

Results

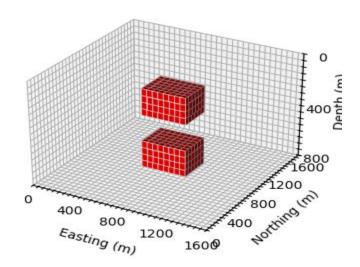
Qunatitative evaluation for direct reconstruction

PSNR: 19.34142916522926

Relative Error: 0.704649031162262

RMSE: 0.10787692666053772

Correlation Coefficient: 0.739835824922733

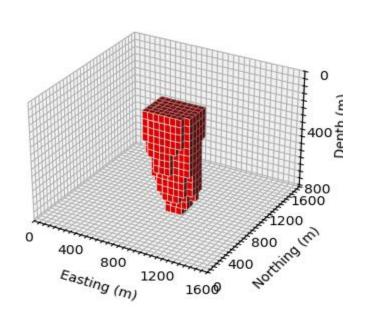


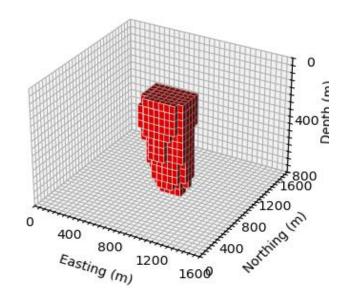
Qunatitative evaluation for direct reconstruction

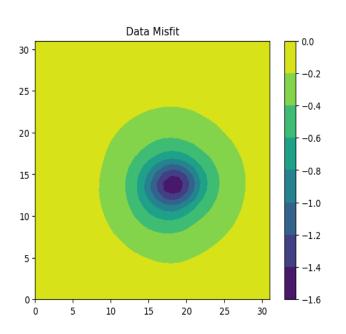
PSNR: 19.53576567237831

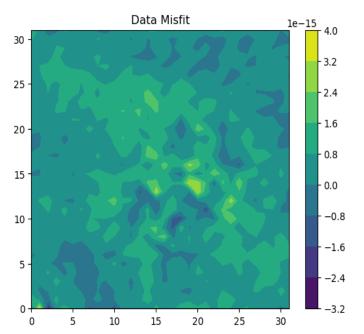
Relative Error: 0.6890584423080386

RMSE: 0.10549010300220205

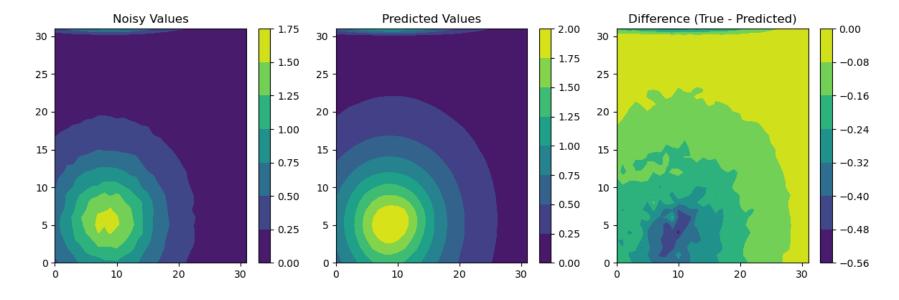


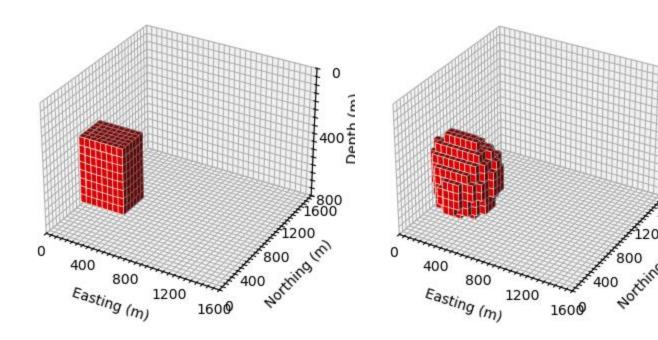






Noise Level: 2%





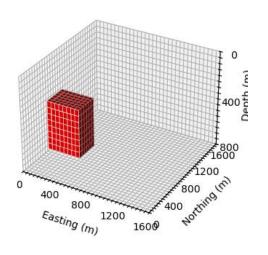
Qunatitative evaluation for direct reconstruction

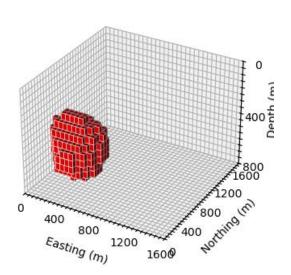
PSNR: 20.10479561008989

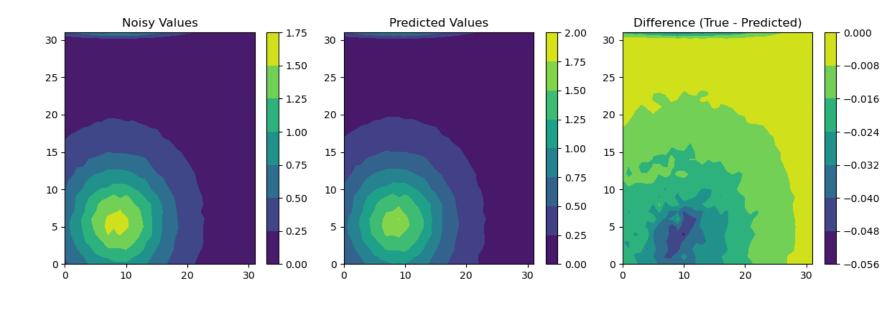
Relative Error: 0.6453636884689331

RMSE: 0.09880074113607407

Improvement







Existing

Improved

Qunatitative evaluation for direct reconstruction

PSNR: 20.10479561008989

Relative Error: 0.6453636884689331

RMSE: 0.09880074113607407

Correlation Coefficient: 0.7777627900309365

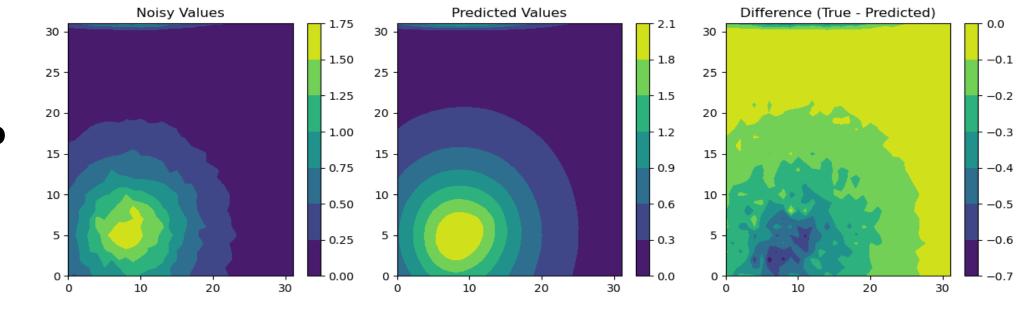
Qunatitative evaluation for direct reconstruction

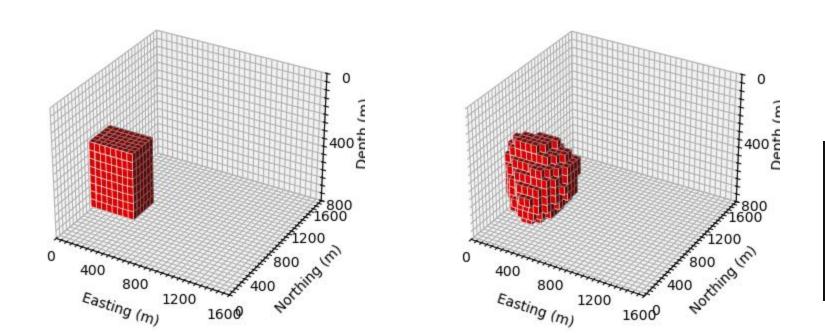
PSNR: 20.140697823579224

Relative Error: 0.6427017026979348

RMSE: 0.09839320535744468

Noise Level 4%





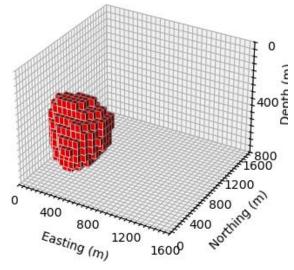
Qunatitative evaluation for direct reconstruction

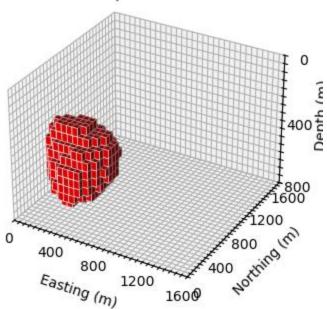
PSNR: 19.983134716222416

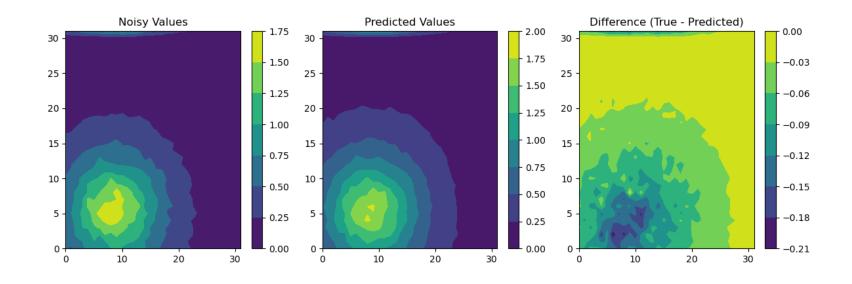
Relative Error: 0.6544667482376099

RMSE: 0.10019435733556747

Improvement







Existing

Improved

Qunatitative evaluation for direct reconstruction

PSNR: 19.983134716222416

Relative Error: 0.6544667482376099

RMSE: 0.10019435733556747

Correlation Coefficient: 0.7756696765902329

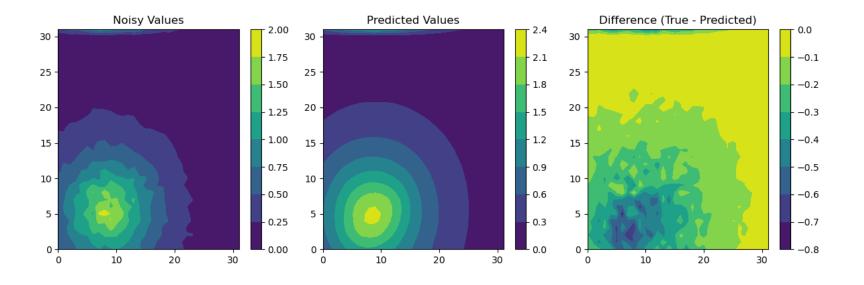
Qunatitative evaluation for direct reconstruction

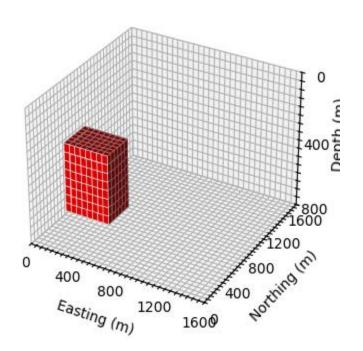
PSNR: 20.02240983720209

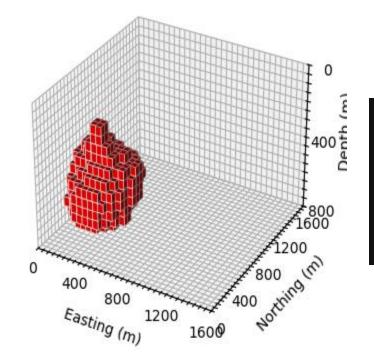
Relative Error: 0.6515141460449123

RMSE: 0.09974232975574665

Noise level 5%







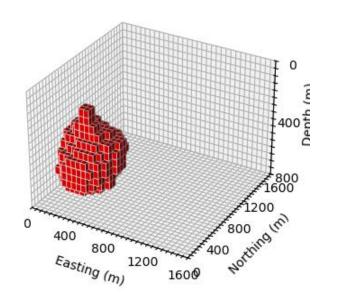
Qunatitative evaluation for direct reconstruction

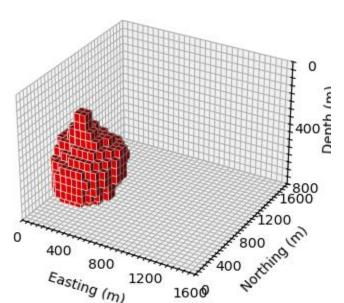
PSNR: 19.504849230152626

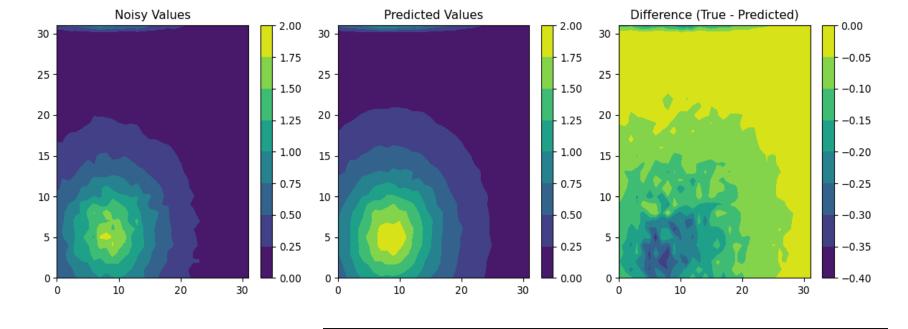
Relative Error: 0.6915153861045837

RMSE: 0.10586624592542648

Improvement







Existing

Proposed

Qunatitative evaluation for direct reconstruction

PSNR: 19.504849230152626

Relative Error: 0.6915153861045837

RMSE: 0.10586624592542648

Correlation Coefficient: 0.7509595463412774

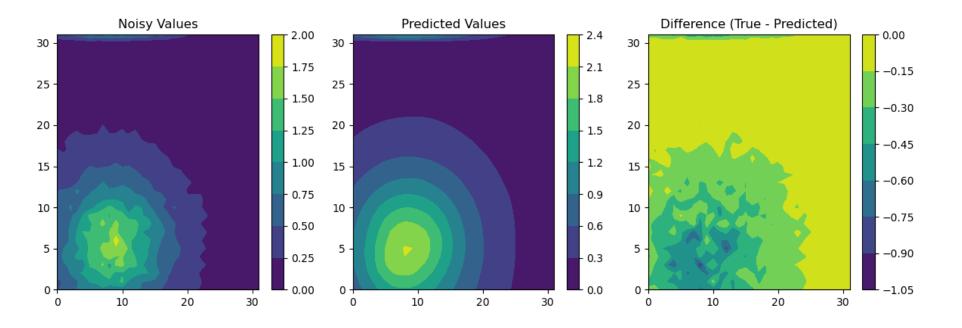
Qunatitative evaluation for direct reconstruction

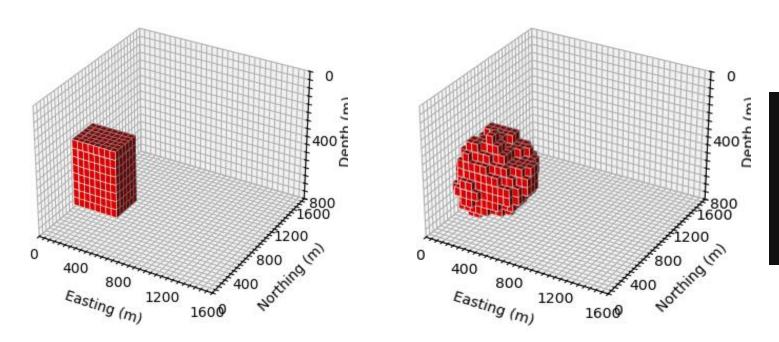
PSNR: 19.54040739846822

Relative Error: 0.6886903089078837

RMSE: 0.1054337443134226

Noise level 6%





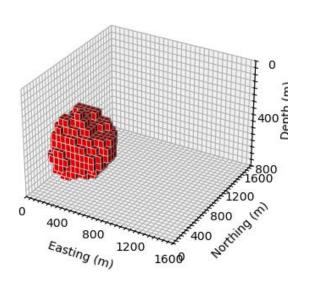
Qunatitative evaluation for direct reconstruction

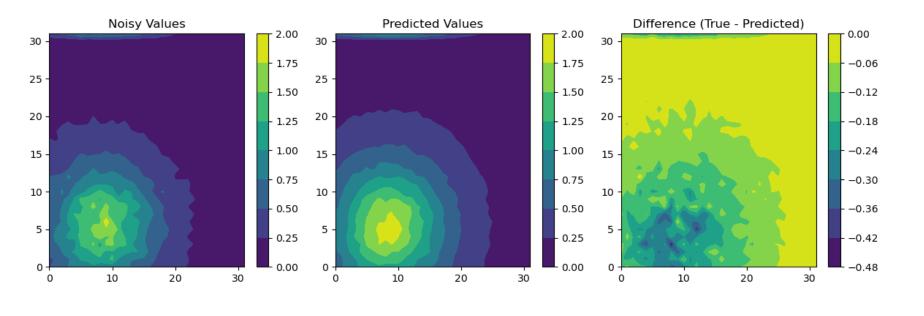
PSNR: 19.364077024978418

Relative Error: 0.7028141021728516

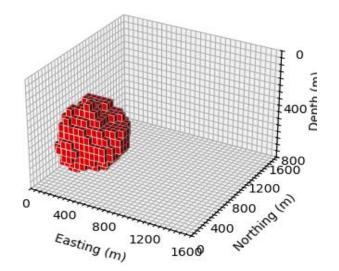
RMSE: 0.1075960025191307

Improved





Existing



Proposed

Qunatitative evaluation for direct reconstruction

PSNR: 19.364077024978418

Relative Error: 0.7028141021728516

RMSE: 0.1075960025191307

Correlation Coefficient: 0.7398150639077102

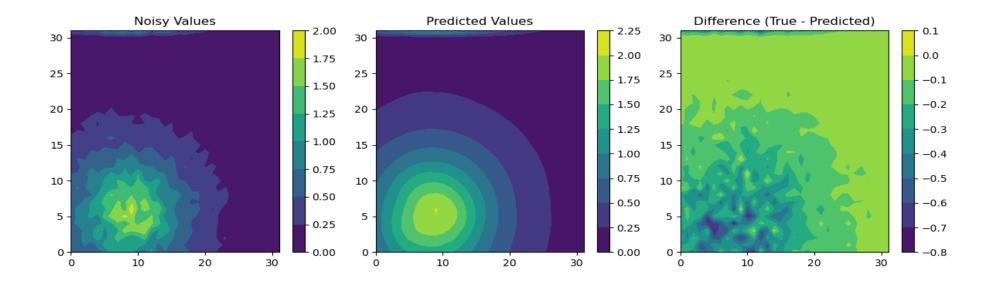
Qunatitative evaluation for direct reconstruction

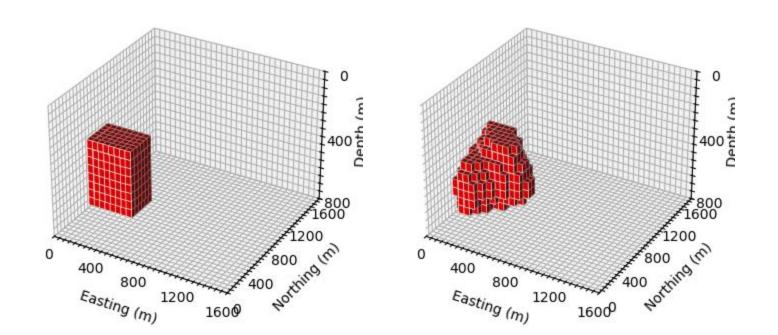
PSNR: 19.398118759710687

Relative Error: 0.700065061555963

RMSE: 0.10717514062293047

Noise Level 8%





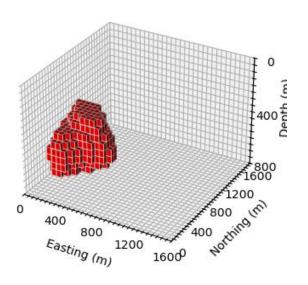
Qunatitative evaluation for direct reconstruction

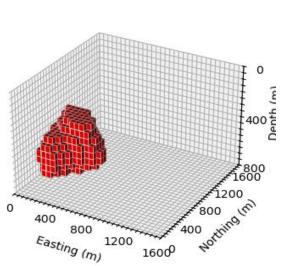
PSNR: 19.260690934261557

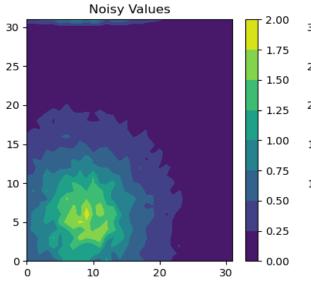
Relative Error: 0.7112295031547546

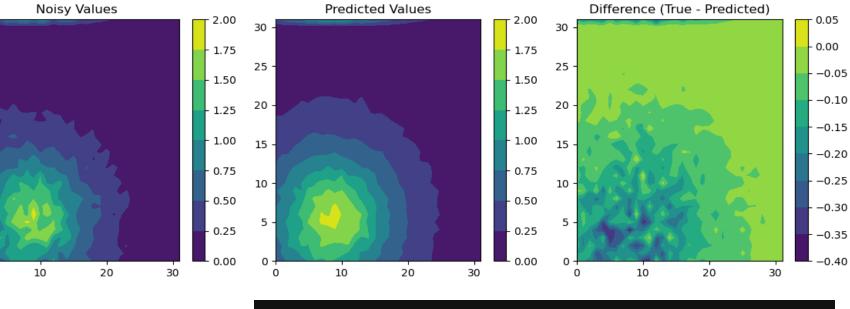
RMSE: 0.10888434201478958

Improved









Existing

Proposed

Qunatitative evaluation for direct reconstruction

PSNR: 19.260690934261557

Relative Error: 0.7112295031547546

RMSE: 0.10888434201478958

Correlation Coefficient: 0.7278946855200827

Qunatitative evaluation for direct reconstruction

PSNR: 19.27412712819589

Relative Error: 0.7101302045578868

RMSE: 0.10871604471293533

Recommendation

- For noise level: 2% of the data-range.
- Choose lambda as 0.9 to 1.
- For noise level: 4% of the data-range.
- Choose lambda as 0.7 to 0.9
- For noise level: 5% (choose lambda as **0.5** to 0.7)
- For noise level: 6% (choose lambda as **0.5**)
- For noise level: 8% (choose lambda as **0.25** to 0.5)

Thank you!!!

