Abstract

`make_mask_merge` creates cheese images for individual exposures using the merged source list from `merge_source_list`. It makes the masks in the three bands of the merged source list: soft, hard, and combined.

1 Instruments/Modes

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPIC</td>
<td>Imaging</td>
</tr>
</tbody>
</table>

2 Use

- pipeline processing: no
- interactive analysis: yes

3 Description

`make_mask_merge` creates cheese images for individual exposures using the merged source list from `merge_source_list`. It makes the masks in the three bands of the merged source list: soft, hard, and combined.

Warning and requirements: `make_mask_merge` is part of the `esas` package integrated into SAS, but it is limited to work within the `esas` data reduction scheme. This is specially true wrt the structure and names of the input files. In particular, `merge_source_list` assumes that other tasks from the package, `mos-spectra` / `pn-spectra`, `cheese` or `cheese-bands`, and `merge_source_list` have been successfully run for the lists to be used. If `cheese` has been run just the total band mask will be created.

4 Parameters

This section documents the parameters recognized by this task (if any).
### Input Files

merged-source-list.fits

### Output Files

Cheese masks in three bands for the specified exposure.
- {mos} or {pnprefix=msl-cheese.fits} – Total band cheese mask.
- {mos} or {pnprefix=msl-cheese-s.fits} – Soft band cheese mask.
- {mos} or {pnprefix=msl-cheese-h.fits} – Hard band cheese mask.
7 Algorithm

8 Comments

References