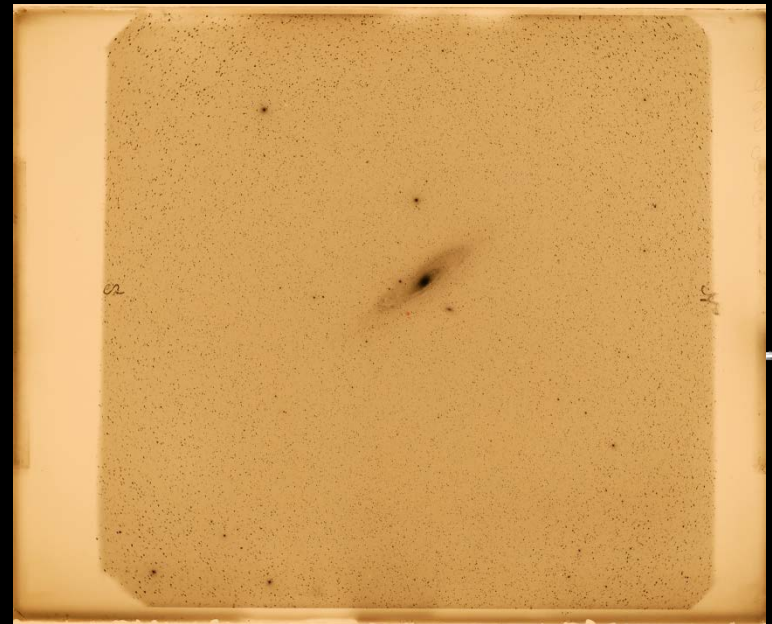
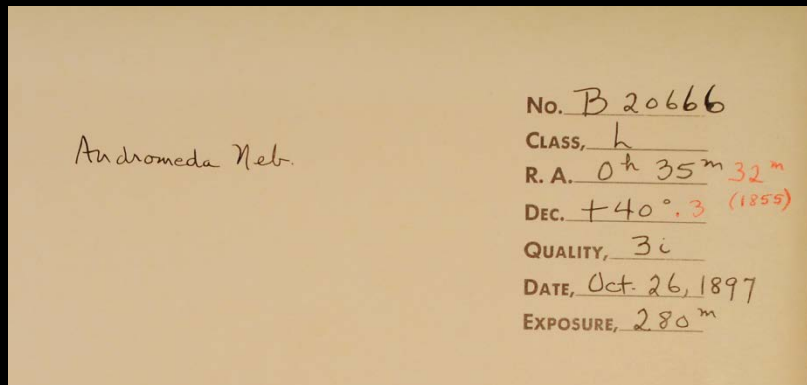


# Making Celestial Plate Photography Personal

David Sliski

March 21<sup>st</sup> 2014

Astroplate Conference, Prague, Czech Republic



The now ancient age of plates

# The now ancient age of plates

Average age of admitted astronomy graduate students for fall 2014 is younger than the of the newest plates taken at Harvard

# The now ancient age of plates

Average age of admitted astronomy graduate students for fall 2014 is younger than the of the newest plates taken at Harvard

# The now ancient age of plates

- How can we get people interested?

Average age of admitted astronomy graduate students for fall 2014 is younger than the of the newest plates taken at Harvard

# The now ancient age of plates

- How can we get astronomers interested?
- How can we make students aware of the data in plates?

Average age of admitted astronomy graduate students for fall 2014 is younger than the of the newest plates taken at Harvard

# The now ancient age of plates

- How can we get astronomers interested?
- How can we make students aware of the data in plates?
- How can we interest our society in its own history?
- How can we get them interested in the investments made by their predecessors?

# The now ancient age of plates

- How can we get astronomers interested?
- How can we make students aware of the data in plates?
- How can we interest our society in its own history?
- How can we get them interested in the investments made by their predecessors?
- **Transcribe your metadata and publish it!**



# What do I mean by Metadata?

# What do I mean by Metadata?

34

35

INSTRUMENT,

12 INCH NETSCALE

DATE,

Monday March 27-28 1933

No.	Class	Object	R. A.	Dec.	Started	Obs. H. A.	Obs. Dec.	Tel. E. or W.	Load	Focus	Prisms	Sky at Start	Stopped	Exp. C'ds	C'k	Dew Ref.	Obs'r	REMARKS
E																		
✓2868	Ec	delphidatal	00	+23.0	8	12 0	12W+23.0	-	100	-	-	Hazy & T	8	52 40	1	-	-	x B x 2768 Stopped by clouds.
✓2869	Ec	Same	10	20 +13.0	10	15 0	5E+13.0	-	-	-	-	Hazy & T	11	15 60	-	-	-	B
✓2870	Ec	Same	11	20 +8.0	11	17 0	3E+8.0	-	-	-	-	Hazy & T	12	17 60	-	-	-	B
✓2871	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Hazy	13	19 60	-	-	-	B
✓2872	Ec	Same	13	40 -7.0	13	21 0	19E-7.0	-	-	-	-	Hazy	14	24 63	-	-	-	B
																		Too hazy in South to continue.

- This means all of your logbooks or records of the observations from the telescopes which took the plates

# What do I mean by Metadata?

34

INSTRUMENT, 12 INCH NETCALF

DATE, Monday March 27-28 1933

35

No.	Class	Object	R. A.	Dec.	Started	Obs. H. A.	Obs. Dec.	Tel. E. or W.	Load	Focus	Prisms	Sky at Start	Stopped	Exp. C'ds	Ck'd	Dew Ref.	Obs'r	REMARKS	
E																			
✓2868	Ec	delphidatal	00	+23.0	8	12 0	12W+23.0	-	100	-	-	Hazy & T	8	52	40	1	-	x B	x 2768 Stopped by clouds.
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✓2870	Ec	Same	11	20 +8.0	11	17 0	3E+8.0	-	-	-	-	Hazy & T	12	17	60	-	-	B	
✓2871	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Hazy	13	19	60	-	-	B	
✓2872	Ec	Same	13	40 -7.0	13	21 0	19E-7.0	-	-	-	-	Hazy	14	24	63	-	-	B	Too hazy in South to continue.

- We digital, searchable records like:
- Page number

# What do I mean by Metadata?

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No.	Class	Object	R. A.	Dec.	Started	Obs. H. A.	Obs. Dec.	Tel. E. or W.	Load	Focus	Prisms	Sky at Start	Stopped	Exp. C'ds	Crk	Dew Ref.	Obs'r	REMARKS	
E																			
✓2868	Ec	delphidatal	00	+23.0	8	12 0	12W+23.0	-	100	-	-	Hazy & T	8	52	40	1	-	x B	x 2768 Stopped by clouds.
✓2869	Ec	Same	10	20 +13.0	10	15 0	5E+13.0	-	-	-	-	Hazy & T	11	15	60	-	-	B	
✓2870	Ec	Same	11	20 +8.0	11	17 0	3E+8.0	-	-	-	-	Hazy & T	12	17	60	-	-	B	
✓2871	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Hazy	13	19	60	-	-	B	
✓2872	Ec	Same	13	40 -7.0	13	21 0	19E-7.0	-	-	-	-	Hazy	14	24	63	-	-	B	Too hazy in South to continue.

- We digital, searchable records like:
- Page number, plate number

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					E								E						
✓2868	Ec	delphidatal	00	+23.0	8	12 0	12W+23.0	-	100	-	-	Hazy & T	8	52	40	1	-	x B	x 2768 Stopped by clouds.
✓2869	Ec	Same	10	20 +13.0	10	15 0	5E+13.0	-	-	-	-	Hazy & T	11	15	60	-	-	B	
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✓2871	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Hazy	13	19	60	-	-	B	
✓2872	Ec	Same	13	40 -7.0	13	21 0	19E-7.0	-	-	-	-	Hazy	14	24	63	-	-	B	Too hazy in South to continue.

- We digital, searchable records like:
- Page number, plate number, class (filter)

# What do I mean by Metadata?

34

INSTRUMENT, 12 INCH NETSCALE

DATE, Monday March 27-28 1933

No.	Class	Object	R. A.	Dec.	Started	Obs. H. A.	Obs. Dec.	Tel. E. or W.	Load	Focus	Prisms	Sky at Start	Stopped	Exp. C'ds	Ck	Dew Ref.	Obs'r	REMARKS	
✓2868	Ec	delphidatal	00	+23.0	8	12 0	12W+23.0	-	100	-	-	Hazy & T	8	52	40	1	-	x B	x 2768 Stopped by clouds.
✓2869	Ec	Same	10	20 +13.0	10	15 0	5E+13.0	-	-	-	-	Hazy & T	11	15	60	-	-	B	
✓2870	Ec	Same	11	20 +8.0	11	17 0	3E+8.0	-	-	-	-	Hazy & T	12	17	60	-	-	B	
✓2871	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Hazy	13	19	60	-	-	B	
✓2872	Ec	Same	13	40 -7.0	13	21 0	19E-7.0	-	-	-	-	Hazy	14	24	63	-	-	B	Too hazy in South to continue.

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- We digital, searchable records like:
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✓2868	Ec	delphidatal	00	+23.0	8	12 0	12W+23.0	-	100	-	-	Hazy & T	8	52	40	1	-	x B	x 2768 Stopped by clouds.
✓2869	Ec	Same	10	20 +13.0	10	15 0	5E+13.0	-	-	-	-	Hazy & T	11	15	60	-	-	B	
✓2870	Ec	Same	11	20 +8.0	11	17 0	3E+8.0	-	-	-	-	Hazy & T	12	17	60	-	-	B	
✓2871	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Hazy	13	19	60	-	-	B	
✓2872	Ec	Same	13	40 -7.0	13	21 0	19E-7.0	-	-	-	-	Hazy	14	24	63	-	-	B	Too hazy in South to continue.

- We digital, searchable records like:
- Page number, plate number, class (filter), object, RA

# What do I mean by Metadata?

34

INSTRUMENT

DATE, Monday March 27-28 1933

No.	Class	Object	R. A.	Dec.	Started	Obs. H. A.	Obs. Dec.	Tel. E. or W.	Load	Focus	Prisms	Sky at Start	Stopped	Exp. C'ds	Ck	Dew Ref.	Obs'r	REMARKS	
✓2868	Ec	delphidatal	08	+23.0	8	12 0	12W+23.0	-	100	-	-	Hazy & T	8	52	40	1	-	x B	x 2768 Stopped by clouds.
✓2869	Ec	Same	10	20+13.0	10	15 0	5E+13.0	-	-	-	-	Hazy & T	11	15	60	-	-	B	
✓2870	Ec	Same	11	20+8.0	11	17 0	3E+8.0	-	-	-	-	Hazy & T	12	17	60	-	-	B	
✓2871	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Hazy	13	19	60	-	-	B	
✓2872	Ec	Same	13	40-7.0	13	21 0	19E-7.0	-	-	-	-	Hazy	14	24	63	-	-	B	Too hazy in South to continue.

- We digital, searchable records like:
- Page number, plate number, class (filter), object, RA , Dec,



# What do I mean by Metadata?

34

INSTRUMENT

SCALE

DATE, Monday March 27-28 1933

35

No.	Class	Object	R. A.	Dec.	Started	Obs. H. A.	Obs. Dec.	Tel. E. or W.	Load	Focus	Prisms	Sky at Start	Stopped	Exp. C'ds	Ck	Dew Ref.	Obs'r	REMARKS	
2568	Ec	Editha	00+23.0	8	12 0	12W+23.0	-	100	-	-	-	Hazy & T	8	52	40	1	-	B	x 2568 Stopped by clouds.
2569	Ec	Same	10	20+13.0	10	15 0	5E+13.0	-	-	-	-	Hazy & T	11	15	60	-	-	B	
2570	Ec	Same	11	20+8.0	11	17 0	3E+8.0	-	-	-	-	Hazy & T	12	17	60	-	-	B	
2571	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Hazy	13	19	60	-	-	B	
2572	Ec	Same	13	40-7.0	13	21 0	19E-7.0	-	-	-	-	Hazy	14	24	63	-	-	B	Too hazy in South to continue.

- We digital, searchable records like:
- Page number, plate number, class (filter), object, RA , Dec, Start time,

# What do I mean by Metadata?

34

INSTRUMENT, \_\_\_\_\_

DATE, \_\_\_\_\_

No.	Class	Object	R. A.	Dec.	Started	Obs. H. A.	Obs. Dec.	Tel. E. or W.	Load	Focus	Prisms	Sky at Start	Stopped	Exp. C'ds	Ck	Dew Ref.	Obs'r	REMARKS	
✓2868	Ec	delphidatal	00	+23.0	8	12 0	12W+23.0	-	100	-	-	Hazy & T	8	52	40	1	-	x B	x 2768 Stopped by clouds.
✓2869	Ec	Same	10	20+13.0	10	15 0	5E+13.0	-	-	-	-	Hazy & T	11	15	60	-	-	B	
✓2870	Ec	Same	11	20+8.0	11	17 0	3E+8.0	-	-	-	-	Hazy & T	12	17	60	-	-	B	
✓2871	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Hazy	13	19	60	-	-	B	
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DATE, Monday March 27-28 1933

- We digital, searchable records like:
- Page number, plate number, class (filter), object, RA , Dec, Start time, Obs H.A.

# What do I mean by Metadata?

34

INSTRUMENT, \_\_\_\_\_

DATE, \_\_\_\_\_

No.	Class	Object	R. A.	Dec.	Started	Obs. H. A.	Obs. Dec.	Tel. E. or W.	Load	Focus	Prisms	Sky at Start	Stopped	Exp. C'ds	Ck	Dew Ref.	Obs'r	REMARKS	
✓2865	Ec	delphidatal	00	+23.0	8	12 0	12W+23.0	-	100	-	-	Hazy & T	8	52	40	1	-	x B	x 2768 Stopped by clouds.
✓2869	Ec	Same	10	20 +13.0	10	15 0	5E+13.0	-	-	-	-	Hazy & T	11	15	60	-	-	B	
✓2870	Ec	Same	11	20 +8.0	11	17 0	3E+8.0	-	-	-	-	Hazy & T	12	17	60	-	-	B	
✓2871	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Hazy	13	19	60	-	-	B	
✓2872	Ec	Same	13	40 -7.0	13	21 0	19E-7.0	-	-	-	-	Hazy	14	24	63	-	-	B	Too hazy in South to continue.

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- We digital, searchable records like:
- Page number, plate number, class (filter), object, RA , Dec, Start time, Obs H.A., Obs Dec,

# What do I mean by Metadata?

34

INSTRUMENT, \_\_\_\_\_

DATE, \_\_\_\_\_

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No.	Class	Object	R. A.	Dec.	Started	Obs. H. A.	Obs. Dec.	Tel. E. or W.	Load	Focus	Prisms	Sky at Start	Stopped	Exp. C'ds	Ck	Dew Ref.	Obs'r	REMARKS	
✓ 2565	Ec	delphidatal	00	+23.0	8	12 0	12W+23.0	-	100	-	-	Hazy & T	8	52	40	1	-	B	x 2768 Stopped by clouds.
✓ 2569	Ec	Same	10	20 +13.0	10	15 0	5E+13.0	-	-	-	-	Hazy & T	11	15	60	-	-	B	
✓ 2570	Ec	Same	11	20 +8.0	11	17 0	3E+8.0	-	-	-	-	Hazy & T	12	17	60	-	-	B	
✓ 2571	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Hazy	13	19	60	-	-	B	
✓ 2572	Ec	Same	13	40 -7.0	13	21 0	19E-7.0	-	-	-	-	Hazy	14	24	63	-	-	B	Too hazy in South to continue.

- We digital, searchable records like:
- Page number, plate number, class (filter), object, RA , Dec, Start time, Obs H.A., Obs Dec, Stop time,

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DATE, \_\_\_\_\_

No.	Class	Object	R. A.	Dec.	Started	Obs. H. A.	Obs. Dec.	Tel. E. or W.	Load	Focus	Prisms	Sky at Start	Stopped	Exp. C'ds	Ck	Dew Ref.	Obs'r	REMARKS	
					E								E						
✓2868	Ec	delphidatal	00	+23.0	8	12 0	12W+23.0	-	100	-	-	Hazy & T	8	52	40	1	-	x B	x 2768 Stopped by clouds.
✓2869	Ec	Same	10	20 +13.0	10	15 0	5E+13.0	-	-	-	-	Hazy & T	11	15	60	-	-	B	
✓2870	Ec	Same	11	20 +8.0	11	17 0	3E+8.0	-	-	-	-	Hazy & T	12	17	60	-	-	B	
✓2871	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Hazy	13	19	60	-	-	B	
✓2872	Ec	Same	13	40 -7.0	13	21 0	19E-7.0	-	-	-	-	Hazy	14	24	63	-	-	B	Too hazy in South to continue.

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DATE, Monday March 27-28 1933

- We digital, searchable records like:
- Page number, plate number, class (filter), object, RA , Dec, Start time, Obs H.A., Obs Dec, Stop time, Exposure length,



# What do I mean by Metadata?

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No.	Class	Object	R. A.	Dec.	Started	Obs. H. A.	Obs. Dec.	Tel. E. or W.	Load	Focus	Prisms	Sky at Start	Stopped	Exp. C'ds	Ck	Dew Ref.	Obs'r	REMARKS	
✓2868	Ec	delphidatal	08	+23.0	8	12 0	12W+23.0	-	100	-	-	Boggy & T	8	52	40	1	-	x B	x 2768 Stopped by clouds.
✓2869	Ec	Same	10	20 +13.0	10	15 0	5E+13.0	-	-	-	-	Boggy & T	11	15	60	-	-	B	
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✓2871	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Boggy	13	19	60	-	-	B	
✓2872	Ec	Same	13	40 -7.0	13	21 0	19E-7.0	-	-	-	-	Boggy	14	24	63	-	-	B	Too hazy in South to continue.

- We digital, searchable records like:
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No.	Class	Object	R. A.	Dec.	Started	Obs. H. A.	Obs. Dec.	Tel. E. or W.	Load	Focus	Prisms	Sky at Start	Stopped	Exp. C'ds	Ck	Dew Ref.	Obs'r	REMARKS	
✓2868	Ec	delphidatal	00	+23.0	8	12 0	12W+23.0	-	100	-	-	Boggy & T	8	52	40	1	-	x B	x 2768 Stopped by clouds.
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✓2870	Ec	Same	11	20 +8.0	11	17 0	3E+8.0	-	-	-	-	Boggy & T	12	17	60	-	-	B	
✓2871	Ec	Same	12	20 0.0	12	19 0	1E 0.0	-	-	-	-	Boggy	13	19	60	-	-	B	
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- We digital, searchable records like:
- Page number, plate number, class (filter), object, RA , Dec, Start time, Obs H.A., Obs Dec, Stop time, Exposure length, Date, Remarks

# Why Transcribe Metadata?

- If we can transcribe our metadata we can make it searchable



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# Why Transcribe Metadata?

- If we can transcribe our metadata we can make it searchable
- If the data is searchable, astronomers will want the data
- If astronomers want the data there will, hopefully, become more money to digitize and save the plates!
- At the end of the day, don't we **need money** to carry on the **mission of preserving and digitizing the plates**?

# Why Transcribe Metadata?

... Well David, how do we do that? there are tens of thousands of lines if not hundreds of thousands of lines to transcribe and I certainly don't have time to do it...

# Why Transcribe Metadata?

... Well David, how do we do that? there are tens of thousands of lines if not hundreds of thousands of lines to transcribe and I certainly don't have time to do it...

I hear your cry – let me propose a solution

# Making Celestial Plate Photography Personal

- First, we need to take pictures of all of the logs.
- Second, we need to recruit people to transcribe them
- Third, we need to correct those transcriptions
- Fourth, we need to publish them.
- Fifth, we need to get people excited and interested

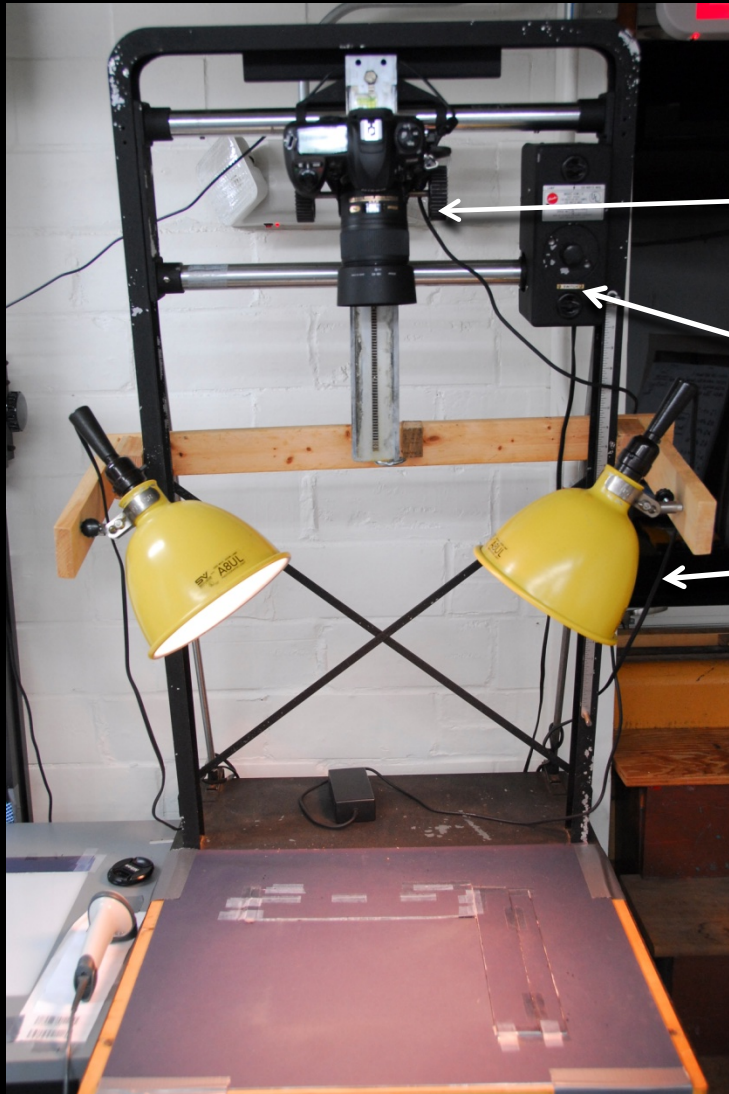
# Making Celestial Plate Photography Personal

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# Photographing Metadata

- What you will need
  - A camera, a copy stand, some lights
  - It might look something like this





Nikon Camera

Old Enlarger Stand

Lights

# Photographing Metadata

- What you will need
  - A camera, a copy stand, some lights
- Resolution > 300 PPI
- Camera should be white balanced
- Best if there is only one light source (aka no sunlight, or mixing of different color lights)

# Making Celestial Plate Photography Personal

- ~~First, we need to take pictures of all of the logs.~~
  - Phew, we finished that part of the project
- Second, we need to recruit people to transcribe them
- Third, we need to correct those transcriptions
- Fourth, we need to publish them.
- Fifth, we need to get people excited and interested

# Recruitment

- What you will need

# Recruitment

- What you will need
  - A whole lot of dedicated people

# Recruitment

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  - A whole lot of dedicated people
  - ... But David where do we find 10s of people if not hundreds of people to help us?

# Recruitment

- What you will need
  - A whole lot of dedicated people
  - ... But David where do we find 10s of people if not hundreds of people to help us?

I'm glad you ask 😊

# Recruitment

- Where you will find them...
  - A whole lot of dedicated people
  - Amateur Astronomers love this work
  - Partnered with the Astronomy League



# Recruitment

- Where you will find them...
  - A whole lot of dedicated people
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# Recruitment

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    - Amateur Astronomers love this work
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  - Major Museums
    - Partnered with American Museum of Natural History in NYC

# Recruitment

- Where you will find them...
  - A whole lot of dedicated people
    - Amateur Astronomers love this work
      - Partnered with the Astronomy League
  - Students at major universities
    - Partnered with AUC
  - Major Museums
    - Partnered with American Museum of Natural History in NYC
  - Government institutions
    - Hoping to work with the Smithsonian

# Making Celestial Plate Photography Personal

- ~~First, we need to take pictures of all of the logs.~~
  - Phew, we finished photographing 80,000 pages of text
- ~~Second, we need to recruit people to transcribe them~~
  - We found hundreds of people to help us transcribe everything – yay ☺
- **Third, we need to correct those transcriptions**
- Fourth, we need to publish them.
- Fifth, we need to get people excited and interested

# Transcription Corrections

- What you will need
  - A computer programmer or an email to DASCH

# Transcription Corrections

- What you will need
  - A computer programmer or an email to DASCH
- What are we doing?
  - Many people, no matter how careful make mistakes when transcribing

# Transcription Corrections

- What you will need
  - A computer programmer or an email to DASCH
- What are we doing?
  - Many people, no matter how careful make mistakes when transcribing
  - We need to figure out how to check their work in an automated way

# Transcription Corrections

The Program might do something like

- Check to make sure the date always increases with the plate number



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- Check to make sure that the Start time + RA = Obs H.A

# Transcription Corrections

The Program might do something like

- Check to make sure the date always increases with the plate number
- Check to make sure that the  $\text{Start time} + \text{RA} = \text{Obs H.A}$
- Check to make sure the  $\text{Stop} - \text{Start} = \text{exposure length}$

# Transcription Corrections

- I hear all of you saying, but what about this exception and what about that exception
- There are no rules – so we will just have to do the best we can.
- We must get start and stop time, or mid time and exp length and date for each plate

# Transcription Corrections

- All other information can be derived from digitization like RA and Dec

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- .... But David, why should we transcribe the RA, Dec, H.A. Obs. Dec and so many other columns?

# Transcription Corrections

- All other information can be derived from digitization like RA and Dec
- .... But David, why should we transcribe the RA, Dec, H.A. Obs. Dec and so many other columns?
- We need to know where the plates are located and what objects they cover so astronomers will advocate for their digitization.

# Transcription Corrections

We must have enough data to describe the plates  
to our peers

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# Transcription Corrections

We must have enough data to describe the plates  
to our peers

We must be accurate with what we publish

We must convince them that we are not only  
opening a gateway to new science

BUT

Will preserve the history and heritage of our field

# Making Celestial Plate Photography Personal

- ~~First, we need to take pictures of all of the logs.~~
  - Phew, we finished photographing 80,000 pages of text
- ~~Second, we need to recruit people to transcribe them~~
  - We found hundreds of people to help us transcribe everything – yay ☺
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  - the correlation of the corrections constructs a new creation to explore
- **Fourth, we need to publish them.**
- Fifth, we need to get people excited and interested

# Publishing

Find a website, make a website, attach yourself to a website

# Publishing

Find a website, make a website, attach yourself to a website

Publish a paper, print out the list and leave it places, email it to everyone

# Publishing

Find a website, make a website, attach yourself to a website

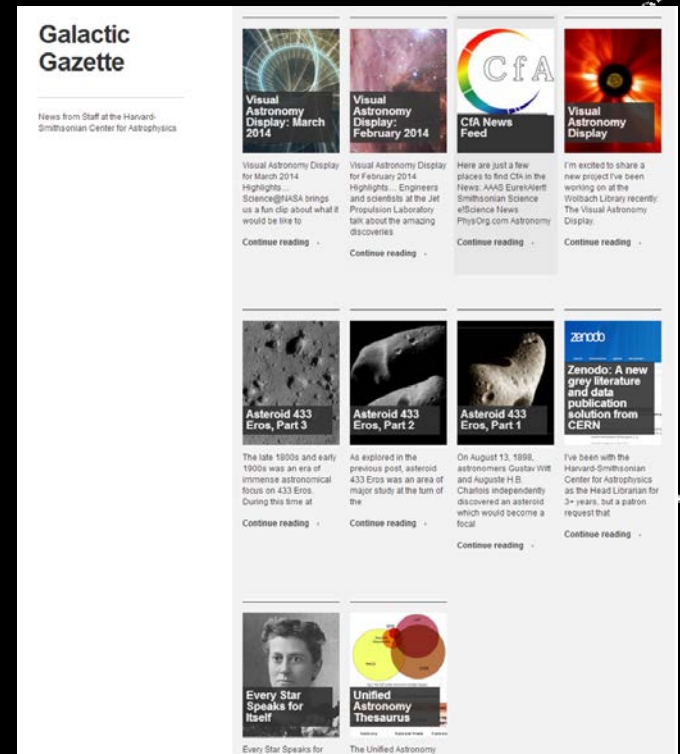
Publish a paper, print out the list and leave it places, email it to everyone

Write a blog post, tweet about it, take pictures and post them to instagram, make a facebook page

# Publishing

Write a **blog post**, tweet about it, take pictures and post them to instagram, make a facebook page

We do our best to find interesting stories and publish them on a blog (government funding anyone?)



# Publishing

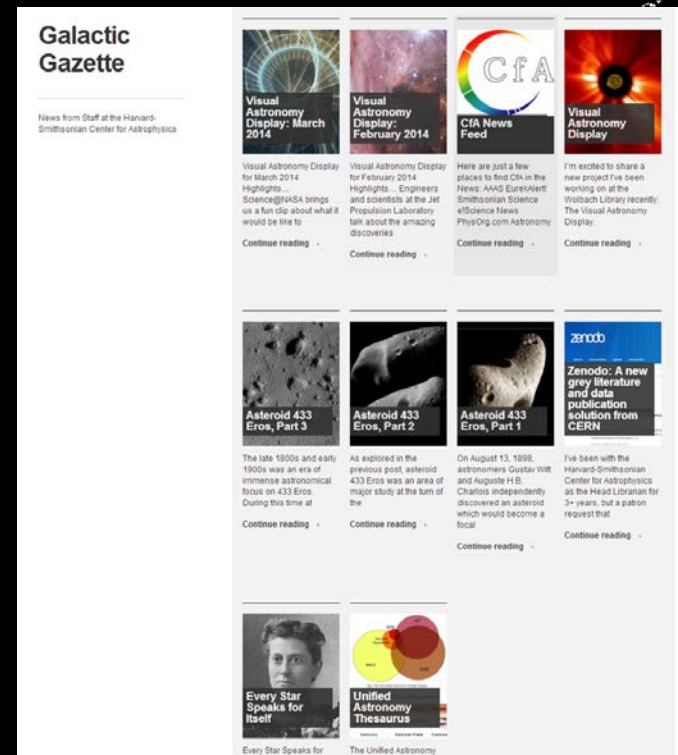
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<http://altbibl.io/gazette/>

We do our best to find interesting stories and publish them on a blog (government funding anyone?)

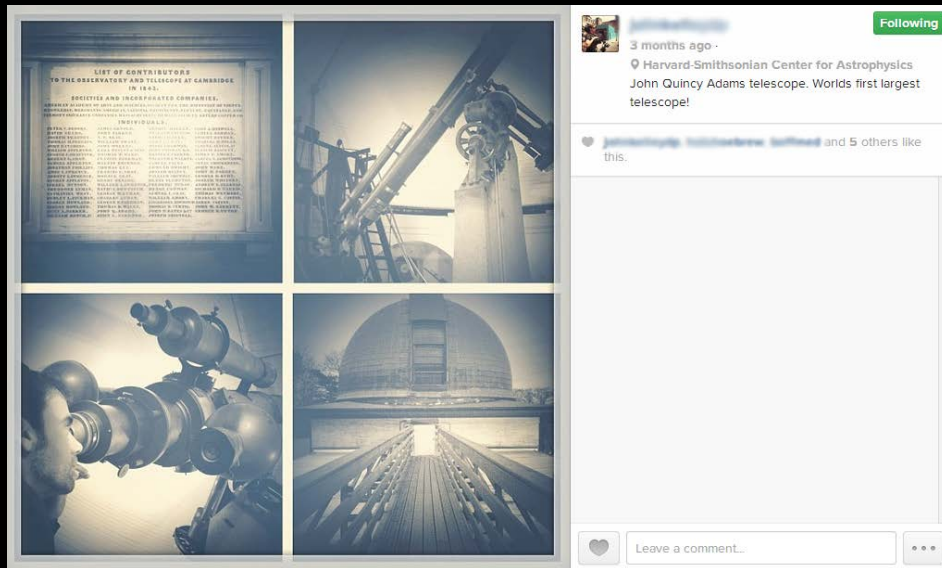
Three part series on Eros

Multi part series about telescopes and their creators on deck next



# Publishing

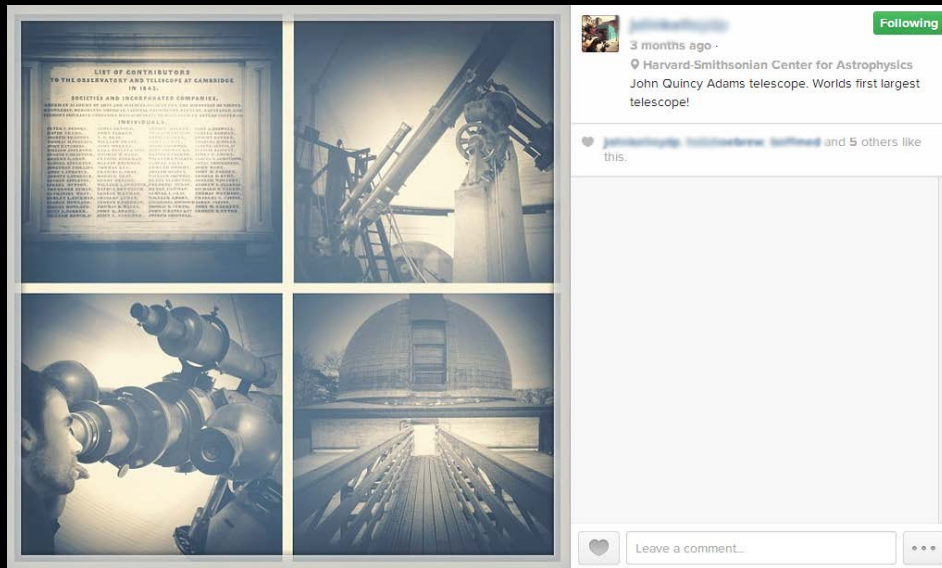
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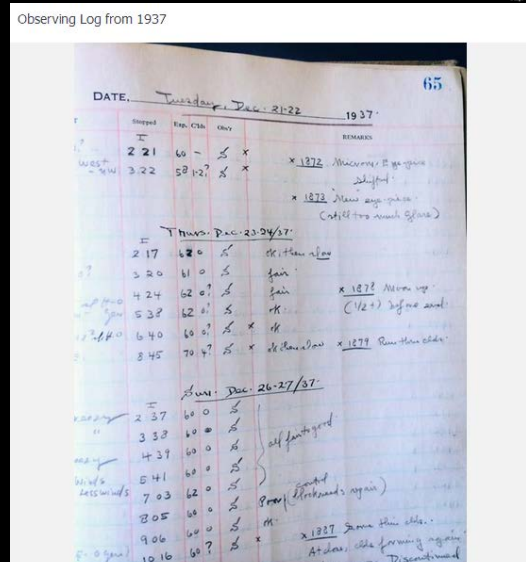


50,000 people saw this photo

# Publishing

Write a blog post, tweet about it, take pictures and post them to instagram, make a **facebook page**

Observing Log from 1937



DATE: Tuesday, Dec. 21-22 1937

	Sex	Ch	Other	REMARKS
2 21	60	-	S	x 1872 Macromys B. sp. sp. sp.
3 22	58	12	S	x 1873 Macromys B. sp. sp. sp. (child to adult sp. sp.)
THURS. Dec. 23-24/37				
2 17	62	0	S	ok then also
3 20	61	0	S	gain
4 24	62	0	S	gain x 1874 Macromys B. sp. sp. sp. (1/2 +) before and
5 38	62	0	S	ok
6 40	60	0	S	ok
8 45	70	4	S	x 1875 Macromys B. sp. sp. sp.
FRI. Dec. 26-27/37				
2 37	60	0	S	ok
3 38	60	0	S	ok
4 37	60	0	S	ok
5 41	60	0	S	ok
7 03	62	0	S	ok
8 05	60	0	S	ok
9 06	60	0	S	ok
10 16	60	0	S	ok

Like · Comment · Share

Alexa Villaume and 24 others like this.

View 1 more comment.

**Amy Furniss** Also, notice they didn't observe on Christmas.... Was it bad weather or did these guys actually take a day off once in awhile?  
March 19 at 8:45pm · Like · 1

**Melinda Soares-Furtado** I'll check several log books from similar years to double check. I imagine it's the latter. Obviously we could learn a thing or two.  
March 19 at 8:47pm · Like · 1

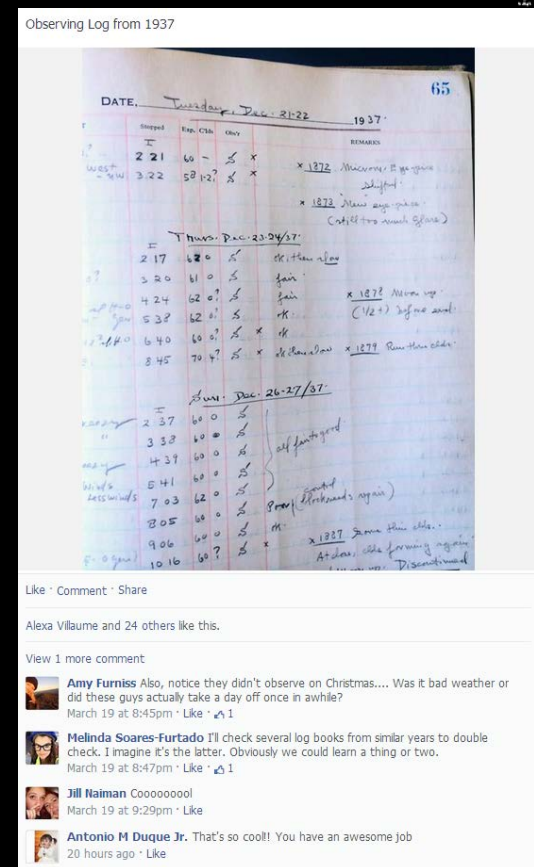
**Jill Naiman** Coooooool  
March 19 at 9:29pm · Like

**Antonio M Duque Jr.** That's so cool! You have an awesome job  
20 hours ago · Like

# Publishing

Write a blog post, tweet about it, take pictures and post them to instagram, make a **facebook page**

25 people “liked” this picture of a logbook in less than 24 hours

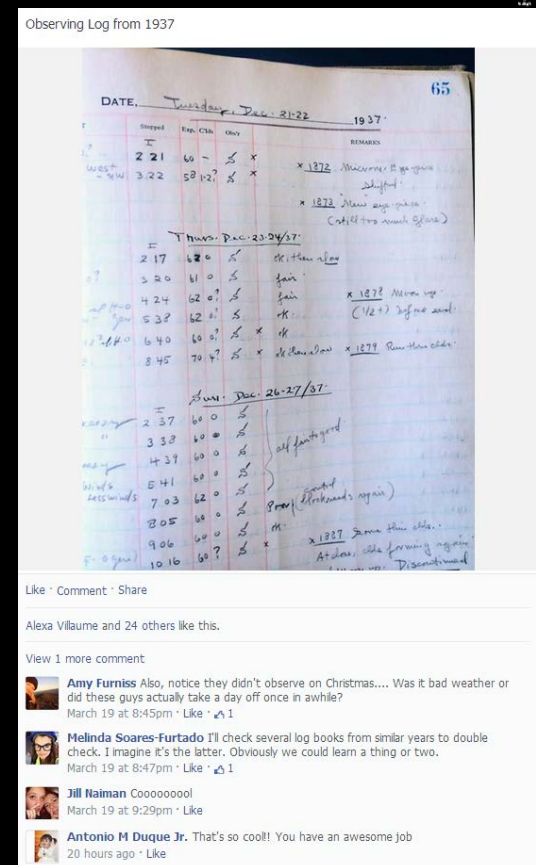


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People even read the logbook  
to notice they did not observe  
on Christmas and asked why?



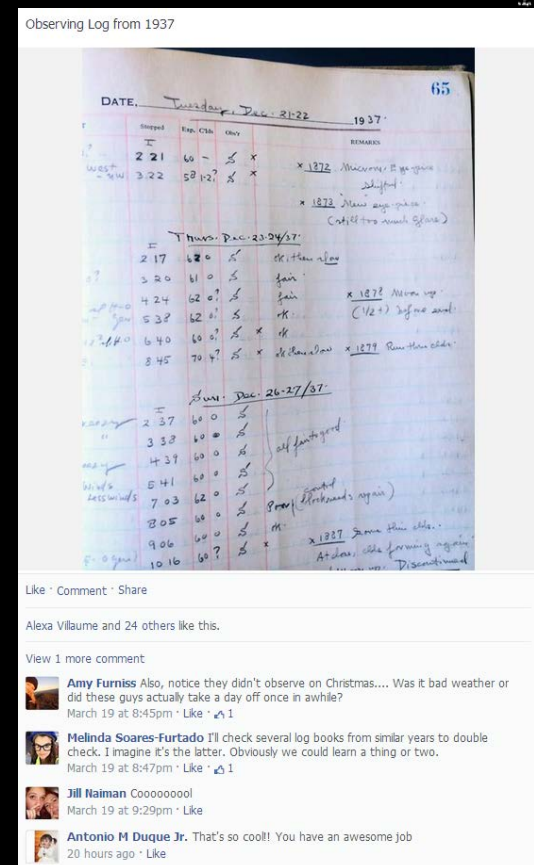
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# General reaction – Coooooooool!



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- ~~Third, we need to correct those transcriptions~~
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- ~~Fourth, we need to publish them.~~
  - Ok, we wrote it up, we got it out there... almost there
- Fifth, we need to get people excited and interested

# Making Celestial Plate Photography Personal

# Making Celestial Plate Photography Personal



# Make Celestial Plate Photography Personal

# Find someone, find anyone, Tell them about the plates

- There is a new science mission which needs to better accuracy on the position of a target.

-

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- There is a new science mission which needs to better accuracy on the position of a target.
- That new female graduate student really seems keen study the stability of stars who harbor exoplanets

# Find someone, find anyone, Tell them about the plates

- There is a new science mission which needs to better accuracy on the position of a target.
- That new female graduate student really seems keen study the stability of stars who harbor exoplanets
- There is this amateur group who is really interested in a particular type of variable stars.

# Conclusion

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# Conclusion

- As Josh just explained – the plates are a *tremendous resource* to the field of astronomy.
- We can't just *tell* people how amazing they are
- We have to *show* them
- The best way to make the *plates personal* is to show them how much data they are missing out on.