

Annie Jump Cannon was born in 1863 and died in 1941. She was an American astronomer who specialized in the classification of stellar spectra.

She studied physics and astronomy at Wellesley College, graduating in 1884. Between 1884 and 1894, she dabbled in photography, but once her mom died, she returned to her studies.

In 1895, she enrolled at Radcliffe and continued her studies under Edward Pickering. In 1901, she published a catalog of stars in which she drastically simplified Flemming's scheme to the classes O, B, A, F, G, K, and M.

Later on, it was discovered that her classification scheme was classifying stars by their temperature, and these spectral classifications became universally adopted. Annie Cannon also discovered 300 variable stars and 5 novae.

After 1924, she extended her work cataloging thousands of stars for the twovolume Henry Draper Extension.

ANNIE JUMP CANNON

FUN FACTS:

- (1) During the period between her late childhood and early adulthood, she suffered from total hearing loss.
- (2) There is an award named after her called the Annie Jump Cannon Award in Astronomy. It is for outstanding research and promises for future research by a postdoctoral woman.
- (3) She has been credited with manually cataloging 350,000 stars, earning her the nickname "the census taker of the sky."

MAJOR ACCOMPLISHMENTS

1901:

Published her first catalog of stars

1921:

Became the first woman to receive a Doctorate of Astronomy degree from Groninger University

1922:

The International Astronomical Union adopted her method (Harvard Classification scheme)

1925:

Earned her first honorary doctorate from Oxford University

1931:

Awarded the Henry Draper Medal of the **National Academy** of Sciences

Citation:

1. Cannon, A.; Pickering, E. Classification of 1,688 Southern Stars by Means of Their Spectra. Annals of Harvard College *Observatory* **1912**, *56* (5), 115–164.

Summary of Research:

Annie's job was to catalog stars with a magnitude (apparent brightness) of nine or more. Originally, her scheme was based on the strength of the Balmer absorption lines. After absorption lines were understood in terms of stellar temperatures, her initial classification system was rearranged to avoid having to update star catalogs. Each star got a letter designation based on its spectral class: O, B, A, F, G, K, M

STEM

Daily Stem News

"Interview of the Century"

News. This volume will include many interviews of world renown

> now to go back in time, which eans we get to interview the bes

you are deaf, but with the beln o ecial hearing aid should make

king the time to speak with me as well as giving me the opportunity eagee to ask you some ques

I would be honored to answer any

Miss Cannon, what is your reason I went into science, and talk with you today when she passed, it just pushed m

I would have to say being able to How did it feel to be able to say he the first woman to earn a that you created the Harvar University. It made my heart so warm that not only did all my hard

I watched the stars from the small home-made observatory we built Well, Miss Cannon together. She taught me everything for your time, and we I know about stars. She was the absolutely loved being ab

1	H.R.	Constellation.	Desig.	DM.	A.G.C.	R. A. 1900.	Dec. 1900.	Magn.	Class.	Rem.	No. Plate.	Plate Numbers.	
						λ. π.		-					
- 3		Cetus	-	334	783	0 47.3	-23 9	7.24	G 0	3		X 11829	
		Cetus	-	334	784	47.3	-23 9	7.24	GO	8	1	A 11829	
	247	Cetus	-	376	791	47.7	-24 33	5.59	K 0	-	1	X 11798	
	251	Cetus	-	338	799	48.3	-25 19	6.44	F 2	4	2	X 11798, B 17413	
-33		Tucana	-	84	806	48.4	-64 17	7.02	F 5	-	2	X 11100, X 12184	
	257	Tucana	-	83	825	49.4	-63 25	5.64	Mb	-	2	X 11100, X 12184	
	270	Tueana	λ ²	40	860	51.2	-70 4	5.34	K 0	-	2	X 12653, X 12692	
	281	Tucana	-	50	910	54.2	-61 14	6.37	A 3	-	1	X 11102	
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		Tucana	-	58	950	57.2	-61 24	6.86	K	-	1	X 11102	
	293	Sculptor	σ	410	953	57.7	-32 6	5.52	A 2	-	2	X 12176, X 12684	
	295	Phoenix	-	220	959	57.8	-57 33	6.00	K 0	-	2	X 11104, X 11118	
		Phoenix	-	260	972	58.7	-41 33	7.16	Ma		1	X 11121	
		Phoenix	-	389	1048	1 2.9	$-42\ 17$	7.26	G	-	2	X 11121, B 12007	
	331	Phoenix	v	391	1052	3.2	-42 1	5.15	A 3	-	1	X 11121	
	332	Tucana	· ·	. 89	1057	3.4	$-62\ 19$	5.32	K 0	-	1	X 11102	
		Sculptor	-	420	1132	8.2	-3544	6.96	K	-	1	X 12246	100
	359	Sculptor	-	420	1133	8.2	-38 23	5.91	A 5	-		X 11361	100
		Tucana	-	127	1237	14.0	-65 44	R	Mb	5	1	X 11099	
	400	Sculptor	-	562	1323	18.9	$-31\ 28$	5.82	K 5	-	2	X 11393, X 11441	
		Sculptor	-	548	1334	19.6	-32 20	6.94	G 5	-	1	X 11393	
	408	Phoenix	-	493	1345	20.2	-42 1	5.33	K 0	-	1	X 11415	
	420	Hydrus	-	130	1373	21.7	-64 53	5.82	K 5	-	1	X 11099	
		Sculptor	-	478	1379	22.5	$-30 \ 45$	6.84	K		1	X 11393	
	436	Sculptor	-	502	1435	25.7	-26 43	6.00	K	_	2	B 4654, B 37064	
		Sculptor	- 1	504	1457	26.9	$-30\ 30$	6.75	K 0	-	1	X 12195	
	441	Sculptor	****	506	1461	27.1	-3048	5.77	K 0	-	2	X 11857, X 12195	
- 33		Cetus	- 1	651	1467	27.4	-24 9	7.22	· A 5		1	X 11813	
	445	Sculptor	-	589	1493	28.4	-37 22	5.49	K0	-		X 11371	
		Cetus	-	658	1492	28.5	-24 41	6.92	K 0	-		X 11813	
		Cetus	-	666	1523	30.1	-24 12	6.53	K0	-	1	X 11813	
		Sculptor	-	540	1546		-30 25	7.13	FO	6	3	X 11857, X 12195, X 12240	
		Sculptor	T		1547		-30 25	6.01					
		Sculptor	-	620	1590	34.0	-37 2	5.96	G 5	-		X 12671, B 5615	
		Cetus	-	272	1588		-2147	5.68	F	-	1	X 11842	
		Eridanus	-	358	1606	35.0	-53 56	7.14	F	-	1	X 11403	
		Eridanus		329	1633	36.0	-5642	6.04	G 5	7	2	X 12251, X 12675	
		Eridanus	p		1634		-5642	5.98	G 5	'			
		Sculptor	T	666	1660		-3249	5.28	K 0	-		X 12658, B 5667	
		Sculptor	-	650	1661		-37 20	5.64	A 0	-	3	X 12665, X 12671, X 12689	
	505	Hydrus	-	130	1677	38.4	-61 17	5.58	K 0	-	1	X 11115	

Cannon, A. Classification of 1,688 Southern by Means of Their Spectra¹