

A proposed pilot project with AAS Journals

Scientists need to be able to get at the data that result in science both to *reproduce* results and produce *new* results

"non-reproducible single occurrences are of no significance to science"

-Karl Popper, The Logic of Scientific Discovery, 1934

While it is possible to track down data from a paper, it's often unpleasantly hard

PN G	Common Name	Hα Exp. Time (s)	[O m] Exp. Time (s)	Proposal ID	PN G	Common Name	Ha Exp. Time (s)	[O m] Exp. Time (s)	Proposal I
000.3+12.2	IC 4634	1000	1000	6856	084.2+01.0	K 4-55	2460	2440	1195
001.2+02.1	Hen 2-262	280	280	9356	084.9-03.4	NGC 7027 ^c	500	100	1112
001.7-04.4	H 1-55	200	280	9356	089.8-05.1	IC 5117	240	320	830
002.3-03.4	H 2-37	280	280	9356	096.4+29.9	NGC 6543	800	1600	540
002.4+05.8	NGC 6369	640	640	9582	106.5-17.6	NGC 7662	200	500	6117, 6943, 839
002.7-04.8	M1-42	900	1800	11185	111.8-02.8	Hb12	1600	1600	1109
002.9-03.9	H 2-39	280	280	9356	138.8+02.8	IC 289	2000	2000	1195
003.5-04.6	NGC 6565	160	320	11122	144.1+06.1	NGC 1501	1600	2000	1195
003.6+03.1	M2-14	280	280	9356	189.1+19.8	NGC 2371-72	1600	1600	1109
003.8+05.3	H2-15	280	280	9356	197.8+17.3	NGC 2392	400	400	849
003.9-03.1	KFL7	280	280	9356	215.2-24.2	IC 418	888	360	6353, 750
004.0-03.0	M 2-29	200	160	9356	231.8+04.1	NGC 2438	2080	2080	1182
004.1-03.8	KFL 11	280	280	9356	215.6+03.6	NGC 2346	200	120	712
004.8-22.7	Hen 2-436	200	160	9356	234.8+02.4	NGC 2440	1600	1600	1109
004.8+02.0	H 2-25	400	400	9356	249.0+06.9	SaSt 1-1	200	280	833
005.2-18.6	StWr 2-21	280	280	9356	261.0+32.0	NGC 3242	100	1200	6117, 7501, 873
006.1+08.3	M 1-20	200	160	9356	261.9+08.5	NGC 2818	1600	2000	1195
006.3+04.4	H2-18	280	280	9356	272.1+12.3	NGC 3132	400	1200	6221, 839
006.4+02.0	M1-31	780	160	9356	285.6-02.7	Hen 2-47	1600	1600	1109
006.8-19.8	Wray 16-423	200	160	9356	285.7-14.9	IC 2448	200	320	1112
006.8+04.1	M3-15	200	160	9356	294.6+04.7	NGC 3918	140	320	1112
007.5+04.3	Th 4-1	280	280	9356	305.1+01.4	Hen 2-90	2325	1210	8345, 910
008.2+06.8	Hen 2-260	200	460	9356	307.5-04.9	MyCn 18	600	1400	622
008.6-02.6	MaC 1-11	280	280	9356	309.1-04.3	NGC 5315	1600	1600	1109
009.3+05.7	Hen 3-1475	830	800	7285	312.3+10.5	NGC 5307	1600	1600	1109
010.0+00.7	NGC 6537	1240	1000	6502	319.6+15.7	IC 4406 ^d	540	600	8726, 931
010.8+18.0	M 2-9	1240	1000	6502	324.0+03.5	PM 1-89	4900	2900	5404, 586
010.8-01.8	NGC 6578	160	320	11122	327.8+10.8	NGC 5882	140	380	1112
019.4-05.3	M1-61	240	320	8307	331.1-05.7	PC 11	200	280	833
025.3+40.8	IC 4593	1600	1600	11093	331.3-12.1	Hen 3-1357	240	368	6039, 839
025.8-17.9	NGC 6818	520	1300	6792, 7501, 8773	331.7-01.0	Mz 3 ^e	1260	1160	6856, 905
027.6+04.2	M 2-43	520	1800	8307	341.8+05.4	NGC 6153	1000	1200	859
034.6+11.8	NGC 6572	180	840	7501, 9839	349.5+01.0	NGC 6302 ^e	2100	2220	1150
036.1-57.1	NGC 7293	1800	1800	5977	351.1+04.8	M 1-19	160	160	935
037.7-34.5	NGC 7009	400	320	8114	351.9-01.9	Wray 16-286	200	280	935
037.8-06.3	NGC 6790	160	200	8307	352.6+03.0	H1-8	200	280	935
043.1+37.7	NGC 6210	320	320	6792	353.5-05.0	JaFu 2/	3600	2000	678
054.1-12.1	NGC 6891	1280	320	11122	354.5+03.3	Th 3-4	280	280	935
054.2-03.4	Necklace Nebula ^a	2000	2000	12675	354.9+03.5	Th 3-6	280	400	935
057.9-01.5	Hen 2-447	520	1800	8307	355.4-02.4	M 3-14	200	160	935
060.1-07.7	NGC 6886	1120	1020	7501, 8345, 8773	355.9+03.6	H1-9	280	280	93
060.8-03.6	NGC 6853	2000	1000	8726	356.1-03.3	H 2-26	280	280	93
063.1+13.9	NGC 6720	480	720	7632, 8726	356.5-03.6	H 2-27	360	400	935
064.1+04.3	M 1-92	680	2080	6533	356.9+04.4	M 3-38	280	280	935
064.7+05.0	BD+30°3639	484	900	8116, 8390	357.1-04.7	H 1-43	200	280	93
065.0-27.3	Ps 1 ^b	11420	1040	6751	357.2+02.0	H 2-13	280	280	93
071.6-02.3	M 3-35	520	1000	8307	358.5-04.2	H1-46	160	160	93
073.0-02.4	K 3-76	6	18	6943	358.5+02.9	Wray 16-282	280	280	93
074.5+02.1	NGC 6881	280	320	8307	358.9+03.4	H 1-19	200	280	93
082.1+07.0	NGC 6884	1100	560	8345, 8390	359.2+04.7	Th 3-14	280	400	93
082.5+11.3	NGC 6833	40	3	6943, 6353	359.3-00.9	Hb5	1300	1000	650
083.5+12.7	NGC 6826	100	100	6117	00710-0019		1000	1000	0.70

We searched MAST for HST WFPC2 or WFC3 coeval Ha and [O iii] images of PNe available by March 2013. This search yielded Ha and [O iii] images for **103** PNe obtained through the F656N and F502N filters, respectively

Guerrero+ 2013

We present a catalogue of photometric and structural properties of **228** nuclear star clusters (NSCs) in nearby late-type disc galaxies. These new measurements are derived from a homogeneous analysis of all suitable Wide Field Planetary Camera 2 (WFPC2) images in the Hubble Space Telescope (HST) archive.

Galaxy	RA (hh:mm:ss)	Dec. (dd:mm:ss)	m - M (mag)	E(B - V) (mag)	B (mag)	B - V (mag)	I (mag)	R ₂₅ (kpc)	e	PA (deg)	Incl. (deg)	Туре	t
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IC 4710	18:28:37.95	-66:58:56.1	29.75	0.079	12.51	0.57	11.19	4.494	0.15	-	34.9	Sm	8.9
NGC 1258	3:14:05.50	-21:46:27.3	32.28	0.022	13.88	-	12.35	5.870	0.26	20.5	43.7	SABc	5.7
NGC 3319	10:39:09.47	41:41:12.5	30.7	0.013	11.77	0.41	11.46	7.289	0.51	36.	62.7	SBc	5.9
NGC 5334	13:52:54.44	-1:06:52.4	32.78	0.041	12.97	-	12.19	17.729	0.28	18.2	44.8	Sc	5.2

Notes: The values for all columns are taken from HyperLeda, except for columns 4 and 5, which are taken from NED. More specifically, the distance modulus m - M in column 4 is the median value in NED. If the latter is not available, we adopt the redshift-derived distance modulus, modz, from HyperLeda.

At Space Telescope there is 1 FTE spent trying to piece this all together; without the authors it's hard!

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A "Solution" without MAST: [coi or data

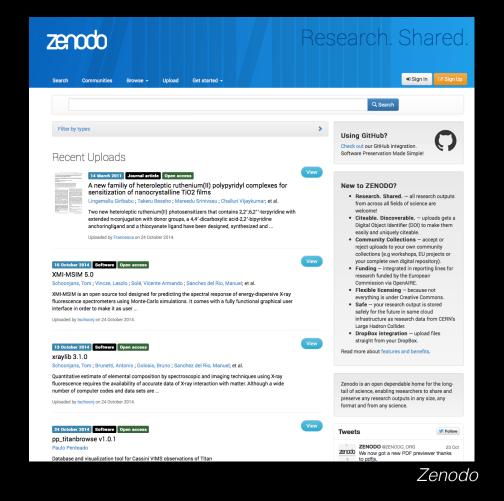
coi : a broadly used, permanent, citable, URL (Basically)

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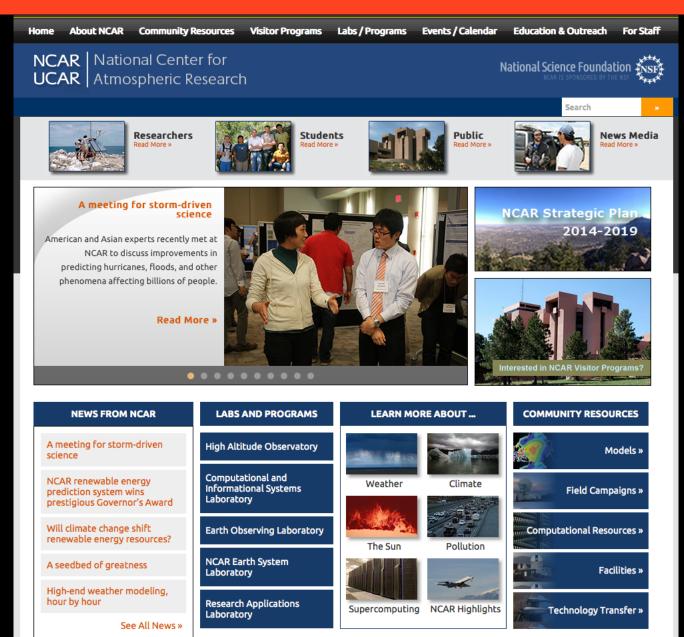
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Places similar to STScI have DOI'ed their own content: it works, but no one uses it!



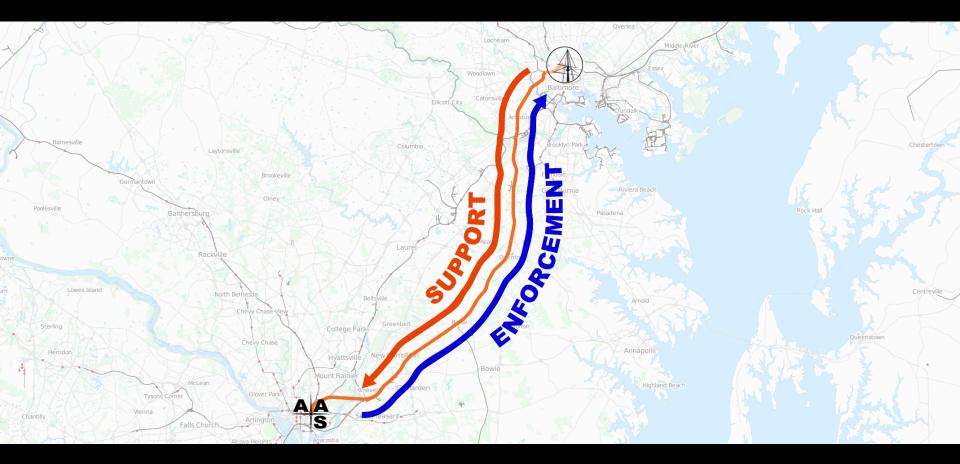
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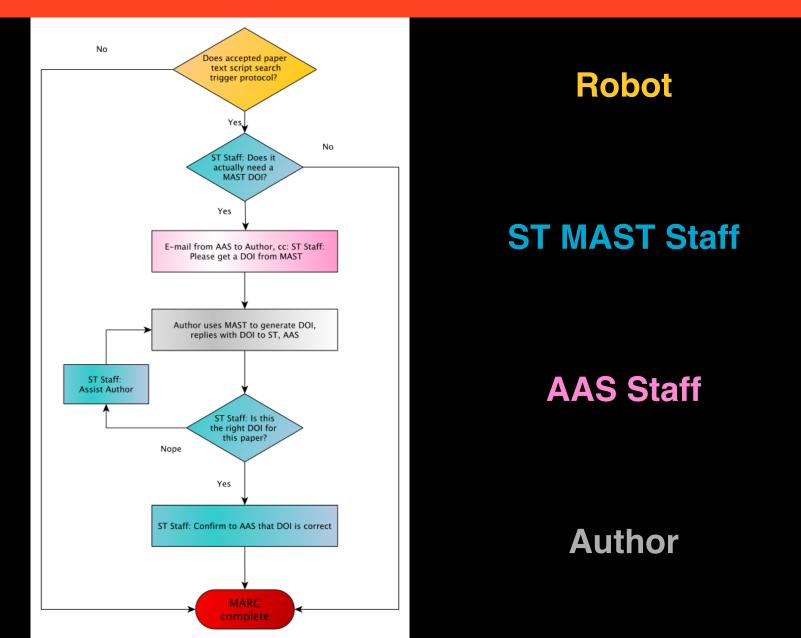
*[citation needed]



connecting the AAS Journals to MAST



We can construct a simple (mock) workflow for AAS Journals, STScI/MAST, and authors



What might this look like for Authors at MAST?

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Questions for the MUG

- Would the ability to make a permanent reference to an arbitrary collection of data be useful to you beyond the context of the journals?
- Would being asked by ApJ/AJ to use MAST to make a link to your data be an undue burden?
- Are there other DOI / data-linking features that could be useful to MAST users?