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# JINGLE FIR Maps Information
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# Refer to Smith et al. (2019) for a description of the map making and properties.
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As part of JINGLE DR1 we release the WISE, PACS, SPIRE and SCUBA-2 images for the entire JINGLE sample. Details of the products are given for each instrument below

WISE

The WISE maps are split into two separate files one for the signal image, and one for the uncertainty (or 'error') image. All maps are provided in units of Jy/pixel.

PACS

The PACS maps are provided as fits cube (default of Jscanamorphos), where along the third axis the following images are present:

- [1] Signal image in units of Jy/pixel
- [2] Uncertainty map (or 'Error' map) in units of Jy/pixel
- [3] Map of the number of separate Herschel observations has contributed to that pixel (see Smith et al. 2017)
- [4] Weight map - analogues to number of measurements that have contributed to that pixel.

SPIRE

The SPIRE maps are split into separate files, one for the signal image, and one for the uncertainty (or 'error') image. Unlike the *H-ATLAS* data release the maps are provided in units of Jy/pixel, and are optimised for extended sources.

SCUBA-2

Unlike the other FIRE bands, for the 850 μ m SCUBA-2 we provide a few versions of the map (see Smith et al. (2019) for full details), in the table below we give the different versions and possible uses of the maps:

Version	Details and Uses
Standard	The standard SCUBA-2 map provided by our pipeline, at native resolution. The signal image is calibrated in units of mJy arcsecond ⁻² . The files are multi-extension FITS files, with the first extension the signal data. The second extension is a Variance map in units (mJy arcsecond ⁻²) ² , estimated from all the detector measurements in that pixel. The third is the Quality map which shows the location of emission masks (see Smith et al. (2019), 0 is within the mask, 1 is outside). This map is recommended for flux extraction, and any unique post-processing (e.g., special spatial filtering).
Gauss-12	This map corresponds to the standard map but a 12" FWHM Gaussian filter has been applied. This map is primarily for visual inspection, as the Gaussian filter enhances extended features. If using this map care is advised as neighbouring pixels are no longer independent. Note that the same multiple extensions as provided by the 'standard' map are present, we have not validated the Variance map in this case.
Gauss-24	Exactly the same as 'Gauss-12', except a 24" FWHM Gaussian filter has been applied.
Matched Filtered	In this version of the map our 'standard' map has had the full JCMT default matched filter procedure applied (i.e., convolved with the PSF and a smoothed image subtracted). This image is optimised for the analysis of point sources. Any studies where the emission is known to be point like, will get optimum signal-to-noise from this map. Note that unusually we still provide the image in units of mJy arcsecond ⁻² , to covert to the standard mJy beam ⁻¹ the user can multiply the image by 251.