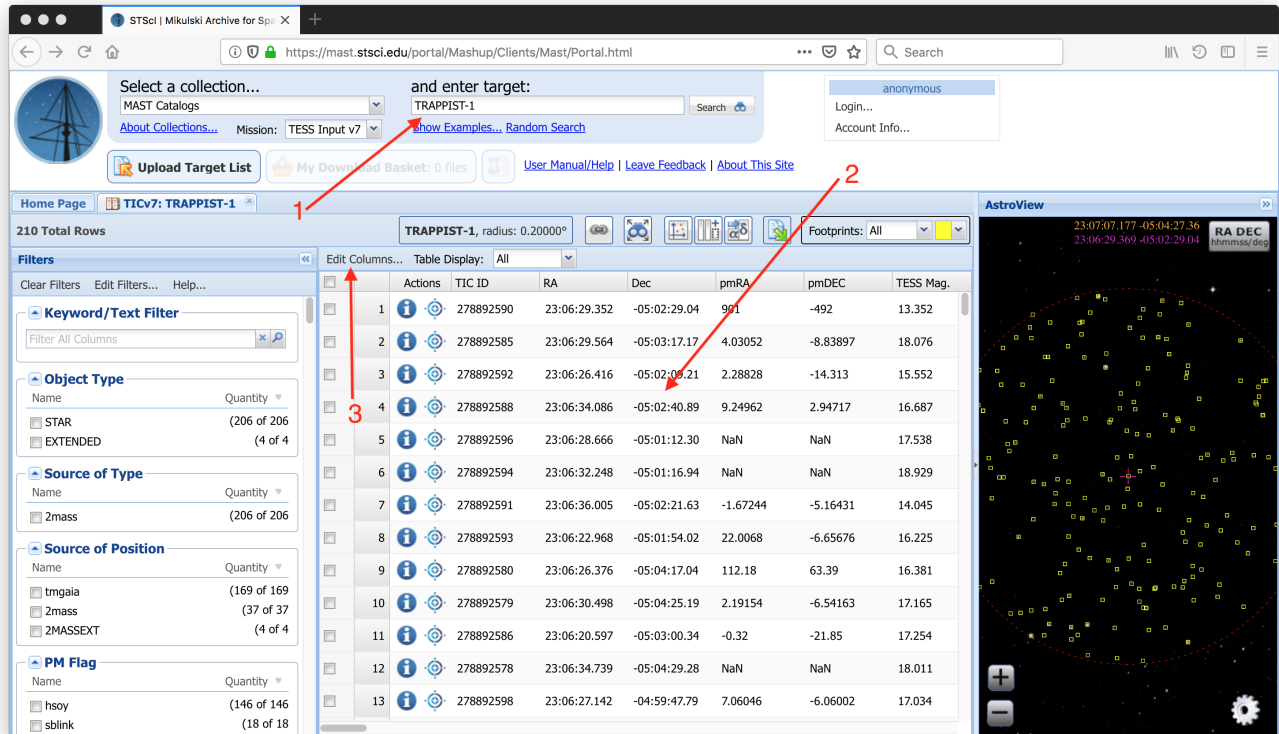


6.0.4 - Customized Output Columns: Goddard Format.

This tutorial will show you how to customize which columns are included when you export a table in the [MAST Portal](#). Specifically, we will show how to select only those columns expected by the Goddard Mission Office when submitting target lists for the Guest Investigator Program.

Step 1 - Search On "TRAPPIST-1": We will begin this tutorial having done a search centered on TRAPPIST-1 (**Item #1**). Our search results show up in the Search Results Grid (**Item #2**). Now we want to download a specific subset of the available columns. To do this, we will need to make use of the **Edit Columns...** option (**Item #3**).



The screenshot shows the MAST Portal interface. At the top, there's a search bar with "TRAPPIST-1" entered. Below the search bar, there's a table of search results. The table has columns: Actions, TIC ID, RA, Dec, pmRA, pmDEC, and TESS Mag. The table contains 13 rows of data. To the left of the table, there's a sidebar with filters. At the bottom of the sidebar, there's a button labeled "Edit Columns...".

Actions	TIC ID	RA	Dec	pmRA	pmDEC	TESS Mag.
1	278892590	23:06:29.352	-05:02:29.04	991	-492	13.352
2	278892585	23:06:29.564	-05:03:17.17	4.03052	-8.83897	18.076
3	278892592	23:06:26.416	-05:02:09.21	2.28828	-14.313	15.552
4	278892588	23:06:34.086	-05:02:40.89	9.24962	2.94717	16.687
5	278892596	23:06:28.666	-05:01:12.30	NaN	NaN	17.538
6	278892594	23:06:32.248	-05:01:16.94	NaN	NaN	18.929
7	278892591	23:06:36.005	-05:02:21.63	-1.67244	-5.16431	14.045
8	278892593	23:06:22.968	-05:01:54.02	22.0068	-6.65676	16.225
9	278892580	23:06:26.376	-05:04:17.04	112.18	63.39	16.381
10	278892579	23:06:30.498	-05:04:25.19	2.19154	-6.54163	17.165
11	278892586	23:06:20.597	-05:03:00.34	-0.32	-21.85	17.254
12	278892578	23:06:34.739	-05:04:29.28	NaN	NaN	18.011
13	278892598	23:06:27.142	-04:59:47.79	7.06046	-6.06002	17.034

Step 2 - Deselect All Columns: In the Edit Columns menu, use the **Select None** option (**Item #1**) to deselect all the columns. We will add the columns we want next.

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https://mast.stsci.edu/portal/Mashup/Clients/Mast/Portal.html

Select a collection... MAST Catalogs About Collections... Mission: TESS Input v7

Upload Target List My Download Base

Home Page TICv7: TRAPPIST-1

210 Total Rows

Filters

Clear Filters Edit Filters... Help...

Keyword/Text Filter

Filter All Columns

Object Type

Name Quantity

STAR (206 of 206)

EXTENDED (4 of 4)

Source of Type

Name Quantity

2mass (206 of 206)

Source of Position

Name Quantity

tmgaia (169 of 169)

2mass (37 of 37)

2MASSEXT (4 of 4)

PM Flag

Name Quantity

hsoy (146 of 146)

sblink (18 of 18)

Edit Columns

Select All Select None

☒ TIC ID

☒ RA

☒ Dec

☒ pmRA

☒ pmDEC

☒ TESS Mag.

☐ Object Type

☐ Source of Type

☐ Version

☐ HIP

☐ TYC ID

☐ UCAC ID

☐ 2MASS ID

☐ SDSS ID

☐ ALLWISE ID

☐ GAIA ID

☐ APASS ID

☐ KIC ID

☐ Source of Position

☐ pmRA Err.

☐ pmDec Err.

☐ PM Flag

☐ Parallax

☐ Parallax Err.

☐ Source of Parallax

☐ Gal. Long.

pmRA pmDEC TESS Mag.

9.04 901 -492 13.352

7.17 4.03052 -8.83897 18.076

9.21 2.28828 -14.313 15.552

10.89 9.24962 2.94717 16.687

2.30 NaN NaN 17.538

6.94 NaN NaN 18.929

11.63 -1.67244 -5.16431 14.045

14.02 22.0068 -6.65676 16.225

7.04 112.18 63.39 16.381

15.19 2.19154 -6.54163 17.165

10.34 -0.32 -21.85 17.254

9.28 NaN NaN 18.011

17.79 7.06046 -6.06002 17.034

AstroView

23:07:05.127 -04:50:11.56

23:06:29.369 -05:02:29.04

RA DEC

hhmmss/deg

Step 3 - Select Columns You Want To Keep: Select the columns you will want to download using the checkboxes in the list of available columns (Item #1). For this example, we will select the TIC ID, RA, Dec, pmRA, pmDEC, and TESS Mag. columns.

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https://mast.stsci.edu/portal/Mashup/Clients/Mast/Portal.html

Select a collection... MAST Catalogs About Collections... Mission: TESS Input v7

Upload Target List My Download Base

Home Page TICv7: TRAPPIST-1

210 Total Rows

Filters

Clear Filters Edit Filters... Help...

Keyword/Text Filter

Filter All Columns

Object Type

Name Quantity

STAR (206 of 206)

EXTENDED (4 of 4)

Source of Type

Name Quantity

2mass (206 of 206)

Source of Position

Name Quantity

tmgaia (169 of 169)

2mass (37 of 37)

2MASSEXT (4 of 4)

PM Flag

Name Quantity

hsoy (146 of 146)

sblink (18 of 18)

Edit Columns

Select All Select None

☒ TIC ID

☒ RA

☒ Dec

☒ pmRA

☒ pmDEC

☒ TESS Mag.

☐ Object Type

☐ Source of Type

☐ Version

☐ HIP

☐ TYC ID

☐ UCAC ID

☐ 2MASS ID

☐ SDSS ID

☐ ALLWISE ID

☐ GAIA ID

☐ APASS ID

☐ KIC ID

☐ Source of Position

☐ pmRA Err.

☐ pmDec Err.

☐ PM Flag

☐ Parallax

☐ Parallax Err.

☐ Source of Parallax

☐ Gal. Long.

pmRA pmDEC TESS Mag.

9.04 901 -492 13.352

7.17 4.03052 -8.83897 18.076

9.21 2.28828 -14.313 15.552

10.89 9.24962 2.94717 16.687

2.30 NaN NaN 17.538

6.94 NaN NaN 18.929

11.63 -1.67244 -5.16431 14.045

14.02 22.0068 -6.65676 16.225

7.04 112.18 63.39 16.381

15.19 2.19154 -6.54163 17.165

10.34 -0.32 -21.85 17.254

9.28 NaN NaN 18.011

17.79 7.06046 -6.06002 17.034

AstroView

23:07:05.127 -04:50:11.56

23:06:29.369 -05:02:29.04

RA DEC

hhmmss/deg

Step 4 - Use The Export Button To Save Results: After you have selected the columns you want to download, close the Edit Columns menu using the 'X' button at the top-right of the menu. You will now see only the columns you selected in the Search Results Grid. We are now ready to download our results using the **Export** button (**Item #1**).

The screenshot shows the MAST portal interface. At the top, there's a search bar with 'TRAPPIST-1' entered. Below the search bar, there's a table of search results. A red arrow points to the 'Export' button in the top right of the results grid. The table has columns: Actions, TIC ID, RA, Dec, pmRA, pmDEC, and TESS Mag. The table contains 13 rows of data.

Actions	TIC ID	RA	Dec	pmRA	pmDEC	TESS Mag.
1	278892590	23:06:29.352	-05:02:29.04	901	-492	13.352
2	278892585	23:06:29.564	-05:03:17.17	4.03052	-8.83897	18.076
3	278892592	23:06:26.416	-05:02:09.21	2.28828	-14.313	15.552
4	278892588	23:06:34.086	-05:02:40.89	9.24962	2.94717	16.687
5	278892596	23:06:28.666	-05:01:12.30	NaN	NaN	17.538
6	278892594	23:06:32.248	-05:01:16.94	NaN	NaN	18.929
7	278892591	23:06:36.005	-05:02:21.63	-1.67244	-5.16431	14.045
8	278892593	23:06:22.968	-05:01:54.02	22.0068	-6.65676	16.225
9	278892580	23:06:26.376	-05:04:17.04	112.18	63.39	16.381
10	278892579	23:06:30.498	-05:04:25.19	2.19154	-6.54163	17.165
11	278892586	23:06:20.597	-05:03:00.34	-0.32	-21.85	17.254
12	278892578	23:06:34.739	-05:04:29.28	NaN	NaN	18.011
13	278892598	23:06:27.142	-04:59:47.79	7.06046	-6.06002	17.034

Step 5 - Customize Output Options: In the **Export Table As...** window, you can specify an output file name and choose your output file format. Then, make sure the **Displayed** option in the **Which Columns?** section is selected (**Item #1**), and the table you download will contain only those columns that you specified.

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https://mast.stsci.edu/portal/Mashup/Clients/Mast/Portal.html

Search



Select a collection...
MAST Catalogs
[About Collections...](#)

and enter target:
TRAPPIST-1
[Show Examples...](#) [Random Search](#) [Advanced Search](#)

anonymous
Login...
Account Info...

Upload Target List

My Download Basket: 0 files

[User Manual/Help](#) | [Leave Feedback](#) | [About This Site](#)

Home Page

TICv7: TRAPPIST-1

210 Total Rows

TRAPPIST-1, radius: 0.20000°

Footprints: All

AstroView

Filters

Clear Filters Edit Filters... Help...

Keyword/Text Filter

Filter All Columns

Object Type

Name

Quantity

STAR

(206 of 206)

EXTENDED

(4 of 4)

Source of Type

Name

Quantity

2mass

(206 of 206)

Source of Position

Name

Quantity

tmgala

(169 of 169)

2mass

(37 of 37)

2MASSEX

(4 of 4)

PM Flag

Name

Quantity

hsoy

(146 of 146)

sblink

(18 of 18)

Actions

TICv7

1 2 3 4 5 6 7 8 9 10 11 12 13

278892593 23:06:22.968 -05:01:54.02 22.0068 -6.65676 16.225

278892580 23:06:26.376 -05:04:17.04 112.18 63.39 16.381

278892579 23:06:30.498 -05:04:25.19 2.19154 -6.54163 17.165

278892586 23:06:20.597 -05:03:00.34 -0.32 -21.85 17.254

278892578 23:06:34.739 -05:04:29.28 NaN NaN 18.011

278892598 23:06:27.142 -04:59:47.79 7.06046 -6.06002 17.034

Export Table As...

File

File Name: TICv7_TRAPPIST_1.csv

Format: Comma Separated (.csv)

Which Columns? All ☐ Displayed ☒

Export Cancel

nDEC

TESS Mag.

192 13.352

8.83897 18.076

14.313 15.552

94717 16.687

aN 17.538

aN 18.929

5.16431 14.045

-6.65676 16.225

63.39 16.381

-6.54163 17.165

-21.85 17.254

NaN NaN 18.011

-6.06002 17.034

23:07:05.127 -04:50:11.56

23:06:29.369 -05:02:29.04

RA DEC

hmmss/deg