



# Community Contributed High-Level Science Products (HLSP)

High Level Science Products are community contributed, fully processed images and spectra that are ready for scientific analysis. HLSP also include object catalogs and spectral atlases.

We contact all HST Treasury and Legacy PI's as well as PI's for Large programs. We have also contacted teams who have published data that appears to be of interest to MAST users.

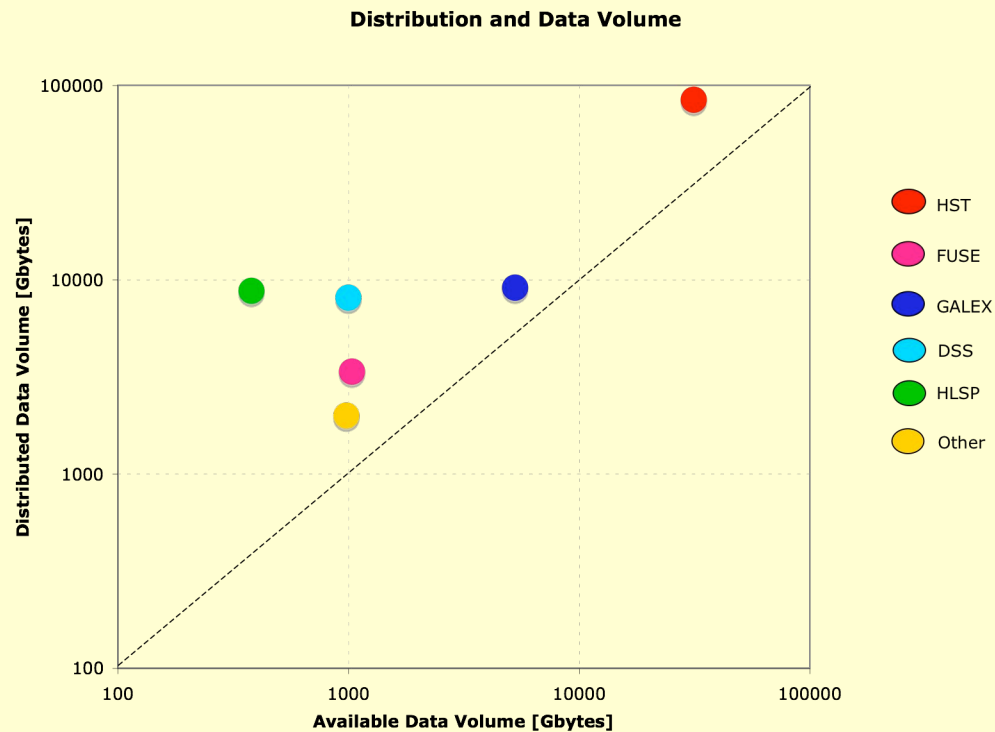
MAST staff that contribute to HLSP include:

Brian McLean, Karen Levay, Randy Thompson, and Myron Smith.



## HLSP Use

This plot compares the data volume for all MAST downloads over the past 4 years to the quantity of data currently stored in MAST for each mission. The line represents equal quantities available and distributed, so it is easy to see that HLSP are very popular.





### Finding HLSP

**MAST**

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**High-Level Science Products**

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Archive Manual

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The Multimission Archive at STScI is a NASA funded...  
 HLSP Project Search  
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Search MAST for a Target or Mission

Enter Target name (or Coordinates):

Resolver:  SIMBAD  NED  Don't Resolve

MAST High-Level Science Products

http://archive.stsci.edu/hlsp/index.html

**High Level Science Products**

High-Level Science Products (HLSP) are community contributed, fully processed (reduced, co-added, cosmic-ray cleaned etc.) images and spectra that are ready for scientific analysis. HLSP also include files such as object catalogs, spectral atlases, and README files describing a given set of data.

Search below to find HLSP of interest by product, object type, and/or wavelength. **Select more than one item in each list by using the shift and the control keys.** Click on the "search" button for a list of the products for that project. The title of the project is a link to more information about the project. You may search for specific targets by using the [HLSP search page](#). You may also be interested in more [information about download options](#). MAST encourages the submission of HLSP based on data from its missions. Please consult the [Guidelines for Contributing HLSP](#) for more information.

Select Product Type: Image atlas, Individual object, Spectral atlas, Survey, Time Series, Composite, Catalog

Select wavelength: IR, Near IR, Optical, Ultraviolet

Select Object Type: AGN, Extragalactic, Galactic, Galaxy: Evolution, Galaxy: Field, Galaxy: Formation, Galaxy: Halos

Image Atlases

- [GALEX Atlas of Nearby Galaxies](#) PI: Armando Gil de Paz
- [Galaxy Halos, Outer disks, Substructure, Thick disks and Star clusters Survey](#) (GHOSTS) PI: Roelof de Jong
- [HST Snapshots of 3CR Radio Galaxies](#) PI: David Floyd
- [Magellanic Cloud Planetary Nebulae](#) PI: Letizia Stanghellini and Richard Shaw
- [Spiral Galaxies](#) PI: Benne Holwerda
- [Ultraviolet Images of Nearby Galaxies](#) PI: Dan Maoz
- [WFPC2 Archival Parallels \(Proposal 9540\)](#) PI: Stefano Casertano

HLSP Search

http://archive.stsci.edu/hlsp/search.php

**HLSP Search Form** (Help)

Standard Form File Upload Form

Search Reset Clear Form

Target Name Resolver Radius (arcmin)

Right Ascension Declination Equinox J2000

Project

- UDF: Ultra Deep Field ACS-WFC
- UDF: Ultra Deep Field NICMOS Treasury
- UDF: Ultra Deep Field ACS-HRC Parallels
- UDF Follow-on Program
- GOODS: Great Observatories Origins Deep Survey
- COsmOS: Cosmic Evolution Survey
- GEMS: Galaxy Evolution from Morphologies and SEDs
- GRAPES: Grism-ACS Program for Extragalactic Science
- GALEX Atlas of Nearby Galaxies
- The WFPC2 Archival Parallels

Instrument Product Type Format

Some HLSP Projects (e.g. WFPC2 Associations) contain thousands of files. We advise further qualification with a target or coordinates when searching on these projects.

User-specified field 1 Field Descriptions User-specified field 2 Field Descriptions

Users may search for types of projects or for specific targets.

We also have lists of all "TALL" programs (HST Treasury, Archival Legacy and Large Programs).



### HLSP products are mapped to originating data

HST Search

http://archive.stsci.edu/hst/search.php

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Mark	Dataset	Target Name	RA (J2000)	Dec (J2000)	Ref	Start Time	Stop Time	Exp Time	Instrument	Apertures	Filters/Gratings	Proposal ID	High-Level Science Products
<input type="checkbox"/>	J9TY5030	COMA-OUTSKIRTS-12	12 57 04.23	+27 31 34.6		2006-12-10 11:48:53	2006-12-10 13:29:41	700.000	ACS	WFC	CLEAR1L,F814W	10861	1
<input type="checkbox"/>	J9TY5040	COMA-OUTSKIRTS-13	12 57 04.23	+27 31 34.6		2006-12-10 11:57:39	2006-12-10 13:43:42	1305.000	ACS	WFC	F475W,CLEAR2L	10861	1
<input type="checkbox"/>	J9TY90030	COMA-OUTSKIRTS-13	12 57 04.44	+27 31 33.5		2007-01-19 14:33:54	2007-01-19 17:32:41	1400.000	ACS	WFC	CLEAR1L,F814W	10861	1
<input type="checkbox"/>	J9TY90040	COMA-OUTSKIRTS-13	12 57 04.44	+27 31 33.5		2007-01-19 14:42:40	2007-01-19 17:47:49	2677.000	ACS	WFC	F475W,CLEAR2L	10861	1
<input type="checkbox"/>	J9TY5030	COMA-OUTSKIRTS-12	12 58 31.38	+27 11 59.1		2007-01-16 19:08:38	2007-01-16 22:32:00	1400.000	ACS	WFC	CLEAR1L,F814W	10861	1
<input type="checkbox"/>	J9TY5040	COMA-OUTSKIRTS-12	12 58 31.38	+27 11 59.1		2007-01-16 19:17:24	2007-01-16 22:47:08	2677.000	ACS	WFC	F475W,CLEAR2L	10861	1
<input type="checkbox"/>	J9TY5030	COMA-OUTSKIRTS-21	12 56 30.03	+27 13 33.7		2007-01-21 07:49:43	2007-01-21 11:06:04	1400.000	ACS	WFC	CLEAR1L,F814W	10861	1
<input type="checkbox"/>	J9TY63040	COMA-OUTSKIRTS-21	12 56 30.03	+27 13 33.7		2007-01-21 07:58:29	2007-01-21 11:21:12	2511.944	ACS	WFC	F475W,CLEAR2L	10861	1
<input type="checkbox"/>	J9TY45030	COMA-OUTSKIRTS-3	12 58 21.77	+27 27 38.8		2006-11-21 09:07:23	2006-11-21 11:09:46	1400.000	ACS	WFC	CLEAR1L,F814W	10861	1
<input type="checkbox"/>	J9TY45040	COMA-OUTSKIRTS-3	12 58 21.77	+27 27 38.8		2006-11-21 09:16:09	2006-11-21 11:24:54	2677.000	ACS	WFC	F475W,CLEAR2L	10861	1
<input type="checkbox"/>	J9TY78030	COMA-OUTSKIRTS-36	12 57 11.00	+27 24 16.3		2006-11-27 22:07:10	2006-11-28 01:04:09	1400.000	ACS	WFC	CLEAR1L,F814W	10861	1
<input type="checkbox"/>	J9TY78040	COMA-OUTSKIRTS-36	12 57 11.00	+27 24 16.3		2006-11-27 22:15:56	2006-11-28 01:19:17	2677.000	ACS	WFC	F475W,CLEAR2L	10861	1
<input type="checkbox"/>	J9TY46030	COMA-OUTSKIRTS-4	12 58 34.23	+27 22 58.9		2007-01-17 19:07:21	2007-01-17 22:29:57	1400.000	ACS	WFC	CLEAR1L,F814W	10861	1
<input type="checkbox"/>	J9TY46040	COMA-OUTSKIRTS-4	12 58 34.23	+27 22 58.9		2007-01-17 19:16:07	2007-01-17 22:45:05	2677.000	ACS	WFC	F475W,CLEAR2L	10861	1
<input type="checkbox"/>	J9TY1030	COMA-1	13 00 46.14	+28 04 54.0		2007-01-09 16:07:37	2007-01-09 18:09:59	1400.000	ACS	WFC	CLEAR1L,F814W	10861	1
<input type="checkbox"/>	J9TY1040	COMA-1	13 00 46.14	+28 04 54.0		2007-01-09 16:16:23	2007-01-09 18:25:07	2677.000	ACS	WFC	F475W,CLEAR2L	10861	1
<input type="checkbox"/>	J9TY02030	COMA-1-2	13 00 30.54	+28 04 54.0		2007-01-09 00:31:32	2007-01-09 05:23:34	1400.000	ACS	WFC	CLEAR1L,F814W	10861	1
<input type="checkbox"/>	J9TY02040	COMA-1-2	13 00 30.54	+28 04 54.0		2007-01-09 00:40:18	2007-01-09 05:38:42	2677.000	ACS	WFC	F475W,CLEAR2L	10861	1
<input type="checkbox"/>	J9TY03030	COMA-1-3	13 00 14.94	+28 04 54.0		2007-01-20 12:37:22	2007-01-20 15:55:01	700.000	ACS	WFC	CLEAR1L,F814W	10861	1

HLSPPMAP Search

http://archive.stsci.edu/hlsp/hlspmap/search.php?hdm\_dataset\_name=J9TY90030&action=Search

Mission Search / Missions / Contacts / STScI / MAST

### HLSPPMAP Search Results

Columns Help / Archive Status

Display numeric columns graphically using VOPlot

number of rows returned = 3

Click on Project entries to view project web site.  
Click on Filename entries to display/download available files.  
Click on Bibcodes to display online paper.

Click on top column headers to sort the table on the column contents.  
Click on bottom column headers for more information about the data in that column.

Project	Filename	Object	RA (J2000)	Dec (J2000)	Instrument	Product Type	Bibcode	Dataset Name
coma	coma_release_note.html					README	J9TY90030	
coma	h_v90_F814W_ivm_drz_cl_ver1.fits	COMA-OUTSKIRTS-13	12 57 04.22	+27 31 34.5	ACS	image	J9TY90030	
coma	h_v90_F814W_rms_ver1.fits	COMA-OUTSKIRTS-13	12 57 04.22	+27 31 34.5	ACS	image	J9TY90030	

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http://archive.stsci.edu/hlsp/hlspmap/search.php

archive@stsci.edu  
Modified: Jan 09, 2007 14:08

Since all HLSP products are mapped to the original data, it is easy to provide links from the original data to associated HLSP from the mission searches.



## **HLSP highlights from last year**

- NICMOS Snapshots of 3CR Radio Galaxies - Floyd et. al
  - <http://archive.stsci.edu/prepds/3cr>
- FUSE Magellanic Clouds Legacy Atlas - Blair et. al
  - [http://archive.stsci.edu/prepds/fuse\\_mc](http://archive.stsci.edu/prepds/fuse_mc)
- STIS Next Generation Spectral Library - Heap et. al
  - <http://archive.stsci.edu/prepds/stisngsl>
- Heritage addition - 3 merging galaxies - Mutchler
  - <http://archive.stsci.edu/prepds/merggal>
- GOODS - Version2 - Giavalisco et.al
  - <http://archive.stsci.edu/prepds/goods>
- UDF/HDF UV Treasury program - Teplitz et. al
  - <http://archive.stsci.edu/prepds/udfuv>
- Coma Cluster Treasury program - Carter et. al
  - <http://archive.stsci.edu/prepds/coma>
- PEARS - Malhotra et. al
  - <http://archive.stsci.edu/prepds/pears>
- GALEX Atlas of Nearby Galaxies - Gil de Paz et. al
  - [http://archive.stsci.edu/prepds/galex\\_atlas](http://archive.stsci.edu/prepds/galex_atlas)



### HST Snapshots 3CR Radio Galaxies - Floyd

MAST:HLSP:HST Snapshots of 3CR Radio Galaxies

<http://archive.stsci.edu/prepds/3cr/>

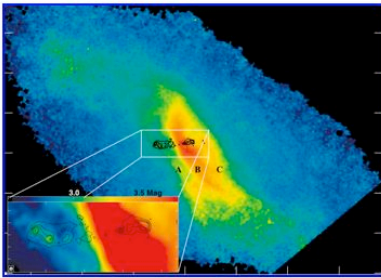
HLSP

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### HST Snapshots of 3CR Radio Galaxies

The revised 3C catalogue (3CR, Bennett 1962) forms a flux-limited sample of the most radio-powerful sources in the northern hemisphere. Over the decade and a half of HST operation we have performed "snapshot" imaging from the near-IR to the near-UV of a large number of these sources. Most recently we have completed a NICMOS 1.6 micron survey of low-redshift ( $z < 0.3$ ) 3CR sources (Madrid et al. 2006, Floyd et al 2008). The fully-reduced data for all 101 sources included in those papers are presented here in numerical order. This includes 90 sources from our SNAP survey and a further 11 from the NIC2 archive. See the above papers for a full discussion of the data. [Brief notes are provided for each object.](#) A [README file](#) is provided with additional information about the project and data reduction.



Click on the desired CR number range to see preview of data and to download the fits files.

[0-99](#) | [100-199](#) | [200-299](#) | [300-399](#) | [400-499](#)

For the optical snapshots see [André Martel's 3CR webpage at Johns Hopkins University.](#)

For information on the radio sources themselves, see [Patrick Leahy's radio atlas at Jodrell Bank.](#)

If you wish to download the fits files via anonymous ftp

```
ftp archive.stsci.edu
login anonymous
cd /pub/hlsp/3cr
```

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0-99

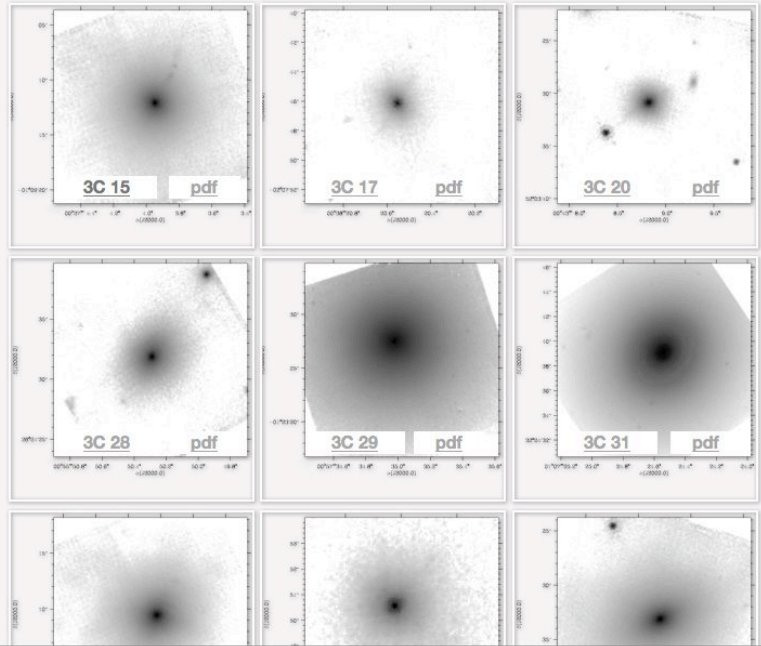
<http://archive.stsci.edu/prepds/3cr/0-99.html>

3CRsnaps 0-99 | 100-199 | 200-299 | 300-399 | 400-499

### 3CR NICMOS snapshots (1.6 micron /H-band)

0-99

Notes



3C 15 pdf

3C 17 pdf

3C 20 pdf

3C 28 pdf

3C 29 pdf

3C 31 pdf



### FUSE Magellanic Cloud Legacy Atlas - Blair

Display numeric columns graphically using VOPlot

number of rows returned = 187

Click on Data ID entries to preview information on data set.  
Click on Spec Type Ref for Spectral Type reference or Photometry Ref for Photometric reference.  
Click on Num DS to see list of coadded spectra

Click on top column headers to sort the table on the column contents.  
Click on bottom column headers for more information about the data in that column.

[Main FUSE Magellanic Cloud page](#)

Mark	Data ID	Target Name	SIMBAD Name	RA (J2000)	Dec (J2000)	Spectral Type	Spectral Type Ref	V Mag	(B-V)	Photometry Ref
<input checked="" type="checkbox"/>	B12805	HD269668	SK -68 111	05 31 00.91	-68 53 56.7	BN1Ia	F91	12.010		FH
<input type="checkbox"/>	P10315	SK-71_45	HD 269676	05 31 15.55	-71 04 08.9	O4-5III(f)	W77	11.510	-0.190	H91
<input type="checkbox"/>	P11748	HDE269687	SK -69 175	05 31 25.61	-69 05 38.4	WN11h	C97	11.900	-0.070	I75
<input type="checkbox"/>	E51137	SK-67_161	HD 269692	05 31 32.90	-67 40 46.6	WN4b	M02	14.530	-0.170	M02
<input type="checkbox"/>	D13804	NGC2004-B30	Cl* NGC 2004 SAAO 376	05 30 47.64	-67 17 22.8	B1III		13.830		FH

- We worked extensively with FUSE Magellanic Cloud team to develop website and associated database and search interface.

**HD269668**

SIMBAD Name: [SK -68 111](#)  
RA: 05 31 00.9  
Dec: -68 53 56.7

Spectral type: BN1Ia  
V Mag: 12.01  
E(B-V): 0.09

FUSE ID: B12805  
Aperture: LWRS  
Exp.Time: 3940

Optical: H $\alpha$  (red), [S II] (green), [O III] (blue)

Infrared: 24  $\mu$ m (red), 8  $\mu$ m (green), 3.6  $\mu$ m (blue)

**Selected Interstellar Lines**

10<sup>-16</sup> erg cm<sup>-2</sup> s<sup>-1</sup> Å<sup>-1</sup>

Ar I 1048.2190, Si II 1020.6950, P II 1152.8180, Fe I 1077.7010, H $\beta$  (R1), H $\delta$  (R1), H $\gamma$  (R1), H $\delta$  (R2), H $\gamma$  (R2), H $\delta$  (R3), H $\gamma$  (R3), H $\delta$  (R4), H $\gamma$  (R4), H $\delta$  (R5), H $\gamma$  (R5), H $\delta$  (R6), H $\gamma$  (R6), H $\delta$  (R7), H $\gamma$  (R7), H $\delta$  (R8), H $\gamma$  (R8), H $\delta$  (R9), H $\gamma$  (R9), H $\delta$  (R10), H $\gamma$  (R10), H $\delta$  (R11), H $\gamma$  (R11), H $\delta$  (R12), H $\gamma$  (R12), H $\delta$  (R13), H $\gamma$  (R13), H $\delta$  (R14), H $\gamma$  (R14), H $\delta$  (R15), H $\gamma$  (R15), H $\delta$  (R16), H $\gamma$  (R16), H $\delta$  (R17), H $\gamma$  (R17), H $\delta$  (R18), H $\gamma$  (R18), H $\delta$  (R19), H $\gamma$  (R19), H $\delta$  (R20), H $\gamma$  (R20), H $\delta$  (R21), H $\gamma$  (R21), H $\delta$  (R22), H $\gamma$  (R22), H $\delta$  (R23), H $\gamma$  (R23), H $\delta$  (R24), H $\gamma$  (R24), H $\delta$  (R25), H $\gamma$  (R25), H $\delta$  (R26), H $\gamma$  (R26), H $\delta$  (R27), H $\gamma$  (R27), H $\delta$  (R28), H $\gamma$  (R28), H $\delta$  (R29), H $\gamma$  (R29), H $\delta$  (R30), H $\gamma$  (R30), H $\delta$  (R31), H $\gamma$  (R31), H $\delta$  (R32), H $\gamma$  (R32), H $\delta$  (R33), H $\gamma$  (R33), H $\delta$  (R34), H $\gamma$  (R34), H $\delta$  (R35), H $\gamma$  (R35), H $\delta$  (R36), H $\gamma$  (R36), H $\delta$  (R37), H $\gamma$  (R37), H $\delta$  (R38), H $\gamma$  (R38), H $\delta$  (R39), H $\gamma$  (R39), H $\delta$  (R40), H $\gamma$  (R40), H $\delta$  (R41), H $\gamma$  (R41), H $\delta$  (R42), H $\gamma$  (R42), H $\delta$  (R43), H $\gamma$  (R43), H $\delta$  (R44), H $\gamma$  (R44), H $\delta$  (R45), H $\gamma$  (R45), H $\delta$  (R46), H $\gamma$  (R46), H $\delta$  (R47), H $\gamma$  (R47), H $\delta$  (R48), H $\gamma$  (R48), H $\delta$  (R49), H $\gamma$  (R49), H $\delta$  (R50), H $\gamma$  (R50), H $\delta$  (R51), H $\gamma$  (R51), H $\delta$  (R52), H $\gamma$  (R52), H $\delta$  (R53), H $\gamma$  (R53), H $\delta$  (R54), H $\gamma$  (R54), H $\delta$  (R55), H $\gamma$  (R55), H $\delta$  (R56), H $\gamma$  (R56), H $\delta$  (R57), H $\gamma$  (R57), H $\delta$  (R58), H $\gamma$  (R58), H $\delta$  (R59), H $\gamma$  (R59), H $\delta$  (R60), H $\gamma$  (R60), H $\delta$  (R61), H $\gamma$  (R61), H $\delta$  (R62), H $\gamma$  (R62), H $\delta$  (R63), H $\gamma$  (R63), H $\delta$  (R64), H $\gamma$  (R64), H $\delta$  (R65), H $\gamma$  (R65), H $\delta$  (R66), H $\gamma$  (R66), H $\delta$  (R67), H $\gamma$  (R67), H $\delta$  (R68), H $\gamma$  (R68), H $\delta$  (R69), H $\gamma$  (R69), H $\delta$  (R70), H $\gamma$  (R70), H $\delta$  (R71), H $\gamma$  (R71), H $\delta$  (R72), H $\gamma$  (R72), H $\delta$  (R73), H $\gamma$  (R73), H $\delta$  (R74), H $\gamma$  (R74), H $\delta$  (R75), H $\gamma$  (R75), H $\delta$  (R76), H $\gamma$  (R76), H $\delta$  (R77), H $\gamma$  (R77), H $\delta$  (R78), H $\gamma$  (R78), H $\delta$  (R79), H $\gamma$  (R79), H $\delta$  (R80), H $\gamma$  (R80), H $\delta$  (R81), H $\gamma$  (R81), H $\delta$  (R82), H $\gamma$  (R82), H $\delta$  (R83), H $\gamma$  (R83), H $\delta$  (R84), H $\gamma$  (R84), H $\delta$  (R85), H $\gamma$  (R85), H $\delta$  (R86), H $\gamma$  (R86), H $\delta$  (R87), H $\gamma$  (R87), H $\delta$  (R88), H $\gamma$  (R88), H $\delta$  (R89), H $\gamma$  (R89), H $\delta$  (R90), H $\gamma$  (R90), H $\delta$  (R91), H $\gamma$  (R91), H $\delta$  (R92), H $\gamma$  (R92), H $\delta$  (R93), H $\gamma$  (R93), H $\delta$  (R94), H $\gamma$  (R94), H $\delta$  (R95), H $\gamma$  (R95), H $\delta$  (R96), H $\gamma$  (R96), H $\delta$  (R97), H $\gamma$  (R97), H $\delta$  (R98), H $\gamma$  (R98), H $\delta$  (R99), H $\gamma$  (R99), H $\delta$  (R100), H $\gamma$  (R100)



### GALEX Atlas of Nearby Galaxies - Gil de Paz (et. al)

Mark	Target Name	RA (J2000)	Dec (J2000)	Distance	E(B-V)	Morphological Type	RC3 T type	SpType	Obsdate	Exposure Time
<input type="checkbox"/>	ARP 256 NED01	00 18 50.90	-10 22 36.6	115.000	0.040	SB(s)b pec?	3.000	HII	2003-09-19 00:00:00	1429 MISDR
<input type="checkbox"/>	ESO 204-G007	05 25 06.00	-48 35 12.2	102.000	0.040	SB(s)b? sp	3.000		2005-01-30 00:00:00	1453 DL
<input type="checkbox"/>	ESO 407-G007	23 09 39.40	-36 25 12.3	21.000	0.010	SAb? sp	3.000		2004-10-07 00:00:00	1663 MISZDFS
<input type="checkbox"/>	ESO 415-G011	02 14 15.60	-32 03 12.1	47.000	0.020	SB(s)b pec?	3.000		2004-12-04 00:00:00	1655 MISZDFS
<input type="checkbox"/>	ESO 469-G015	23 08 55.60	-30 51 28.5	21.000	0.030	Sb: sp	3.000		2004-10-06 00:00:00	1651 MISZDFS
<input type="checkbox"/>	IC 0127	01 29 47.60	-06 58 48.2	27.000	0.040	Sb: sp	3.000		2003-10-20 00:00:00	1706 NGA
<input type="checkbox"/>	IC 0159	01 46 25.10	-08 38 11.9	55.000	0.030	SB(rs)b pec:	3.000		2003-10-14 00:00:00	1292 MISDR
<input type="checkbox"/>	IC 0792	12 27 08.80	+16 19 31.4	83.000	0.030	Sc(s)II	3.000		2004-04-13 00:00:00	376 NGA
<input type="checkbox"/>	IC 1063	14 52 11.00	+04 40 55.4	201.000	0.040	SBb	3.000		2004-05-28 00:00:00	3668 MISDR
<input type="checkbox"/>	IC 1102	15 11 04.90	+04 17 37.9	181.000	0.040	Sb:	3.000	Sy1	2004-05-27 00:00:00	539 MISDR
<input type="checkbox"/>	IC 1254	17 11 33.40	+72 24 07.2	23.000	0.050	Sb? pec	3.000		2003-10-07 00:00:00	1640 NGA
<input type="checkbox"/>	IC 4229	13 22 26.10	-02 25 05.8	100.000	0.030	(R)SB(r)b pec:	3.000		2004-05-09 00:00:00	1544 MISDR
<input type="checkbox"/>	IC 5287	23 09 20.30	+00 45 23.3	139.000	0.040	(R)SB(r)b	3.000	Sv1.2	2003-08-24 00:00:00	3181 MISDR

After publication of the associated paper, we created database and search interface using tables from the paper for this HLSP.

### ARP 256 NED01

**Target Information**

RA: 00 18 50.9  
Dec: -10 22 36.6  
E(B-V): 0.04  
Distance to the galaxy: 115 Mpc  
Distance Modulus: 35.3  
NED Morphological Type: SB(s)b pec?  
Morphological Type T: 3 ± 1.3  
Spectral type from NED: HII

**Observed UV Magnitudes and Colors**

Observed Asymptotic FUV band AB mag: 16.13 mag ± 0.03  
Observed Asymptotic NUV band AB mag: 15.72 mag ± 0.04  
Observed Asymptotic (FUV-NUV) color: 0.43 mag ± 0.05  
Observed D25 ellipse FUV band mag: 16.22 mag ± 0.01  
Observed D25 ellipse NUV band mag: 15.83 mag ± 0.01  
Observed D25 ellipse (FUV-NUV) color: 0.4 mag ± 0.02  
Foreground FUV extinction: 0.28 mag  
Foreground NUV extinction: 0.29 mag

**Foreground-extinction-corrected UV properties**

Asymptotic FUV band mag: 15.85 mag ± 0.03  
Asymptotic NUV band mag: 15.43 mag ± 0.04  
Asymptotic (FUV-NUV) color: 0.43 mag ± 0.05  
D25 ellipse FUV band mag: 15.94 mag ± 0.01  
D25 ellipse NUV band mag: 15.54 mag ± 0.01





### STIS Next Generation Spectral Atlas - Heap

This set of HLSP was set up in record time. The data were delivered, verified, the web pages created, and the data released in about 24 hours.

MAST STIS Next Generation Spectral Library (AR 10659)

*Spectroscopic surveys of galaxies at z~1 or more bring the rest-frame ultraviolet into view of large, ground-based telescopes. This spectral region is rich in diagnostics, but these diagnostics have not yet been calibrated in terms of the properties of the responsible stellar population(s). Such calibrations are now possible with Hubble's Next Generation Spectral Library (NGSL). This library contains UV-optical spectra (0.2-1.0 microns) of 378 stars having a wide range in temperature (14,000K to 3700K), luminosity, and metallicity. We have derived the basic stellar parameters from the optical spectral region (0.35 - 1.0 microns) and are using them to calibrate UV spectral diagnostic indices and colors. - From AAS meeting #211, #162.25, Heap and Lindler.*

The STIS Next Generation Spectral Library (NGSL) contains STIS spectra of 370 stars observed in HST programs 9088, 9786, and 10222. The Library was produced as part of the archival research program, 'Constraining Both the Star-Formation History and Metal-Enrichment History of Galaxies' (AR10659) and was provided by Don Lindler and Sara Heap. Michael Gregg and David Silva were the PI's for the proposals that obtained the data. Gregg presented an HST calibration workshop paper that gives an overview of the project.

Each spectrum includes spectral segments from gratings G230LB, G430L, and G750L merged to form a single spectrum covering ~0.2-1.0μ. NGSL spectra were constructed via custom pipeline processing followed by corrections for in-order scatter by grating G230LB and corrections for throughput variations caused by the mis-centering of the target in the 0.2 arcsecond-wide slit. All steps are documented in the [readme file \(PDF\)](#) provided by the authors. A summary of the observations and derived stellar parameters is included in section 4 of the readme file.

You may download data from the list of data linked below or ftp it from the anonymous ftp site on archive.stsci.edu then cd /pub/hisp/stisngsl.

The table at the link below provides some basic information about the data. A preview provided by the team is available by clicking on the "Preview" link. The green line on the preview is the model. You may download the data by clicking on the file name. Some users may need to right click.

[LIST OF DATA](#)

BD+112998  
 Teff: 5876  
 Log(g): 2.77  
 Log(Z): -0.60  
 alpha: n  
 E(B-V): 0.128

MAST STIS Next Generation Spectral Library

[README \(PDF\)](#) | [Back to first page](#)

Filename	Object	Coordinates	Data Quality	Fit Quality	FIT RMS	Teff	Log(g)	Log(Z)	alpha
<a href="#">h_stis_ngsl_bd+112998_v1.fits</a> <a href="#">Preview</a>	BD+112998	16 30 16.76 +10 59 51.47	good	1	0.0220523	5875.56	2.77228	-0.600000	n
<a href="#">h_stis_ngsl_bd+363168_v1.fits</a> <a href="#">Preview</a>	BD+363168	18 32 20.07 +36 59 55.65	suspect	3					
<a href="#">h_stis_ngsl_bd+413306_v1.fits</a> <a href="#">Preview</a>	BD+413306	19 19 00.59 +41 38 01.95	good	1	0.0272445	5155.56	4.54919	-0.348889	n
<a href="#">h_stis_ngsl_bd-122669_v1.fits</a> <a href="#">Preview</a>	BD-122669	08 46 39.53 -13 21 25.76	good	1	0.0177348	6959.63	4.08622	-1.86222	a
<a href="#">h_stis_ngsl_bd092860_v1.fits</a> <a href="#">Preview</a>	BD092860	14 13 19.75 +08 36 39.93	suspect	1	0.0297093	5925.93	3.49897	-0.662223	a
<a href="#">h_stis_ngsl_bd174708_v1.fits</a> <a href="#">Preview</a>	BD174708	22 11 31.45 +18 05 34.24	good	1	0.0177805	6174.45	3.80118	-1.87556	a
<a href="#">h_stis_ngsl_bd292091_v1.fits</a>		10 47 22.10							



## Near term HLSP

- **ANGST (ACS Nearby Galaxy Survey Treasury Program) - Dalcanton**
  - Team will have own web site we will host data and simple website.
- **Ultraviolet Cataclysmic Variable Atlas (FUUSE) - Godon**
  - We are working with PI to develop database, interface and atlas page.
  - This atlas will release with observed data but will eventually include theoretical data.
  - Team plans to add STIS data to the atlas in the future.
- **Carina Nebula - Mutchler / Smith**
  - Max and student working with Nathan Smith to create large mosaic of Carina Nebula.



## Longer Term HLSP

- STAGES (Space Telescope A901/902 Galaxy Evolution Survey) - Gray
- HAGGLES (HST Archive Galaxy-scale Gravitational Lens Survey) - Marshall
- New reprocessing of IUE High Dispersion data - Van Steenburg
- Other HST Treasury programs