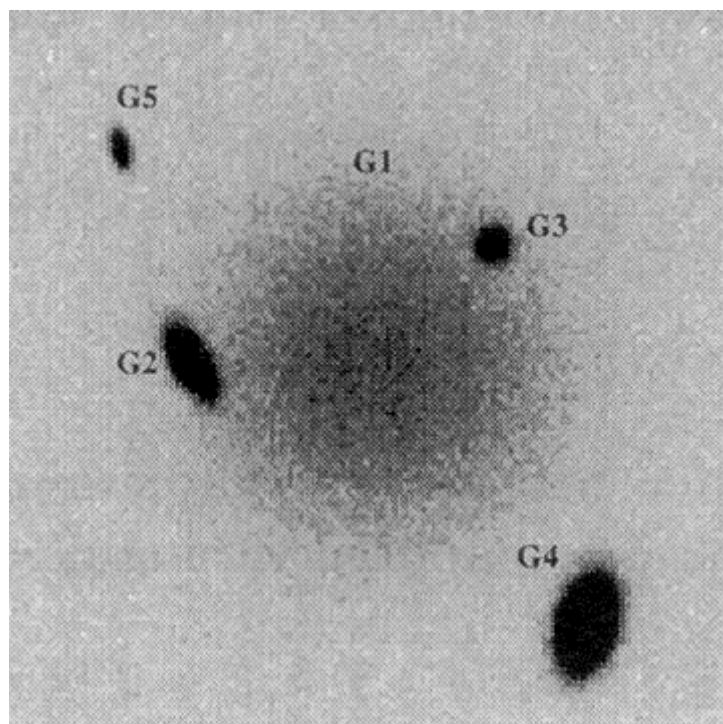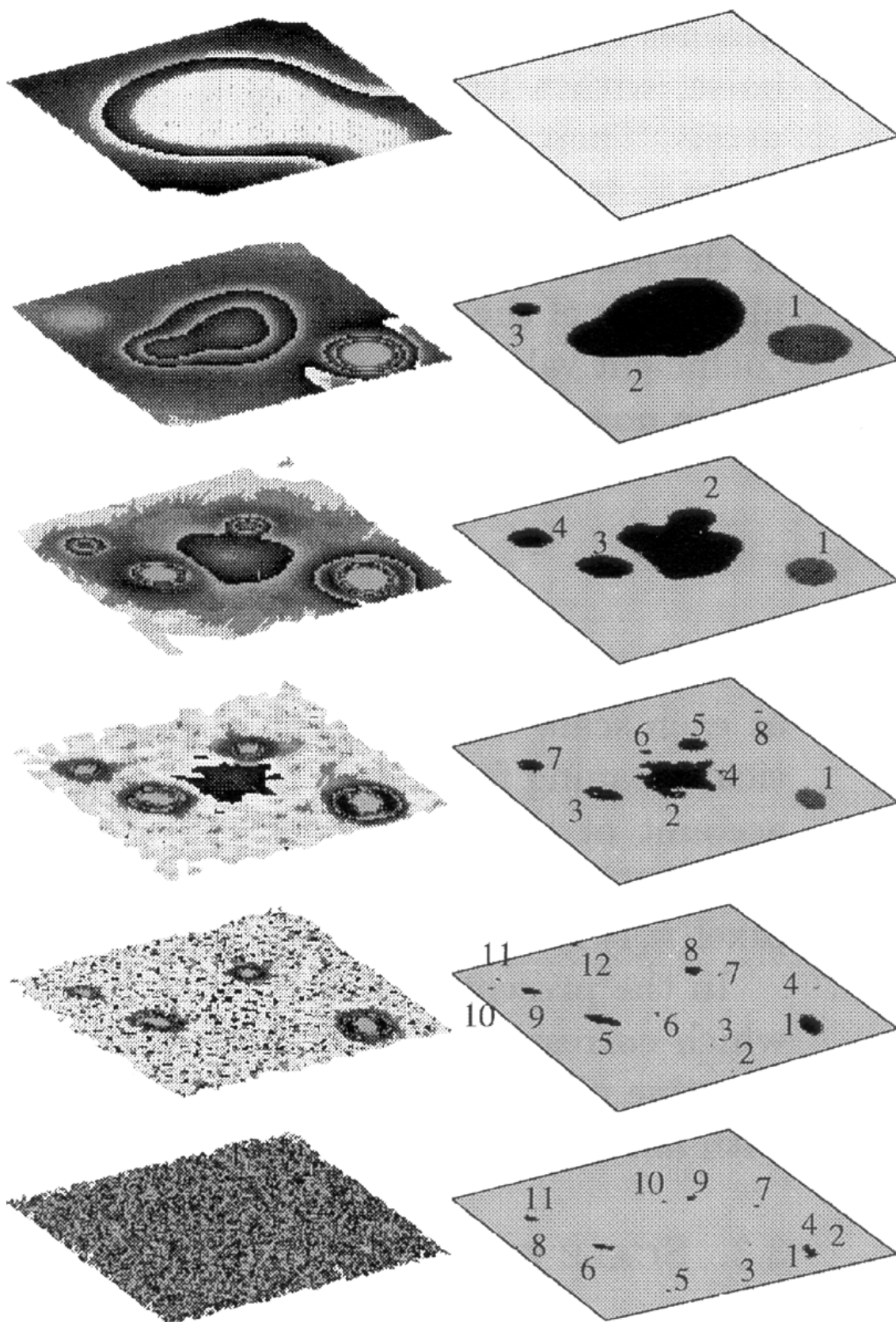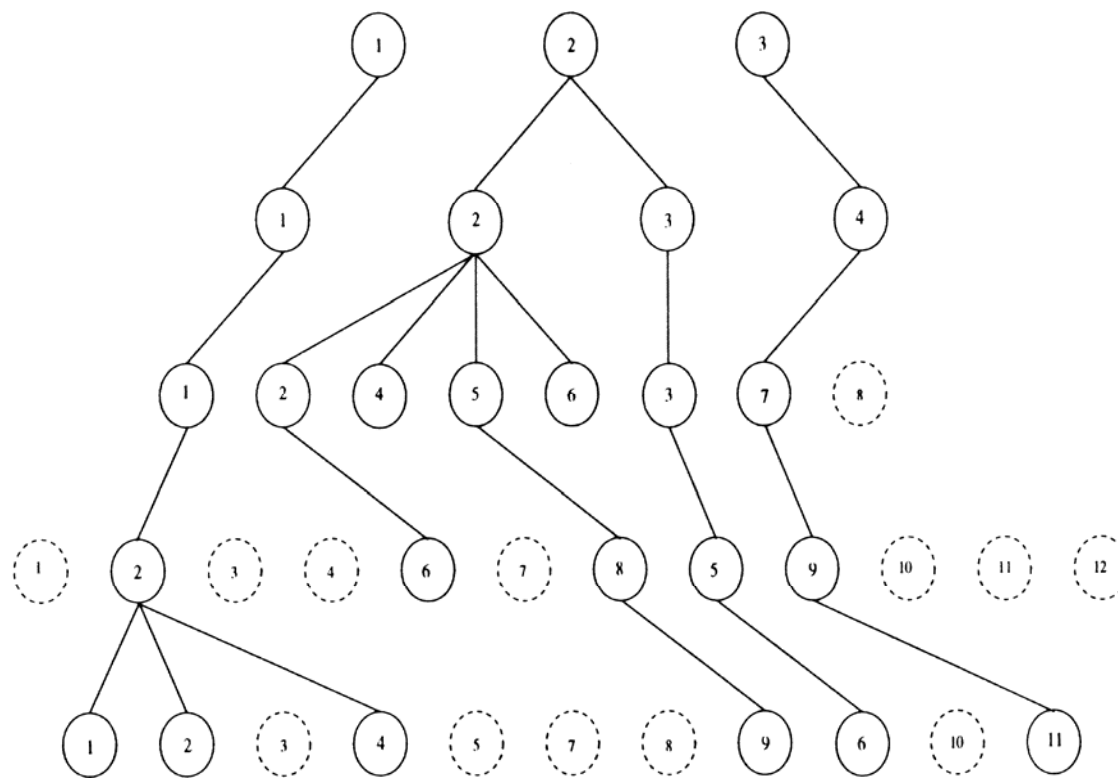Multiresolution analysis of Cas A, MECS, Fe band
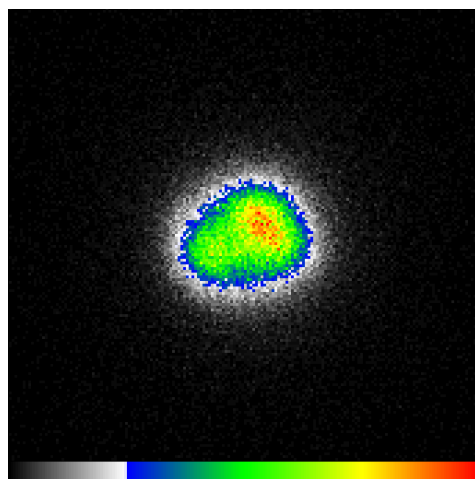
A test image with Gaussian patterns

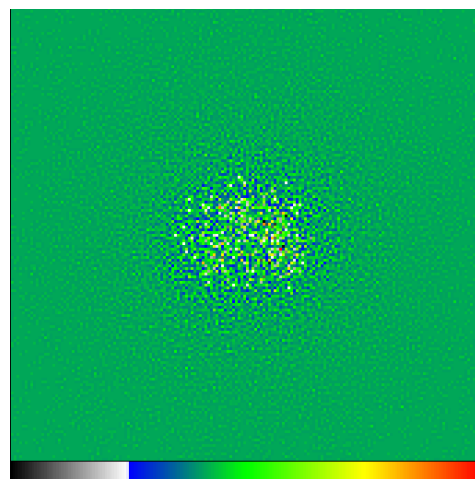The WT and the segmented WT of the test image

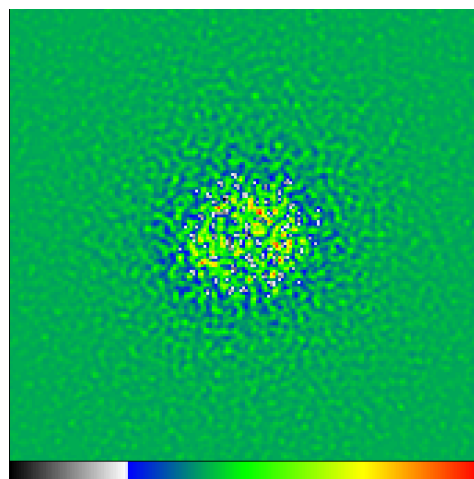The interscale graph of the test image

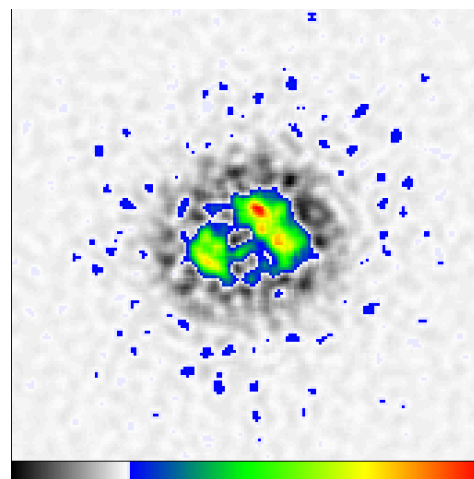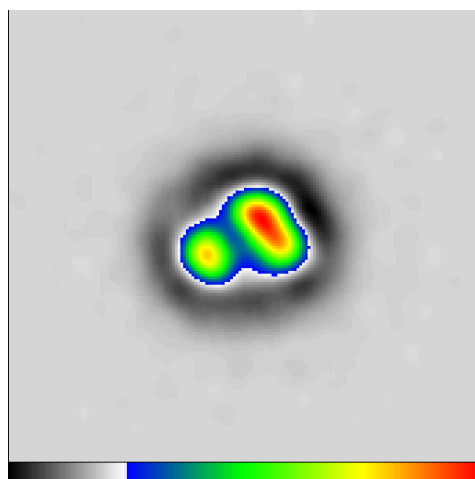Cas A, MECS, Fe band, à trous, B$_1$-spline
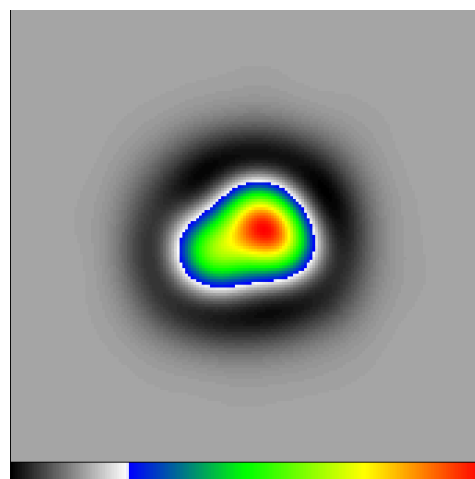

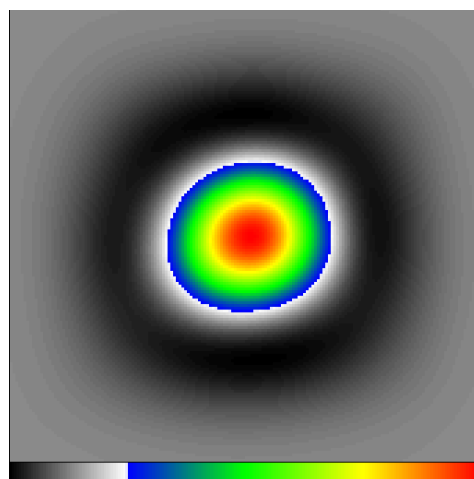Scale 0 (input image)   Scale 1   Scale 2   Scale 3
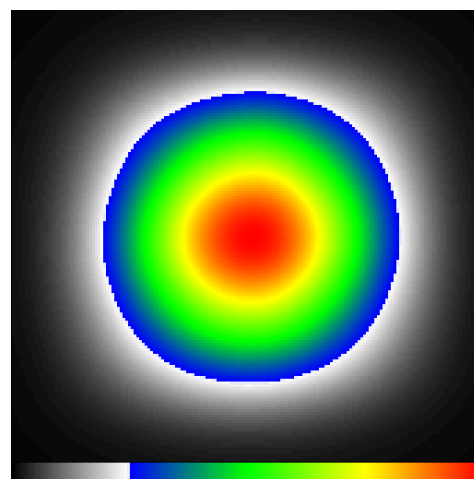
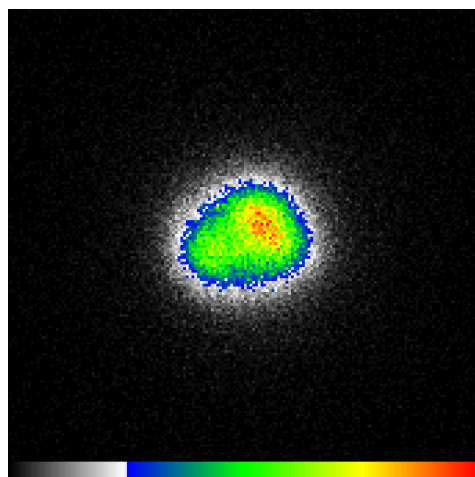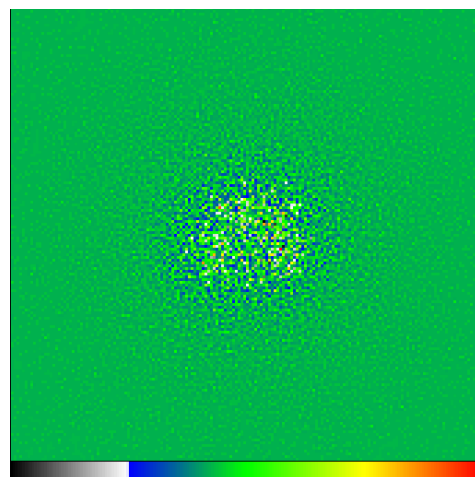Scale 4   Scale 5   Scale 6   Scale 7
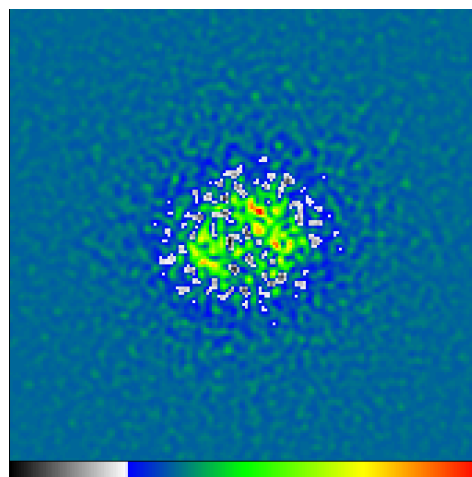
Cas A, MECS, Fe band, à trous, B$_3$-spline
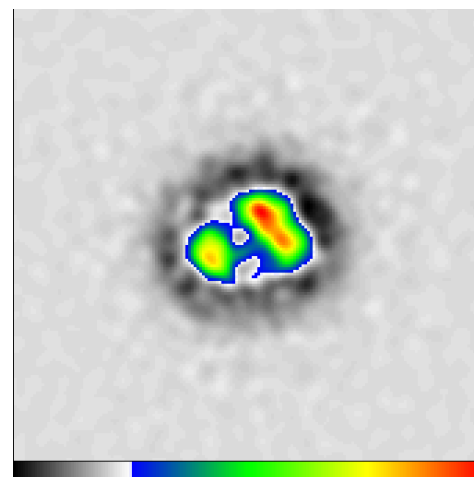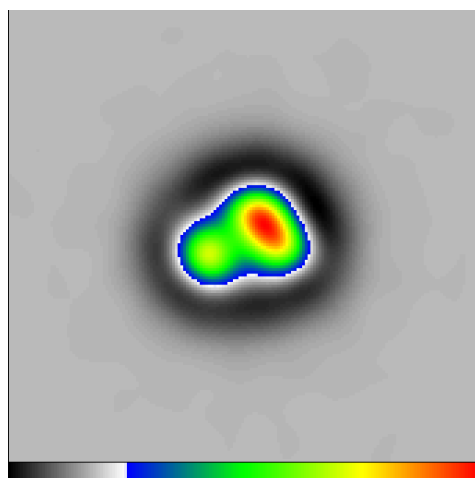
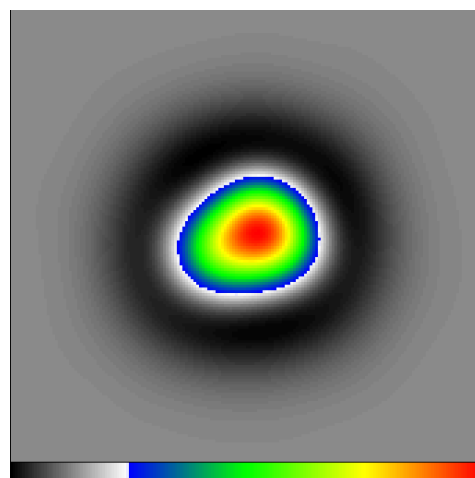Scale 0 (input image)   Scale 1   Scale 2   Scale 3
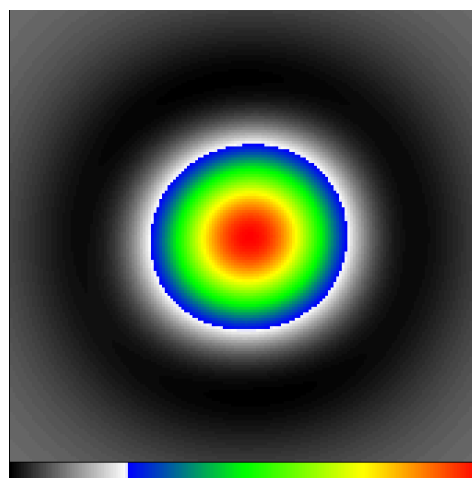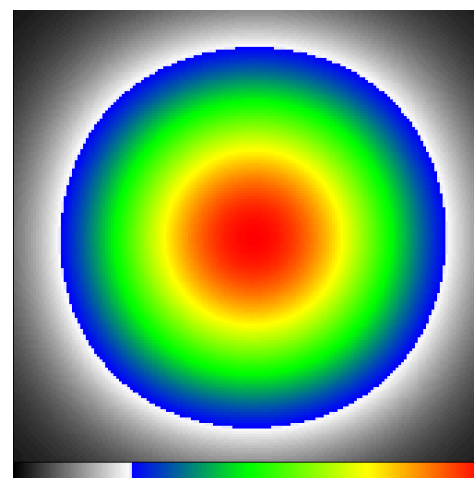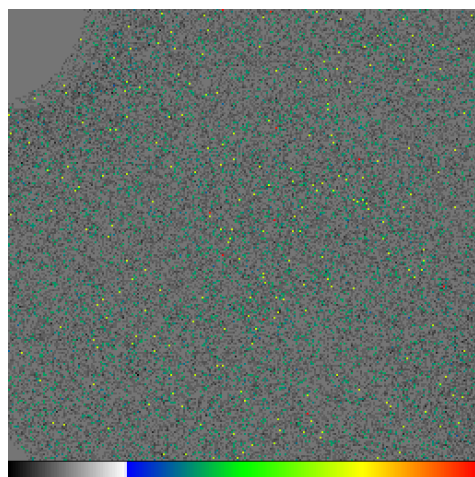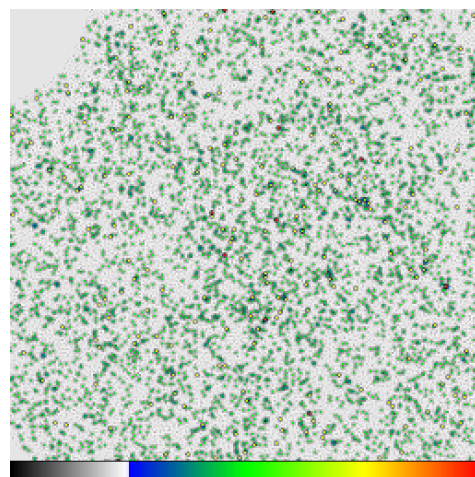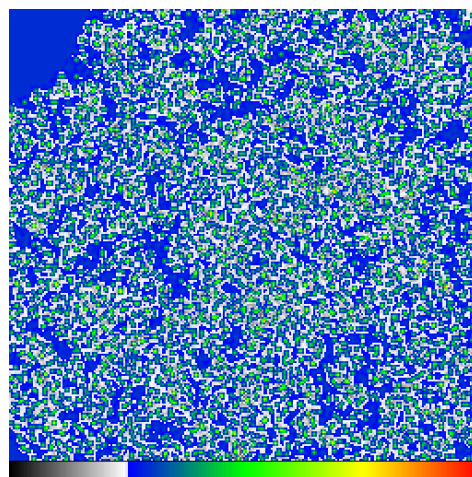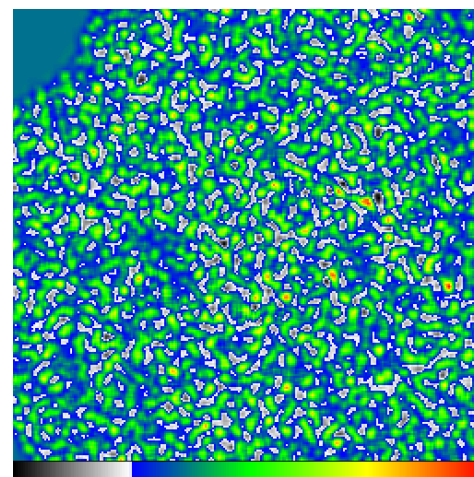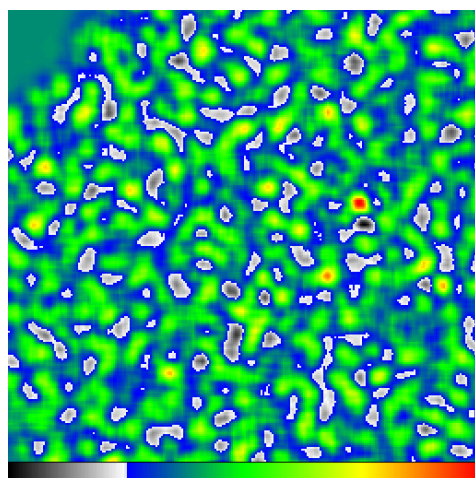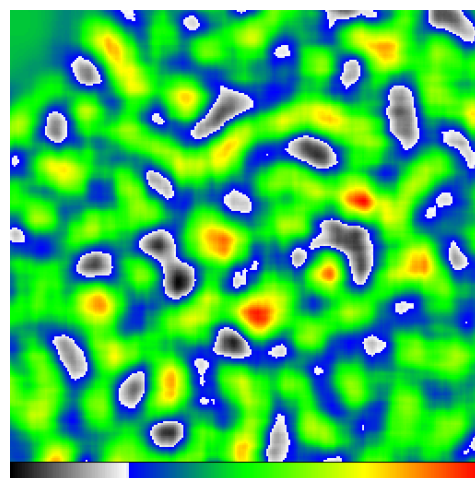
Scale 4   Scale 5   Scale 6   Scale 7

GRO J1838-04 field, MECS, à trous, B$_1$-spline

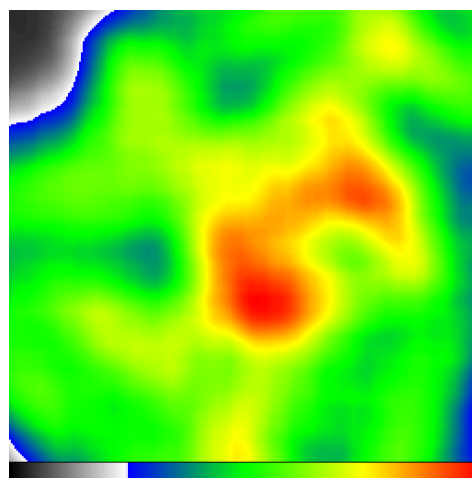Scale 0 (input image)   Scale 1   Scale 2   Scale 3
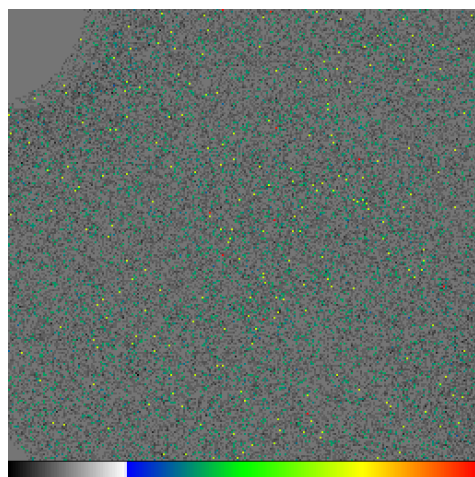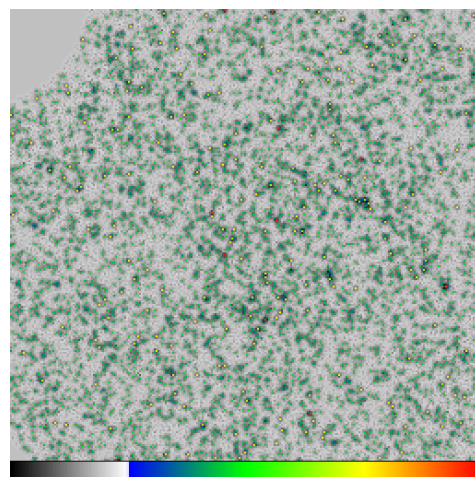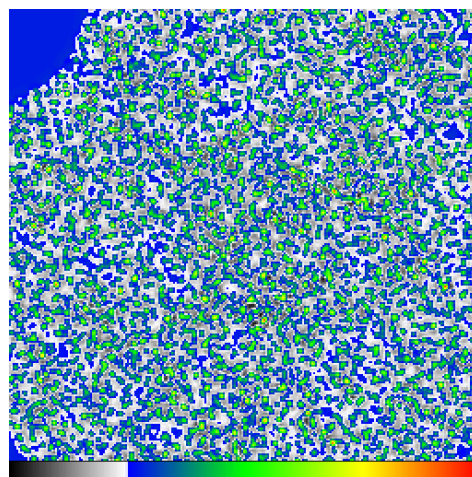
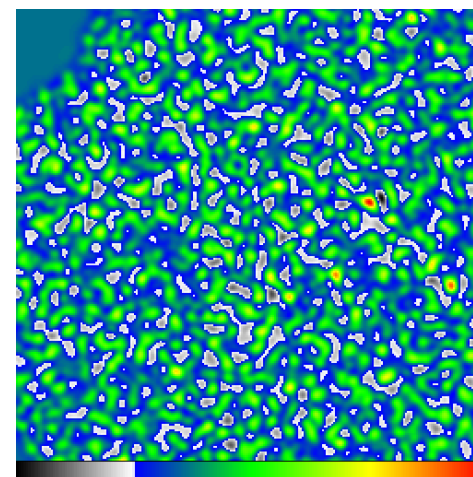Scale 4   Scale 5   Scale 6

GRO J1838-04 field, MECS, à trous, B$_3$-spline

Scale 0 (input image)

Scale 1

Scale 2

Scale 3

Scale 4

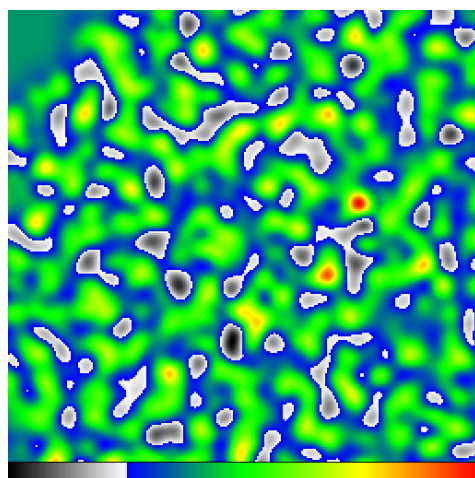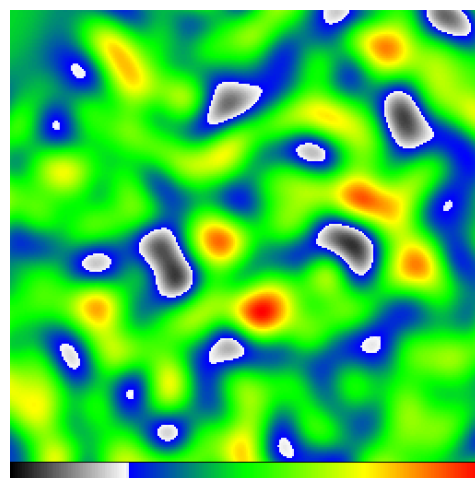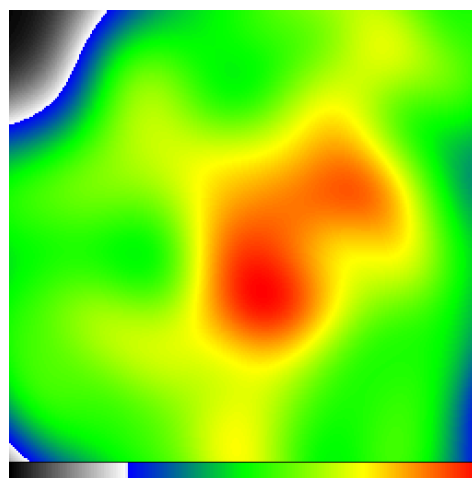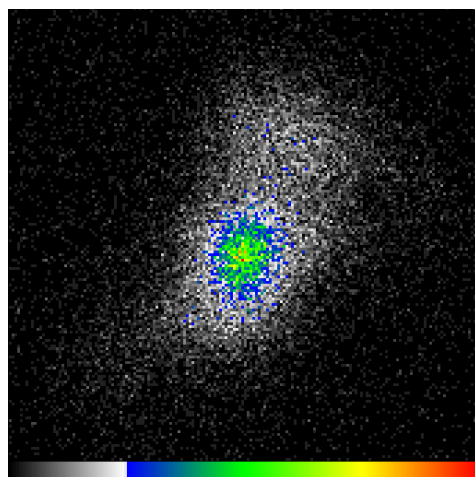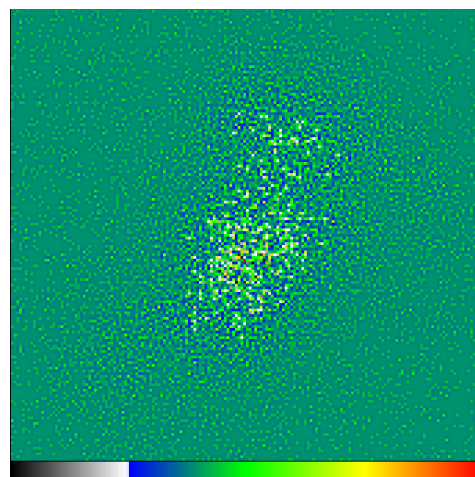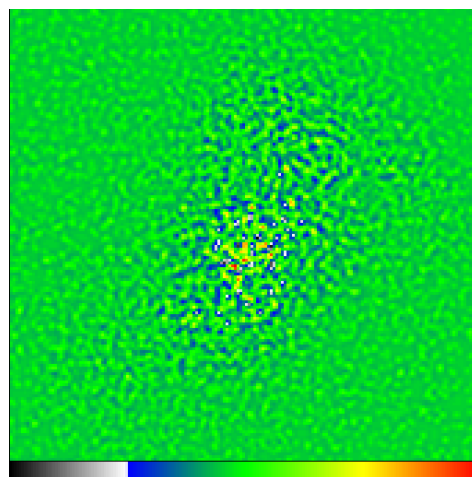Scale 5

Scale 6

MSH 15-52, LECS, à trous, B_1-spline

Scale 0 (input image)   Scale 1   Scale 2   Scale 3

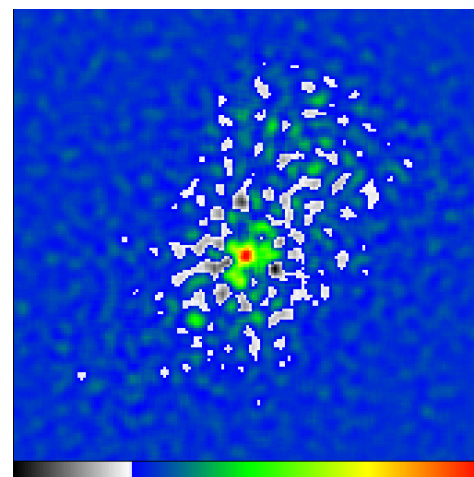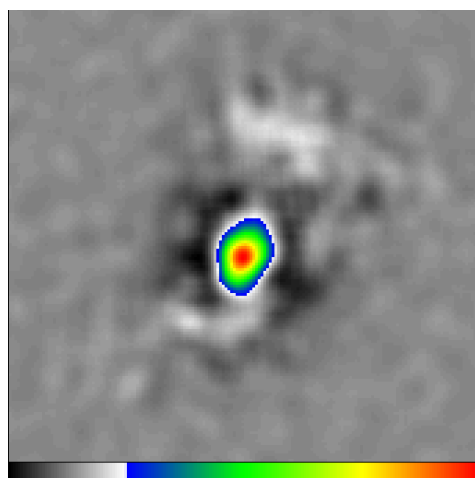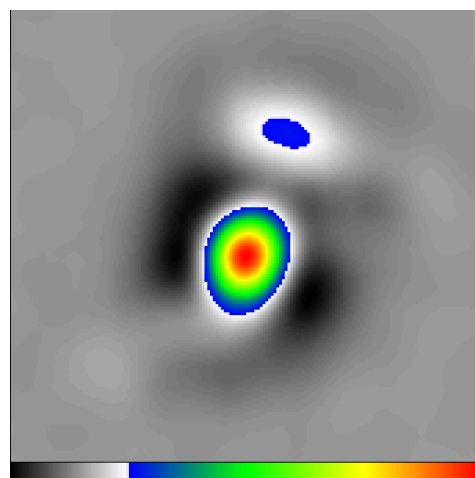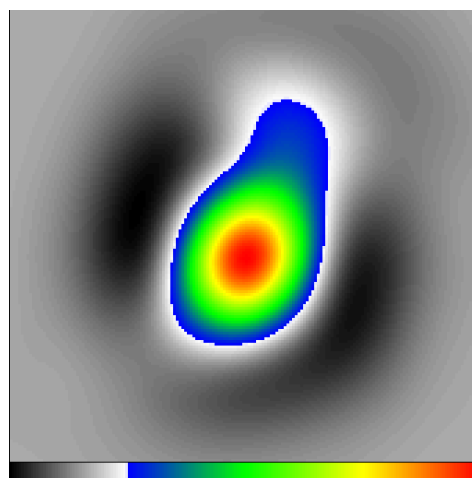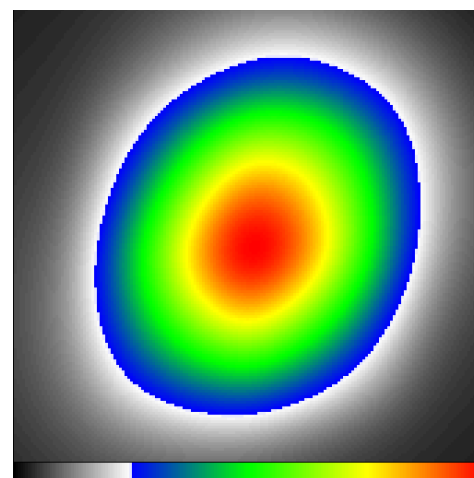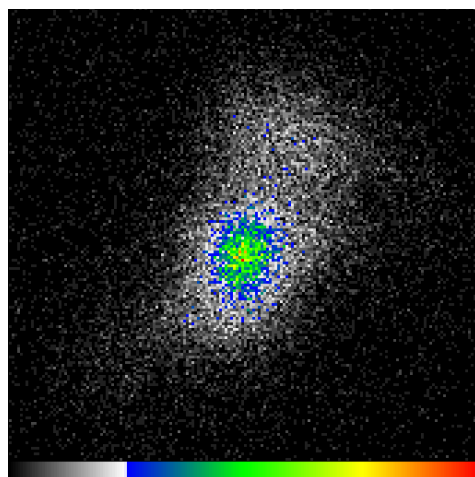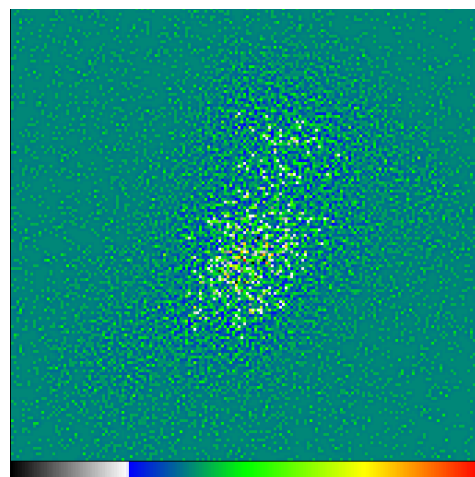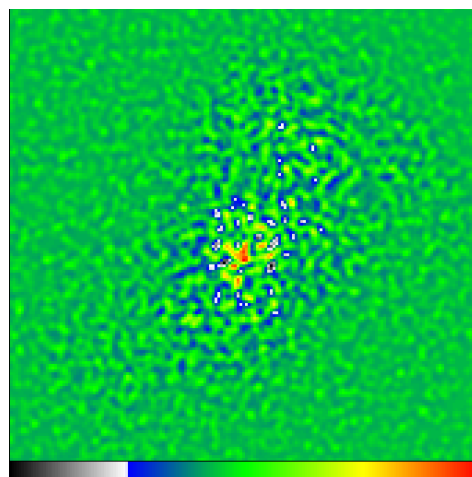Scale 4   Scale 5   Scale 6   Scale 7

MSH 15-52, LECS, à trous, B_3-spline

Scale 0 (input image)

Scale 1

Scale 2

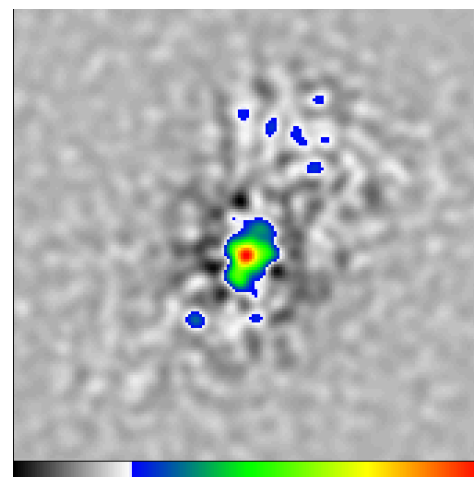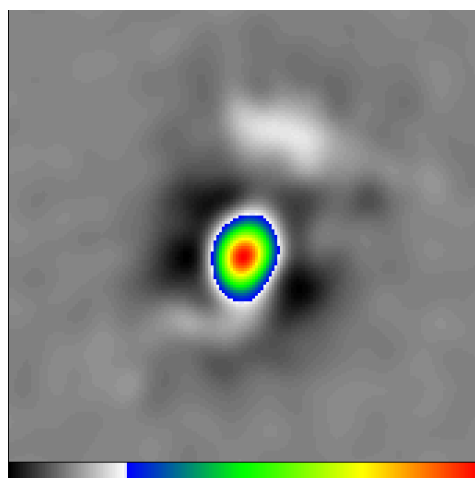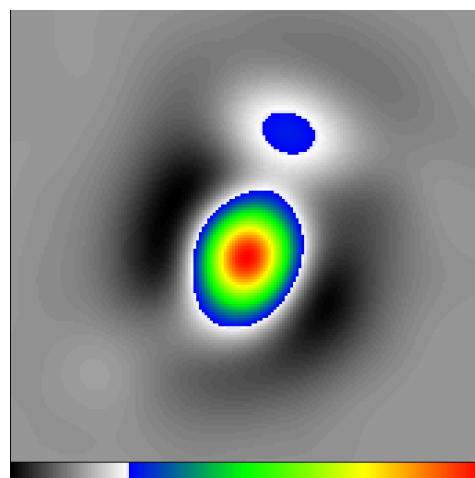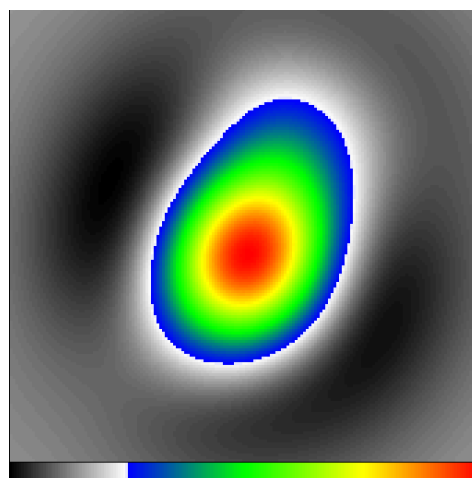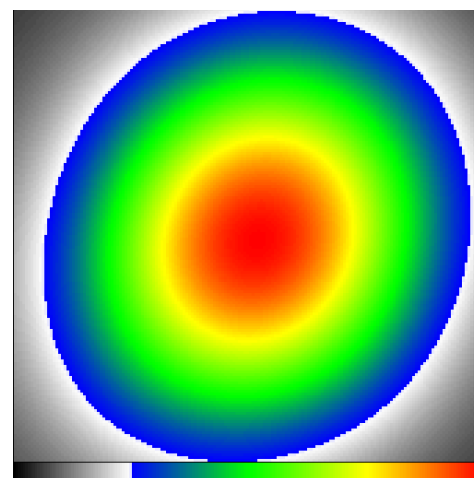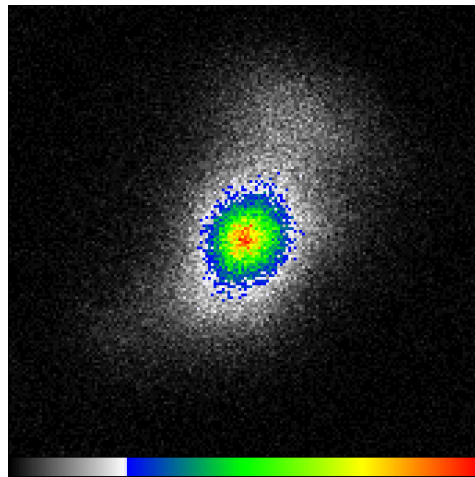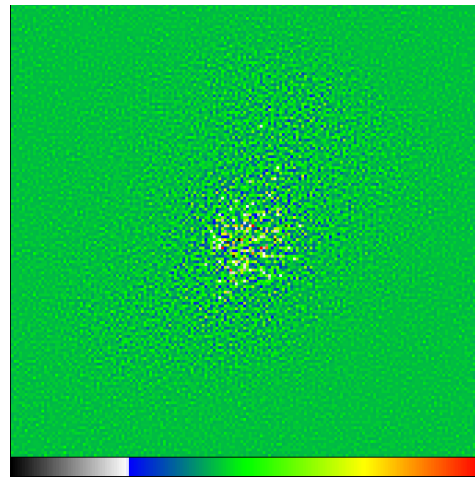Scale 3
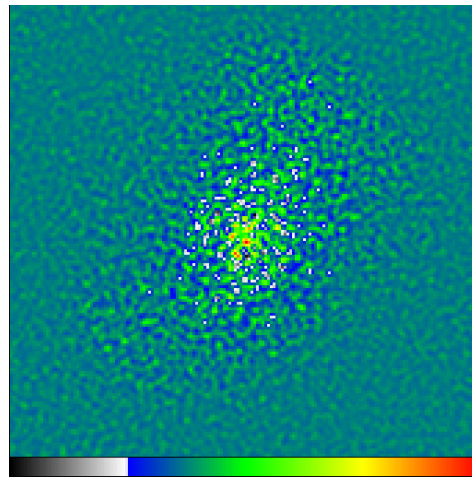
Scale 4

Scale 5

Scale 6

Scale 7

MSH 15-52, MECS, à trous, B_1-spline

Scale 0 (input image) Scale 1 Scale 2 Scale 3
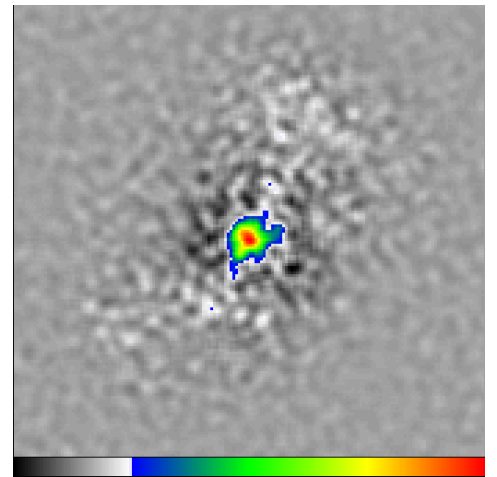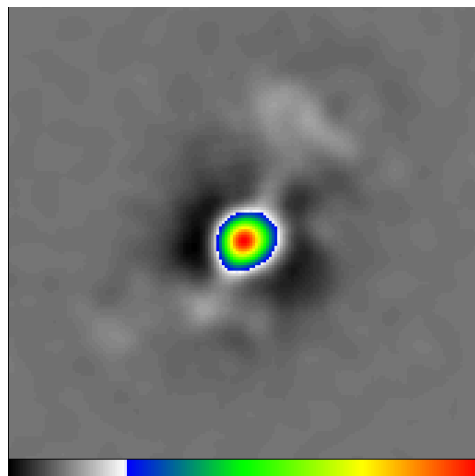
Scale 4 Scale 5 Scale 6 Scale 7
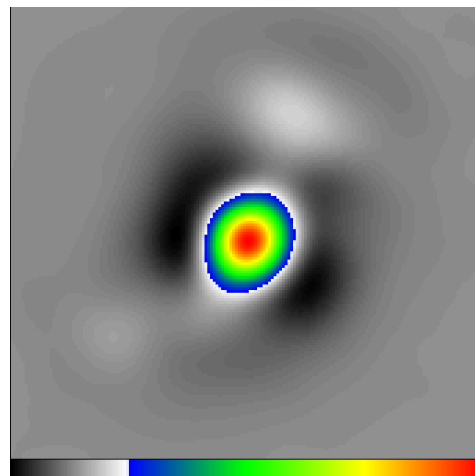
MSH 15-52, MECS, à trous, B_3-spline

Scale 0 (input image)

Scale 1

Scale 2

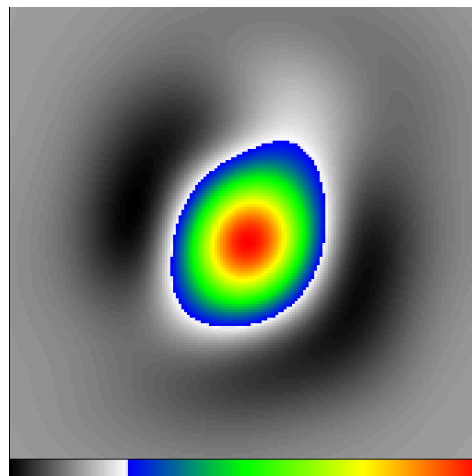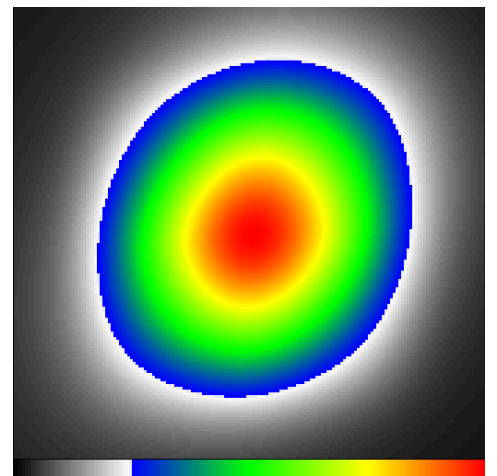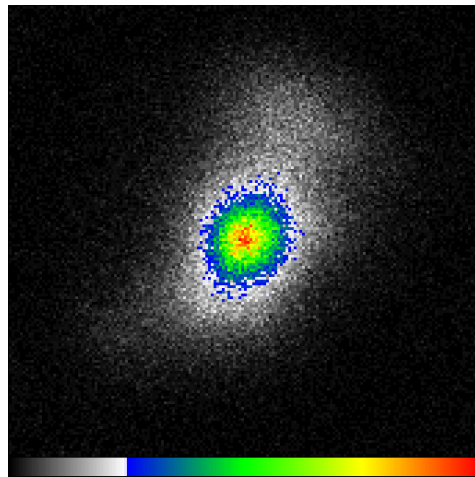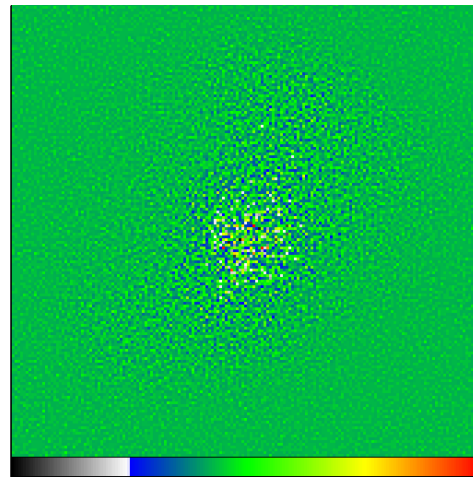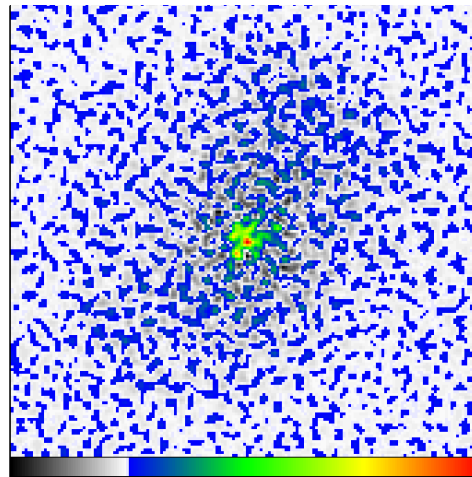Scale 3

Scale 4

Scale 5

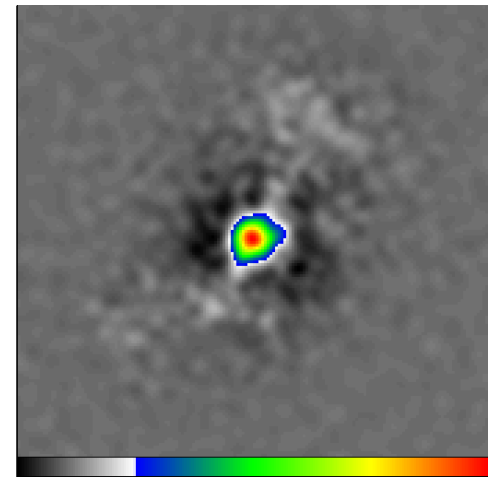Scale 6

Scale 7

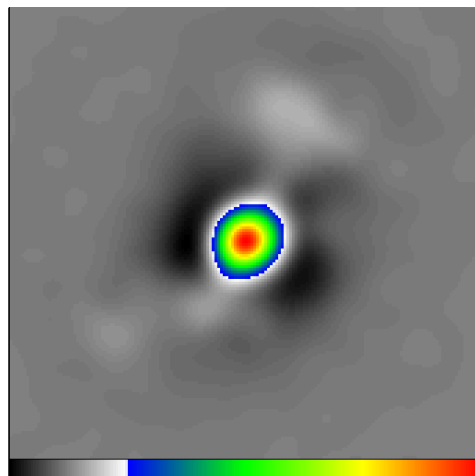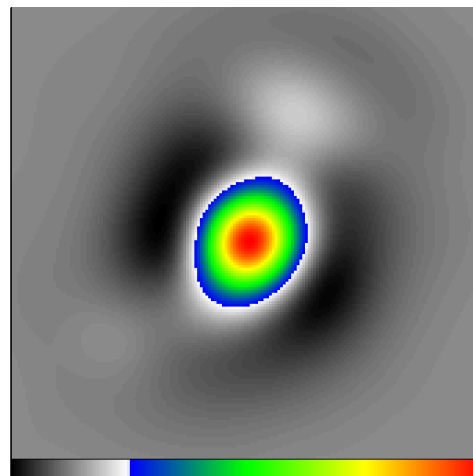MSH 15-52, LECS 0.1-2KeV, à trous, B$_1$-spline

Scale 0 (input image)

Scale 1

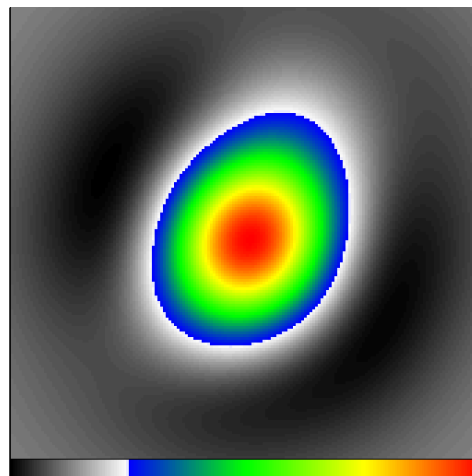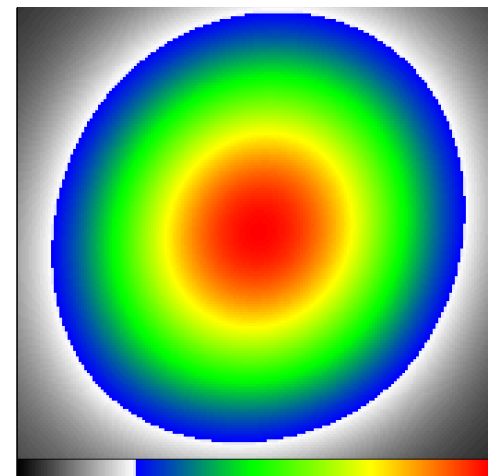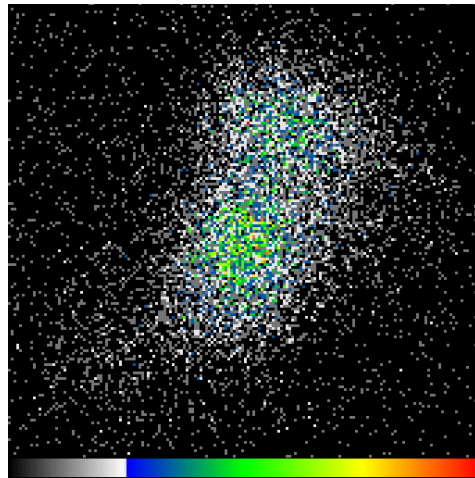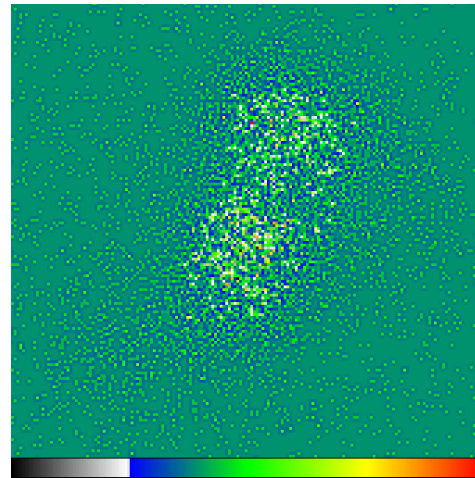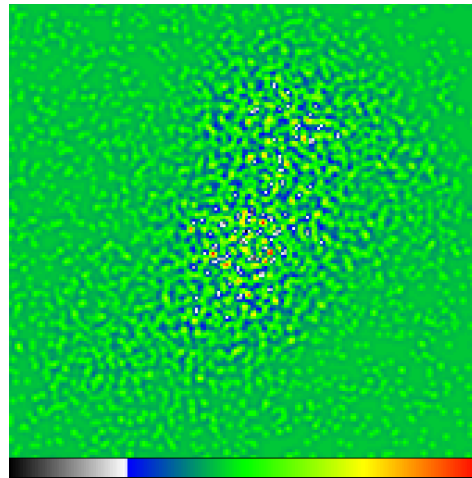Scale 2

Scale 3

Scale 4

Scale 5

Scale 6

Scale 7

MSH 15-52, LECS 0.1-2KeV, à trous, B$_3$-spline

Scale 0 (input image) Scale 1 Scale 2 Scale 3

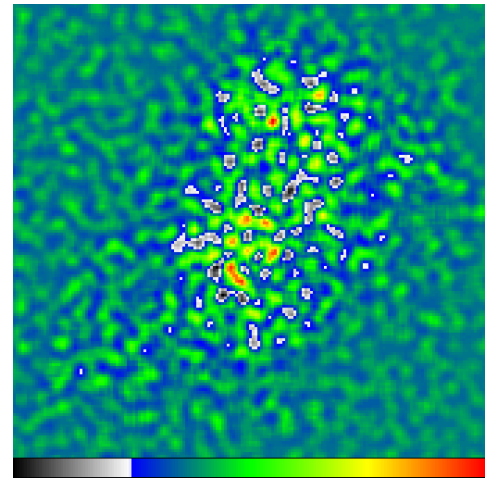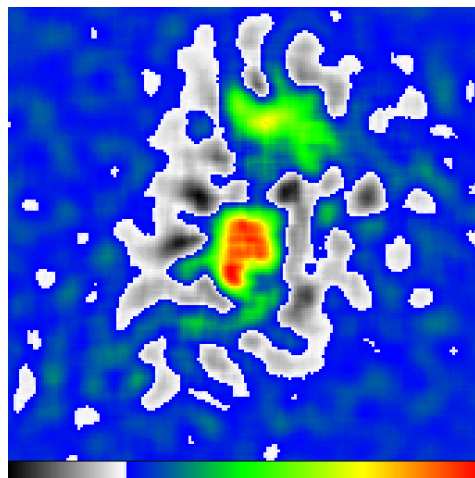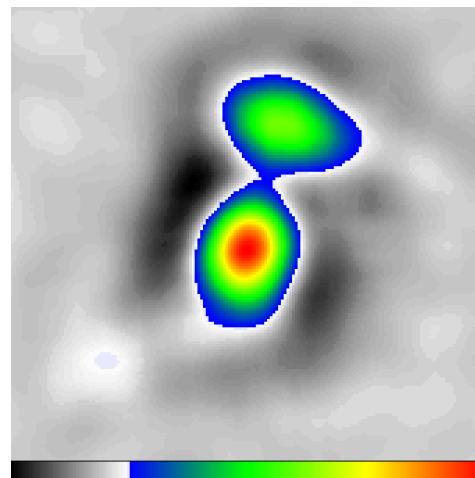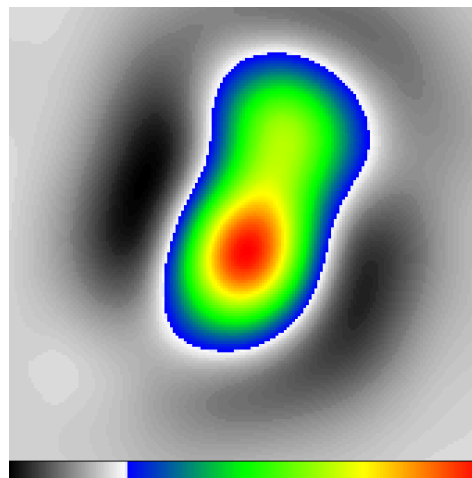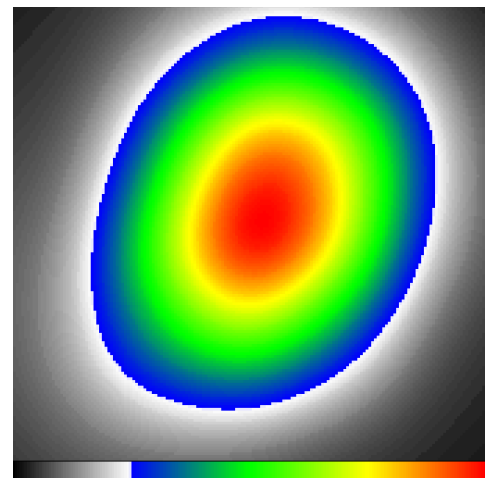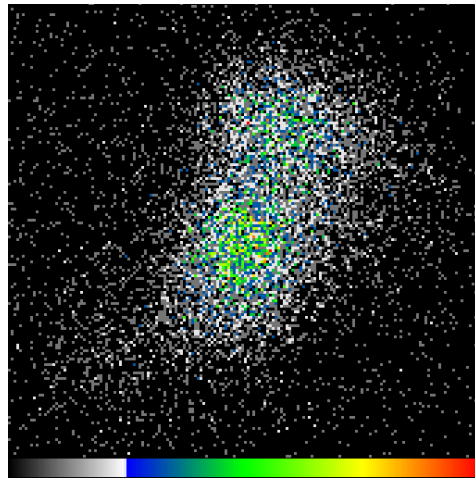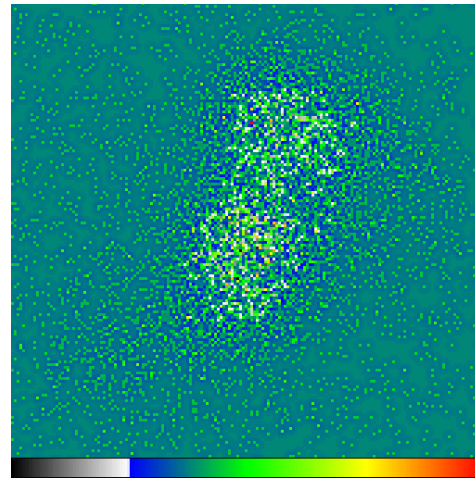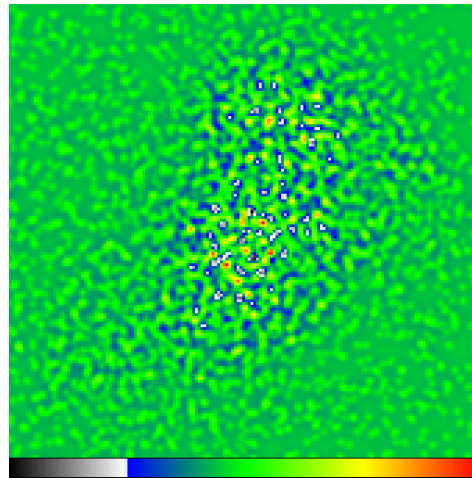Scale 4 Scale 5 Scale 6 Scale 7

MSH 15-52, MECS 1.2-4KeV, à trous, B$_1$-spline

Scale 0 (input image)　　Scale 1　　Scale 2　　Scale 3

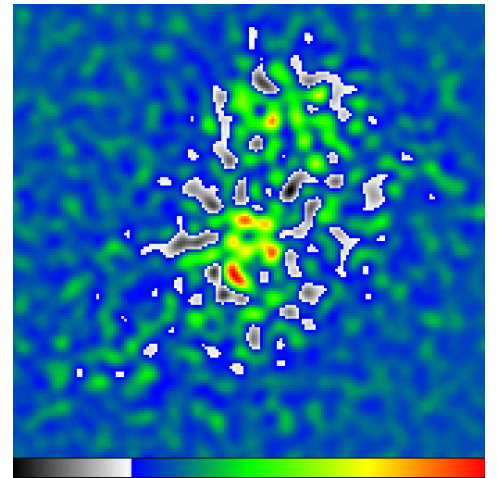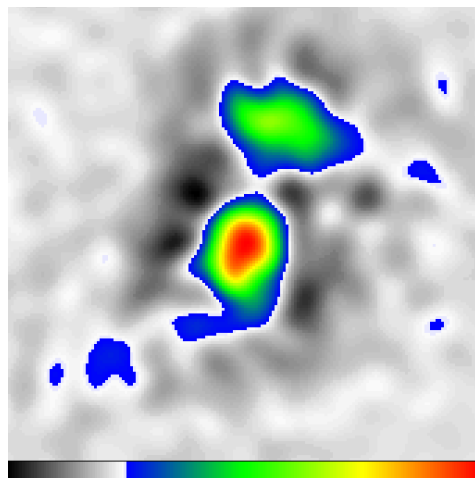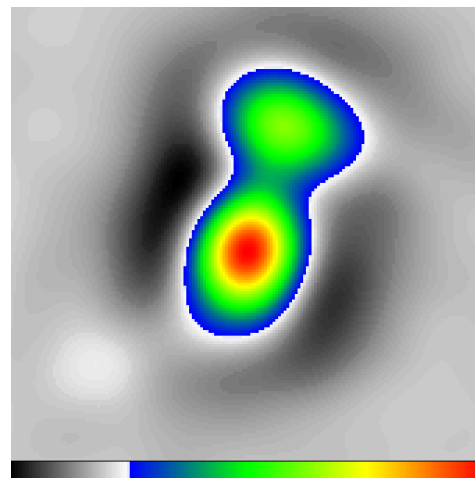Scale 4　　Scale 5　　Scale 6　　Scale 7

MSH 15-52, MECS 1.2-4KeV, à trous, B$_3$-spline

Scale 0 (input image)   Scale 1   Scale 2   Scale 3
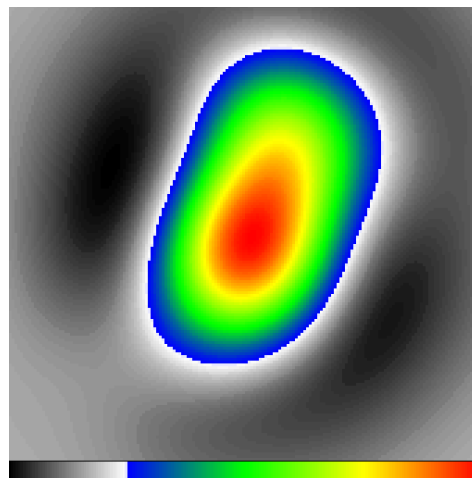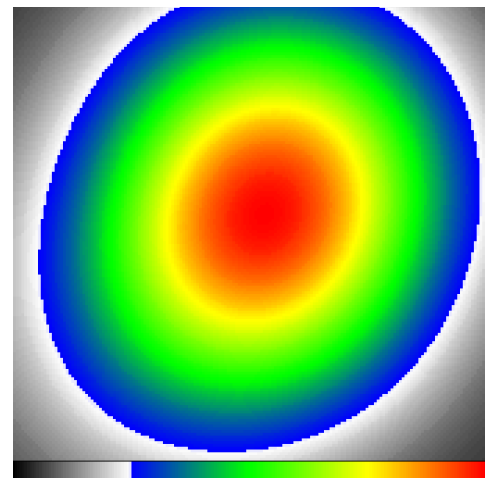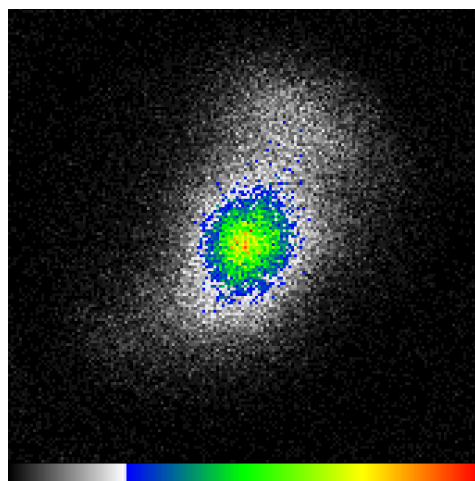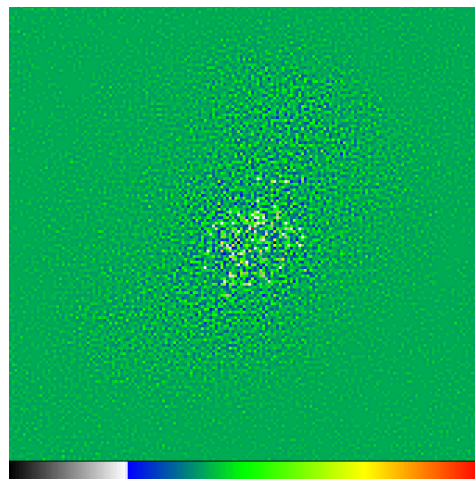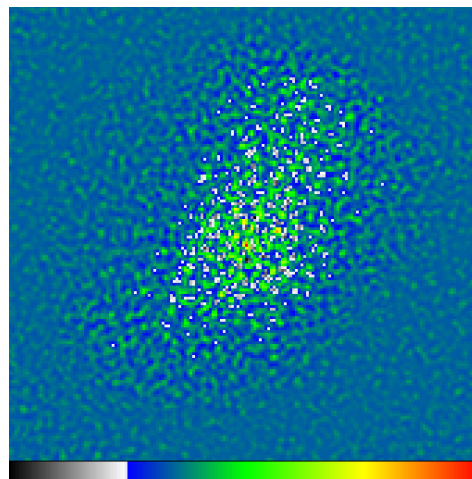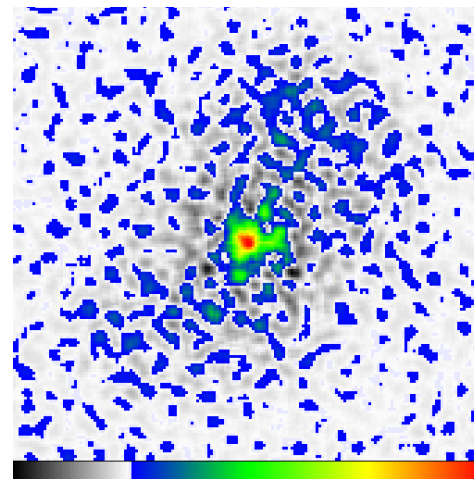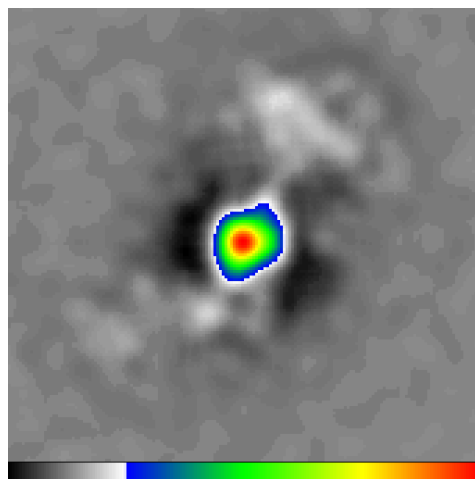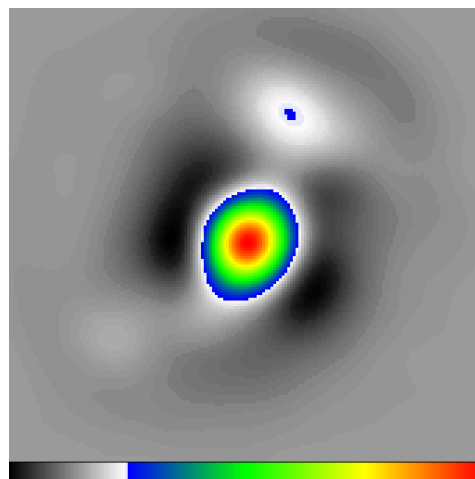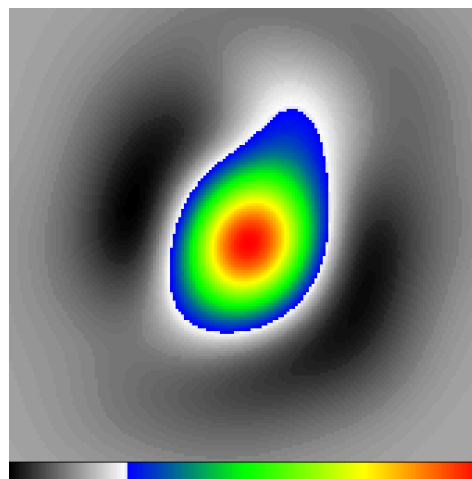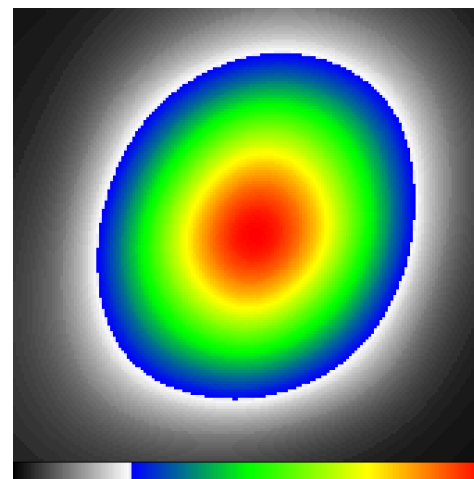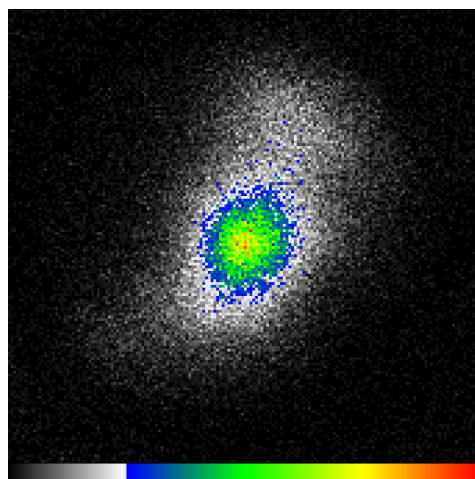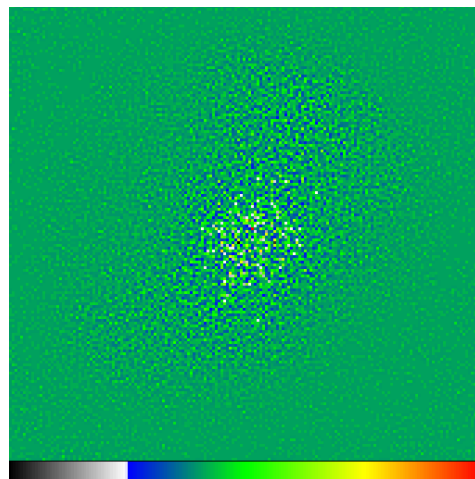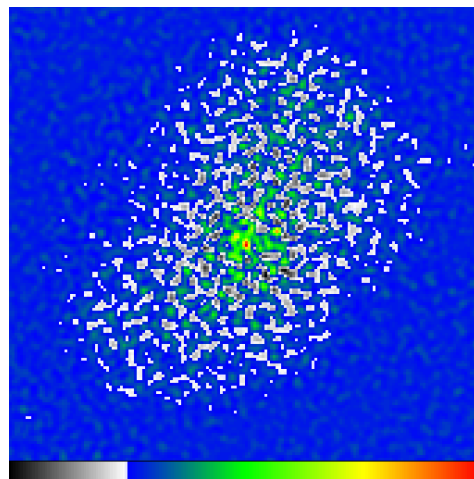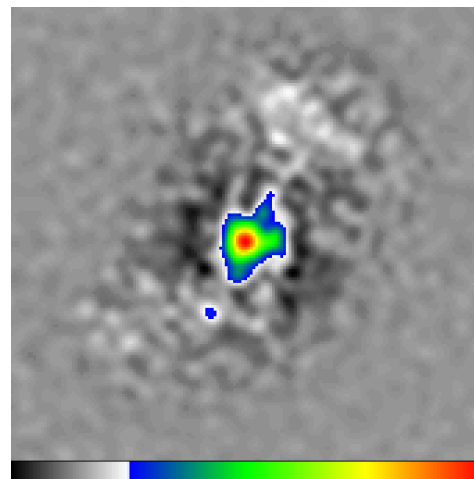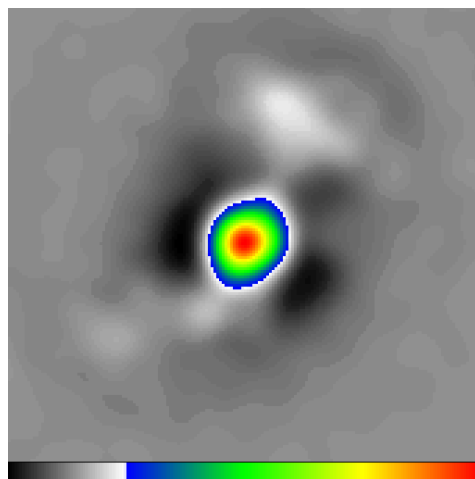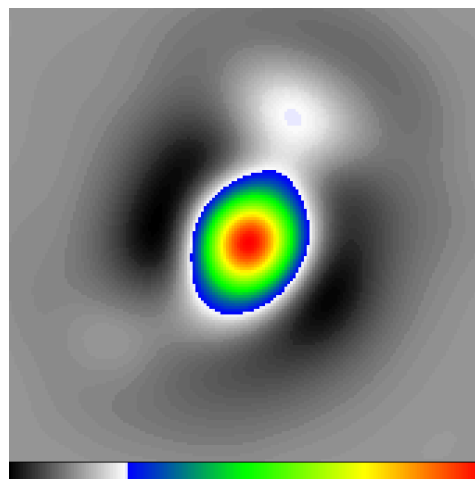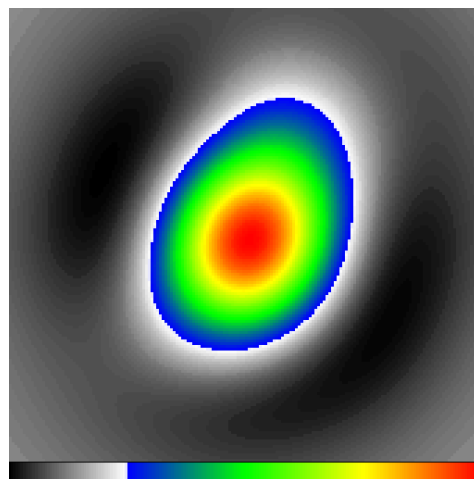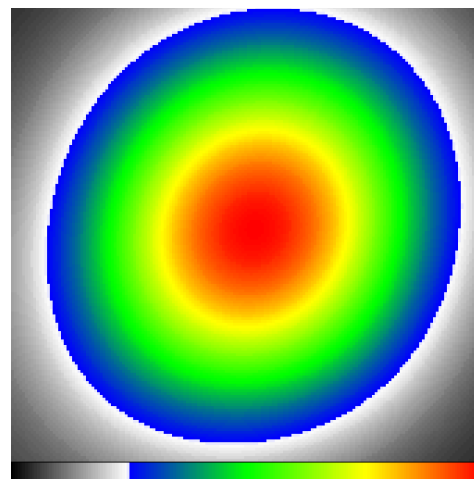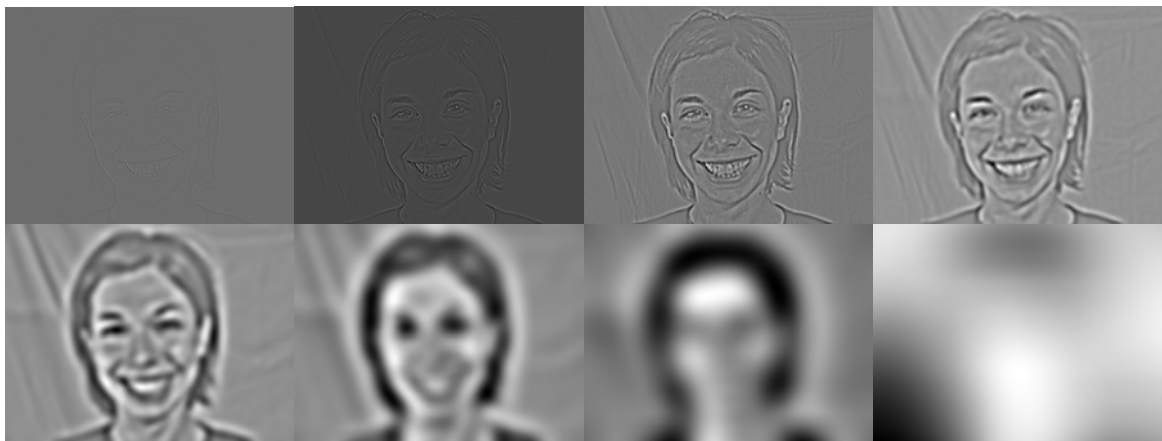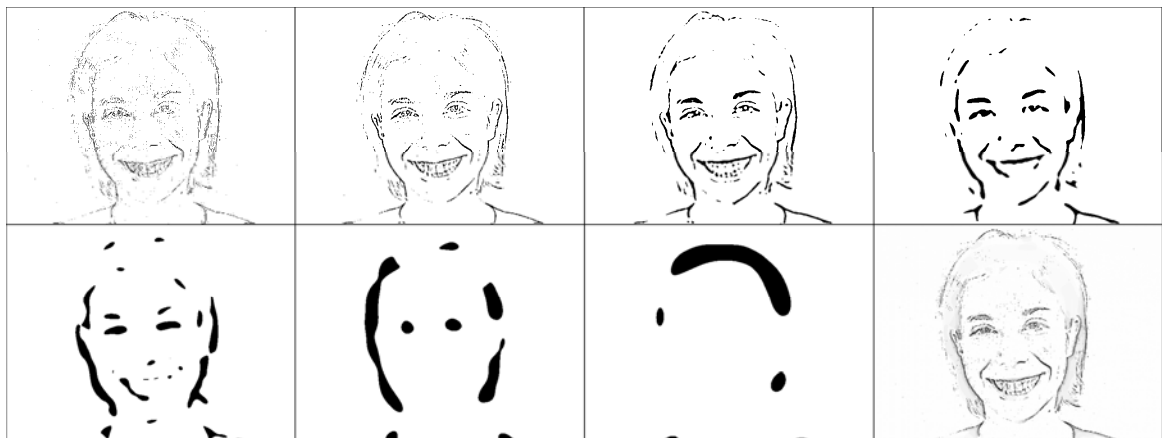
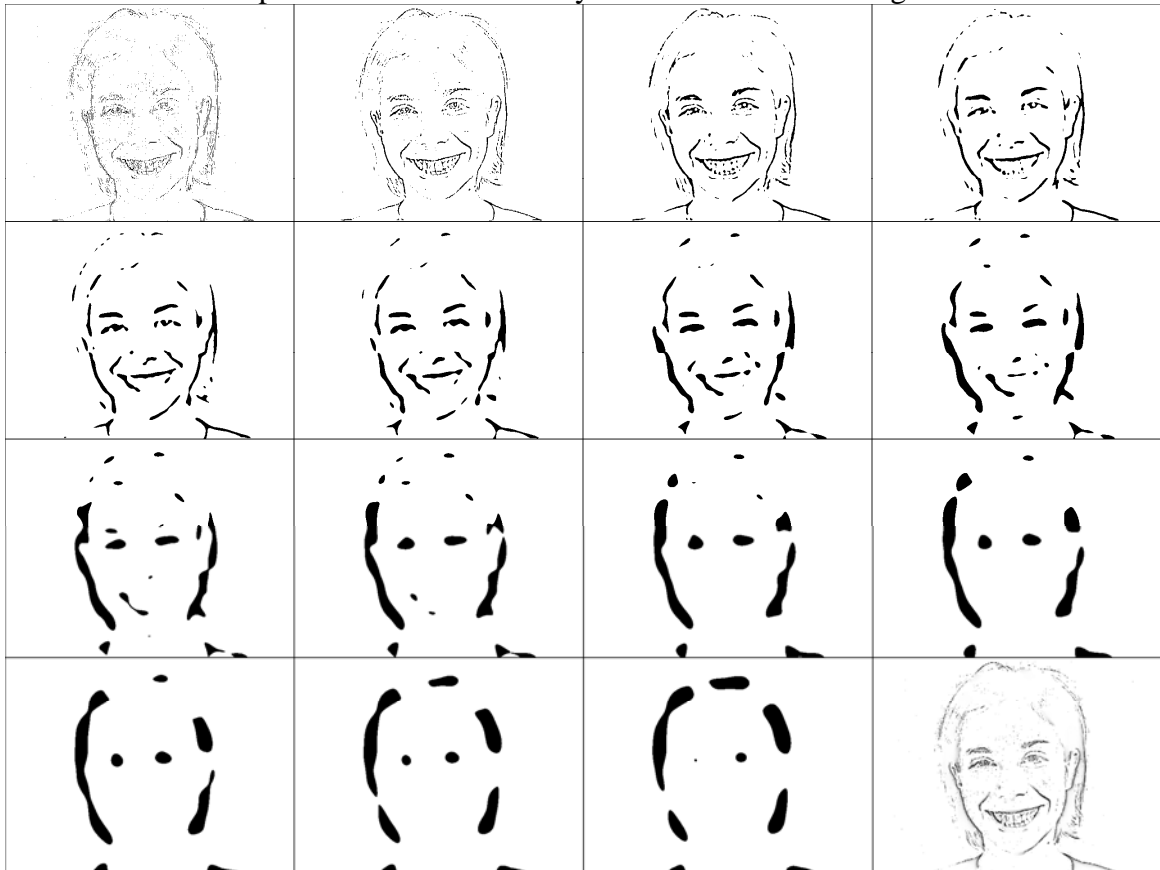Scale 4   Scale 5   Scale 6   Scale 7

Input images

The first 7 wavelet planes and the residual by the original *à trous* algorithm

The above planes after thresholding and their synthesis image

The first 15 wavelet planes and the residual by the modified *à trous* algorithm with 1 "hole"

The above planes after thresholding and their synthesis image