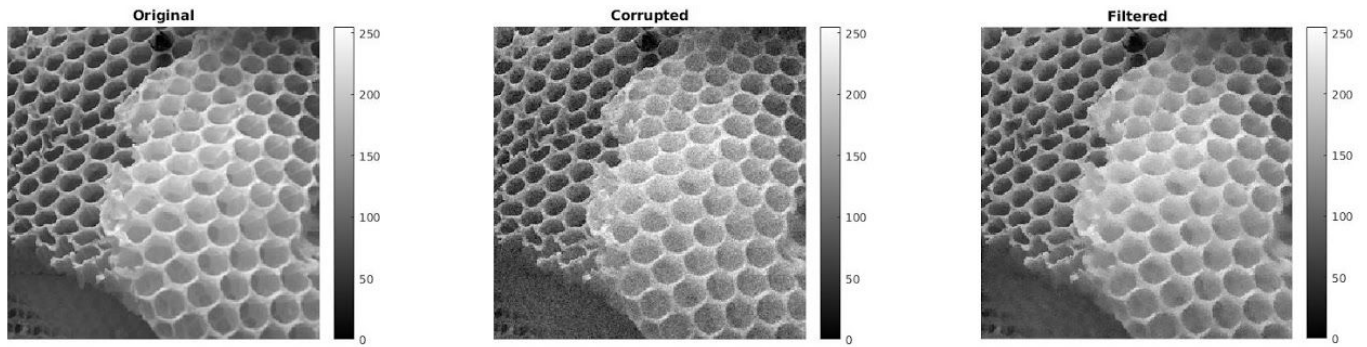
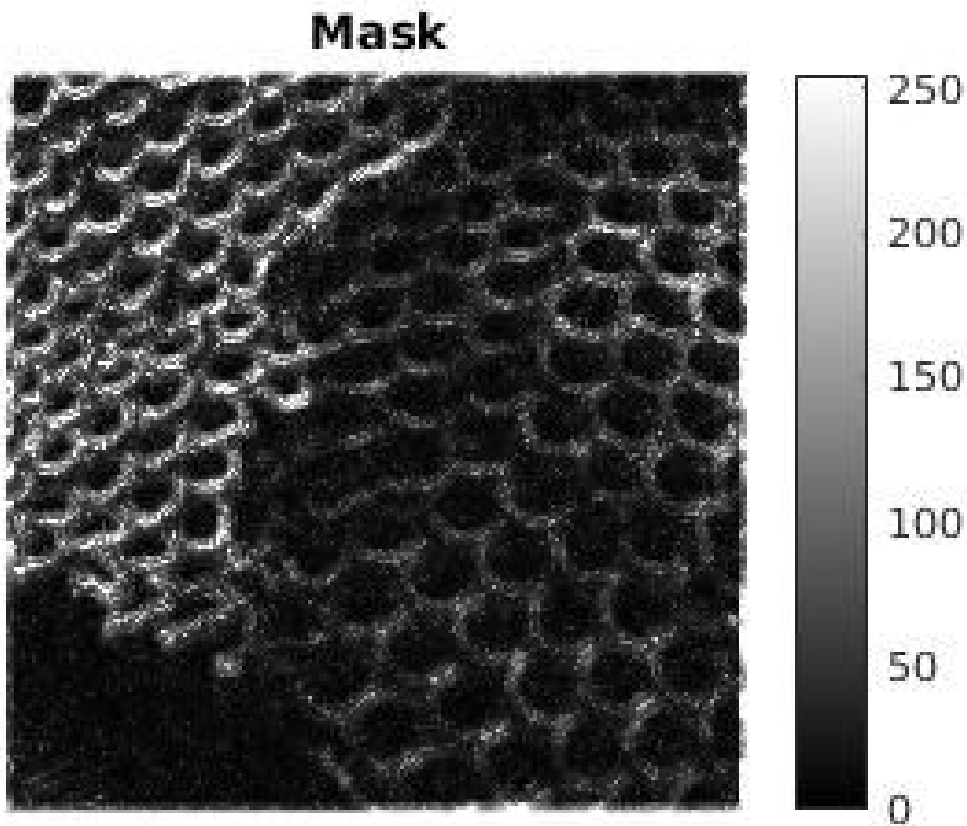


Q2)

-



- Mask:-



- Optimal Values:-

$$\sigma_{\text{space}} = 99$$

$$\sigma_{\text{intensity}} = 27.72$$

$$\text{RMSD} = 5.1625$$

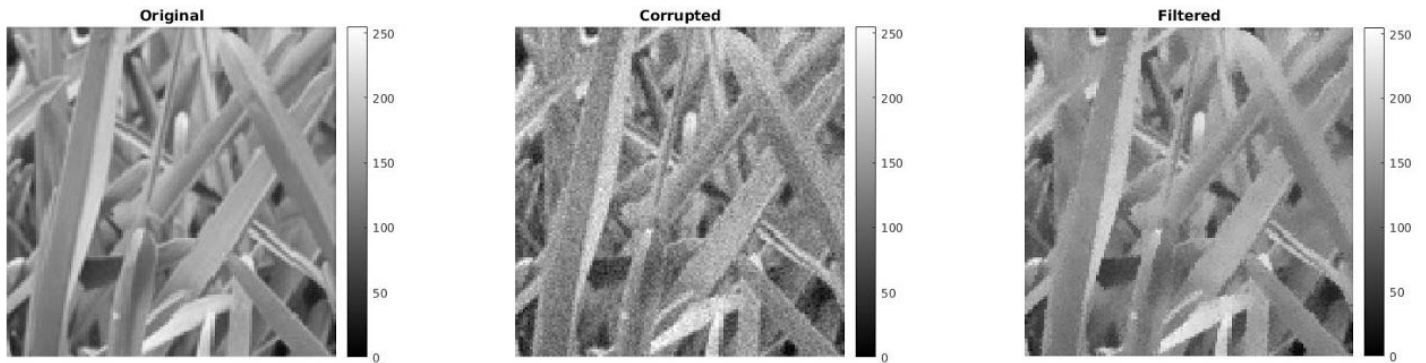
- Values for different sigma:-

σ_{space}	$\sigma_{\text{intensity}}$	RMSD
99*0.9	27.72	5.1626

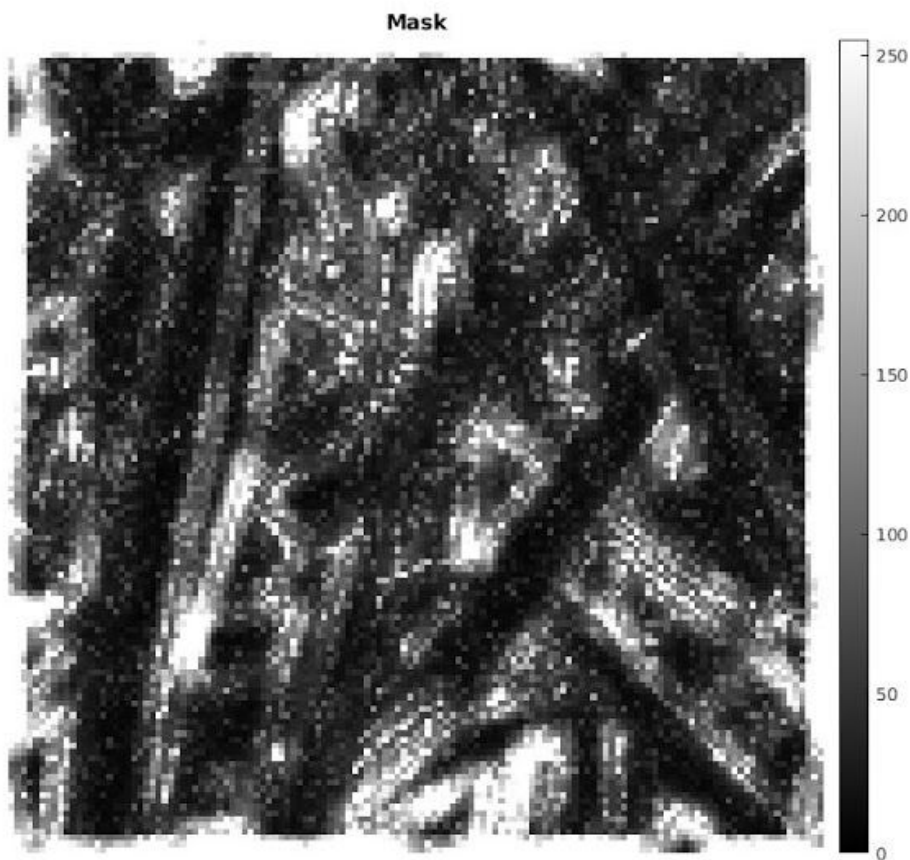
99*1.1	27.72	5.1625
99	27.72*0.9	5.1866
99	27.72*1.1	5.1938

For grass:-

-



- Mask



- Optimal Values:-

$$\sigma_{\text{space}} = 90$$

$$\sigma_{\text{intensity}} = 20$$

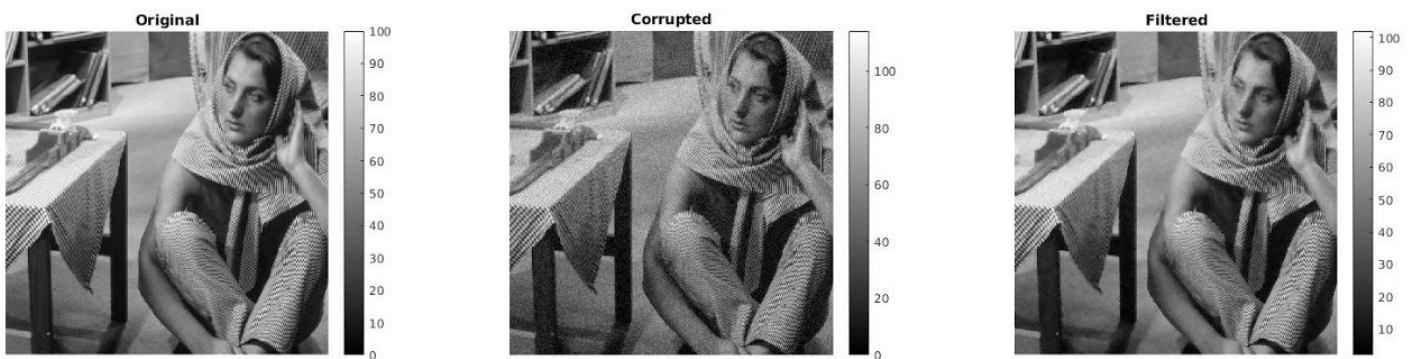
$$\text{RMSD} = 5.5661$$

- Values for different sigma:-

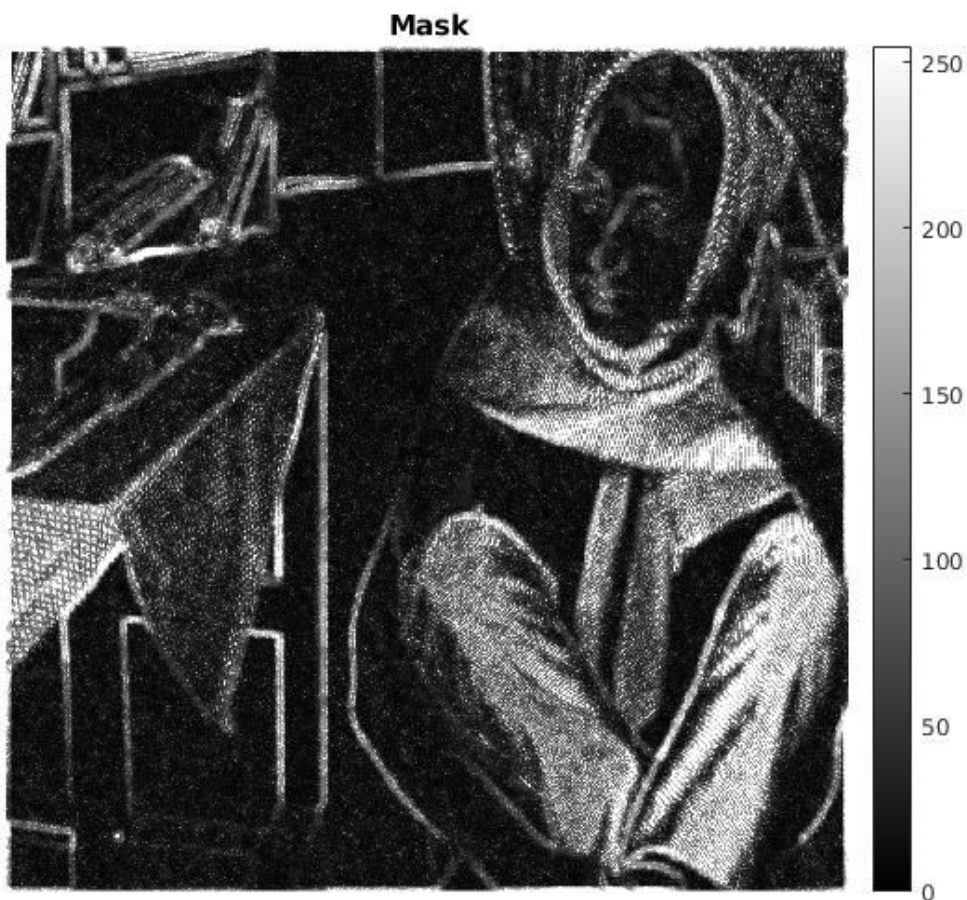
σ_{space}	$\sigma_{\text{intensity}}$	RMSD
90*0.9	20	5.5661
90*1.1	20	5.5659
90	20*0.9	5.6022
90	20*1.1	5.5710

For barbara:-

-



- Mask



- Optimal Values:-

$$\sigma_{\text{space}} = 90$$

$$\sigma_{\text{intensity}} = 8.60$$

$$\text{RMSD} = 2.3890$$

- Values for different sigma:-

σ_{space}	$\sigma_{\text{intensity}}$	RMSD
90*0.9	8.6	2.3890
90*1.1	8.6	2.3890
90	8.6*0.9	2.4088
90	8.6*1.1	2.3954