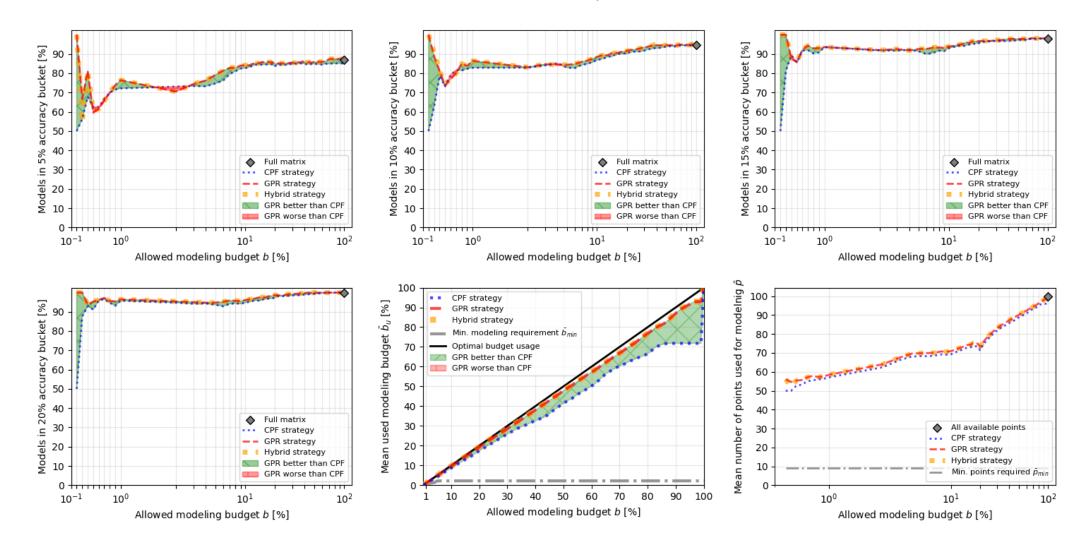
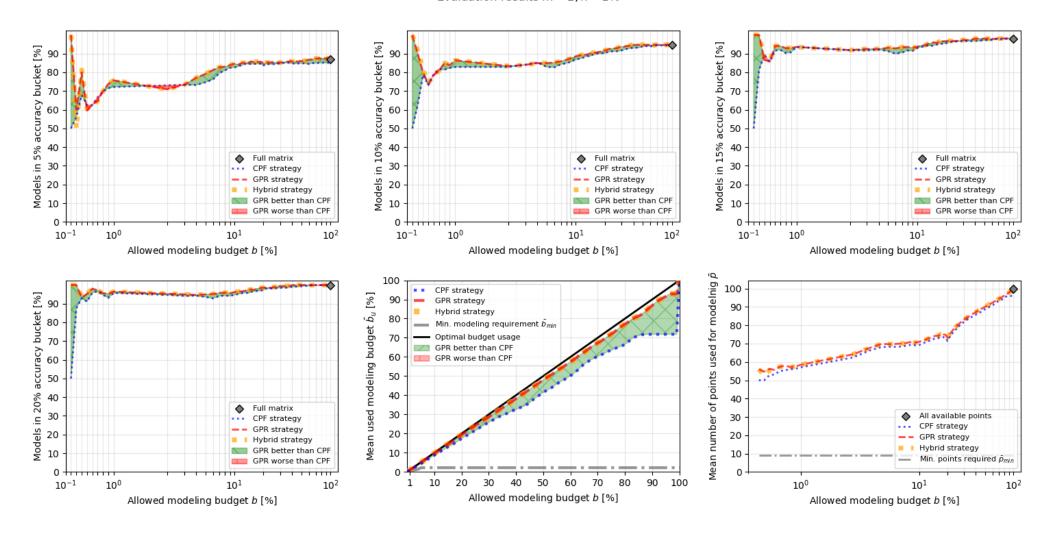
2 parameter, 1% noise

Config 1: rep. selection for ad. points

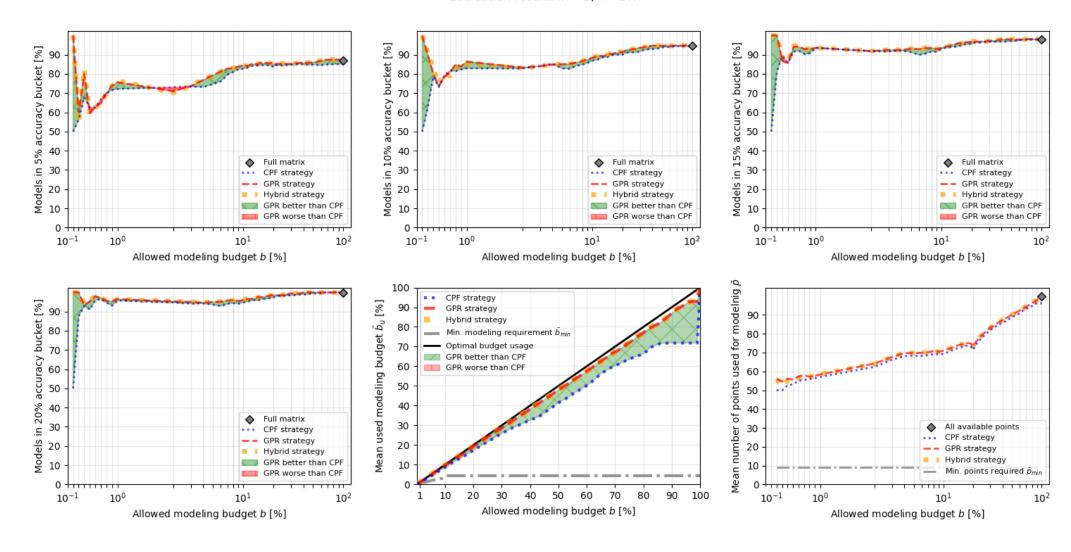


Config 4: rep. selection ad. Points + weighted point cost function

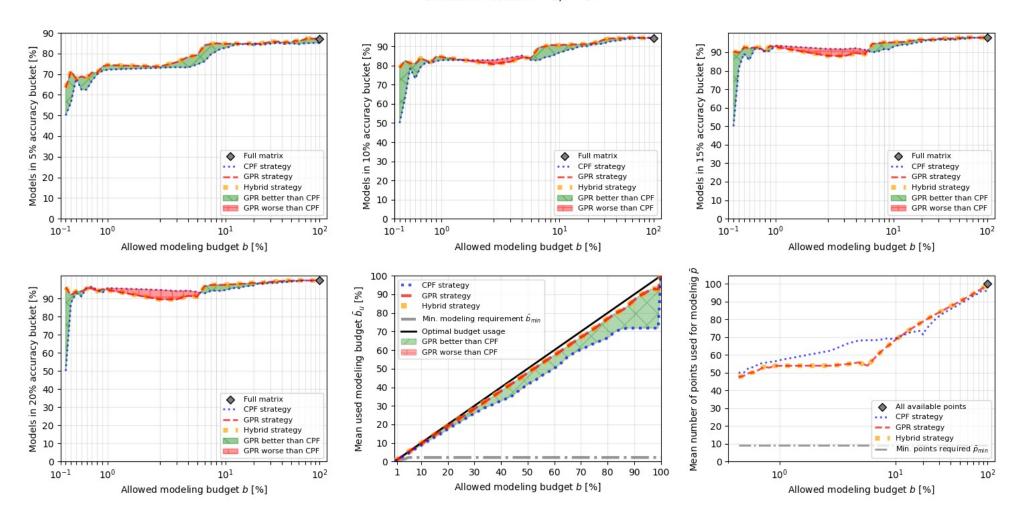


Config 8: rep. selection for ad. + weighted point cost function + cor. cost calc + 2 base points + 4 reps total + fixed points calc. + fixed hybrid strat. selection switch 20

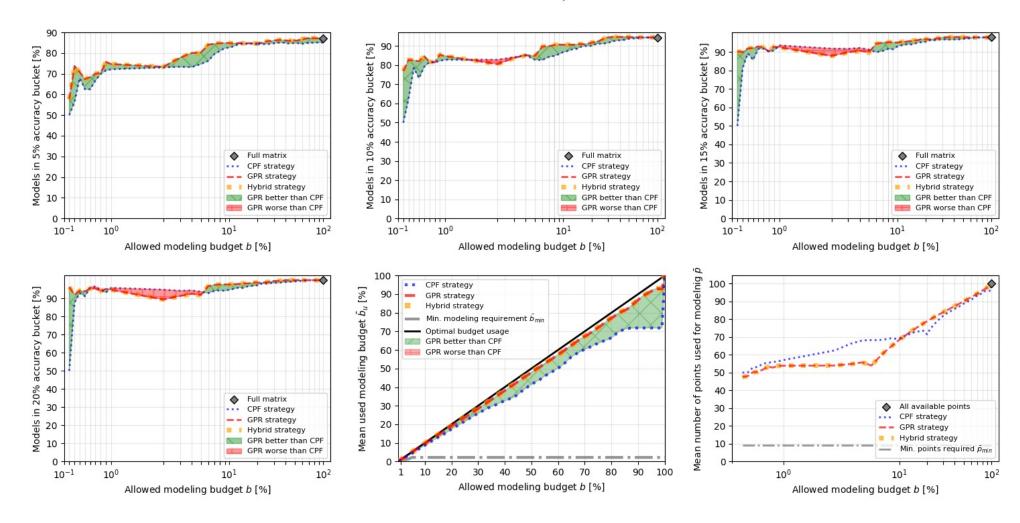
Evaluation results m = 2, n = 1%



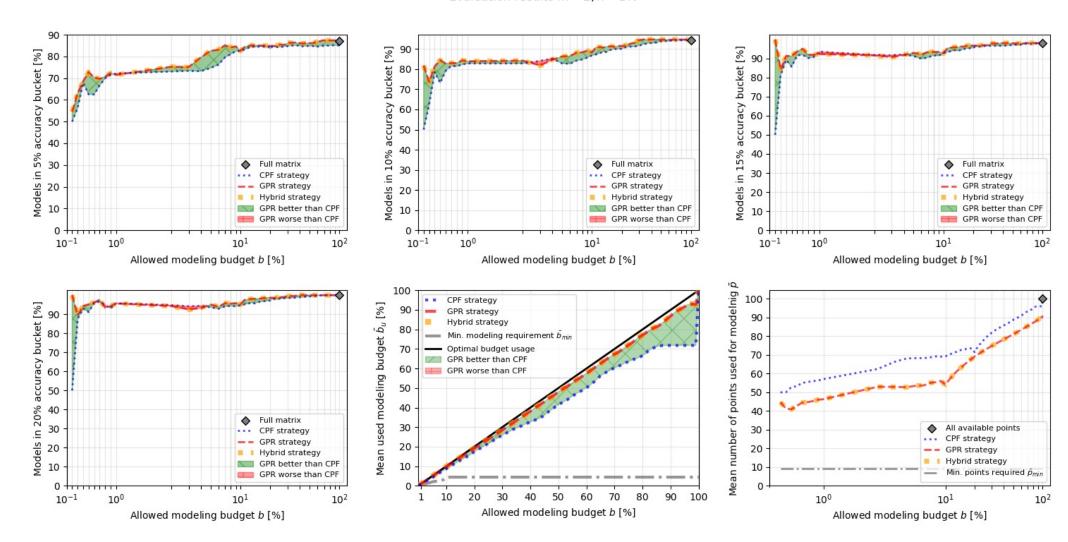
Config 2: rep. selection for ad. + base points



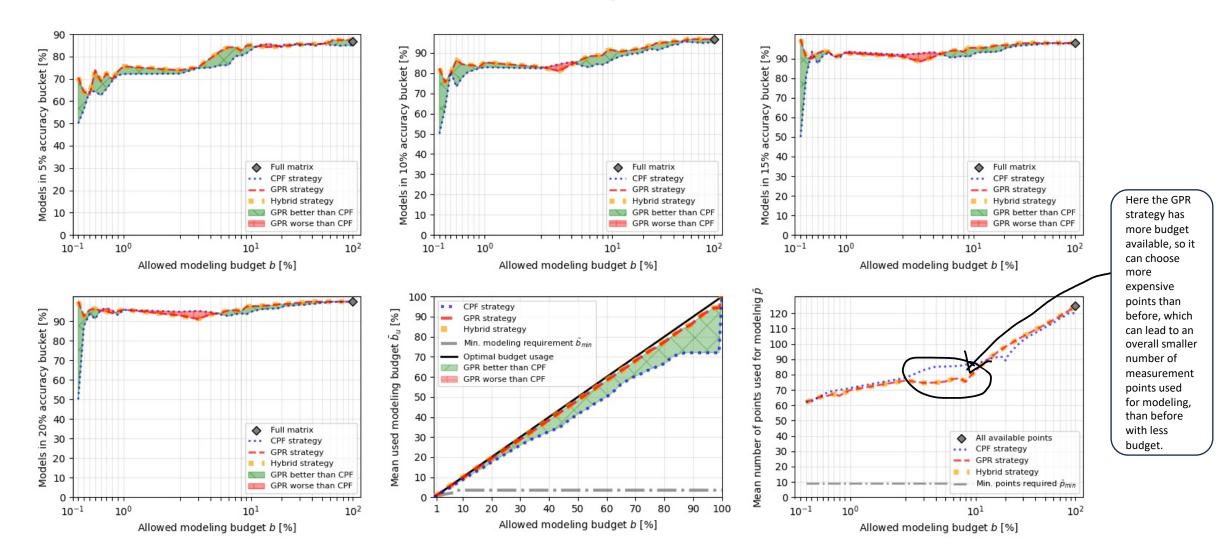
Config 3: rep. selection for ad. + base points + weighted point cost function



Config 5: rep. selection for ad. + base points + weighted point cost function + cor. cost calc + 2 base points

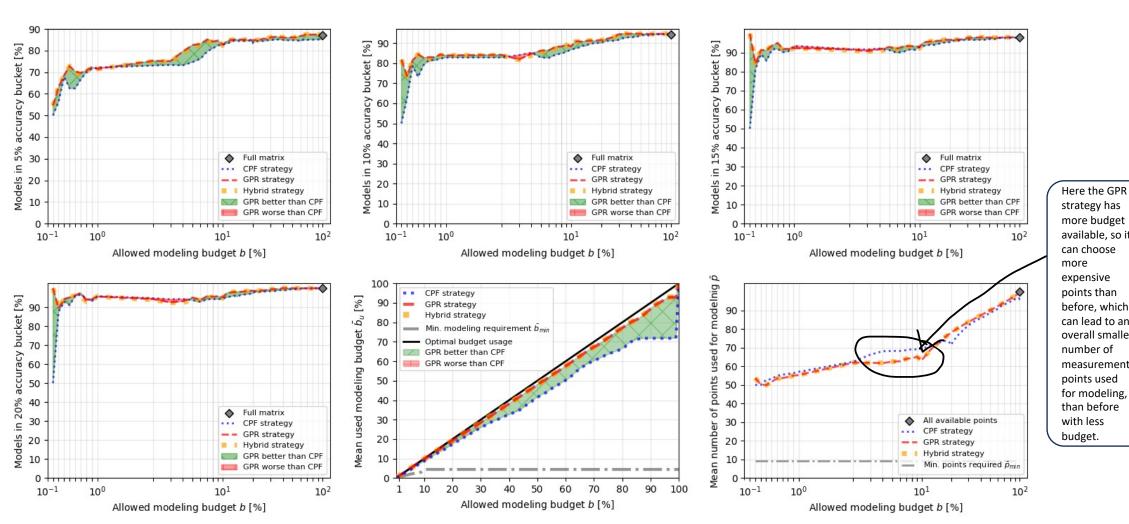


Config 6: rep. selection for ad. + base points + weighted point cost function + cor. cost calc + 2 base points + 5 reps total + fixed points calc.



Config 7: rep. selection for ad. + base points + weighted point cost function + cor. cost calc + 2 base points + 4 reps total + fixed points calc. + fixed hybrid strat. selection switch 10





strategy has more budget available, so it points than before, which can lead to an overall smaller measurement points used for modeling. than before

• Use config 7: overall best results and most consistent

2 parameter, 2% noise

Config 3:

Full matrix

· · · CPF strategy

10¹

Allowed modeling budget b [%]

Hybrid strategy

GPR better than CPF

10²

30

20

10

20

30

40 50 60

Allowed modeling budget b [%]

70

90 80

10¹

Allowed modeling budget b [%]

Models within ±5% at P_{eval} [%]

10

≥ 90

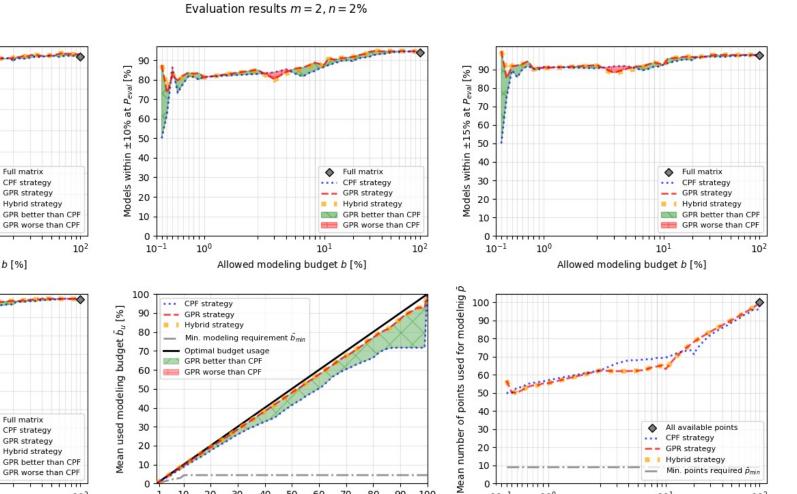
10

 10^{-1}

10⁰

 10^{-1}

10⁰



30

20

 10^{-1}

10⁰

All available points

 10^{2}

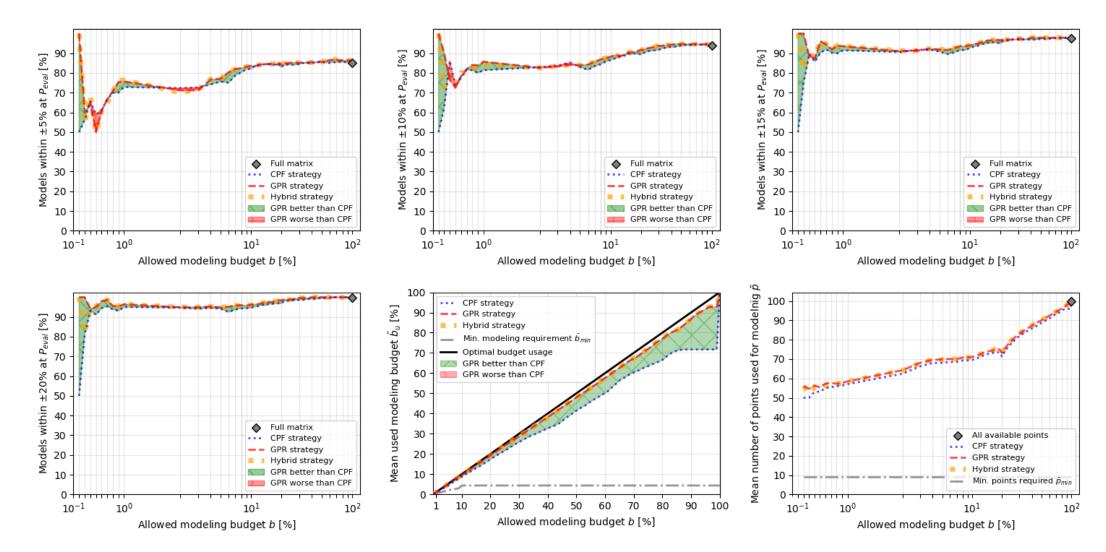
CPF strategy

Hybrid strategy

10¹

Allowed modeling budget b [%]

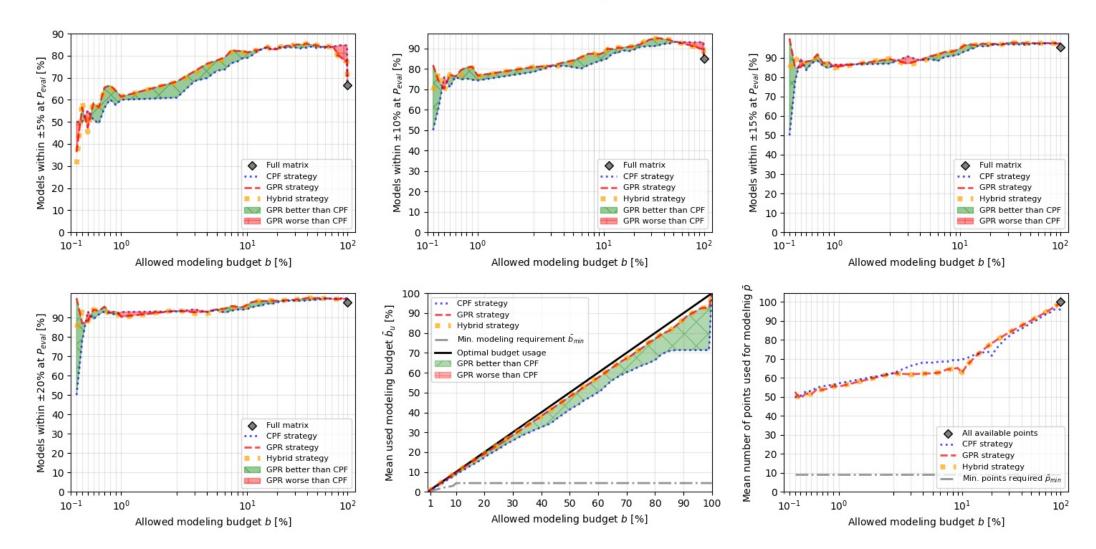
Config 4:



 Use config 3: with the reps of base points and weighted functions gives overall best results and most consistent

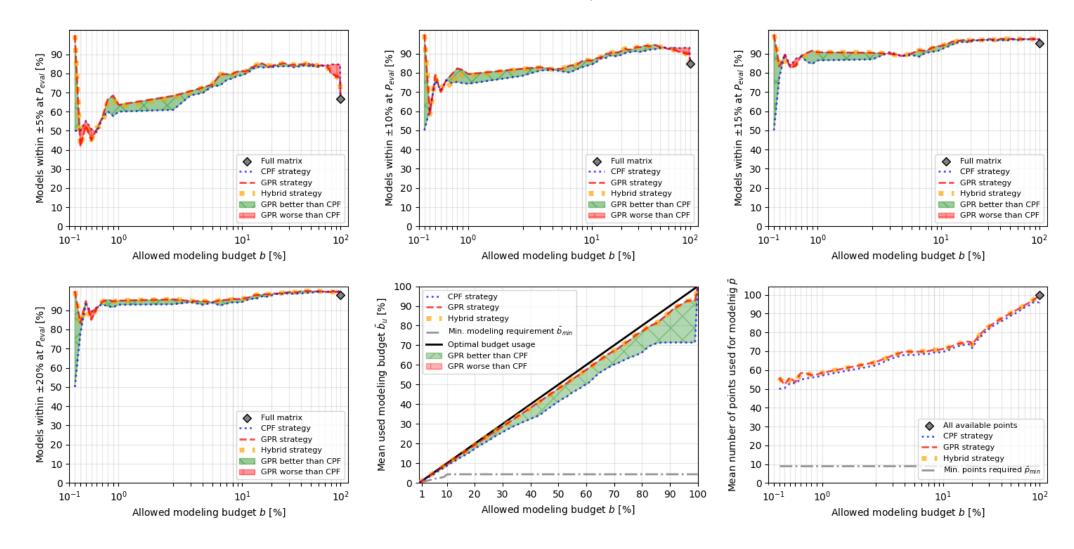
2 parameter, 5% noise

Config 3:



Config 4:

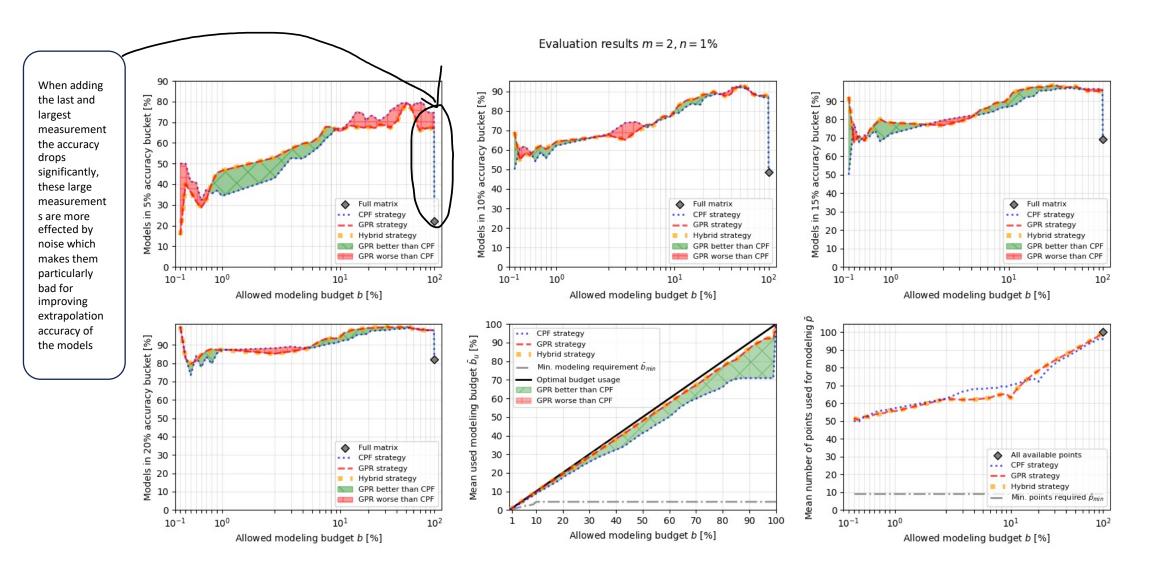




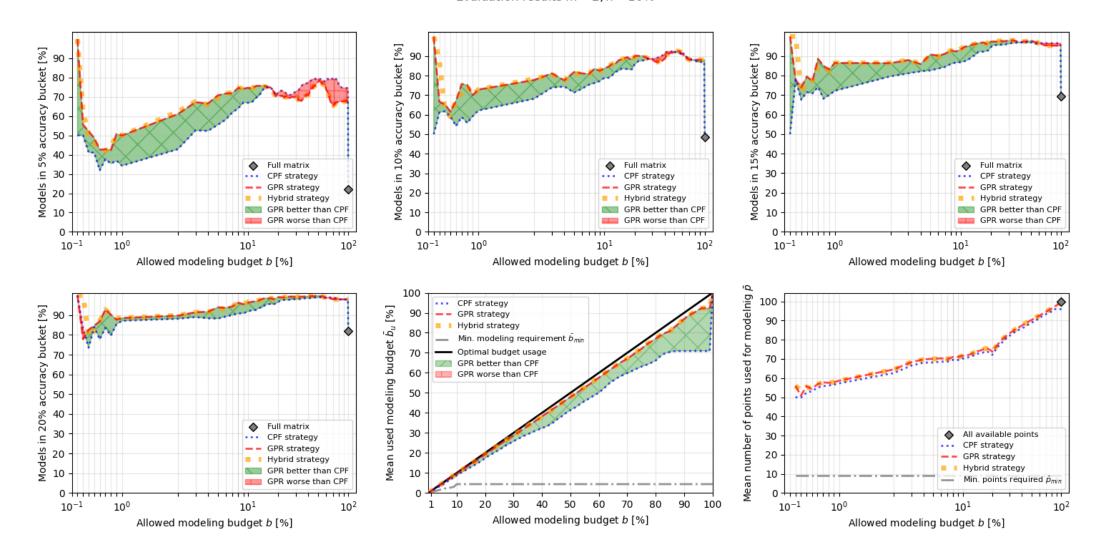
 Use config 3: with the reps of base points and weighted functions gives overall best results and most consistent

2 parameter, 10% noise

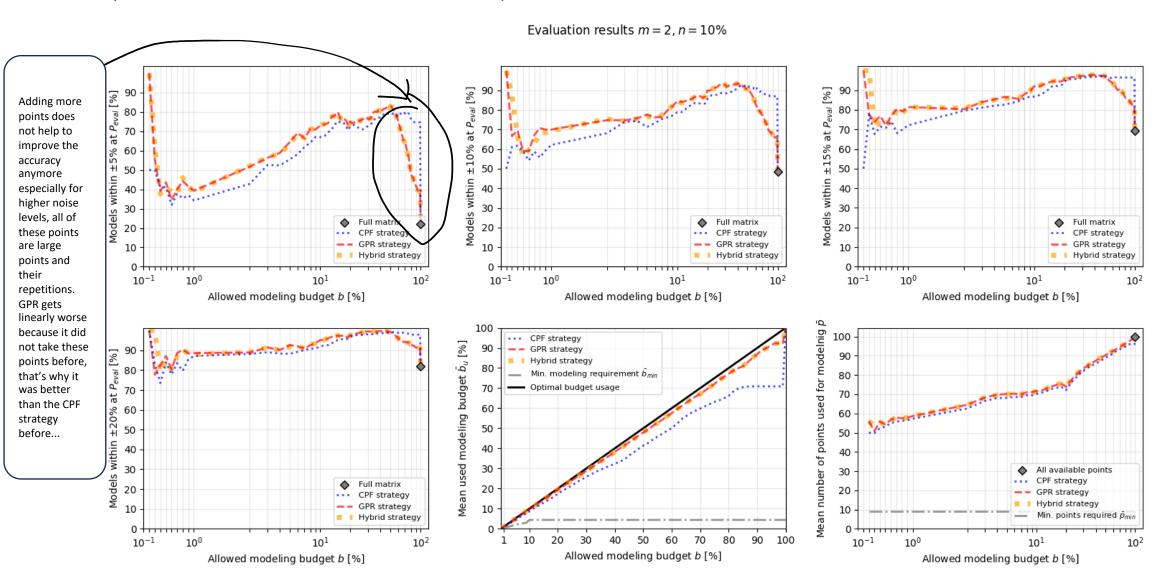
Config 1: rep. selection for ad. + base points + weighted point cost function + cor. cost calc + 2 base points + 4 reps total + fixed points calc. + hybrid switch 10



Config 1: rep. selection for ad. + cor. cost calc + 2 base points + 4 reps total + fixed points calc. + hybrid switch 20



Config 6: rep. selection for ad. + cor. cost calc + 2 base points + 4 reps total + fixed points calc. + hybrid switch 20 + fixed m.mean of reps is used in measurements



• Use config 6: overall best results and most consistent