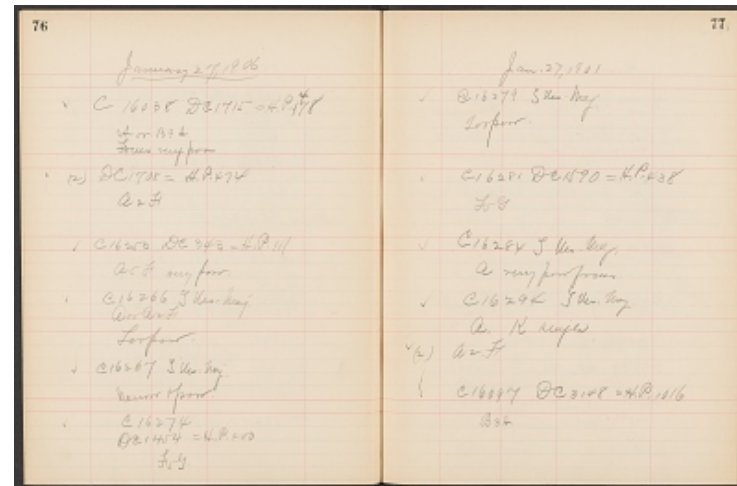
[[checkmark]] C 16279 zeta Urs. Maj.  
Too poor

[[checkmark]] C 16281 DC 1590 = H.P. 438  
F5G

[[checkmark]] C 16284 zeta Urs. Maj.  
A. very poor focus

[[checkmark]] C 16294 zeta Urs. Maj.  
A. K single  
[[checkmark]] (2) A2F

[[checkmark]] C 16097 DC 3148 = H.P. 1016  
B3A.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 80 [[/preprinted]]

March 5, 1906

Pleione

C 9609 too poor

C 96 ~~[[/preprinted]]~~ 0 ~~[[/preprinted]]~~ 17 Too dense

C 9618 Nov. 1, 1896 exp. 113m  
Excellent of Pleione. H beta is a sharp bright line with dark edges. Other hydrogen lines are very broad.

C 9726 Dec. 1, 1896 exp. 33  
Narrow images. H beta bright.

C 9735 Dec. 3, 1896 Exp. 30  
H beta bright.

C 9706 Dec. 3, 1896 exp. 31  
Very narrow & dense. H beta bright

C 9738 dec. 3, 1896 " 41m  
H beta bright

C 9739 Dec 3, 1896. exp. 51m  
H beta bright. H gamma perhaps faintly bright in centre.

[[end page]]  
[[start page]]

[[preprinted]] 81 [[/preprinted]]

Mch 5, 1906

C 9750 Dec. 7, 1896  
H beta bright

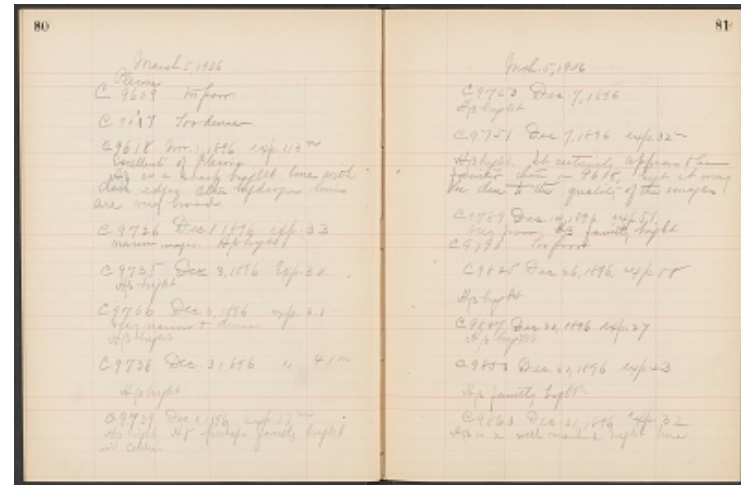
C 9751 Dec. 7, 1896 exp. 32m  
H beta bright. It certainly appears to be fainter than in 9618, but it may be due to the quality of the images.

C 9789 Dec. 14, 1896. exp. 51  
very poor. H beta faintly bright

C 9790 too poor.

C 9825 Dec. 26, 1896. exp. 58  
H beta bright

C 9847 Dec. 30, 1896 exp. 27



H beta bright

C 9850 Dec. 31, 1896 exp. 23  
H beta faintly bright

C 9860 Dec. 31, 1896 exp. 32  
H beta is a well marked bright line.

Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 82 [[/preprinted]]

Mch 5, 1905

Pleione

C 9863 Dec 31, 1896 exp. 25

H beta ~~very~~ faintly bright lines all  
burned out.

C 10675 too poor

C10676 too poor.

C 10688 Nov. 4, 1897 exp. 101

H beta bright, well seen.

C 10689 Nov. 4, 1897 exp. 100m

too poor

C 9848 Dec. 30, 1896

H beta bright

C 9674 Nov. 14, 1896 exp. 62

H beta bright

[[end page]]

[[start page]]

[[preprinted]] 83 [[/preprinted]]

March 5, 1906

C 9849 Dec. 30, 1896

H beta faintly bright

H gamma and H delta wide and certainly bright (slightly)

C 16335 Jan. 29, 1906 37m 30 m

Pleione

H beta is a strong dark line with no brightness.

C 16341 Jan. 30, 1906 34 & 42m

H beta dark

C 16350 Feb. 3, 1906 20 & 28m

H beta not clearly seen in either exposure.

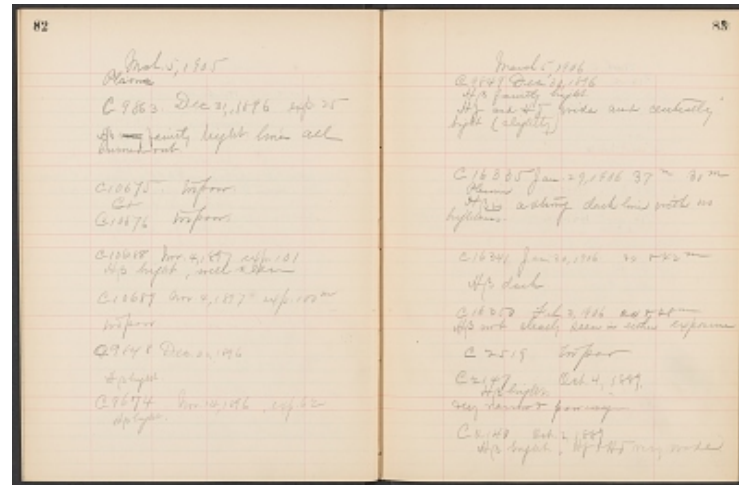
C 2519 too poor.

C 2147 Oct. 4, 1889

H beta bright. Very narrow & poor image.

C 2140 Oct. 2, 1889

H beta bright, H gamma & H delta very wide.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 86 [[/preprinted]]

April 18, 1906.

[[checkmark]] C 16250 DC 9881 = H.P. 4014  
B2A. Lines narrow

[[checkmark]] DC 9848 = H.P. 3997  
"Lines wide and hazy" W.P.F.

This is a known double. See C 15043. I think probably the haziness is due to the superposition. Images too near edge to classify.

[[checkmark]] C 16066 DC 3002  
Too poor

[[checkmark]] C 16082 DC 2968 = H.P. 947  
(1) A3F from K line. Fine lines barely seen.

[[checkmark]] (2) DC 3002 = H.P. 958  
A2 or 3F

[[checkmark]] (3) DC 2956 = H.P. 944  
G5K

[[checkmark]] (4) DC 2986 = H.P. 954  
Probably B3A. H beta to H gamma on plates.

[[end page]]

[[start page]]

[[preprinted]] 87 [[/preprinted]]

April 18, 1906.

[[checkmark]] C 16104 DC 9242 = H.P. 3653  
G

[[checkmark]] (2) +56 degrees 2474  
A3F

[[checkmark]] (3) DC 9233  
B3A

A third type star on plate is to be identified

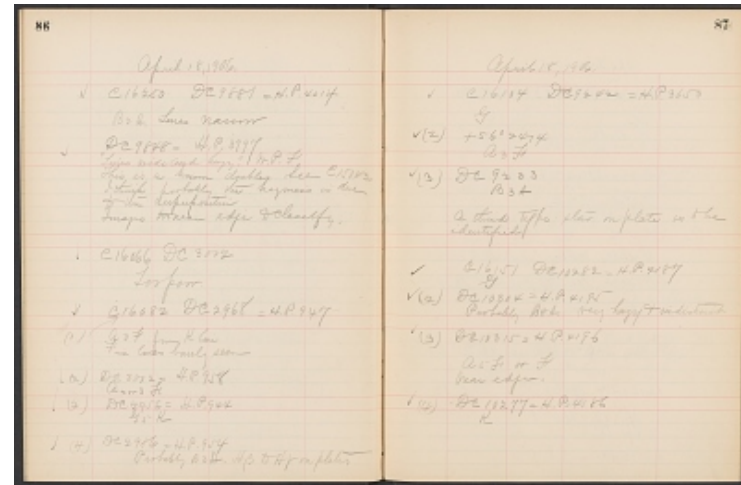
[[checkmark]] C 16151 DC 10282 = H.P. H.P. 4187  
G

[[checkmark]] (2) DC 10304 = H.P. 4195  
Probably B8A. Very hazy & indistinct

[[checkmark]] (3) DC 10315 = H.P. 4196  
A5F or F

Near edge

[[checkmark]] (4) DC 10277 = H.P. 4186  
K



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 88 [[/preprinted]]

April 18, 1906

[[checkmark]] C 16173 DC 1303 = H.P. 365

A

K double. Due to focus?

[[checkmark]] C 16191 DC 3544 = H.P. 1164

Probably B9A. Focus poor

[[checkmark]] (2) DC 3506 = H.P. 1152

Probably B8A.

[[checkmark]] C 16193 DC 8659 = H.P. 3308

B Focus poor

[[checkmark]] (2) DC 8658

Probably B8A. 4026 very strong. All Orion lines faint.

[[checkmark]] C 16197 DC 1303 = H.P. 365

Only partly on plate. H beta off plate. Sp. A.

[[checkmark]] (2) DC 1242 = H.P. 350

F5G

[[end page]]

[[start page]]

[[preprinted]] 89 [[/preprinted]]

April 18, 1906

[[checkmark]] C 16198 DC 9471 = H.P. 3814

A5F.

[[checkmark]] C 16200 DC 9952 = H.P. 4044

B9A. Focus poor but K and 4026 are of about same intensity.

[[checkmark]] C 16201 DC 9782

Too faint

A or A2F.

Omit.

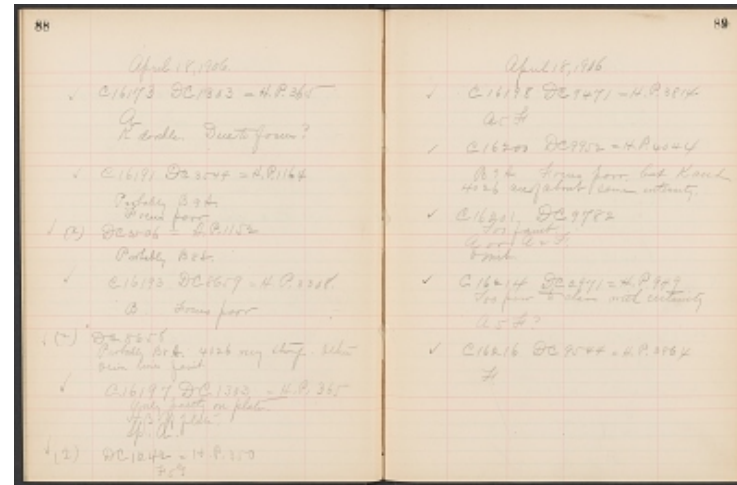
[[checkmark]] C 16214 DC 2971 = H.P. 949

Too poor to class with certainty

A5F?

[[checkmark]] C 16216 DC 9544 = H.P. 3864

F.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 90 [[/preprinted]]

April 18, 1906

[[checkmark]] C 16221 DC 2546 = H.P. 783  
A5F

[[checkmark]] (2) DC 2529 = H.P. 776  
A5F

[[checkmark]] (3) DC 2528 = H.P. 775  
Narrow edge on preceding side of DC 2529  
Sp. K probably - at least very new  
K

[[checkmark]] (4) DC 2571 = H.P. 789  
A5F

[[checkmark]] (5) DC 2547 = H.P. 781  
F

[[checkmark]] (6) DC 2542 = H.P. 780  
F

[[checkmark]] (7) DC 2549  
F

[[end page]]

[[start page]]

[[preprinted]] 91 [[/preprinted]]

April 18, 1906

[[checkmark]] C 16222 DC 3144 = H.P. 1015  
A

[[checkmark]] (2) DC 3106 = H.P. 1002  
B3A

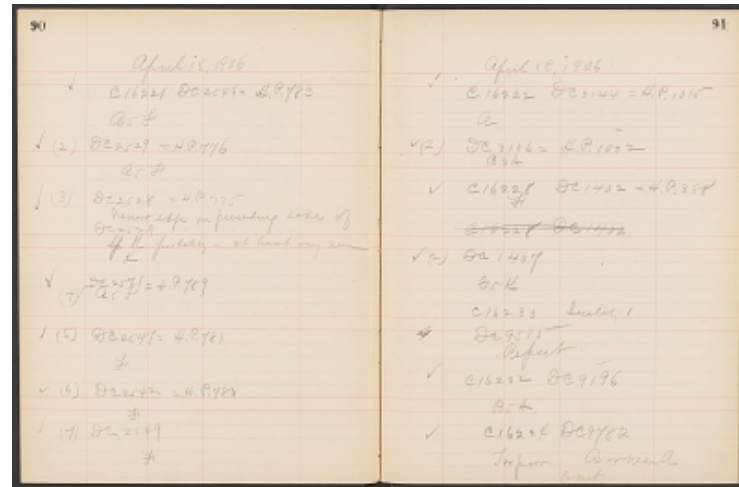
[[checkmark]] C 16228 DC 1402 = H.P. 388  
F

[[strikethrough]] C 16228 DC 1402 [[/strikethrough]]  
[[checkmark]] (2) DC 1407  
G5K

C 16230 Quality 1  
DC 9515  
Repeat

[[checkmark]] C 16232 DC 9196  
B5A

[[checkmark]] C 16234 DC 9782  
Too poor  
A or near A  
Omit



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01



[[preprinted]] 92 [[/preprinted]]

April 18, 1906.

[[checkmark]] C 16235 DC 9782  
Very thin  
Probably A.

[[checkmark]] C 16236 DC 1402  
F Good plate  
[[checkmark]] (2) DC 1407  
G. Better plate than 16228

[[checkmark]] C 16238 DC 2366  
B3A

[[checkmark]] C 16239 DC 2863 = H.P. 907  
F

[[checkmark]] C 16240 DC 3465 = H.P. 1134  
A K double, probably due to focus.

[[checkmark]] C 16241 DC 9246 = H.P. 3655  
B3A

[[end page]]  
[[start page]]

[[preprinted]] 93 [[/preprinted]]

April 18, 1906

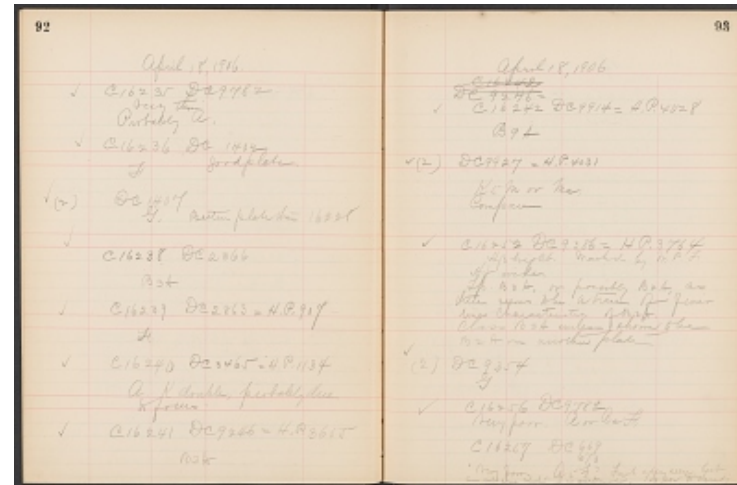
[[striketrough]] C 16242 DC 9246 [[/striketrough]]

[[checkmark]] C 16242 DC 9914 = H.P. 4028  
B9A

[[checkmark]] (2) DC 9927 = H.P. 4031  
K5M or Ma.  
Compare.

[[checkmark]] C 16252 DC 9386 = H.P. 3764  
H beta bright. Marked by W.P.F.  
H gamma wide  
Sp. B3A or probably B2A, as there seems to be a trace of inner lines  
characteristic of B2A.  
Class B3A unless shown to be B2A on another plate.  
[[checkmark]] (2) DC 9354  
G

[[checkmark]] C 16257 DC 669 670  
Very poor A5F? Faint edges seen but am not sure whether it is  
instrumental. Too poor to classify.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 98 [[/preprinted]]

April 23, 1906.

[[checkmark]] C 16328 DC 5167 = H.P. 1742

Too poor

May be A or B+

[[checkmark]] C 16331 DC 3015 = H.P. 966

B3A Lines very hazy, probably due to +3 degrees 872 being superposed.

[[checkmark]] (2) DC 3004

Probably B3A. Lines hazy.

[[checkmark]] (3) DC 3014

A.

[[checkmark]] C 16332 DC 3106 = H.P. 1002

B3A.

[[checkmark]] (2) DC 3060 = H.P. 988

B2A.

[[checkmark]] (3) DC 3056

Probably B9A

[[checkmark]] (4) +3 degrees 928

B3A

[[end page]]

[[start page]]

[[preprinted]] 99 [[/preprinted]]

April 23, 1906

[[checkmark]] C 16333 DC 3113 = H.P. 1004

B8 or 9A.

[[checkmark]] (2) +17 degrees 931

[[strikethrough]] Ma or [[/strikethrough]] K5M

Faint.

[[checkmark]] C 16334 zeta Urs. Maj.

K single.

[[checkmark]] C 16336 zeta Urs. Maj.

K single, a little wide.

[[checkmark]] C 16339 DC 5085 = H.P. 1717

G5K

[[checkmark]] (2) DC 5102 = H.P. 1722

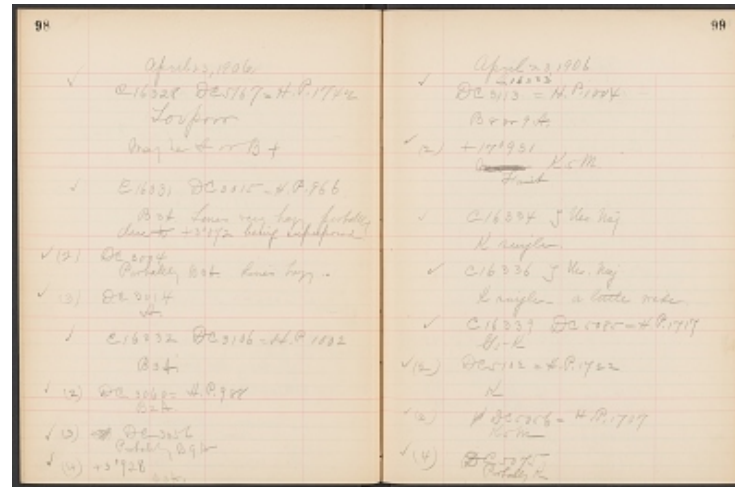
K

[[checkmark]] (3) DC 5056 = H.P. 1707

K5M

[[checkmark]] (4) DC 5075

Probably K



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Extracted Aug-29-2022 12:07:01

100	101
<p>April 23, 1936</p> <p>✓ C16342 ♀ No. bag K double?</p> <p>✓ C16347 ♀ No. bag K single: too dense</p> <p>✓ C16348 ♀ No. bag K narrow &amp; single</p> <p>✓ C16349 ♀ No. bag K narrow</p> <p>✓ C16353 ♀ No. bag K bag</p> <p>✓ C16345 - B23227 - #P1140 B24</p> <p>✓ C16346 ♀ No. bag K narrow bag</p> <p>✓ C16346 ♀ No. bag K narrow</p>	<p>April 23, 1936</p> <p>✓ C16341 ♀ No. bag K narrow single</p> <p>✓ C16341 ♀ No. bag K single</p> <p>✓ C16349 B23227 - #P1140 For fine spines Probably #</p> <p>✓ C16340 B23225 - #P222 = B24 not the bird for 11/12/36 not very far from edge of bag rather better side of it at the slightest bend</p> <p>✓ C16352 B23225 = H.P.1140 B24</p> <p>11/12 #P1122 = B2326 at #</p>

[[checkmark]] C 16342 zeta Urs. Maj.  
K double?

[[checkmark]] C 16347 zeta Urs. Maj.  
K single. Too dense

[[checkmark]] C 16348 zeta Urs. Maj.  
K narrow & single

[[checkmark]] C 16351 zeta Urs. Maj.  
K narrow.

[[checkmark]] C 16353 zeta Urs. Maj.  
K hazy

[[checkmark]] C 16345 DC 3207 = H.P. 1040  
B3A

[[checkmark]] C 16306 zeta Urs. Maj.  
K a little hazy.

[[checkmark]] C 16416 zeta Urs. Maj.  
K narrow.

[[end page]]  
[[start page]]

April 23, 1906

[[checkmark]] C 16421 zeta Urs.  
K ~~[[strikethrough]]~~ nas ~~[[/strikethrough]]~~ single

☒ C 16415 zeta Urs.  
K single

[[checkmark]] C 16329 DC 5591 = H.P. 193  
Too thin & poor  
Probably F.

[[checkmark]] C 16340 DC 6495 = H.P. 2292  
A Pec.  
Not like tau ^[[9]] Erid. for 4028-31 is not very prominent. The zeta Cap.  
line on the other side of H delta is the strongest line.

[[checkmark]] C 16352 DC 3231 = H.P. 1044 B3A.  
[[checkmark]] (2) H.P. 1028 = DC 3176

A5F.

Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 102 [[/preprinted]]

April 23, 1906.

[[checkmark]] C 16373 DC 3402 = H.P. 1109  
A. K double. May be focus. Other stars too poor.

[[checkmark]] C 16379 DC 5591 = H.P. 1931  
Composite. K > H, yet solar lines are very faint.

[[checkmark]] C 16388 zeta Urs. Maj.  
K hazy.

[[checkmark]] C 16395 zeta Urs. Maj.  
Lines narrow.

[[checkmark]] C 16404 zeta Urs. Maj.  
K single.

[[checkmark]] C 16408 zeta Urs.  
Too dense.

[[end page]]  
[[start page]]

[[preprinted]] 103 [[/preprinted]]

April 23, 1906

[[checkmark]] C 16414 zeta Urs.  
K a little wide.

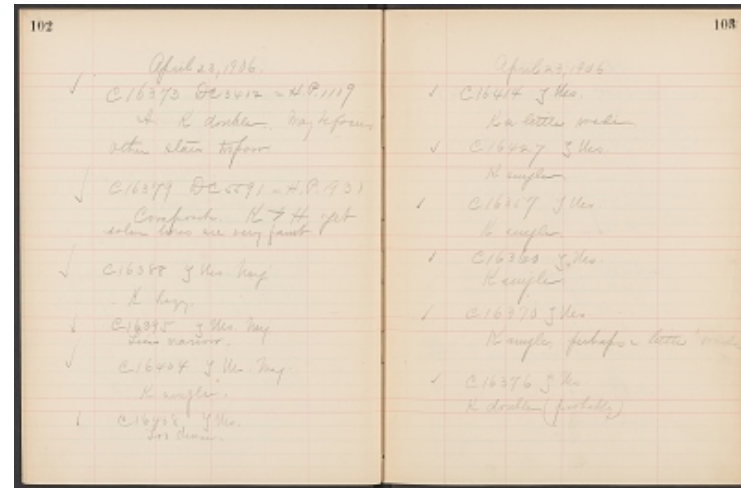
[[checkmark]] C 16427 zeta Urs.  
K single

[[checkmark]] C 16357 zeta Urs.  
K single.

[[checkmark]] C 16360 zeta Urs.  
K single

[[checkmark]] C 16370 zeta Urs.  
K single, perhaps a little wide.

[[checkmark]] C 16376 zeta Urs.  
K double (probably)



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 104 [[/preprinted]]

April 23, 1906

[[checkmark]] C 16377 DC 2731 = H.P. 859

A

[[checkmark]] (2) DC 2710 = H.P. 847

Probably B5A

Focus poor.

[[checkmark]] C 16384 zeta Urs.

K narrow & single

[[checkmark]] C 16436 zeta Urs.

K single

[[checkmark]] C 16456 zeta Urs.

K single

[[checkmark]] C 16459 DC 4282 = H.P. 1436

F

[[checkmark]] (2) DC 4277 = H.P. 1434

G5K

[[checkmark]] (3) DC 4365

F5G

[[end page]]

[[start page]]

[[preprinted]] 105 [[/preprinted]]

April 23, 1906.

[[checkmark]] C 16166 DC 885 = H.P. 248

G

[[checkmark]] (2) DC 919 = H.P. 259

B8 or 9A

Near edge.

[[checkmark]] C 16185 DC 3733 = H.P. 1245

B8A

Focus poor.

[[checkmark]] C 16210 DC 103 = H.P. 40

A2F

[[checkmark]] (2) DC 57 = H.P. 22

B3A

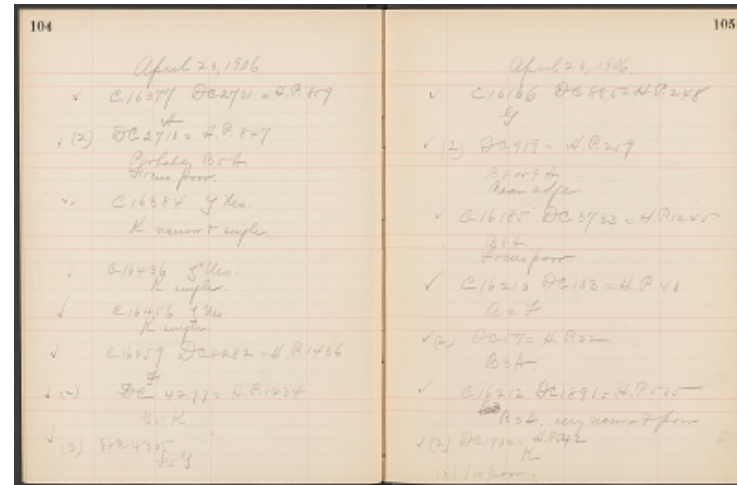
[[checkmark]] C 16212 DC 1891 = H.P. 535

B3A. very narrow & poor

[[checkmark]] (2) DC 1902 = H.P. 542

K

(3) Too poor



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 106 [[/preprinted]]

April 23, 1906

[[checkmark]] C 16217 DC 9969 = H.P. 4051  
A

[[checkmark]] C 16219 DC 538 = H.P. 161  
B9A.

[[checkmark]] C 16227 DC 723 = H.P. 209  
A2F

C 16249 Not identified

[[checkmark]] C 16258 DC 935 = H.P. 264  
Too poor  
B9A or A

C 16262 Not ident.

C 16268 Not enough on plate to classify.  
[[checkmark]] (2) DC 603 = H.P. 178  
A3F? Too poor  
[[checkmark]] (3) DC 646 = H.P. 196  
K

[[end page]]  
[[start page]]

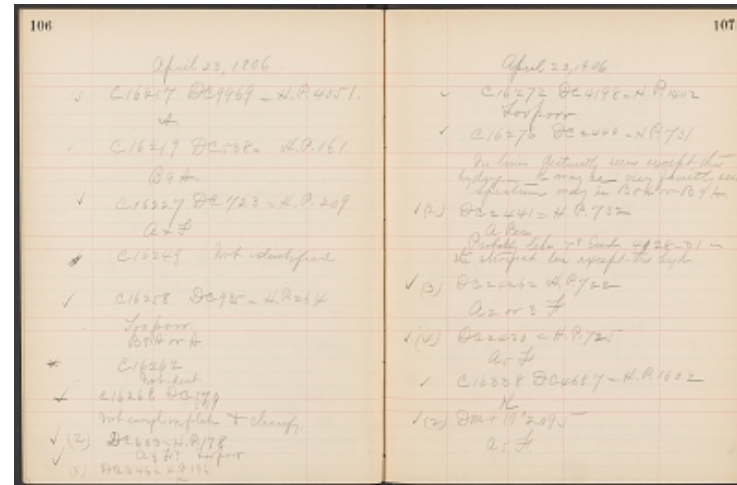
[[preprinted]] 107 [[/preprinted]]

April 23, 1906

[[checkmark]] C 16272 DC 4198 = H.P. 1402  
Too poor

[[checkmark]] C 16276 DC 2440 = H.P. 731  
No lines distinctly seen except the hydrogen. K may be very faintly seen.  
Spectrum may be B8A or B9A  
[[checkmark]] (2) DC 2441 = H.P. 732  
A Pec.  
probably like tau <sup>9</sup> Erid. 4028-31 the strongest line except the hyd.  
[[checkmark]] (3) DC 2426 = H.P. 722\A2 or 3F.  
[[checkmark]] (4) DC 2430 = H.P. 725  
A5F

[[checkmark]] C 16338 DC 4687 = H.P. 1602  
K  
[[checkmark]] (2) DM +19 degrees 2095  
A5F.





[[preprinted]] 108 [[/preprinted]]

April 23, 1906.

C 16363, 16364, 16365  
Quality 1. Too poor

[[checkmark]] C 16360 DC 3041 = H.P. 981  
A.

[[checkmark]] C 16380 DC 5976 = H.P. 2052  
Probably B3A  
Focus poor.

[[checkmark]] C 16389 DC 3425 = H.P. 1116  
A2F

[[checkmark]] C 16394 DC 2993 = H.P. 959  
B2A.  
(2) DC 2997 = H.P. 960.  
Not enough on plate  
[[checkmark]] (3) DC 2966 = H.P. 951  
K

[[end page]]  
[[start page]]

[[preprinted]] 109 [[/preprinted]]

April 23, 1906.

[[checkmark]] C 16396 DC 3543 = H.P. 1163  
[[strikethrough]] B3A [[/strikethrough]] B2A  
[[checkmark]] (2) DC 3507 = H.P. 1153  
B3A.  
[[checkmark]] (3) DC 3503 = H.P. 1147  
A3F.

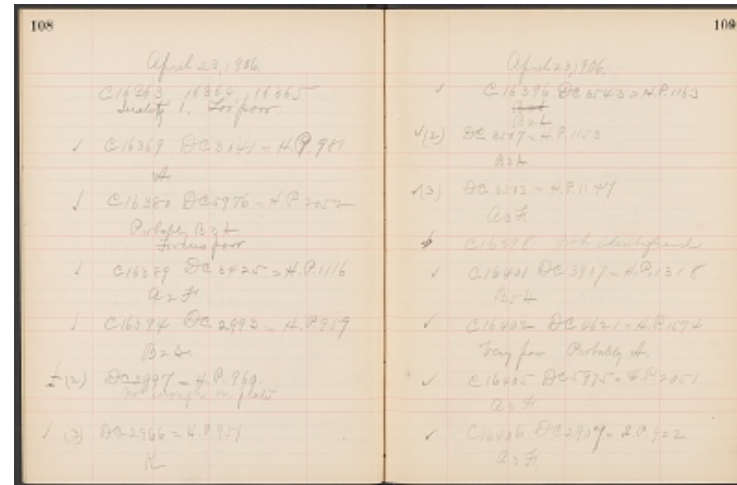
16398 Not identified.

[[checkmark]] C 16401 DC 3907 = H.P. 1318  
B5A

[[checkmark]] C 16402 DC 4621 = H.P. 1574  
Very poor. Probably A.

[[checkmark]] C 16405 DC 5975 = H.P. 2051  
A3F

[[checkmark]] C 16406 DC 2907 = H.P. 922  
A3F.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 114 [[/preprinted]]

May 2, 1906

X 11059 A.G.C. 20463 beta Lupi  
Lines well defined

X 11060 A.G.C. 21638 pi Scorpii  
Lines a little hazy.

X 11061 pi Scorpii  
Lines double but focus too poor to see all lines double.

X 11062 mu<sup>[[1]]</sup> Scorpii  
Lines very widely double. Brighter comp. to violet

X 11063 zeta Centauri  
Lines probably single  
AGC 18859  
H beta, H gamma, H delta & H zeta bright. Traces of other bright lines.  
2 exposures on the plate, one having wider images than the other. On  
the wider images, the spectrum looks like B3A. On the narrow image,  
there are traces of other bright lines.

[[end page]]  
[[start page]]

[[preprinted]] 115 [[/preprinted]]

May 2, 1906

X 11064 A.G.C. 21638 pi Scorpii  
Lines double. Ft. to red.

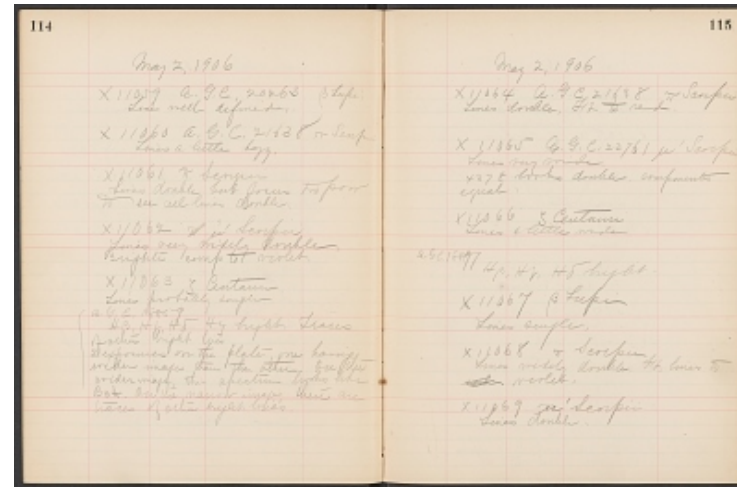
X 11065 A.G.C. 22761 mu<sup>[[1]]</sup> Scorpii  
Lines very wide.  
4378 looks double, components equal.

X 11066 zeta Centauri  
Lines a little wide.  
A.G.C. 18897  
H beta, H gamma, H delta bright.

X 11067 beta Lupi  
Lines single.

X 11068 pi Scorpii  
Lines widely double. Ft lines to ~~red~~  
violet.

X 11069 mu<sup>[[1]]</sup> Scorpii  
Lines double.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 120 [[/preprinted]]

May 2, 1906.

[[checkmark]] X 16959 S.M.P. 7035, A.G.C. 27600  
K? Very poor

X 10960 No S.M.P. no. on cover

[[checkmark]] (1) K A.G.C. 18568, S.M.P. 4612

[[checkmark]] (2) Mb A.G.C. 18567

[[checkmark]] (3) A.G.C. 18647, A3 or 5F

[[checkmark]] X 10961 S.M.P. 5141, A.G.C. 20509

[[checkmark]] (1) A Pec. like tau^[[9]] Erid.

Hydrogen & 4128-31 are the only lines distinctly seen.

[[checkmark]] (2) K, A.G.C. 20444

[[checkmark]] (3) Mb, A.G.C. 20429

[[checkmark]] X 10962

[[checkmark]] (2) K? S.M.P. 5759, A.G.C. 22658

Repeat

[[checkmark]] (1) A.G.C. 22663 B9A or A. Too poor.

X 10963 S.M.P. 6450, A.G.C. 25003

Repeat

(1) K? Too poor

[[checkmark]] (2) A.G.C. 24979,  
B9A?

[[end page]]

[[start page]]

[[preprinted]] 121 [[/preprinted]]

May 2, 1906

[[checkmark]] X 10964 S.M.P. 7067, A.G.C. 27879

Repeat A?

(1) Only the hydrogen lines seen.

[[checkmark]] (2) A2F?, A.G.C. 27909 = S.M.P. 70772

[[checkmark]] X 10968 S.M.P. 5934, A.G.C. 23257

A? Too poor

[[checkmark]] X 10969 S.M.P. 6648, A.G.C. 25870

~~[[checkmark]] 2nd type Too poor~~

Repeat K

[[checkmark]] X 10970 ~~[[checkmark]] No name Too poor - 2nd type~~

~~[[checkmark]] S.M.P. 7111, A.G.C. 28141~~

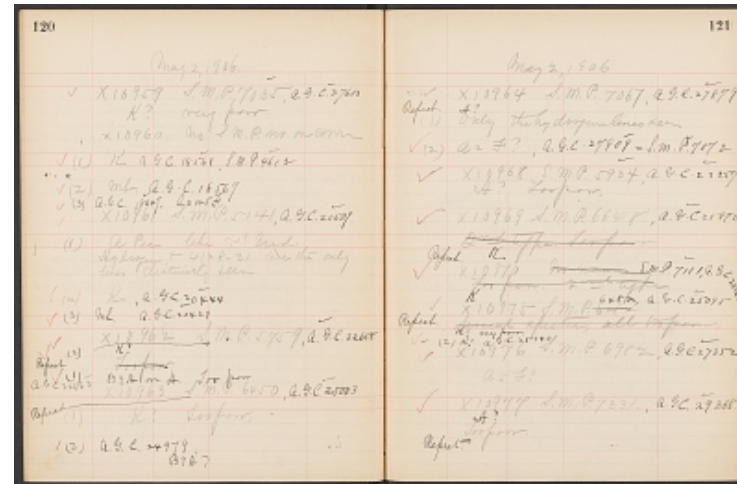
K

[[checkmark]] X 10975 S.M.P. ~~[[checkmark]] 6484~~

6482, A.G.C. 25095

K very poor.

[[checkmark]] (2) K? A.G.C. 25140



[[checkmark]] X 10976 S.M.P. 6982, A.G.C. 27352  
A5F?

[[checkmark]] X 10977 S.M.P. 7831, A.G.C. 29368  
A?  
Too poor.  
Repeat

Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 124 [[/preprinted]]

May 2, 1906

[[checkmark]] X 10992 S.M.P. 6850, A.G.C. 26741  
[[checkmark]] (1) only the hyd. lines seen.  
[[checkmark]] (2) A3F?, A.G.C. ~~26717~~ ~~26875~~  
[[checkmark]] (3) A.G.C. 26717 G

X 10993 S.M.P. 7264, A.G.C. 29048  
[[checkmark]] (1) F5G? Too poor  
[[checkmark]] (2) F5G? Too poor A.G.C. 29075  
[[checkmark]] (3) A.G.C. 29123 K?

X 10995 S.M.P. 5481, A.G.C. 21663  
2nd type  
[[checkmark]] Numerous images, all narrow & dense.

[[checkmark]] X 10996 S.M.P. 5972, A.G.C. 23362  
1st type  
Too poor

[[checkmark]] X 10997 S.M.P. 6703, A.G.C. 26091  
Probably 2nd type  
repeat. Too poor

[[checkmark]] X 10998 S.M.P. 7170, A.G.C. {28519 {28520  
A.G.C. 28519 A?  
A.G.C. 28520 B9A?  
Two spectra near together (may be same star) both show only the hyd.  
lines.

[[end page]]  
[[start page]]

[[preprinted]] 125 [[/preprinted]]

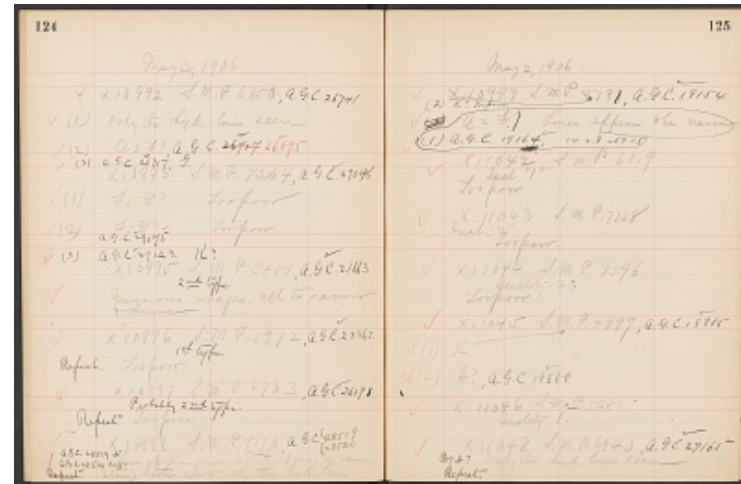
May 2, 1906

[[checkmark]] X 10999 A.G.C. 19154  
[[checkmark]] (1) A.G.C. 19164 A2F ~~?~~ ~~[[/strikethrough]]~~  
Lines appear to be narrow. 14 2.8 -19 15  
[[checkmark]] (2) K? Too poor

[[checkmark]] X 11042 S.M.P. 6919  
Qual. "1"  
Too poor

[[checkmark]] X 11043 S.M.P. 7228  
Qual. "2"  
Too poor

[[checkmark]] X 11044 S.M.P. 1596



Quality "2"  
Too poor

[[checkmark]] X 11045  
[[checkmark]] (1) S.M.P. 4999, A.G.C. 19985  
K  
[[checkmark]] (2) A?, A.G.C. 19988

[[checkmark]] X 11046 S.M.P. 5681  
Quality "1"

[[checkmark]] X 11048 S.M.P. 6940, A.G.C. 27165  
B9A? Only the hyd. lines seen.  
Repeat.

Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01



[[preprinted]] 130 [[/preprinted]]

May 3, 1906

[[checkmark]] X 1102 ~~[[/checkmark]]~~ 6 ~~[[/checkmark]]~~ 7 S.M.P.  
~~[[/checkmark]]~~ 7235 ~~[[/checkmark]]~~ 4943, A.G.C. 19746  
Too poor

[[checkmark]] X 11028 S.M.P. 5354, A.G.C. 21269  
K

[[checkmark]] X 11029 S.M.P. 5875, A.G.C. 23035  
Only hydrogen seen  
Repeat B9A

[[checkmark]] X 11030 S.M.P. 6578, A.G.C. 25274  
Repeat  
(1) A2F?  
[[checkmark]] (2) ~~[[/checkmark]]~~ A? ~~[[/checkmark]]~~ A.G.C.  
25305/23506 Two spectra seen. Both appear to be A or B9A. Only  
hydrogen seen.  
[[checkmark]] (3) A2F? A.G.C. 25155

[[checkmark]] X 11031 S.M.P. 7005, A.G.C. 27463  
K or K5M

[[checkmark]] X 11032 S.M.P. 7347, A.G.C. 29495  
K? Too poor.

[[end page]]  
[[start page]]

[[preprinted]] 131 [[/preprinted]]

May 3, 1906

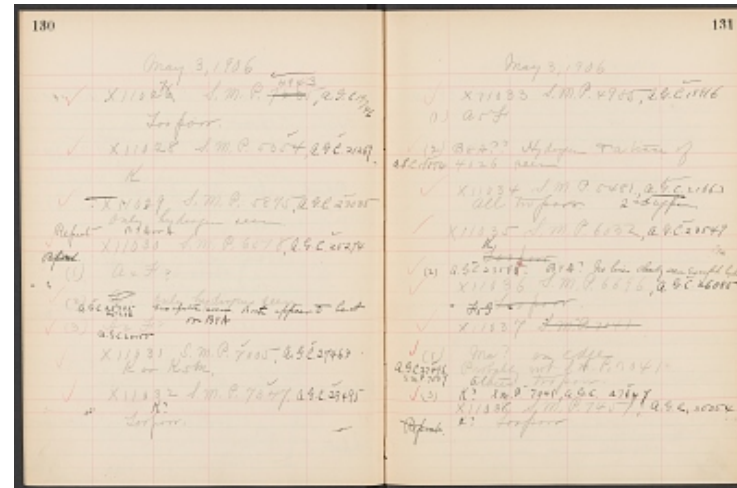
[[checkmark]] X 11033 S.M.P. 4985, A.G.C. 19916  
(1) A5F  
[[checkmark]] (2) B8A?? Hydrogen & a trace of 4026 seen. A.G.C.  
19874

[[checkmark]] X 11034 S.M.P. 5481, A.G.C. 21663  
All too poor. 2nd type

[[checkmark]] X 11035 S.M.P. 6032, A.G.C. 23549  
K ~~[[/checkmark]]~~ too poor ~~[[/checkmark]]~~  
[[checkmark]] (2) A.G.C. 2358 ~~[[/checkmark]]~~ 5 ~~[[/checkmark]]~~ 4.  
B8A? No lines clearly seen except hydrogen.

[[checkmark]] X 11036 S.M.P., A.G.C 26085  
F5G ~~[[/checkmark]]~~ too poor ~~[[/checkmark]]~~

[[checkmark]] X 11037 ~~[[/checkmark]]~~ S.M.P. 7041 ~~[[/checkmark]]~~  
[[checkmark]] (1) Ma? on edge



A.G.C. 27496 S.M.P. 7609 Probably not S.M.P. 7041. Others too poor.  
[[checkmark]] (3) K? S.M.P. 7451, A.G.C. 27647

[[checkmark]] X 11038 S.M.P. 7451, A.G.C. 30054  
K? Too poor ~~repeat~~

Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 132 [[/preprinted]]

May 3, 1906

[[checkmark]] X 11039 S.M.P. 5065, A.G.C. 20208  
A?

[[checkmark]] X 11040 S.M.P. 5629, A.G.C. 22208\A?  
Only hydrogen seen

[[checkmark]] X 11041 S.M.P. 6291  
Quality "1"

[[end page]]  
[[start page]]

[[preprinted]] 133 [[/preprinted]]

[[underlined]] Saturday, May 12, 1906 [[/underlined]]

[[checkmark]] X 11000 S.M.P. 5331, A.G.C. 21177

Too poor - 2 spectra near together

[[checkmark]] (2) A.G.C. 21151 1st type  
Brightest one is A5F?

[[checkmark]] X 11001 S.M.P. 5968

(1) F5G

[[checkmark]] (2) A.G.C. 23337 = DM -33 degrees 11875

H beta bright. Marked by W.P.F.

Sp. too poor to determine class. 4471 & perhaps 4026 are seen.

[[checkmark]] (3) A.G.C. 23352

Too ft. Orion type since 4471 is seen.

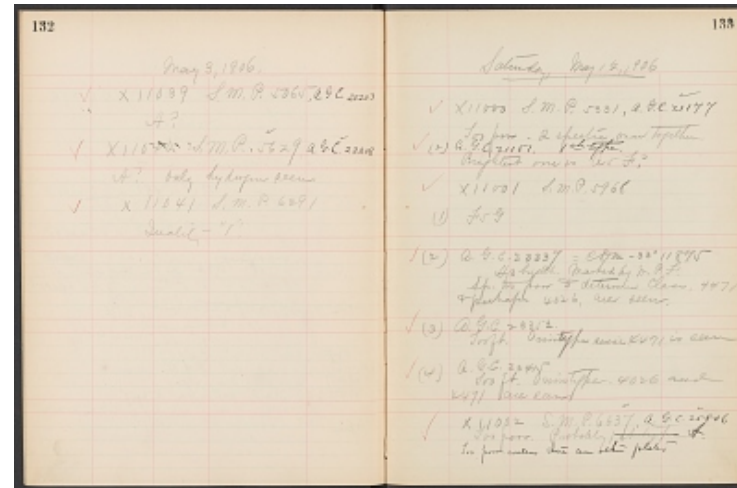
[[checkmark]] (4) A.G.C. 23415

Too ft. Orion type. 4026 and 4471 are seen.

[[checkmark]] X 11002 S.M.P. 6637, A.G.C. 25806

Too poor. Probably ~~1st type~~ A.

Too poor unless there are other plates.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 136 [[/preprinted]]

May 21, 1906

C 16311 (cont.)

[[checkmark]] (3) DC 2699 Faint  
Probably A2F. Lines very wide and hazy.

[[checkmark]] C 16313 DC 4453 = H.P. 1509  
Too poor to class with certainty. A2F probably.

[[checkmark]] C 16343 DC 2417 = H.P. 719  
A2F  
Other 2 stars on plate too poor.

[[checkmark]] C 16349 DC 4930 = H.P. 1675  
A2F

[[checkmark]] C 16468 zeta Urs. Maj.  
K single

[[checkmark]] C 16471 zeta Urs. Maj.  
K double. May be instrumental

[[checkmark]] C 16475 zeta Urs. Maj.  
K double.

[[checkmark]] C 16480 zeta Urs. Maj.  
Lines wide. Is the dispersion sufficient to show K clearly double?

[[end page]]  
[[start page]]

[[preprinted]] 137 [[/preprinted]]

May 21, 1906

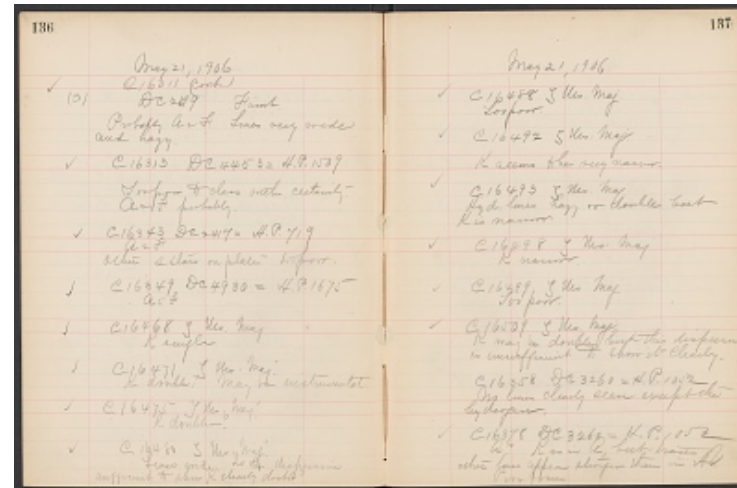
[[checkmark]] C 16488 zeta Urs. Maj.  
Too poor.

[[checkmark]] C 16492 zeta Urs. Maj.  
K seems to be very narrow.

[[checkmark]] C 16493 zeta Urs. Maj.  
Hyd. lines hazy or double but K is narrow.

[[checkmark]] C 16498 zeta Urs. Maj.  
K narrow.

[[checkmark]] C 16499 zeta Urs. Maj.  
Too poor.



C 16509 zeta Urs. Maj.  
K may be double but this dispersion is insufficient to show it clearly.

C 16358 DC 3260 = H.P. 1052  
No lines clearly seen except the hydrogen.

[[checkmark]] C 16378 DC 3260 = H.P. 1052  
A? K as in A, but traces of other lines appear stronger than in A.  
Poor focus.

Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 138 [[/preprinted]]

May 21, 1906.

[[checkmark]] C 16386 DC 6151 = H.P. 2122  
Too poor. Quality - 2.

C 16393 DC 5479 = H.P. 1886  
[[checkmark]] Too narrow & dense. K faintly seen. May be B9A or A.

[[checkmark]] C 16397 DC 5167 = H.P. 1742  
A3F  
[[checkmark]] (2) DC 5164 = +30 degrees 1898  
A5F

[[checkmark]] C 16417 DC 4196 = H.P. 1401  
probably B9A.  
4026 = K  
[[checkmark]] (2) too poor DC ~~1522~~  
4166  
Probably Orion type.

[[checkmark]] C 16418 DC 4126 = H.P. 1378  
B8A. Focus poor.

[[checkmark]] C 16429 DC 4170 = H.P. 1392  
A  
[[checkmark]] (2) DC 4203 = H.P. 1404  
F5G.

[[end page]]  
[[start page]]

[[preprinted]] 139 [[/preprinted]]

May 21, 1906.

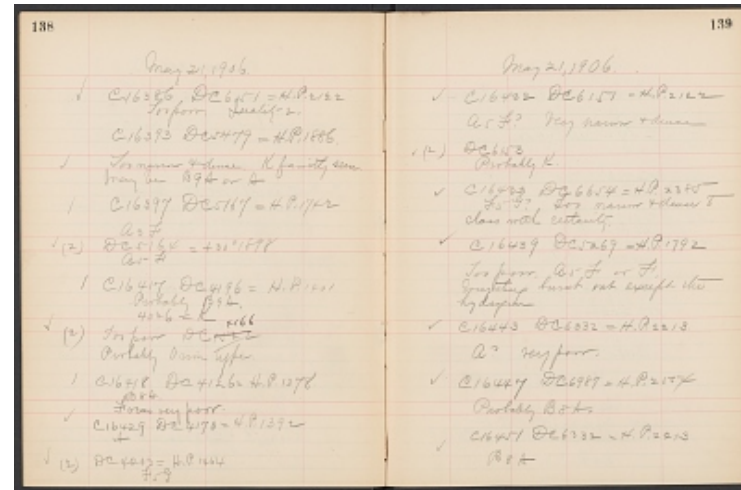
[[checkmark]] C 16402 DC 6151 = H.P. 2122  
A5F? Very narrow & dense  
[[checkmark]] (2) DC 6153  
Probably K.

[[checkmark]] C 16433 DC 6654 = H.P. 2385  
F5G? Too narrow & dense to class with certainty.

[[checkmark]] C 16439 DC 5269 = H.P. 1792  
Too poor. A5F or F. Everything burnt out except the hydrogen.

[[checkmark]] C 16443 DC 6332 = H.P. 2213  
A? Very poor.

[[checkmark]] C 16447 DC 6987 = H.P. 2554  
Probably B8A.



[[checkmark]] C 16451 DC 6332 = H.P. 2213  
B8A.

Project PHaEDRA - Annie Jump Cannon 15  
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Extracted Aug-29-2022 12:07:01

[[preprinted]] 140 [[/preprinted]]

May 21, 1906

[[checkmark]] C 16458 DC 4198 = H.P. 1402  
F5G

[[checkmark]] (2) DC 4192 = H.P. 1400  
F.

[[checkmark]] (3) DC 4189  
F5G

[[checkmark]] (4) DC 4177  
A5F or F

[[checkmark]] (5) DC 4174  
A2F

[[checkmark]] C 16464 zeta Urs. Maj.  
K single

~~DC 4089~~

[[checkmark]] C 16318 DC 4089 = H.P. 1367  
A2F

[[checkmark]] C 16434 DC 6950 = H.P. 2437  
A. Very poor.

[[checkmark]] C 16354 DC 3330 = H.P. 1079.  
A2F.

[[end page]]  
[[start page]]

[[preprinted]] 141 [[/preprinted]]

May 21, 1906

[[checkmark]] C 16209 DC 65 = H.P. 25  
A5F. hazy, perhaps because near edge of plate.

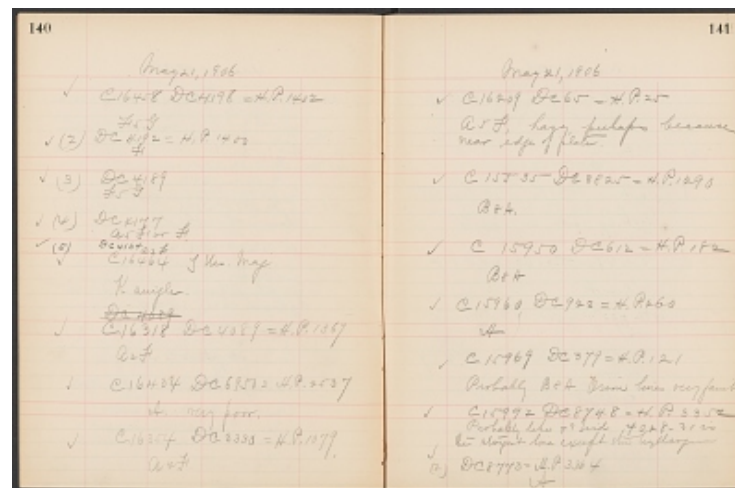
[[checkmark]] C 15535 DC 3825 = H.P. 1290  
B8A.

[[checkmark]] C 15950 DC 612 = H.P. 182  
B8A.

[[checkmark]] C 15960 DC 922 = H.P. 260  
A.

[[checkmark]] C 15969 DC 379 = H.P. 121  
probably B8A. Orion lines very faint.

[[checkmark]] C 15992 DC 8748 = H.P. 3352  
Probably like tau <sup>9</sup> Erid. 4028-31 is the strongest line except the





hydrogen.  
[[checkmark]] (2) DC 8773 = H.P. 3364  
A.

Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 144 [[/preprinted]]

May 21, 1906.

[[checkmark]] C 16244 DC 798 = H.P. 228  
F5G

[[checkmark]] (2) DC 745 = H.P. 214  
K

[[checkmark]] C 16012 DC 2986 = H.P. 954  
Looks as if the telescope moved. Too poor to classify.

[[checkmark]] C 16019 DC 1958 = H.P. 557  
Too poor.

[[checkmark]] C 16086 DC 2618 = H.P. 809  
A. Very poor.

[[checkmark]] C 14918 epsilon Lyrae  
The preceding star has K line a little fainter but both may be classed  
A5F.

[[end page]]  
[[staer page]]

[[preprinted]] 145 [[/preprinted]]

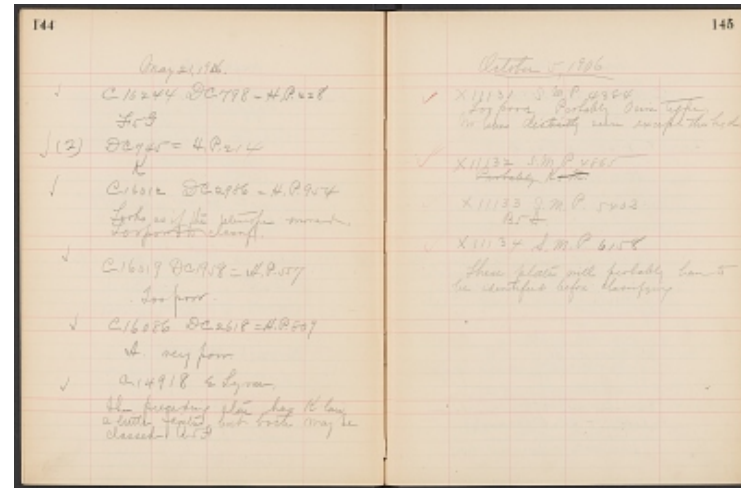
[[underlined]] October 5, 1906 [[/underlined]]

[[checkmark]] X 11131 S.M.P. 4384  
Too poor. Probably Orion type. No lines distinctly seen except the  
hydrogen.

[[checkmark]] X 11132 S.M.P. 4865  
[[strikethrough]] Probably K5M [[/strikethrough]]

[[checkmark]] X 11133 S.M.P. 5403  
B5A

[[checkmark]] X 11134 S.M.P. 6158  
these plates will probably have to be identified before classifying.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 146 [[/preprinted]]

October 5, 1906

[[checkmark]] C 15907

(1) DC 8534 A

[[checkmark]] (2) DC 8549 = H.P. 3256

K

(3) Not enough on plate

(4) Nova Aquilae No. 2

H beta, H gamma, H delta bright, decreasing from H beta. Two faint bright bands bet. H beta and h gamma. This was examined and discovery made by W.P.F. on Aug. 30, 1905

[[checkmark]] C 16424 DC 6164

Probably AF

May be F. Very narrow image.

[[checkmark]] C 16431 DC 5976 = H.P. 2052

Probably Orion type. Very poor. Hydrogen & 4026 seen.

[[checkmark]] C 16440 DC 4732 = H.P. 1623

A2F.

[[end page]]

[[start page]]

[[preprinted]] 147 [[/preprinted]]

October 5, 1906

[[checkmark]] C 16445 DC 4419 = H.P. 1502

A

[[checkmark]] C 16446 DC 4639 = H.P. 1583

A Pec

Probably like tau <sup>^</sup>[[9]] Erid.

[[checkmark]] C 16460 DC 6059 = H.P. 2079

A2F from strength of K lines. Fine lines not well seen.

[[checkmark]] C 16465 DC 3558 = H.P. 1168

A

[[checkmark]] (2) DC 3577

A2F

[[checkmark]] C 16466 DC 4196 = H.P. 1401

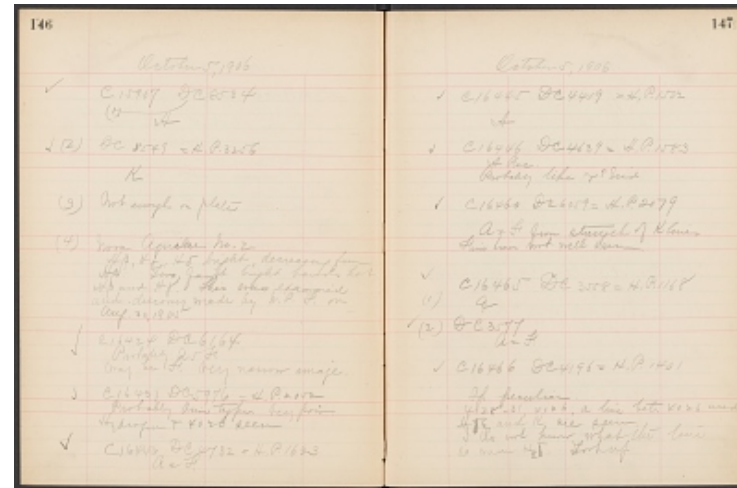
Sp. peculiar

4128-31, 4126, a line bet. 4026 and H ~~gamma~~

~~epsilon~~ and K are seen.

I do not know what the line is near H ~~epsilon~~ ~~delta~~

~~epsilon~~. Look up.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 150 [[/preprinted]]

October 5, 1906

[[checkmark]] C 16531 DC 7872, 7873 = H.P. 3028, 29

F

[[checkmark]] (2) DC 7906 = -8 degrees 4558  
B8A?

[[checkmark]] C 16544 DC 7117 = H.P. +5 degrees 3072  
A

[[checkmark]] C 16545 DC 7479 = H.P. 2857  
Too dense. Probably A

[[checkmark]] C 16553 DC 7302 = H.P. 2757  
A slightly Pec.  
Probably like alpha Doradus

[[checkmark]] C 16554 DC 9193 = H.P. 3608  
K

C 16555 Too poor

[[end page]]  
[[start page]]

[[preprinted]] 151 [[/preprinted]]

October 5, 1906

[[checkmark]] C 16558 DC 7140 = H.P. 2646  
A2F

[[checkmark]] (2) DC 7131 = H.P. 2638  
Lines burned out  
Probably Orion type.

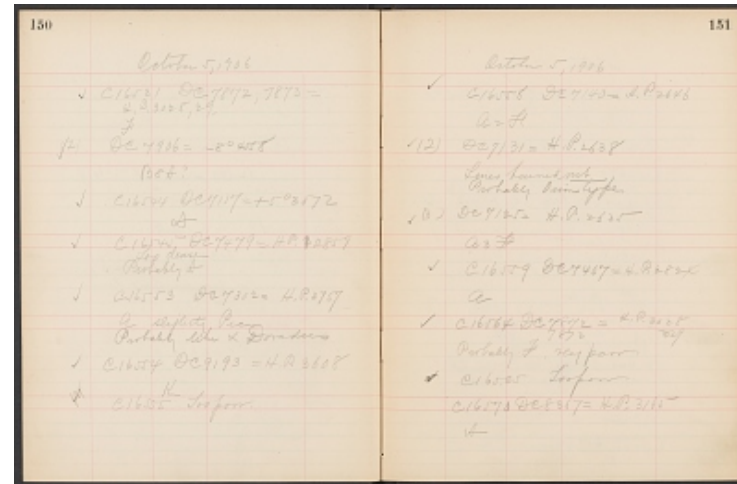
[[checkmark]] (3) DC 7125 = H.P. 2635  
A3F

[[checkmark]] C 16559 DC 7407 = H.P. 2824  
A

[[checkmark]] C 16564 DC 7872/7873 = H.P. 3028/3029  
Probably F. Very poor

C 16565 Too poor

C 16570 DC 8367 = H.P. 3165  
A



[[preprinted]] 152 [[/preprinted]]

October 5, 1906

[[checkmark]] C 16571 = DC 8500 or H.P. 3237

Qual. 2  
K or K5M

[[checkmark]] C 16572 zeta Urs. Maj.

[[checkmark]] C 16575 DC 7173

B3A probably. The Orion lines are very hazy, but cover states that edge of objective was under dome at close. This may account for pec. of spectrum.

[[checkmark]] C 16579 DC 7302 = H.P. 2757

Pec. sp.  
No lines clearly seen except hyd. & barest trace of K.

[[checkmark]] C 16581 DC 6862 = H.P. 2498

A

[[checkmark]] C 16583 DC 6729 = H.P. 2425

F.

[[end page]]

[[start page]]

[[preprinted]] 153 [[/preprinted]]

October 5, 1906

[[checkmark]] C 16584 DC 7239 = H.P. 2714

B3A

[[checkmark]] C 16587 DC 7053/7054 = H.P. 2590/2591

F

[[checkmark]] (2) DC 7063 = H.P. 2597

K

[[checkmark]] C 16589 DC 7150 = H.P. 2655

K

[[checkmark]] C 16590 DC 7187 = H.P. 2577

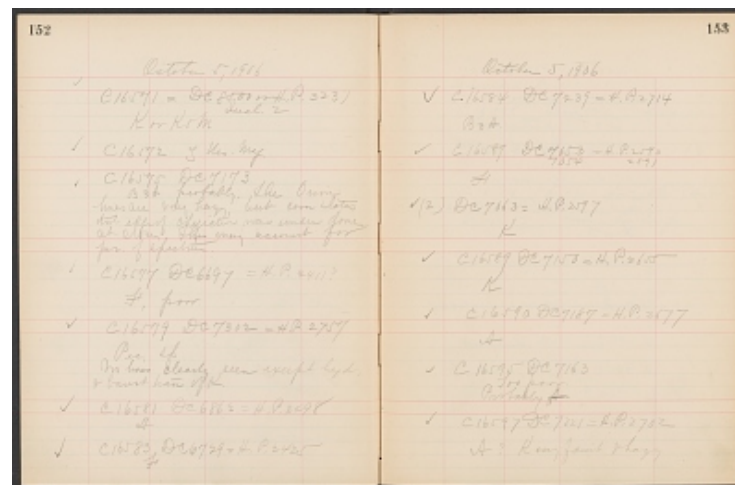
A

[[checkmark]] C 16595 DC 7163

Too poor Probably A

[[checkmark]] C 16597 DC 7221 = H.P. 2702

A? K very faint & hazy.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 154 [[/preprinted]]

October 5, 1906

[[checkmark]] C 16601 DC 7243 = H.P. 2716  
A3F? Very poor

[[checkmark]] C 16603 DC 9193 = H.P. 3608  
K. Very poor.

[[checkmark]] C 16605 DC 7403 = H.P. 2821  
F5G.

[[checkmark]] C 16125 DC 10486 = H.P. 4262  
A

[[checkmark]] (2) A3F = DC 15 = -18 degrees 6428

[[checkmark]] C 16237 Not identified

[[checkmark]] C 16254 DC 595 = H.P. 176  
A2F.

[[checkmark]] C 16356 DC 1958 = H.P. 557  
A2F.

[[end page]]  
[[start page]]

[[preprinted]] 155 [[/preprinted]]

October 15, 1906

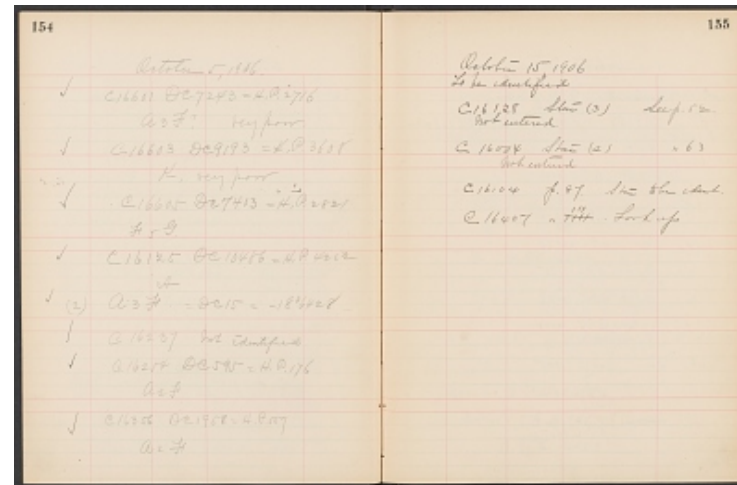
To be identified

C 16126 Star (3) See p. 52 Not entered

C 16004 Star (2) "[[ditto for p.]] 63  
Not entered

C 16104 p. 87 Star to be ident.

C 16407 "[[ditto for p.]] ~~1111~~ ^[[111]]  
Look up.





[[preprinted]] 156 [[/preprinted]]

[[underlined]] October 22, 1906 [[/underlined]]

Examination of X Plates

[[checkmark]] (1) X 11151 S.M.P. 3255, A.G.C. 13942  
A5F

[[checkmark]] (2) A3F, A.G.C. 13945

[[checkmark]] (3) B3A, A.G.C. 13850

[[checkmark]] (4) K, A.G.C. 13930

[[checkmark]] (5) B8A, A.G.C. 13975

[[checkmark]] (6) Mb, A.G.C. 14039

[[checkmark]] (7) B3A, A.G.C. 14084

[[checkmark]] (8) A, A.G.C. 13805

[[checkmark]] (9) F5G, A.G.C. 14109

[[checkmark]] (10) ~~F5G~~ Too faint.  
Probably K  
A.G.C. 14072

[[end page]]  
[[start page]]

[[preprinted]] 157 [[/preprinted]]

October 22, 1906

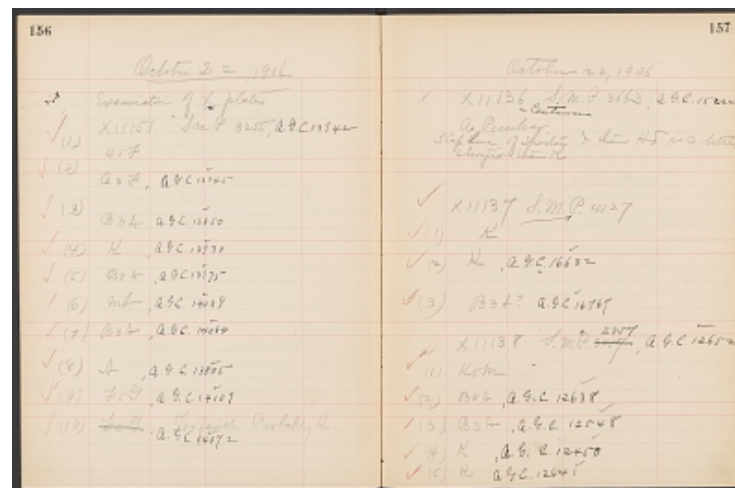
[[checkmark]] X 1136 S.M.P. 3663, A.G.C. 15224  
-Centauri  
A Peculiar  
zeta Cap. line of shorter lambda than H delta is a little stronger than K.

[[checkmark]] (1) X 11137 S.M.P. 4127  
K

[[checkmark]] (2) K, A.G.C. 16632

[[checkmark]] (3) B3A? A.G.C. 16767

[[checkmark]] (1) X 11138 S.M.P. ~~3457~~  
2857, A.G.C. 12652  
K5M



[[checkmark]] (2) B8A, A.G.C. 12638

[[checkmark]] (3) B3A, A.G.C. 12548

[[checkmark]] (4) K, A.G.C. 12450

[[checkmark]] (5) K, A.G.C. 12641

Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 158 [[/preprinted]]

October 22, 1906

X 11180

[[checkmark]] (1) S.M.P. 48 ~~[[/strickethrough]]~~ 6 ~~[[/strickethrough]]~~ 77,  
A.G.C. 194 ~~[[/strickethrough]]~~ 6 ~~[[/strickethrough]]~~ 93  
K5M

[[checkmark]] (2) A.G.C. 19452

A2F

"Lines wide & hazy" W.P.F.

[[checkmark]] (3) A.G.C. 19491

A2F

[[checkmark]] (4) A Pec? Probably like tau <sup>^</sup>[[9]] Erid.

A.G.C. 19403 Line 4128-31 is the only one clearly seen except the  
hydrogen.

[[checkmark]] (5) A.G.C. 19280 S.M.P. 4822

B3A.

[[checkmark]] (6) A.G.C. 19229

B5A

[[checkmark]] (7) A.G.C. 19243, S.M.P. 4815

B5A

[[end page]]

[[start page]]

[[preprinted]] 159 [[/preprinted]]

October 22, 1906

[[checkmark]] X 11136

(1) S.M.P. 2288, A.G.C. 10820

K

[[checkmark]] (2) A5F? A.G.C. 10791

[[checkmark]] (3) A.G.C. 10963 r Puppis

H beta & H gamma bright

Lines very indistinct. Sp. too near edge.

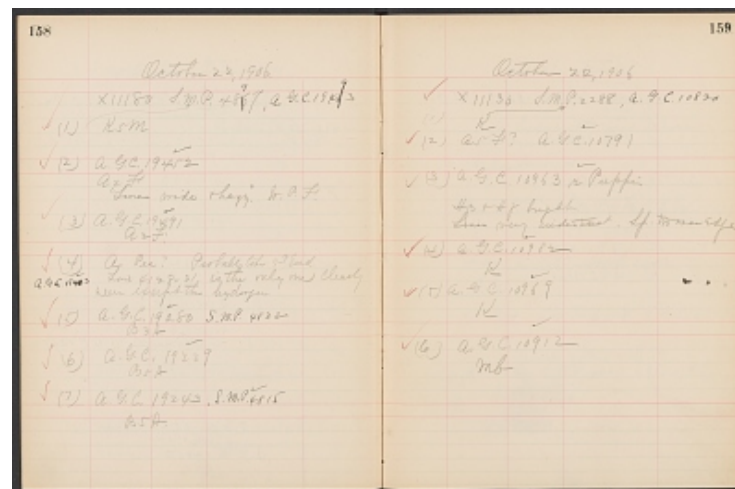
[[checkmark]] (4) A.G.C. 10982

K

[[checkmark]] (5) A.G.C. 10989

K

[[checkmark]] (6) A.G.C. 10912



Mb

Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 164 [[/preprinted]]

Nov. 23, 1906

[[checkmark]] X 11157 S.M.P. 5481, A.G.C. 21663

(1) K

[[checkmark]] (2) K or K5M, A.G.C. 21542

X 11158 S.M.P. 6040 {A.G.C. 23591/92

[[checkmark]] (1) Probably B8A. Focus too poor to see any Orion lines except 4026.

[[checkmark]] (2) Probably A. A.G.C. ~~23592~~ 23588

[[checkmark]] (3) B5A. A.G.C. 23533

[[checkmark]] (4) A.G.C. 23482 G, yet the absorption is more like K. May be composite, but can not tell for sure, as the K band does not show distinctly.

[[checkmark]] (5) A5F. A.G.C. 23532 = S.M.P. 6025

[[checkmark]] (6) A.G.C. 23706 G. This is like (4), only more distinct at violet end. Absorption may be due to character of emulsion.

[[end page]]

[[start page]]

[[preprinted]] 165 [[/preprinted]]

X 11158 (cont)

[[checkmark]] (7) B3A? A.G.C. ~~23687~~ 23643

[[checkmark]] (8) Faint & poor focus. A.G.C. 23432. Probably B as line 4649 appears to be present.

[[checkmark]] X 11159

(1) Mb S.M.P. 6562 = A.G.C. 25428

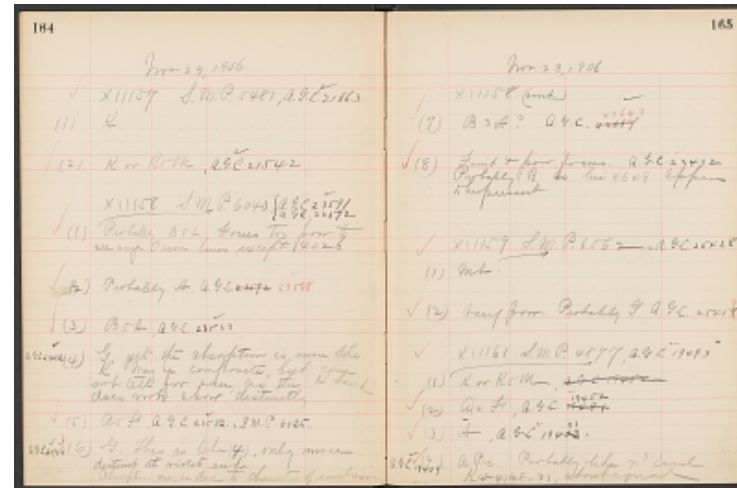
[[checkmark]] (2) Very poor. Probably G. A.G.C. 2545 ~~8~~

[[checkmark]] X 11161

(1) S.M.P. 4877, A.G.C. 19493 K or K5M ~~A.G.C. 19452~~

[[checkmark]] (3) A, A.G.C. 194 ~~03~~ 91

[[checkmark]] (4) A.G.C. 19403 A Pec. Probably like tau <sup>9</sup> Erid. K & 4128-31 about equal.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 166 [[/preprinted]]

Nov. 23, 1906

- [[checkmark]] X 11162 (1) G5K S.M.P. 5552, A.G.C. 21921
- [[checkmark]] (2) F. A.G.C. 21918
- [[checkmark]] (3) A? Focus very poor, A.G.C. 21894
- [[checkmark]] (4) A5F? Very indistinct, A.G.C. 21912
- [[checkmark]] (5) B3A, A.G.C. 21861

[[checkmark]] X 11163 S.M.P. 6355, A.G.C. 24618  
G

- [[checkmark]] X 11164 S.M.P. 6754, A.G.C. 26287
- (1) A2F
- [[checkmark]] (2) A2F, A.G.C. 26147
- [[checkmark]] (3) K, A.G.C. 26275
- [[checkmark]] (4) A2F, A.G.C. 26203

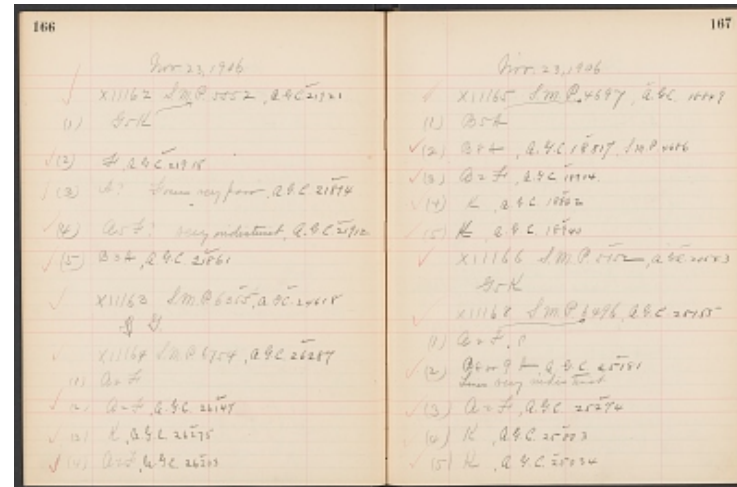
[[end page]]  
[[start page]]

[[preprinted]] 167 [[/preprinted]]

Nov. 23, 1906

- [[checkmark]] X 11165 (1) S.M.P. 4697, A.G.C. 18849 B5A
- [[checkmark]] (2) B8A, A.G.C. 19917, S.M.P. 4686
- [[checkmark]] (3) A2F, A.G.C. 18904.
- [[checkmark]] (4) K, A.G.C. 18862
- [[checkmark]] (5) K, A.G.C. 18940

- [[checkmark]] X 11168 (1) A2F S.M.P. 6496, A.G.C. 25155
- [[checkmark]] (2) B8 or 9A, A.G.C. 25181 Lines very indistinct.
- [[checkmark]] (3) A2F, A.G.C. 25274
- [[checkmark]] (4) K, A.G.C. 25003
- [[checkmark]] (5) K, A.G.C. 25034



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 168 [[/preprinted]]

Nov. 23, 1906

[[checkmark]] X 11169 (1) A. S.M.P. 3640, A.G.C. 15155  
[[checkmark]] (2) A2F. Poor focus, A.G.C. 15145

[[checkmark]] X 11170 S.M.P. 5258, A.G.C. 20818  
(1) A  
[[checkmark]] (2) B9A probably, A.G.C. 20125  
No lines seen except the hydrogen.

[[checkmark]] X 11171 S.M.P. 5958, A.G.C. 23356  
B9A? No lines seen except hydrogen.

X 11172 S.M.P. 5142, A.G.C. 20513  
[[checkmark]] (1) B3A Faint star following, but too faint to classify.  
[[checkmark]] (2) ~~f~~ G5K, A.G.C. 20555  
[[checkmark]] (3) A. A.G.C. 20501

[[end page]]  
[[start page]]

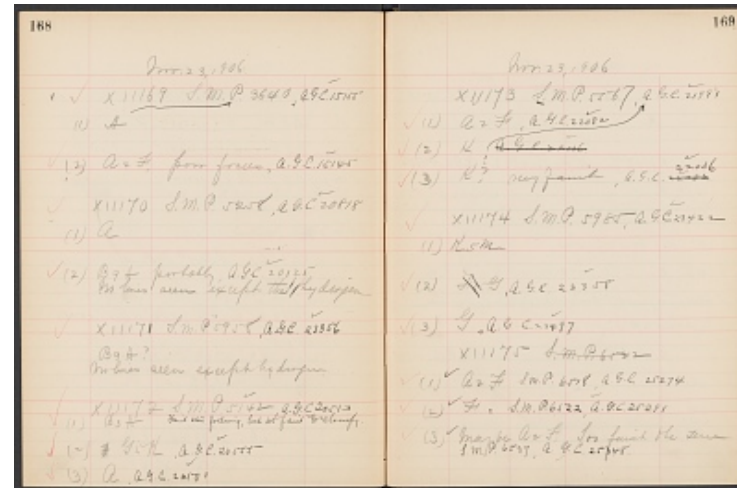
[[preprinted]] 169 [[/preprinted]]

Nov. 23, 1906

X 11173 S.M.P. 5567  
[[checkmark]] (1) A2F, A.G.C. 22082  
[[checkmark]] (2) K ~~A.G.C. 27006~~ A.G.C. 21991  
[[checkmark]] (3) K? Very faint, A.G.C. ~~22082~~  
~~22006~~

[[checkmark]] X 11174 S.M.P. 5985, A.G.C. 23422  
(1) K5M  
[[checkmark]] (2) ~~F5~~ G. A.G.C. 23358  
[[checkmark]] (3) G. A.G.C. 23497

X 11175 ~~S.M.P. 6522~~  
[[checkmark]] (1) A2F, S.M.P. 6518, A.G.C. 25274  
[[checkmark]] (2) F = S.M.P. 6522, A.G.C. 25291  
[[checkmark]] (3) May be A2F. Too faint to be sure. S.M.P. 6537, A.G.C. 25348.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 170 [[/preprinted]]

Nov. 23, 1906

[[checkmark]] X 11176 S.M.P. 6919 = A.G.C. 27053  
B5 or 8A. Very poor focus.

X 11177 (1) K. S.M.P. 3656 = A.G.C. 15206

[[checkmark]] (2) K. A.G.C. 15195

[[checkmark]] (3) A5F, A.G.C. 15140

[[checkmark]] (4) A. A.G.C. 15073

[[checkmark]] (5) Too faint. A.G.C. 15063. Only  
hydrogen lines seen. ~~[[checkmark]] (6) A5F, A.G.C. 15058~~

[[checkmark]] X 11178 (1) A. S.M.P. 4092 = A.G.C. 16570

[[checkmark]] (2) A3F A.G.C. 16451

[[checkmark]] (3) K, A.G.C. 16498

[[end page]]

[[start page]]

[[preprinted]] 171 [[/preprinted]]

X 11179 (1) B3A S.M.P. 4503, A.G.C. 18139

[[checkmark]] (2) B, A.G.C. 18178 (very good). Probably like epsilon Or.

[[checkmark]] (3) A Pec. A.G.C. 17913. K not clearly seen, yet 4028-31  
is quite strong. Silicon star.

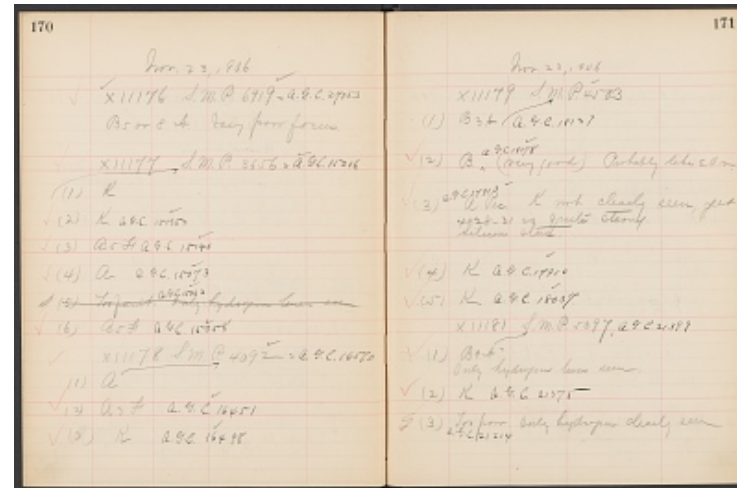
[[checkmark]] (4) K. A.G.C. 17910

[[checkmark]] (5) K. A.G.C. 18037

[[checkmark]] X 11181 (1) B9A? S.M.P. 5397, A.G.C. 21399 Only  
hydrogen lines seen.

[[checkmark]] (2) K. A.G.C. 21375

(3) Too poor. Only hydrogen clearly seen. A.G.C. 21214



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01



[[preprinted]] 172 [[/preprinted]]

Nov. 23, 1906

- [[checkmark]] X 11182 (1) S.M.P. 5838, A.G.C. 22931  
K or K5M  
[[checkmark]] (2) F5G A.G.C. 22956  
[[checkmark]] (3) Very faint. probably K, A.G.C. 22884  
[[checkmark]] (4) A? A.G.C. 22846

X 11183 {S.M.P. 6291/92 ^} 5 3/4 {A.G.C. 24407/08 = 8  
[[checkmark]] (1) K5M S.M.P. 6292 is probably too faint to affect the  
spectrum much, although if it were first type, the broad hydrogen lines  
might show.  
[[checkmark]] (2) B3A? very poor A.G.C. 24446

X 11184  
[[checkmark]] (1) B5A S.M.P. 6783, A.G.C. 26444  
[[checkmark]] (2) G5K, A.G.C. 26476 = S.M.P. 6793

[[end page]]  
[[start page]]

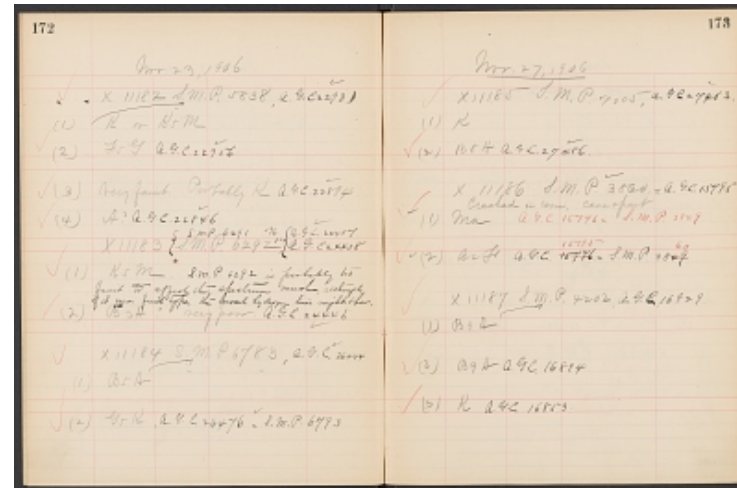
[[preprinted]] 173 [[/preprinted]]

[[underlined]] Nov. 27, 1906 [[/underlined]]

X 11185 S.M.P. 7005, A.G.C. 27463  
[[checkmark]] (1) K  
[[checkmark]] (2) B8A A.G.C. 27486

X 11186 S.M.P. 3860 = A.G.C. 15795  
Cracked in cover, came apart  
[[checkmark]] (1) Ma A.G.C. 15776 = S.M.P. 3849  
[[checkmark]] (2) A2F A.G.C. ~~15776~~ ~~15795~~ = S.M.P. 38 ~~49~~ ~~60~~

X 11187  
[[checkmark]] (1) B9A S.M.P. 4202, A.G.C. 16929  
[[checkmark]] (2) B9A A.G.C. 16894  
[[checkmark]] (3) K A.G.C. 16853



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 174 [[/preprinted]]

Nov. 27, 1906

X 11188 S.M.P. 4630

[[checkmark]] (1) K. A.G.C. 18700

[[checkmark]] (2) K? Too faint. S.M.P. 4630, A.G.C. 15614

X 11189

[[checkmark]] (1) S.M.P. 5044, A.G.C. 20132 B8A

[[checkmark]] (2) A. A.G.C. 20142

X 11190

[[checkmark]] (1) A5F S.M.P. 5401, A.G.C. 21426

[[checkmark]] (2) K. A.G.C. 21470

[[end page]]

[[start page]]

[[preprinted]] 175 [[/preprinted]]

Nov. 27, 1906

X 11192

[[checkmark]] (1) B3A S.M.P. 6399, A.G.C. 24763

[[checkmark]] (2) A2F, A.G.C. 24713

[[strikethrough]] [[checkmark]] (3) [[/strikethrough]]

X 11193

[[checkmark]] (1) A5F S.M.P. 6687 = A.G.C. 26044

Two images running into each other.

[[checkmark]] (2) K? A.G.C. 26134

X 11194

[[checkmark]] (1) A3F S.M.P. 7072 = A.G.C. 27909

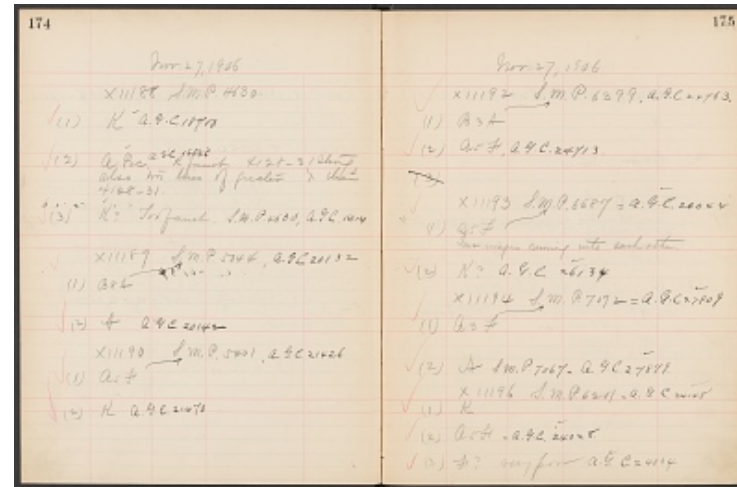
[[checkmark]] (2) A. S.M.P. 7067 = A.G.C. 27879

X 11196

[[checkmark]] (1) K S.M.P. 6201 = A.G.C. 24148

[[checkmark]] (2) A5F = A.G.C. 24028

[[checkmark]] (3) F? Very poor. A.G.C. 24034



Project PHaEDRA - Annie Jump Cannon 15  
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Extracted Aug-29-2022 12:07:01

[[preprinted]] 176 [[/preprinted]]

Nov. 27, 1906

X 11197 S.M.P. 6624, A.G.C. 25748

[[checkmark]] (1) K

[[checkmark]] (2) B8A, A.G.C. 25765

X 11198 S.M.P. 6938

Two spectra superposed. These appear to be two exposures. In one the two spectra are superposed. In the other they are slightly separated.

[[checkmark]] (1) ~~[[/checkmark]] A2 or 3F~~ ~~[[/checkmark]] A2F~~ =

S.M.P. 6939, A.G.C. 27145

[[checkmark]] (2) K. = S.M.P. 6938, A.G.C. 27144.

[[checkmark]] X 11199 S.M.P. 6920, A.G.C. ~~[[/checkmark]] 20743~~

~~[[/checkmark]] 27043~~

A5F

[[end page]]

[[start page]]

[[preprinted]] 177 [[/preprinted]]

[[underlined]] Nov. 30, 1906 [[/underlined]]

X 11 ~~[[/checkmark]] 1~~ ~~[[/checkmark]] 200~~

[[checkmark]] (1) A5F S.M.P. 7166 = A.G.C. 28490

[[checkmark]] (2) K A.G.C. 28488 faint.

[[checkmark]] X 11201 S.M.P. 4483, A.G.C. 18064

A3F probably like theta Micros.

zeta Capricorni line strong.

[[checkmark]] (2) A? Focus poor.

[[checkmark]] (3) A

X 11202 S.M.P. ~~[[/checkmark]] 4483~~ ~~[[/checkmark]] 5003~~, A.G.C. 19980

[[checkmark]] (1) B3A

[[checkmark]] (2) G5K, A.G.C. 20112

[[checkmark]] (3) B3A Off plate from H delta to violet, A.G.C. 20124

[[checkmark]] (4) K, A.G.C. 20164

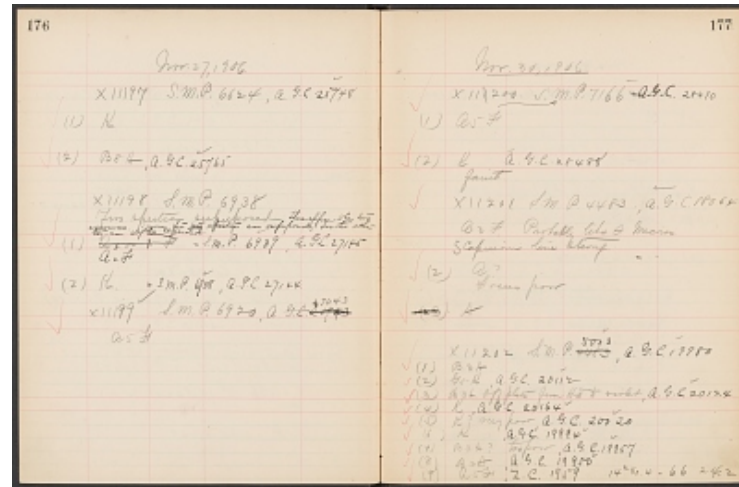
[[checkmark]] (5) K? very poor, A.G.C. 20020

[[checkmark]] (6) K, A.G.C. 19994

[[checkmark]] (7) B3A? Too poor, A.G.C. 19957

[[checkmark]] (8) B3A, A.G.C. 19950

[[checkmark]] (9) A5F, Z.C. 1959 14h 30.4 -66 24.2



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 178 [[/preprinted]]

Nov. ~~2~~ 30, 1906

X 11203 S.M.P. 5415, A.G.C. 21460

[[checkmark]] (1) K

[[checkmark]] (2) B3A? Focus poor. A.G.C. 21691

X 11204

[[checkmark]] (1) A2F S.M.P. 5061, A.G.C. 20189

[[checkmark]] (2) A. A.G.C. 20074

[[checkmark]] X 11206 S.M.P. 5771, A.G.C. 22686

(1) Probably B9A

[[checkmark]] (2) A5F. Probably like delta Normae A.G.C. 22839

[[checkmark]] X 11207 S.M.P. 6416, A.G.C. 24816

(1) Marked "lines double" W.P.F.

Sp. B5A

[[checkmark]] (2) K, A.G.C. 24906

[[checkmark]] (3) K, A.G.C. 24791

[[end page]]

[[start page]]

[[preprinted]] 179 [[/preprinted]]

Nov. 30, 1906

X 11208 S.M.P. 6757, A.G.C. 26311

[[checkmark]] (1) K

[[checkmark]] (2) K, A.G.C. 26355

[[checkmark]] (3) A2F? Thin, A.G.C. 26382

[[checkmark]] (4) Mb. Very thin. Not in A.G.C. Z.C. 19h 517 -45 36 (1875)

[[checkmark]] X 11209 S.M.P. 7041, A.G.C. 27647

[[checkmark]] (1) K5M

[[checkmark]] (2) F5G, A.G.C. 27735

[[checkmark]] (3) G5K, A.G.C. ~~27496~~ 27509

27509

[[checkmark]] (4) ~~K5M~~ Ma, A.G.C.

~~27509~~ 27496

[[checkmark]] X 11210

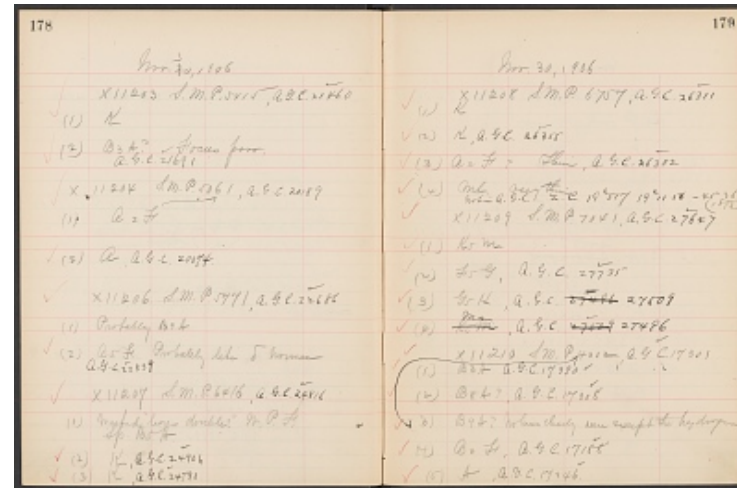
[[checkmark]] (1) B3A, A.G.C. 17390

[[checkmark]] (2) B8A? A.G.C. 17308

[[checkmark]] (3) B9A? S.M.P. 4302, A.G.C. 17301 No lines clearly seen except the hydrogen.

[[checkmark]] (4) A2F, A.G.C. 17188

[[checkmark]] (5) A, A.G.C. 17346



[[preprinted]] 180 [[/preprinted]]

Nov. 30, 1906.

[[checkmark]] X 11224 S.M.P. 6844, A.G.C. 26709

(1) A5F

[[checkmark]] (2) Mb, A.G.C. 26784

[[checkmark]] (3) Mb, A.G.C. 26675

[[checkmark]] X 11269

[[checkmark]] (1) B3A, S.M.P. 6531, A.G.C. 25330 ~~[[strikethrough]]~~

A.G.C. 25358 ~~[[strikethrough]]~~

[[checkmark]] (2) A, A.G.C. 25358

[[checkmark]] (3) A5F, A.G.C. 25259

[[checkmark]] (4) A3F, A.G.C. 25224

[[checkmark]] X 11270 S.M.P. A.G.C. 26987 B8A

[[end page]]

[[start page]]

[[preprinted]] 181 [[/preprinted]]

Nov. 30, 1906

[[checkmark]] X 11271

(1) B9A, S.M.P. 4622, A.G.C. 18587 Focus very poor

[[checkmark]] (2) A, A.G.C. 18688

[[checkmark]] X 11273

(1) Ma, S.M.P. 5572, A.G.C. 21995

[[checkmark]] (2) K, A.G.C. 22003

[[checkmark]] (3) A5F, A.G.C. 22013

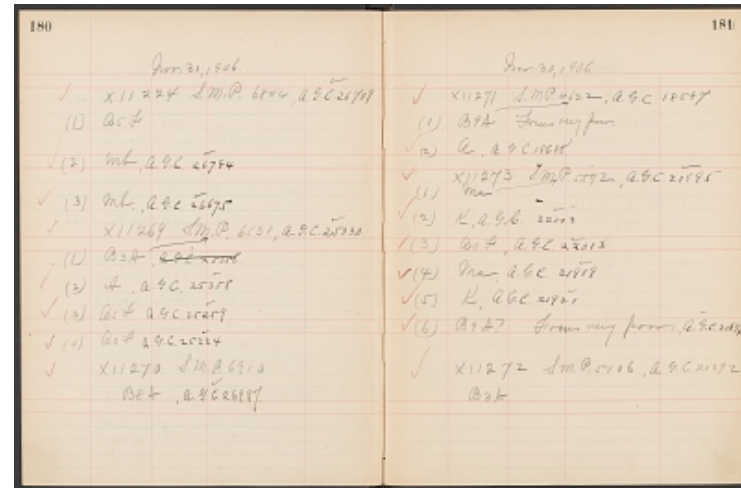
[[checkmark]] (4) Ma, A.G.C. 21919

[[checkmark]] (5) K, A.G.C. 21921

[[checkmark]] (6) B9A? Focus very poor. A.G.C. 21894

[[checkmark]] X 11272 S.M.P. 5106, A.G.C. 20392

B3A.



Project PHaEDRA - Annie Jump Cannon 15  
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Extracted Aug-29-2022 12:07:01

[[preprinted]] 182 [[/preprinted]]

Nov. 30, 1906

[[checkmark]] X 11274

(1) A, S.M.P. 6792, A.G.C. 26462

[[checkmark]] (2) K or K5M S.M.P. 6814, A.G.C. 26593

[[checkmark]] (3) F5G or G, A.G.C. 26377

[[checkmark]] (4) K, A.G.C. 26484

[[end page]]

[[start page]]

[[preprinted]] 183 [[/preprinted]]

[[underlined]] December ~~4~~ ~~6~~, 1906

[[underlined]]

[[checkmark]] X 11274

[[checkmark]] (1) B3A, A.G.C. 19980

[[checkmark]] (2) A2F H beta very wide, A.G.C. 19976

[[checkmark]] (3) B8A, A.G.C. 19967

[[checkmark]] (4) B5A, A.G.C. 19957

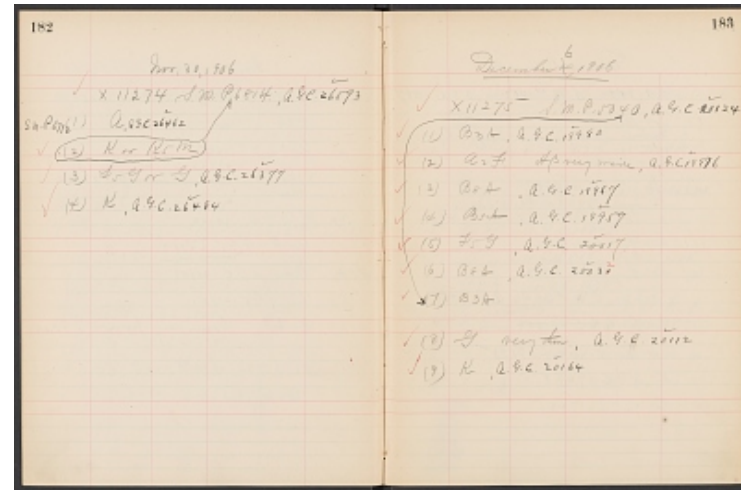
[[checkmark]] (5) F5G, A.G.C. 20017

[[checkmark]] (6) B8a, A.G.C. 2003 ~~1~~ ~~2~~

[[checkmark]] (7) B3A S.M.P. 5040, A.G.C. 20124

[[checkmark]] (8) G, very thin, A.G.C. 20112

[[checkmark]] (9) K, A.G.C. 20164



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 184 [[/preprinted]]

December 6, 1906

[[checkmark]] X 11140 S.M.P. 4622, A.G.C. 18587

[[checkmark]] (1) Too dense. No fine lines clearly seen except hydrogen & K.

A or B9A

[[checkmark]] (2) A, A.G.C. 18688

X 11141 S.M.P. 3582, A.G.C. 14982

[[checkmark]] (1) A3F, very poor.

[[checkmark]] (2) A5F, A.G.C. 14972

[[checkmark]] X 11142 S.M.P. 4346, A.G.C. 17471

[[checkmark]] (1) A5F, ~~A.G.C. 17505~~ [[/strikethrough]]

[[checkmark]] (2) A or A2F, A.G.C. 17505

[[checkmark]] (3) K, A.G.C. 17493

[[checkmark]] (4) K, A.G.C. 17445

[[end page]]

[[start page]]

[[preprinted]] 185 [[/preprinted]]

December 6, 1906

[[checkmark]] X 11143

(1) A. S.M.P. 4144, A.G.C. 16756

[[checkmark]] (2) Probably B9A, A.G.C. 16817, S.M.P. 4165

[[checkmark]] (3) Too poor. May be B3A, A.G.C. 16885

4026, 43 ~~76~~ ~~87 & 4478~~ seen.

[[checkmark]] (4) B5A, A.G.C. 16909

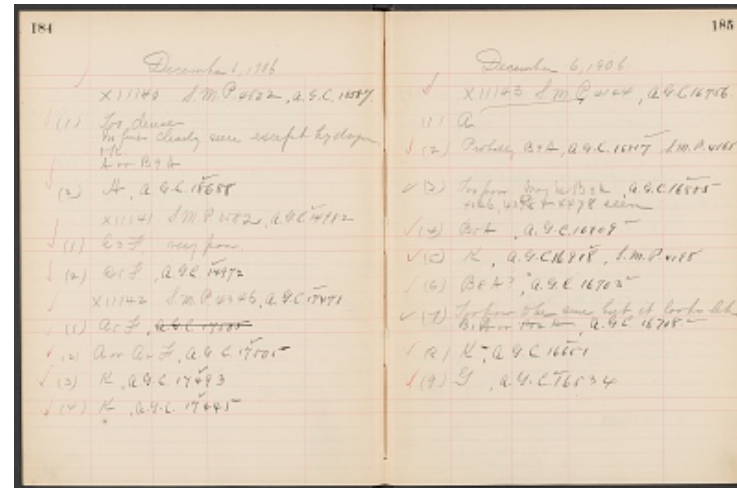
[[checkmark]] (5) K, A.G.C. 16918, S.M.P. 4198

[[checkmark]] (6) B8A?, A.G.C. 16708

[[checkmark]] (7) Too poor to be sure but it looks like B1A or B2A, A.G.C. 16708

[[checkmark]] (8) K, A.G.C. 16651

[[checkmark]] (9) G, A.G.C. 16535



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01



[[preprinted]] 186 [[/preprinted]]

Dec. 6, 1906

X 11144

[[checkmark]] (1) B8A, S.M.P. 4686, A.G.C. 18817

[[checkmark]] (2) B5A, A.G.C. 18849, S.M.P. 4697

[[checkmark]] (3) B8A, A.G.C. 18887, S.M.P. 4714

[[checkmark]] (4) K, A.G.C. 18706

[[checkmark]] X 11145 S.M.P. 5325, A.G.C. 21150  
B9A

X 11146 S.M.P. 5882

2:45 Too dark for examining more plates.

[[end page]]

[[start page]]

[[preprinted]] 187 [[/preprinted]]

[[underlined]] Dec. 7, 1906 [[/underlined]]

[[checkmark]] X 11146, S.M.P. 5882, A.G.C. 23034

(1) B3A. Very poor focus

[[checkmark]] (2) G5K, A.G.C. 22952

[[checkmark]] (3) A.G.C. 22885 B9A or A

22885 Probably B8A 4026 seen. Partly superposed.

[[checkmark]] X 11147 S.M.P. 6495, A.G.C. 25137

(1) K

[[checkmark]] (2) F5G, A.G.C. 25026

[[checkmark]] X 11148 S.M.P. 494 ~~8~~ ~~9~~,  
A.G.C. 19793

(1) K

[[checkmark]] (2) A.G.C. 19746 K or K5M. Greater absorption than in  
(1), may be due to magn. of star.

[[checkmark]] (3) K, A.G.C. 19740

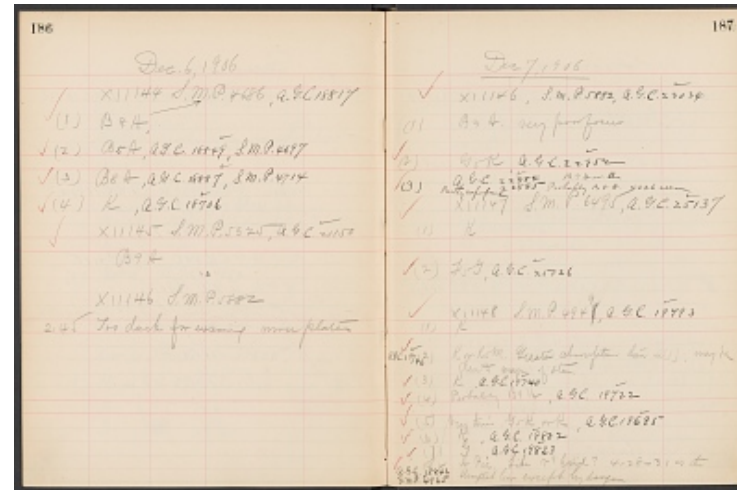
[[checkmark]] (4) Probably B9A., A.G.C. 19722

[[checkmark]] (5) Very thin. G5K or K, A.G.C. 19695

[[checkmark]] (6) K, A.G.C. 19802

[[checkmark]] (7) G, A.G.C. 19823

[[checkmark]] (9) A.G.C. 19842, S.M.P. 4965. A Pec. Like tau <sup>9</sup>  
Erid.? 4128-31 is the strongest line except hydrogen.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01



[[preprinted]] 188 [[/preprinted]]

Dec. 7, 1906

[[checkmark]] X 11149 S.M.P. 5566, A.G.C. 21974  
B3 or 5A. Very poor focus.

[[checkmark]] X 11276 S.M.P. 5591, A.G.C. 22082  
[[checkmark]] (1) A2F  
[[checkmark]] (2) K, A.G.C. 22006  
[[checkmark]] (3) K, A.G.C. 21991

[[checkmark]] X 11277 S.M.P. 5750, A.G.C. 22615  
[[checkmark]] (1) B3A  
[[checkmark]] (2) Probably B8A, A.G.C. 22602  
[[checkmark]] (3) A3F, A.G.C. 22601  
[[checkmark]] (4) B1 or 2A, A.G.C. 22649  
4649 seen 4116 not seen.  
[[checkmark]] (5) Ma, A.G.C. 22654

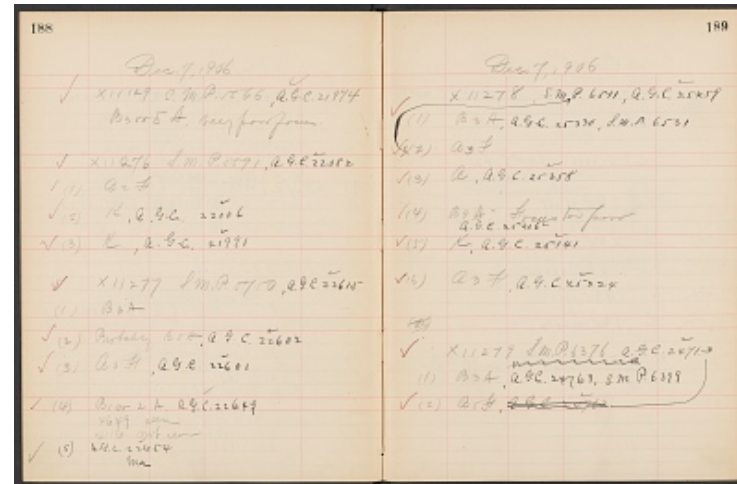
[[end page]]  
[[start page]]

[[preprinted]] 189 [[/preprinted]]

Dec. 7, 1906

X 11278  
[[checkmark]] (1) B3A, A.G.C. 25330, S.M.P. 6531  
[[checkmark]] (2) A3F, S.M.P. 6511, A.G.C. 25259  
[[checkmark]] (3) A, A.G.C. 25358  
[[checkmark]] (4) B9A, Focus too poor, A.G.C. 25262  
[[checkmark]] (5) K, A.G.C. 25141  
[[checkmark]] (6) A3F, A.G.C. 25224

[[checkmark]] X 11279  
[[checkmark]] (1) B3A, A.G.C. 24763, S.M.P. 6399  
[[checkmark]] (2) A5F, S.M.P. 6376, A.G.C. 24713 ~~[[strikethrough]]~~  
A.G.C. 24762 ~~[[strikethrough]]~~



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 192 [[/preprinted]]  
Dec. 10, 1906.

Repeat X 11290 A.G.C. 26444, S.M.P. 6783

[[checkmark]] (1) Probably composite. B3A. Lines quite distinct and also numerous solar lines seen.

[[checkmark]] (2) G5K, A.G.C. 26476, S.M.P. 6793

[[checkmark]] X 11291

(1) K, A.G.C. 28305

[[checkmark]] (2) Ma ~~A.G.C. 28305~~ S.M.P. 7147, A.G.C. 28337

[[checkmark]] X 11292 S.M.P. 7561, A.G.C. 38641

(1) K

[[checkmark]] (2) A5F? Probably like delta Normae. Lines on each side of H delta quite strong. A.G.C. 30570

[[end page]]

[[new page]]

[[preprinted]] 193 [[/preprinted]]  
Dec. 10, 1906

X 11295 S.M.P. 7161, A.G.C. 28444

[[checkmark]] (1) A or B9A Too dense

[[checkmark]] (2) K, A.G.C. 28361

[[checkmark]] X 11296

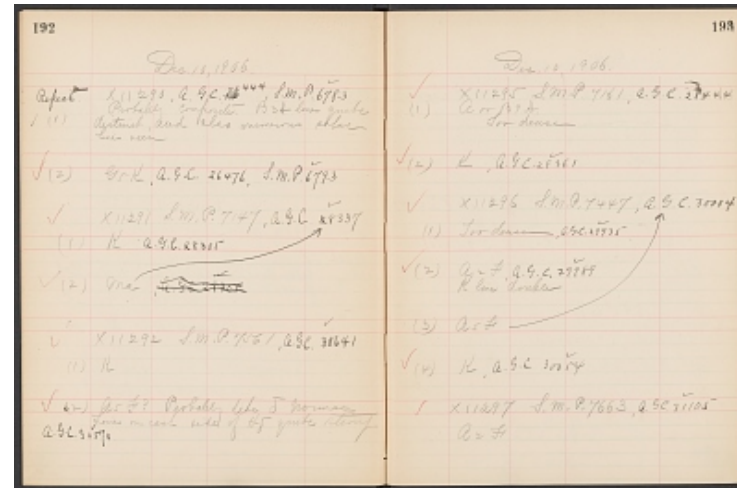
(1) Too dense, A.G.C. 29935

[[checkmark]] (2) A2F, A.G.C. 29989 K line double

(3) A5F S.M.P. 7447, A.G.C. 30004

[[checkmark]] (4) K, A.G.C. 30054

[[checkmark]] X 11297 S.M.P. 7663, A.G.C. 31105  
A2F



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 194 [[/preprinted]]  
Dec. 10, 1906

[[checkmark]] X 11268 S.M.P. 5985, A.G.C. 23422  
(1) ~~K~~ or possibly ~~K5M~~  
[[checkmark]] (2) ~~F2G~~ G, A.G.C. 23358  
[[checkmark]] (3) ~~G5K~~ G, H beta off  
plate, A.G.C. 23497

[[checkmark]] X 11300 S.M.P. 6703, A.G.C. 26091  
(1) K  
[[checkmark]] (2) G, A.G.C. 25923  
[[checkmark]] (3) A5F, A.G.C. 26244  
[[checkmark]] (4) A2F, A.G.C. 26034

[[checkmark]] X 11301, S.M.P. 7175, A.G.C. 28565  
K  
[[end page]]

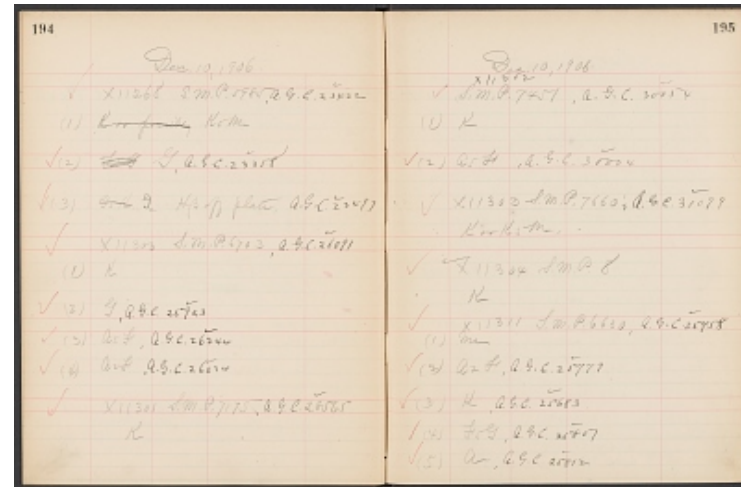
[[new page]]  
[[preprinted]] 195 [[/preprinted]]  
Dec. 10, 1906

[[checkmark]] X 11302 S.M.P., A>G.C. 30054  
(1) K  
[[checkmark]] (2) A5F, A.G.C. 30004

[[checkmark]] X 11303 S.M.P. 7660, A.G.C. 31099  
K or K5M

[[checkmark]] X 11304 S.M.P. 8  
K

[[checkmark]] X 11311 S.M.P. 6630, A.G.C. 25758  
(1) M  
[[checkmark]] (2) A2F, A.G.C. 25779  
[[checkmark]] (3) K, A.G.C. 25683  
[[checkmark]] (4) F5G, A.G.C. 25807  
[[checkmark]] (5) A, A.G.C. 25812



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 196 [[/preprinted]]  
Dec. 10, 1906

[[checkmark]] X 11312, S.M.P. 7147, A.G.C. 28337  
Ma

[[checkmark]] X 11313 S.M.P. 7412  
(1) A3F  
(2) A or B9A

[[checkmark]] X 11314 S.M.P. 7716, A.G.C. 31383  
Too poor A?

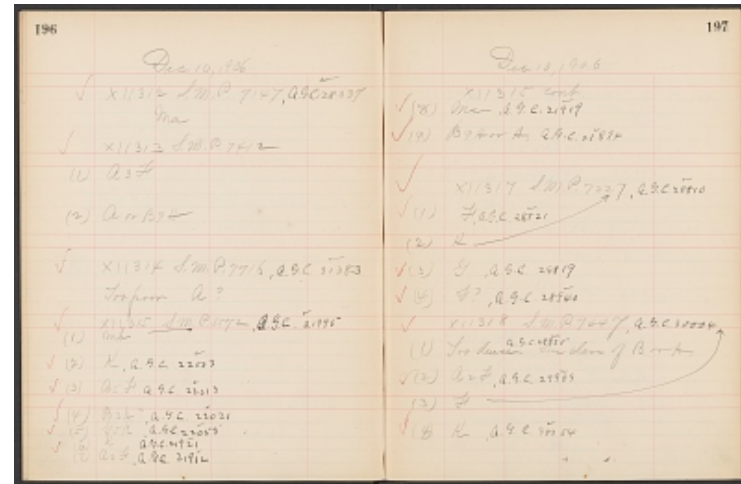
[[checkmark]] X 11315  
(1) S.M.P. 5572, A.G.C. 21995 Mb  
[[checkmark]] (2) K, A.G.C. 22003  
[[checkmark]] (3) A5F, A.G.C. 22013  
[[checkmark]] (4) B3A?, A.G.C. 22021  
[[checkmark]] (5) G5K, A.G.C. 22053  
[[checkmark]] (6) K, A.G.C. 21921  
[[checkmark]] (7) A5F, A.G.C. 21912  
[[end page]]

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[[preprinted]] 197 [[/preprinted]]  
Dec. 10, 1906

X 11315 cont.  
[[checkmark]] (8) Ma, A.G.C. 21919  
[[checkmark]] (9) B9A or A, A.G.C. 21894

[[checkmark]] X 11317  
[[checkmark]] (1) F, A.G.C. 28821  
[[checkmark]] (2) K, S.M.P. 7227, A.G.C. 28810  
[[checkmark]] (3) G, A.G.C. 28819  
[[checkmark]] (4) F?, A.G.C. 28940

[[checkmark]] X 11318  
(1) Too dense. Some class of B or A. A.G.C. 29935  
[[checkmark]] (2) A2F, A.G.C. 29989  
[[checkmark]] (3) F, S.M.P. 7447, A.G.C. 30004  
[[checkmark]] (4) K, A.G.C. 30054



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 198 [[/preprinted]]  
Dec. 10, 1906.

[[checkmark]] X 11319 S.M.P. 7731, A.G.C. 31441  
(1) Mb  
[[checkmark]] (2) K, A.G.C. 31523

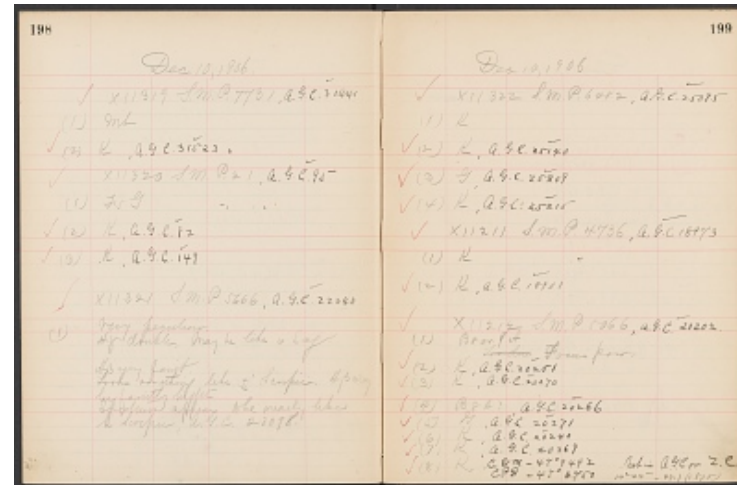
[[checkmark]] X 11320 S.M.P., A.G.C. 95  
(1) F5G  
[[checkmark]] (2) K, A.G.C. 82  
[[checkmark]] (3) K, A.G.C. 149

[[checkmark]] X 11321 S.M.P. 5666, A.G.C. 22340  
(1) Very peculiar  
H gamma double. May be like [[??]] Sag  
H beta very faint  
Looks something like zeta ^[[1]] Scorpii. H beta may be faintly bright.  
Spectrum appears to be nearly like k Scorpii, A.G.C. 23098.  
[[end page]]

[[new page]]  
[[preprinted]] 199 [[/preprinted]]  
Dec. 10, 1906  
[[checkmark]] X 11322 S.M.P. 6482, A.G.C. 25095  
(1) K  
[[checkmark]] (2) K, A.G.C. 25140  
[[checkmark]] (3) G, A.G.C. 25209  
[[checkmark]] (4) K, A.G.C. 25215

[[checkmark]] X 11211 S.M.P. 4736, A.G.C. 18973  
(1) K  
[[checkmark]] (2) K, A.G.C. 18901

[[checkmark]] X 11212 S.M.P. 5066, A.G.C. 20202  
(1) B8 or 9A ~~Too den~~ Focus poor  
[[checkmark]] (2) K, A.G.C. 20251  
[[checkmark]] (3) K, A.G.C. 20270  
[[checkmark]] (4) B8A, A.G.C. 20266  
[[checkmark]] (5) G, A.G.C. 20271  
[[checkmark]] (6) K, A.G.C. 20240  
[[checkmark]] (7) K, A.G.C. 20369  
[[checkmark]] (8) K, CDM -47 degrees 9492  
CPD -47 degrees 6750  
Not in AGC or ZC 14h 44m -47 degrees 7 (1875)



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 200 [[/preprinted]]  
Dec. 10, 1906

[[checkmark]] X 11213 S.M.P. 5550, A.G.C. ~~[[strikethrough]] 555~~  
[[/strikethrough]] 21918  
(1) A5F  
[[checkmark]] (2) K, A.G.C. 21921  
[[checkmark]] (3) K, A.G.C. 22074  
[[checkmark]] (4) B3A, A.G.C. 21867  
[[checkmark]] (5) B3A, A.G.C. 21861  
[[checkmark]] (6) K, A.G.C. 21844  
[[checkmark]] (7) K, A.G.C. 21831  
[[checkmark]] (8) F, A.G.C. 21784

[[checkmark]] X 11214 S.M.P. 5760  
This is sp. N and is barely visible on this plate.  
[[checkmark]] (1) F5G, A.G.C. 20579, S.M.P. 5171  
[[checkmark]] (2) K, A.G.C. 20568, S.M.P. 5165  
[[end page]]

[[new page]]  
[[preprinted]] 201 [[/preprinted]]  
Dec. 10, 1906

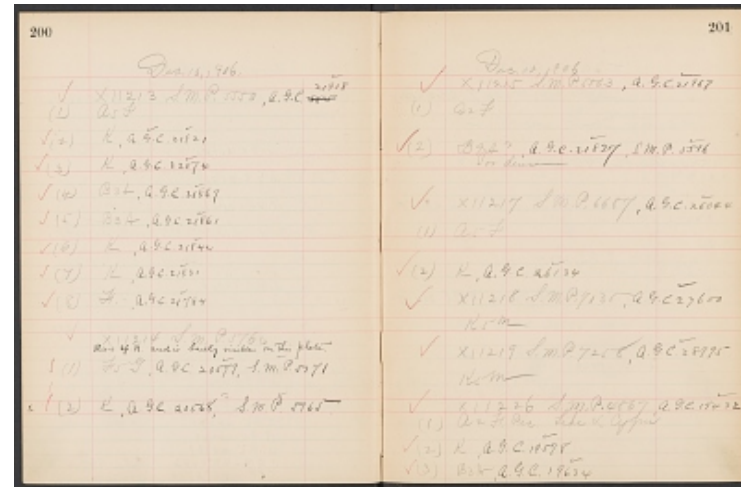
[[checkmark]] X 11215 S.M.P. 5563, A.G.C. 21967  
(1) A2F  
[[checkmark]] (2) B9A?, A.G.C. 21827, S.M.P. 5516  
Too dense

[[checkmark]] X 11217 S.M.P. 6687, A.G.C. 26044  
(1) A5F  
[[checkmark]] (2) K, A.G.C. 26134

[[checkmark]] X 11218 S.M.P. 7035, A.G.C. 27600  
K5M

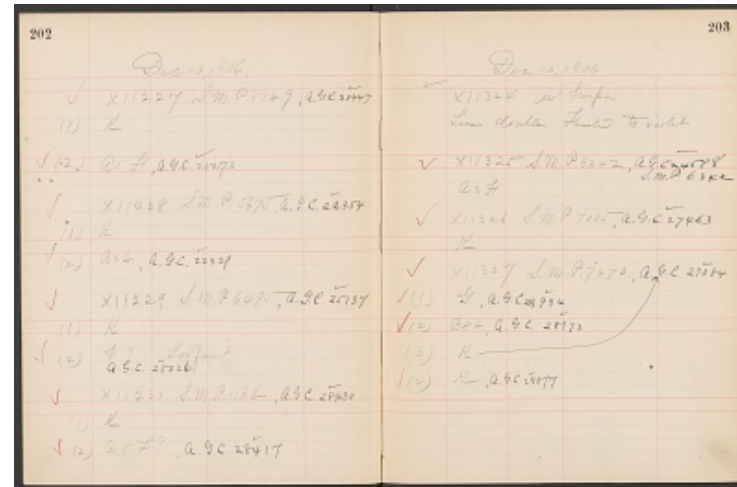
[[checkmark]] X 11219 S.M.P. 7258, A.G.C. 28995  
K5M

[[checkmark]] X 11226 S.M.P. 4867, A.G.C. 19432  
(1) A2F Pec. Like alpha Cygni  
[[checkmark]] (2) K, A.G.C. 19578  
[[checkmark]] (3) B3A, A.G.C. 19634



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[[preprinted]]202[[/preprinted]]  
 Dec. 10, 1906  
 [[checkmark]] X11227 S.M.P. 5129, A.G.C. 20447 ^[[checkmark]]  
 (1) K  
 [[checkmark]] A5H, A.G.C. 20273 ^[[checkmark]]  
 [[checkmark]] X11228 S.M.P. 5675, A.G.C. 22354 ^[[checkmark]]  
 (1) K  
 [[checkmark]] B3H, A.G.C. 22329 ^[[checkmark]]  
 [[checkmark]] X11229 S.M.P. 6495, A.G.C. 25137 ^[[checkmark]]  
 (1) K  
 [[checkmark]] F ? [[Lorfamh?]]  
 A.G.C. 25026 ^[[checkmark]]  
 [[checkmark]] X11231 S.M.P. 1162, A.G.C. 28430 ^[[checkmark]]  
 (1) K  
 [[checkmark]] A5H?, A.G.C. 28417 ^[[checkmark]]  
 [[/page]]  
 [[page]]  
 [[preprinted]] 203  
 Dec. 10, 1906  
 [[checkmark]] X11324 [[mu?]] Scorpio  
 Lines double. [[Hamlin?]] to [[?]]  
 [[checkmark]] X11325 S.M.P. 6342, A.G.C. 24598 ^[[checkmark]]  
 S.M.P. 6342  
 A3H  
 [[checkmark]] X11326 S.M.P. 7005, A.G.C. 27463 ^[[checkmark]]  
 K  
 [[checkmark]] X11327 S.M.P. 7270, A.G.C. 29084 ^[[checkmark]]  
 [[checkmark]] (1) G, A.G.C. 28994 ^[[checkmark]]  
 [[checkmark]] B8H, A.G.C. 28972 ^[[checkmark]]  
 (3) K [[Arrow to A.G.C 29084 above]]  
 [[checkmark]] (4) K, A.G.C. 28877 ^[[checkmark]]



Project PHaEDRA - Annie Jump Cannon 15  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-29-2022 12:07:01



[[preprinted]] 204 [[/preprinted]]  
Dec. 10, 1906

[[checkmark]] X 11328  
[[checkmark]] (1) Mb Very dense. A.G.C. 30913  
[[checkmark]] (2) G, A.G.C. 30909  
[[checkmark]] (3) K, S.M.P. 7628, A.G.C. 30974  
[[checkmark]] (4) A5F, A.G.C. 30999

X 11329 S.M.P. 7908, A.G.C. 32365  
[[checkmark]] (1) G5K  
[[checkmark]] (2) G = S.M.P. 5, A.G.C. 32446

[[checkmark]] X 11330 zeta Centauri  
B3A Lines hazy.

[[checkmark]] X 11332 mu <sup>^</sup>[[1]] Scorp  
Lines hazy

[[checkmark]] X 11334 mu <sup>^</sup>[[1]] Scorp  
Lines widely double, faint to red.  
[[end page]]

[[new page]]  
[[preprinted]] 205 [[/preprinted]]  
Dec. 10, 1906

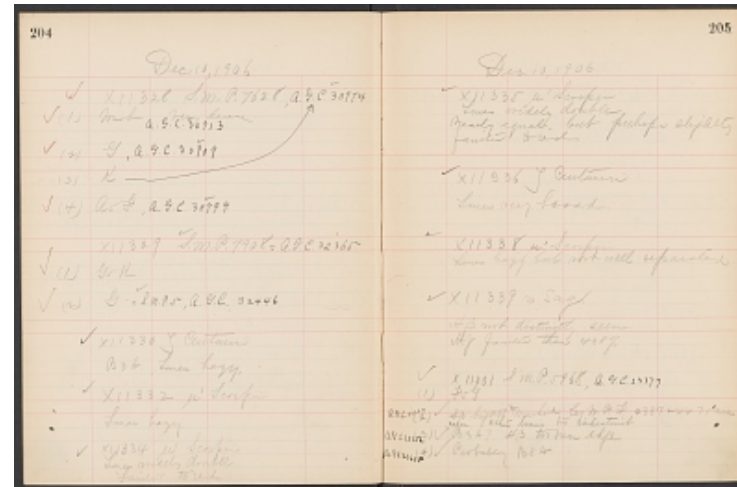
[[checkmark]] X 11335 mu <sup>^</sup>[[1]] Scorp  
Lines widely double  
Nearly equal but perhaps slightly fainter to red.

[[checkmark]] X 11336 zeta Centauri  
Lines very broad.

[[checkmark]] X 11338 mu <sup>^</sup>[[1]] Scorp  
Lines hazy but not well separated

[[checkmark]] X 11339 epsilon Sag  
H beta not distinctly seen. H gamma fainter than 4817.

[[checkmark]] X 11001 S.M.P. 5968, A.G.C. 23377  
(1) F5G  
[[checkmark]] (2) A.G.C. 23337 H beta bright = 2. Marked by W.P.F..  
4387 & 4471 are seen. Other lines too indistinct.  
[[checkmark]] (3) A.G.C. 23352 B3A? H beta too near edge.  
[[checkmark]] (4) A.G.C. 23255 Probably B8A.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01



[[preprinted]] 208 [[/preprinted]]  
 [[underline]] Dec. 18, 1906 [[/underline]]

[[checkmark]] X 11092 A.G.C. 21638, pi Scorpii  
 Lines closely double.

[[checkmark]] X 11093 A.G.C. 22761  
 mu ^[[1]] Lines very wide  
 mu ^[[2]] Lines sharp.

[[checkmark]] X 11094 S.M.P. 128 = A.G.C. 702  
 (1) K  
 [[checkmark]] (2) K = A.G.C. 745

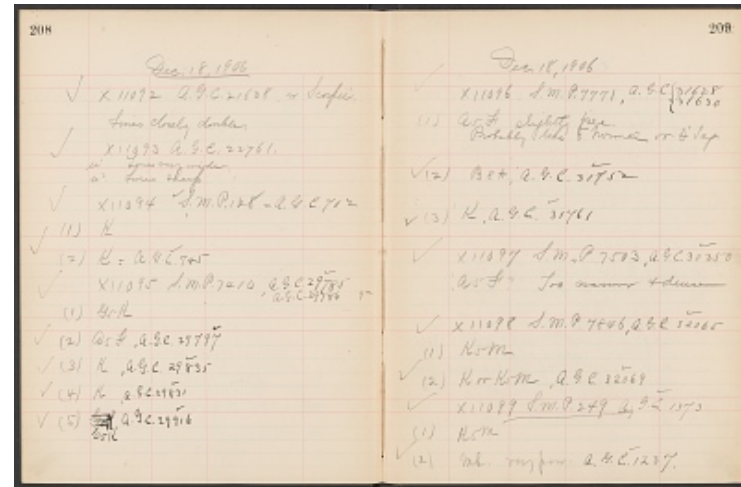
11095 S.M.P. 7410, A.G.C. 29785, 29786 9^[[m]]  
 (1) G5K  
 [[checkmark]] (2) A5F, A.G.C. 29797  
 [[checkmark]] (3) K, A.G.C. 29835  
 [[checkmark]] (4) K, A.G.C. 29831  
 [[checkmark]] (5) G5K, A.G.C. 29916  
 [[end page]]

[[new page]]  
 [[preprinted]] 209 [[/preprinted]]  
 Dec. 18, 1906  
 [[checkmark]] X 11096 S.M.P. 7771, A.G.C. {31628 {31630  
 (1) A5F slightly pec. Probably like delta Normae or theta ^[[1]] Sag.  
 [[checkmark]] (2) B8A, A.G.C. 31752  
 [[checkmark]] (3) K, A.G.C. 31761

[[checkmark]] X 11097 S.M.P. 7503, A.G.C. 30350  
 A5F? Too narrow & dense

[[checkmark]] X 11098 S.M.P. 7846, A.G.C. 32065  
 (1) K5M  
 [[checkmark]] (2) K or K5M, A.G.C. 32069

[[checkmark]] X 11099  
 (1) K5M S.M.P. 249, A.G.C. 1373  
 [[checkmark]] (2) Mb. Very poor. A.G.C. 1237.



Project PHaEDRA - Annie Jump Cannon 15  
 Transcribed and Reviewed by Digital Volunteers  
 Extracted Aug-29-2022 12:07:01

[[preprinted]] 210 [[/preprinted]]

Dec. 18, 1906

[[checkmark]] X 11100 S.M.P. = A.G.C. 825

(1) Mb

[[checkmark]] (2) F5G = A.G.C. 806

[[checkmark]] X 11102 S.M.P. 191 = A.G.C. 1057

(1) K

[[checkmark]] (2) K = A.G.C. 950

[[checkmark]] (3) A3F = A.G.C. 910

[[checkmark]] (4) G or perhaps F5G = A.G.C. 982

[[checkmark]] X 11103 S.M.P. 7744, A.G.C. 31502

Probably a silicon star. 4128-31 is the only line clearly seen except the hydrogen.

[[checkmark]] X 11104 S.M.P. 176

K

[[end page]]

[[new page]]

[[preprinted]] 211 [[/preprinted]]

Dec. 18, 1906

[[checkmark]] X 11105 S.M.P. 487, A.G.C. 2745

B8 or 9A. Very poor

[[checkmark]] X 11106 S.M.P. 801, A.G.C. 4444

K

[[checkmark]] X 11107 S.M.P. 7720, A.G.C. 31381

K, very narrow.

[[checkmark]] X 11108 S.M.P. 116 = A.G.C. 653

(1) F5G

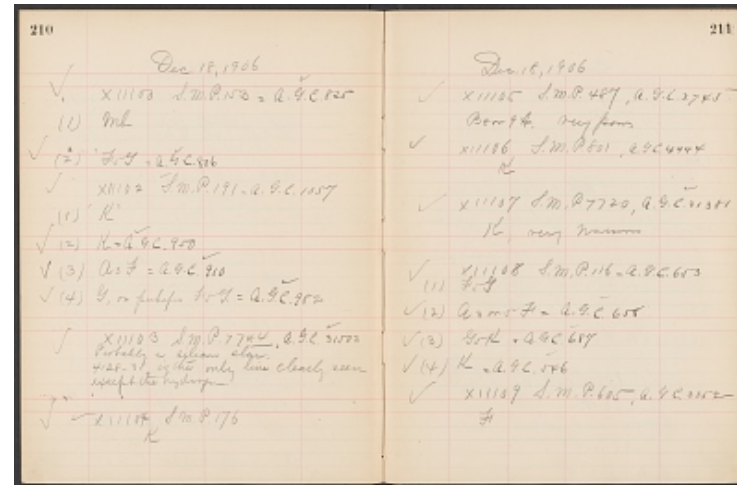
[[checkmark]] (2) A3 or 5F = A.G.C. 658

[[checkmark]] (3) G5K = A.G.C. 687

[[checkmark]] (4) K = A.G.C. 546

[[checkmark]] X 11109 S.M.P. 605, A.G.C. 3352

F



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 212 [[/preprinted]]

Dec. 18, 1906

X 11110 S.M.P. 1017, A.G.C. 5555, 5556

[[checkmark]] (1) F lines hazy.

[[checkmark]] (2) G5K, A.G.C. 5561

[[checkmark]] X 11111 S.M.P. 40 = A.G.C. 253

B8 or 9A. Only hydrogen lines seen.

[[checkmark]] X 11112 S.M.P. 115 ~~[[strikethrough]]~~ = A.G.C. 658

~~[[strikethrough]]~~

(1) G = A.G.C. 617

[[checkmark]] (2) K = A.G.C. ~~[[strikethrough]]~~ 617 ~~[[strikethrough]]~~ 652

[[checkmark]] (3) A5f or F = A.G.C. 532

[[checkmark]] X 11113

[[checkmark]] (1) A = A.G.C. 3054

(2) K, S.M.P. 543, A.G.C. 2992

[[checkmark]] (3) K, A.G.C. 3128

[[checkmark]] (4) K, A.G.C. 3114

[[end page]]

[[new page]]

[[preprinted]] 213 [[/preprinted]]

Dec. 18, 1906

[[checkmark]] X 11114 S.M.P. 7783, A.G.C. 31714

K

[[checkmark]] X 11115 S.M.P. 298, A.G.C. 1677

(1) k

[[checkmark]] (2) K, A.G.C. 1603

[[checkmark]] X 11116

[[checkmark]] (1) K A.G.C. 3480 38.1 -58 11

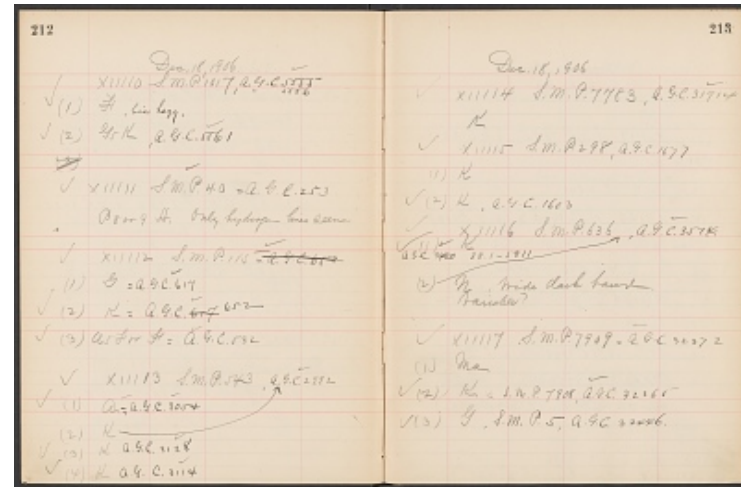
(2) N. Wide dark band. Variable? S.M.P. 636, A.G.C. 3514

[[checkmark]] X 11117 S.M.P. 7909 = A.G.C. 32372

(1) Ma

[[checkmark]] (2) K = S.M.P. 7908, A.G.C. 32365

[[checkmark]] (3) G, S.M.P. 5, A.G.C. 32446.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 214 [[/preprinted]]  
December 18, 1906

[[checkmark]] X 11118 S.M.P. 176  
K

[[checkmark]] X 11119 S.M.P. 7845, A.G.C. 32060  
(1) K  
[[checkmark]] (2) K, A.G.C. 31840

[[checkmark]] X 11120 tau ^[[2]] Hydri  
(1) A5F S.M.P. 333, A.G.C. 1869  
(1) A5F  
[[checkmark]] (2) K, A.G.C. 1736 tau ^[[1]] Hydri

[[checkmark]] X 11121  
(1) A3F S.M.P. 190 = A.G.C. 1052  
[[checkmark]] (2) G5K, A.G.C. 1048  
[[checkmark]] (3) Ma, A.G.C. 972

[[checkmark]] X 11122 S.M.P. 598, A.G.C. 3312  
(1) K  
[[checkmark]] (2) K, A.G.C. 3336  
[[checkmark]] (3) A5F. Not in A.G.C. Z.C. 2h 1521 8 1/2 magn.  
[[end page]]

[[preprinted]] 215 [[/preprinted]]  
December 18, 1906.

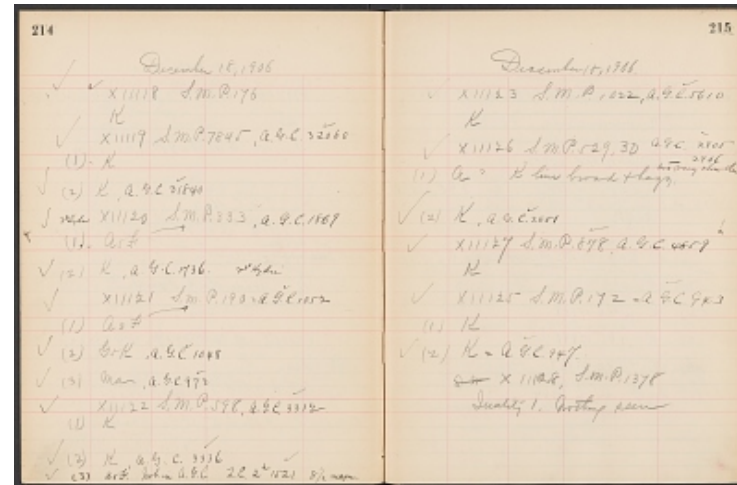
X 11123 S.M.P. 1022, A.G.C. 5610  
K

[[checkmark]] X 11126 S.M.P. 529, 30 A.G.C. 2905/2906 Two very  
close stars.  
(1) A? K line broad & hazy.  
[[checkmark]] (2) K, A.G.C. 2851

[[checkmark]] X 11127 S.M.P. 878, A.G.C. 4859  
K

[[checkmark]] X 11125 S.M.P. 172 = A.G.C. 943  
(1) K  
[[checkmark]] (2) K = A.G.C. 947.

X 11128, S.M.P. 1378  
Quality 1. Nothing seen.



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 216 [[/preprinted]]  
[[underline]] January 8, 1907 [[/underline]]

[[checkmark]] X 11247 S.M.P. 6886, A.G.C. 26868  
(1) K  
[[checkmark]] (2) A3F, A.G.C. 26877

[[checkmark]] X 11248 S.M.P. 7192, A.G.C. 28625  
K5M

[[checkmark]] X 11249 S.M.P. 4452, A.G.C. 17929  
(1) K  
[[checkmark]] (2) K, A.G.C. 17958  
[[checkmark]] (3) K, A.G.C. 17991  
[[checkmark]] (4) K, A.G.C. 17999  
[[checkmark]] (5) A2F, A.G.C. 18064  
Lines may resemble delta Normae  
[[end page]]

[[new page]]  
[[preprinted]] 217 [[/preprinted]]  
Jan. 8, 1907

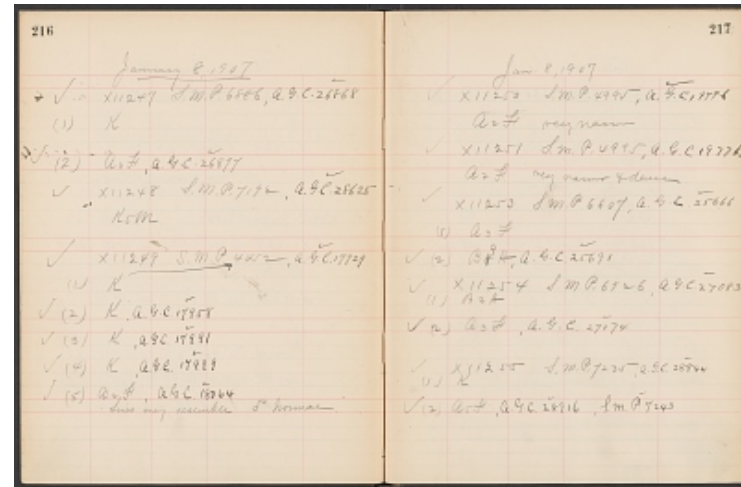
[[checkmark]] X 11250 S.M.P. 4995, A.G.C. 9776  
A2F very narrow

[[checkmark]] X 11251 S.M.P. 4995, A.G.C. 19776  
A2F very narrow & dense.

[[checkmark]] X 11253 S.M.P. 6607, A.G.C. 25666  
(1) A2F  
[[checkmark]] (2) B ~~8~~ 9A, A.G.C. 25691

[[checkmark]] X 11254 S.M.P. 6926, A.G.C. 27083  
(1) B3A  
[[checkmark]] (2) A3F, A.G.C. 27174

[[checkmark]] X 11255 S.M.P. 7235, A.G.C. 28844  
(1) K  
[[checkmark]] (2) A5F, A.G.C. 28916, S.M.P. 7243



Project PHaEDRA - Annie Jump Cannon 15  
Transcribed and Reviewed by Digital Volunteers  
Extracted Aug-29-2022 12:07:01

[[preprinted]] 218 [[/preprinted]]

Jan. 8, 1907.

C 16484

[[checkmark]] (1) A5F, DC 6687 = H.P. 2404.

[[checkmark]] (2) DC 6668 = H.P. 2395

A5F

[[checkmark]] (3) DC 6694

A

C 16491 DC 6982 = H.P. 2552

[[checkmark]] (1) A3F

[[checkmark]] (2) A5F, DC 6991

C 16542 DC 6687 = H.P. 2404

[[checkmark]] (1) A5F

[[/strikethrough]] (2) DC 6668 = H.P. 2395 [[/strikethrough]] Not enough on plate.

[[checkmark]] (3) DC 6694

A.

[[end page]]

[[new page]]

[[preprinted]] 219 [[/preprinted]]

Jan. 8, 1907.

[[checkmark]] C 16566 DC 7188 = H.P. 2680

F

[[checkmark]] C 16593 DC 8543 = H.P. 3254

F

C 16606 DC 7398 = H.P. 2820

[[checkmark]] (1) F

(2) [[/strikethrough]] A [[/strikethrough]] +55 degrees 1872 A2F pec.

Line of shorter lambda than H delta is strong. Probably slightly peculiar. Very faint.

C 16620 epsilon Sag.

Partly off plate and very poor

C 16622 DC 8727 = H.P. 3341

Too poor. B8 or B9A.

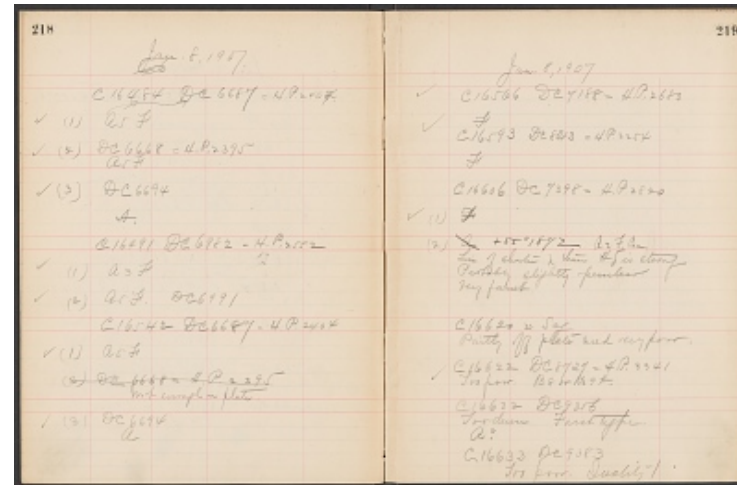
C 16632 DC 9356

Too dense. First type

A?

C 16633 DC 9383

Too poor. Quality = 1.





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