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make_mask_merge

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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

	Instrument	Mode	
EPIC		Imaging	

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).

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Parameter	Mand	Type	Default	Constraints



XMM-Newton Science Analysis System

srclist string merged-source-list.fits yes Merged source list from merge_source_list prefix 1S001 string Exposure identifier. inmask mos1S001-mask-imyes string 750-1250.fits Input mask file name. flimtot yes real Combined band source flux threshold (10^{-14} cgs) . flimsoft yes real Soft band source flux threshold (10^{-14} cgs) . flimhard real yes Hard band source flux threshold (10^{-14} cgs) . scale real yes Scale factor for W90 radius. yes Minimum allowed source separation in arc second. maxlikelim real Minimum accepted value for the maximum likelihood detetion parameter. clobber boolean T/Fno

yes

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Clobber existing files?

5 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.

- Algorithm
- Comments

References