|  |  |  |
| --- | --- | --- |
| Gaussian noise, amplitude=10, SNR =13.599 | | |
| Box\_3x3  SNR =17.590 | Median\_3x3  SNR = 17.684 | Opening-then-closing,  SNR= 5.666 |
| Box\_5x5  SNR = 14.715 | Median\_5x5  SNR = 15.990 | Closing-then-opening  SNR = -2.987 |

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| Gaussian noise, amplitude=30, SNR =2.858 | | |
| Box\_3x3  SNR = 10.820 | Median\_3x3  SNR =10.907 | Opening-then-closing,  SNR= 5.980 |
| Box\_5x5  SNR = 11.729 | Median\_5x5  SNR = 12.602 | Closing-then-opening  SNR = 3.314 |

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| Salt-and-pepper noise, probability=0.1, SNR = -2.08 | | |
| Box\_3x3  SNR = 6.35 | Median\_3x3  SNR = 14.951 | Opening-then-closing,  SNR= -2.040 |
| Box\_5x5  SNR = 8.528 | Median\_5x5  SNR = 15.69 | Closing-then-opening  SNR =-2.789 |

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| Salt-and-pepper noise, probability=0.05, SNR = 0.919 | | |
| Box\_3x3  SNR = 9.405 | Median\_3x3  SNR = 19.248 | Opening-then-closing,  SNR= 4. 003 |
| Box\_5x5  SNR = 11.065 | Median\_5x5  SNR = 16.369 | Closing-then-opening  SNR = 3.253 |