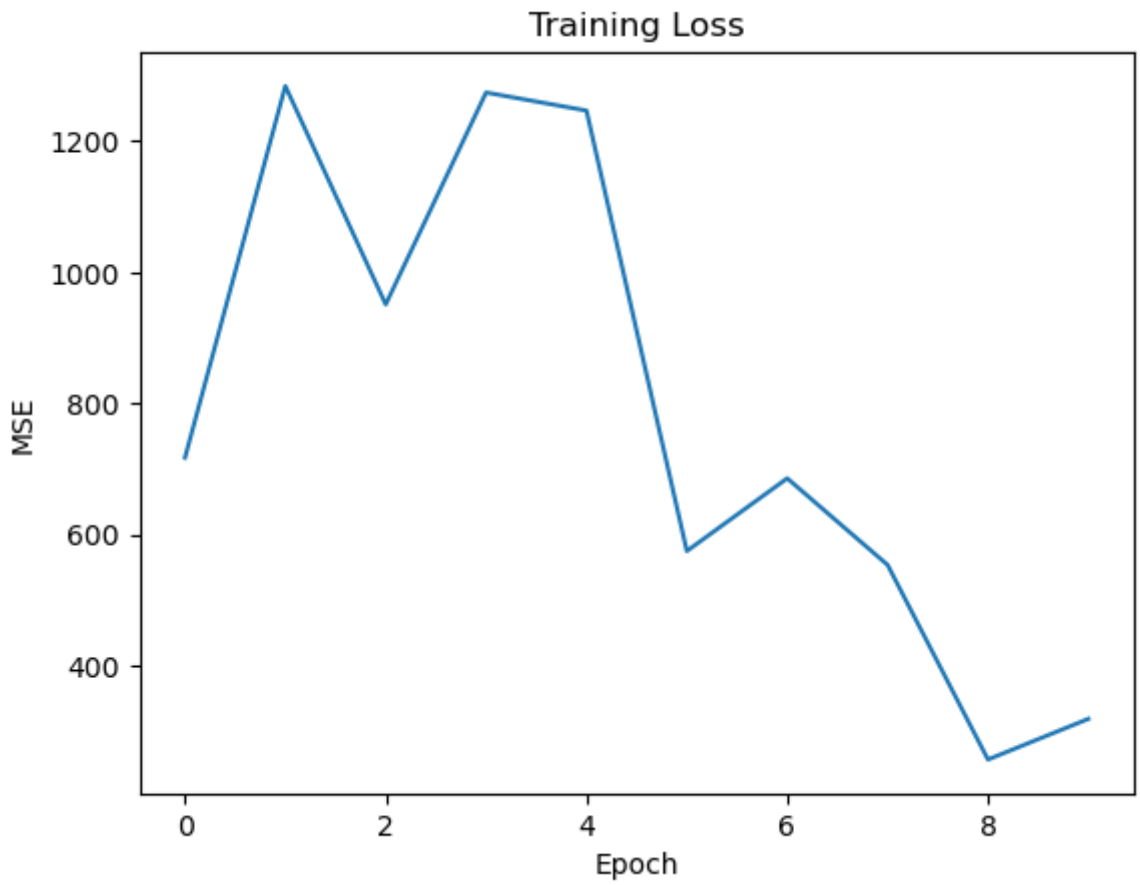
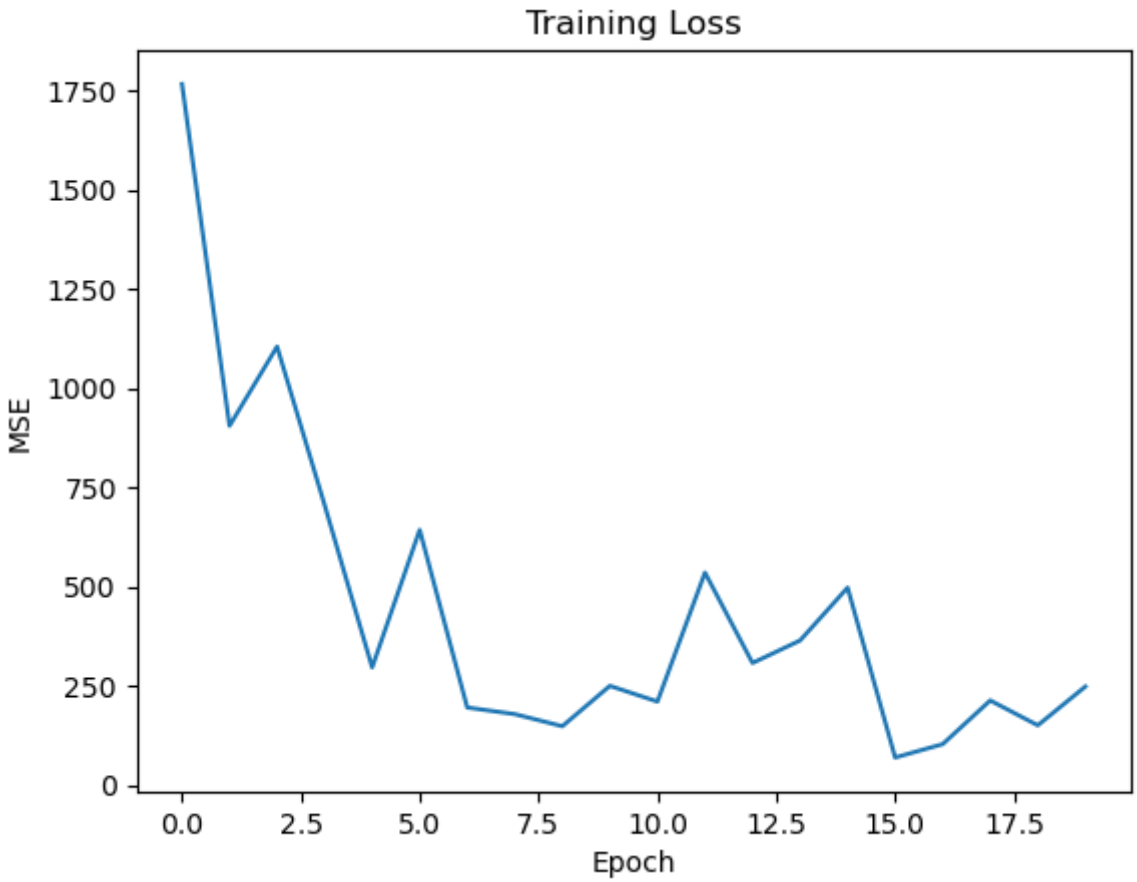
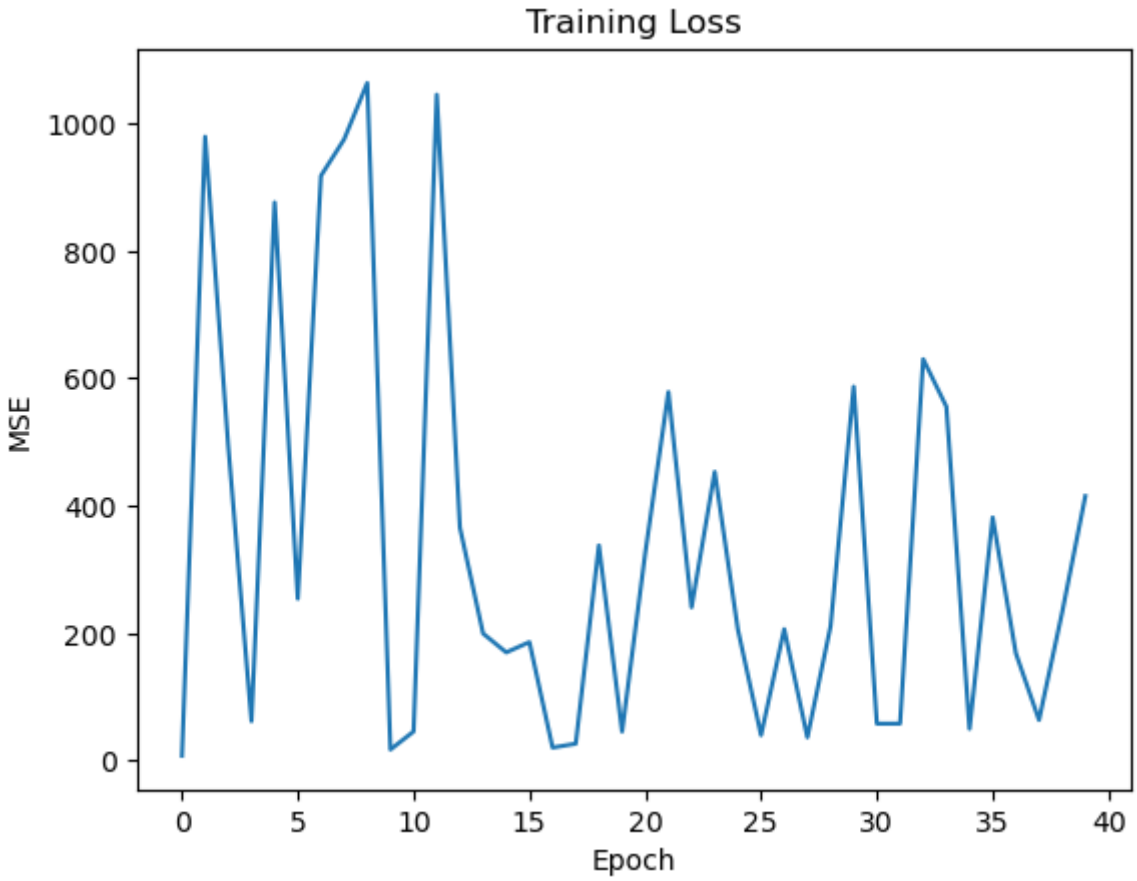
Report

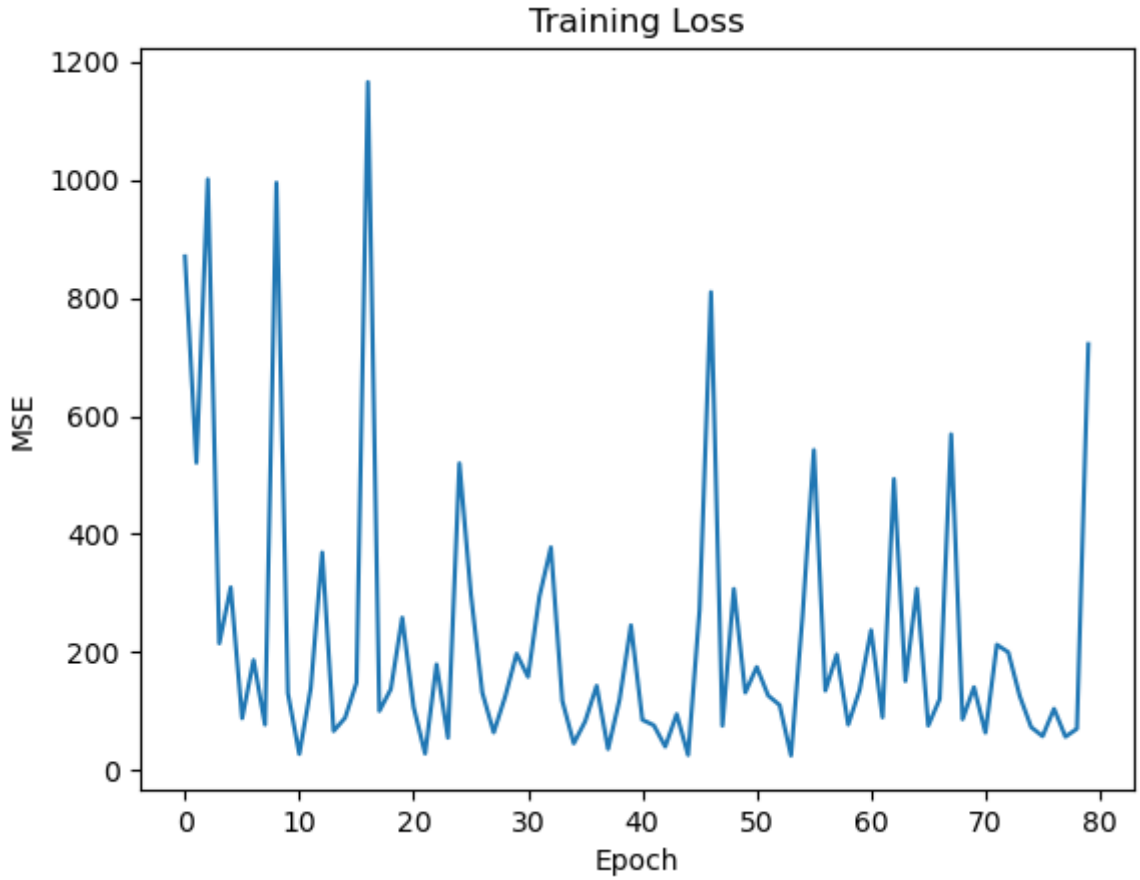
- Results with all models - b0 to b7.
- On the small dataset.

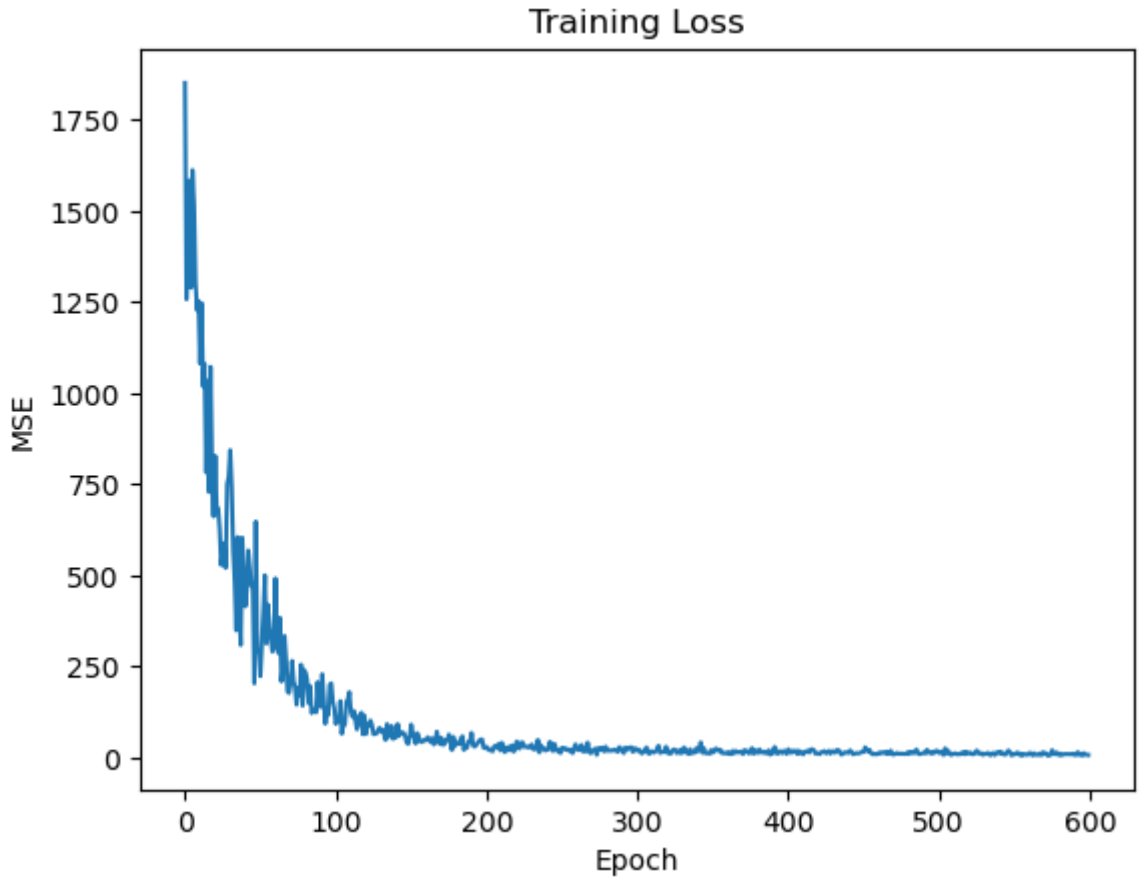
Training

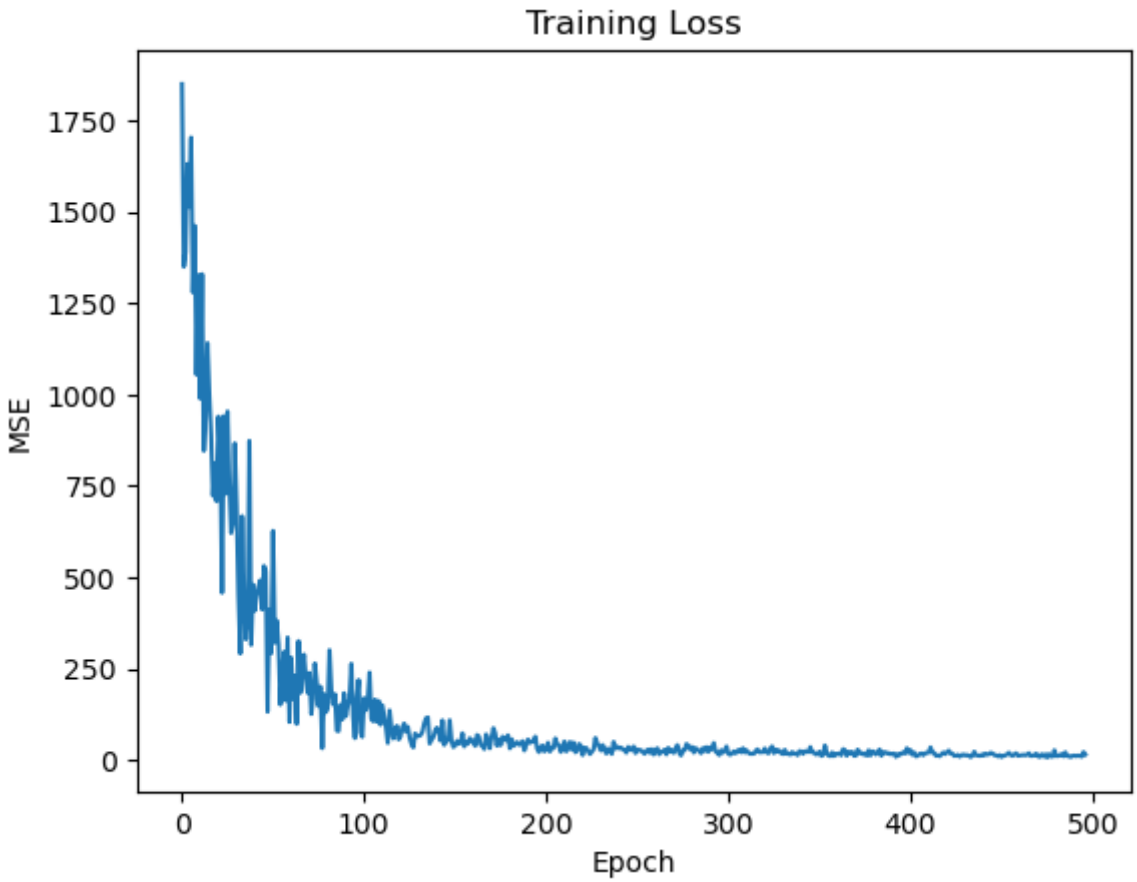


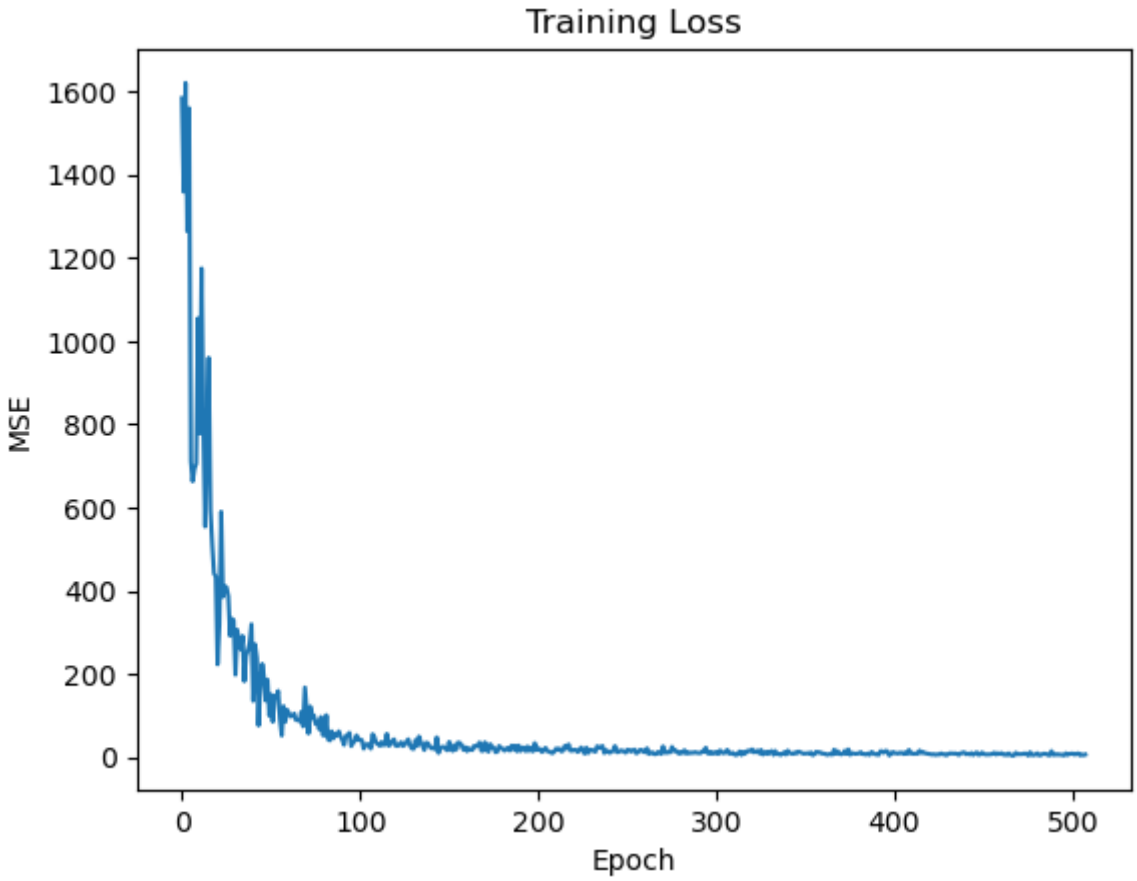

Training Loss
MSE
Epoch
1750
1500
1250
1000
750
500
250
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

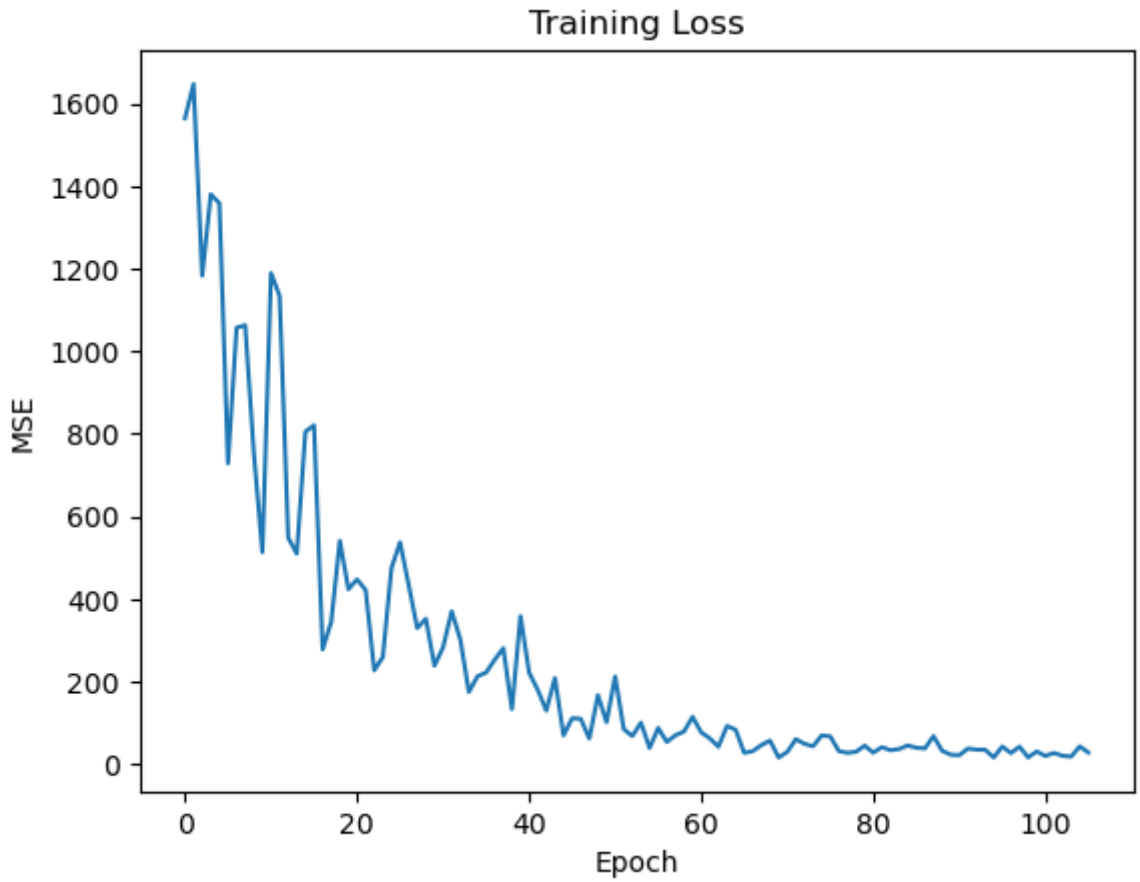

Training Loss
MSE
Epoch
1000
800
600
400
200
0
0
5
10
15
20
25
30
35
40


Training Loss
MSE
Epoch
0
200
400
600
800
1000
1200
0
10
20
30
40
50
60
70
80

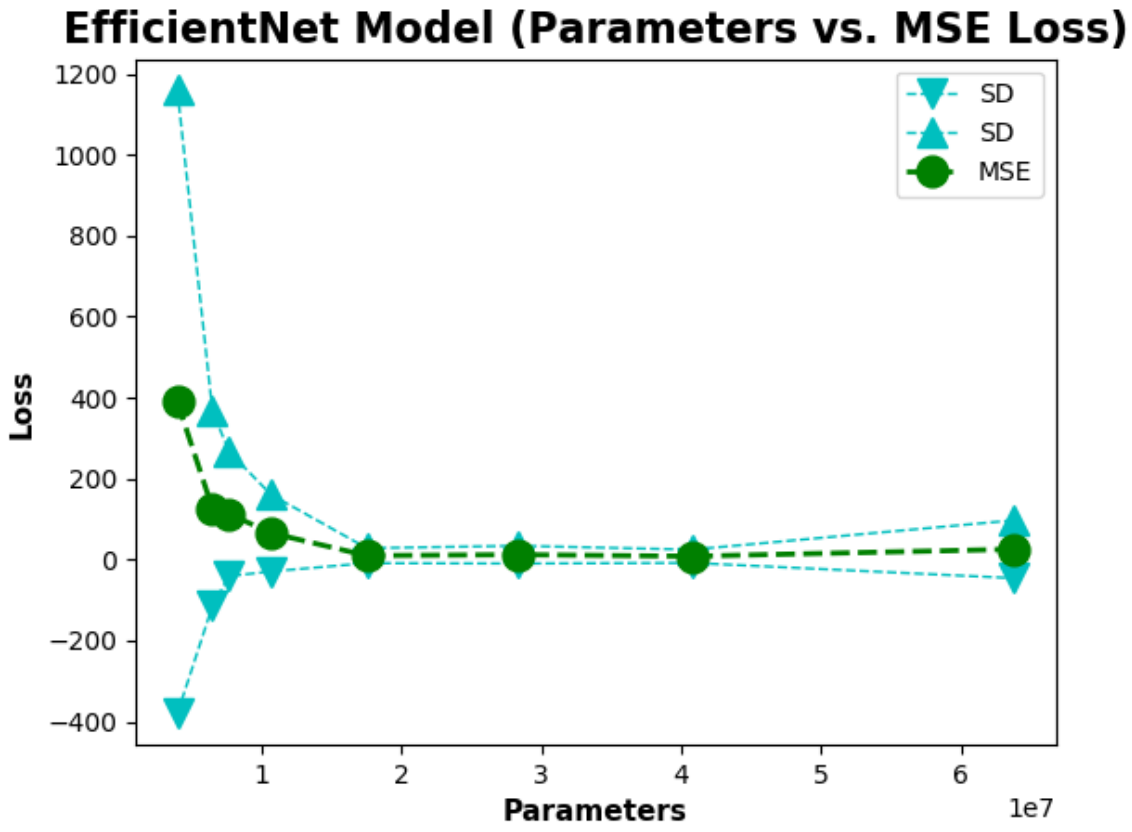

Training Loss
MSE
Epoch
0
250
500
750
1000
1250
1500
1750
0
100
200
300
400
500
600

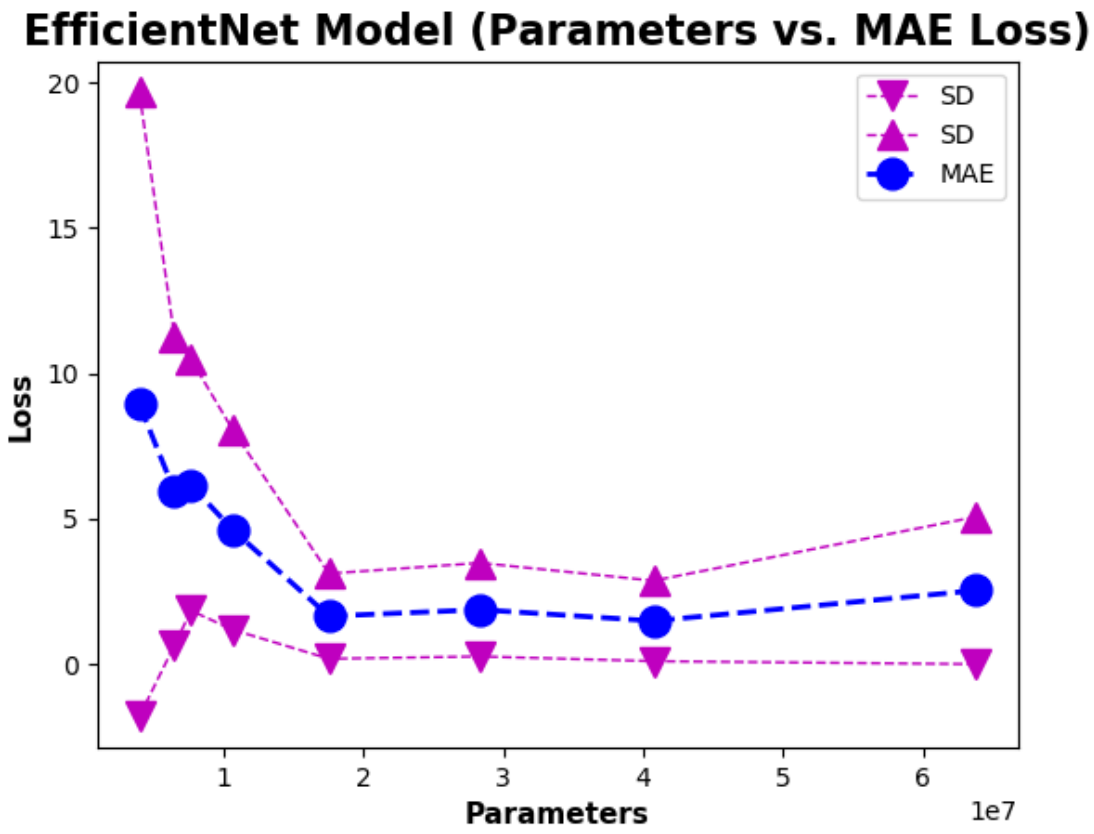

Training Loss
MSE
Epoch
1750
1500
1250
1000
750
500
250
0
0
100
200
300
400
500


Training Loss
MSE
Epoch
1600
1400
1200
1000
800
600
400
200
0
0
100
200
300
400
500



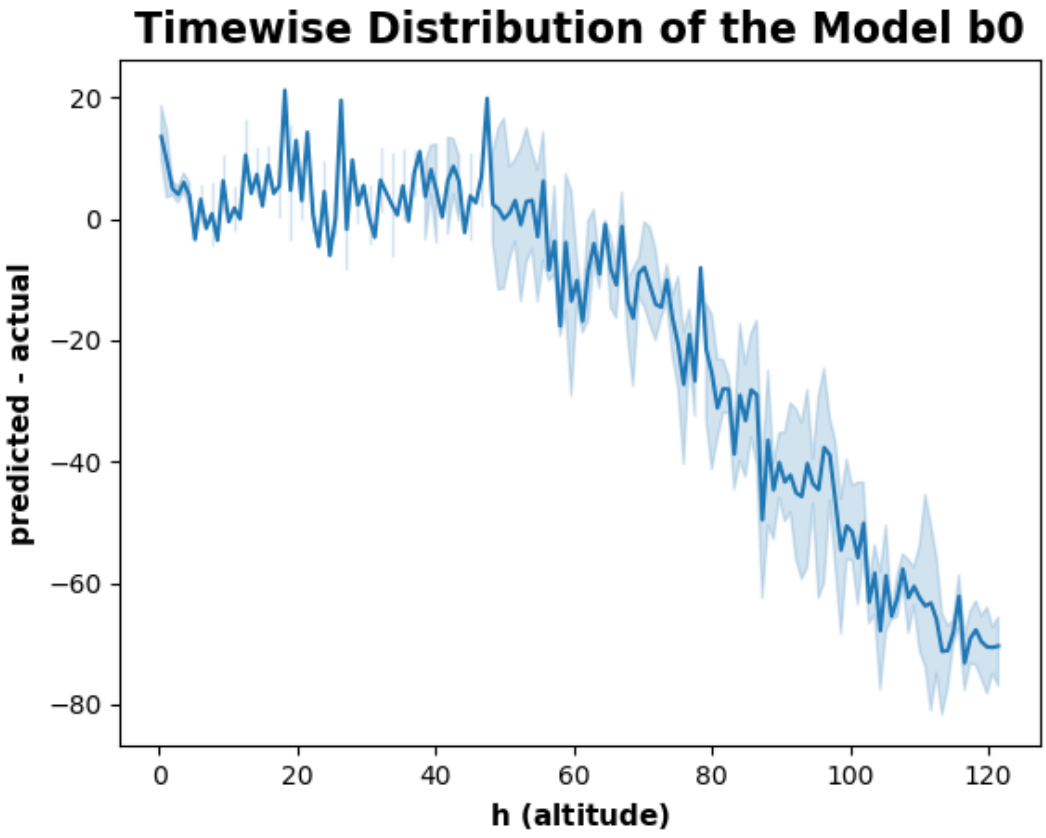
Accuracy Plots

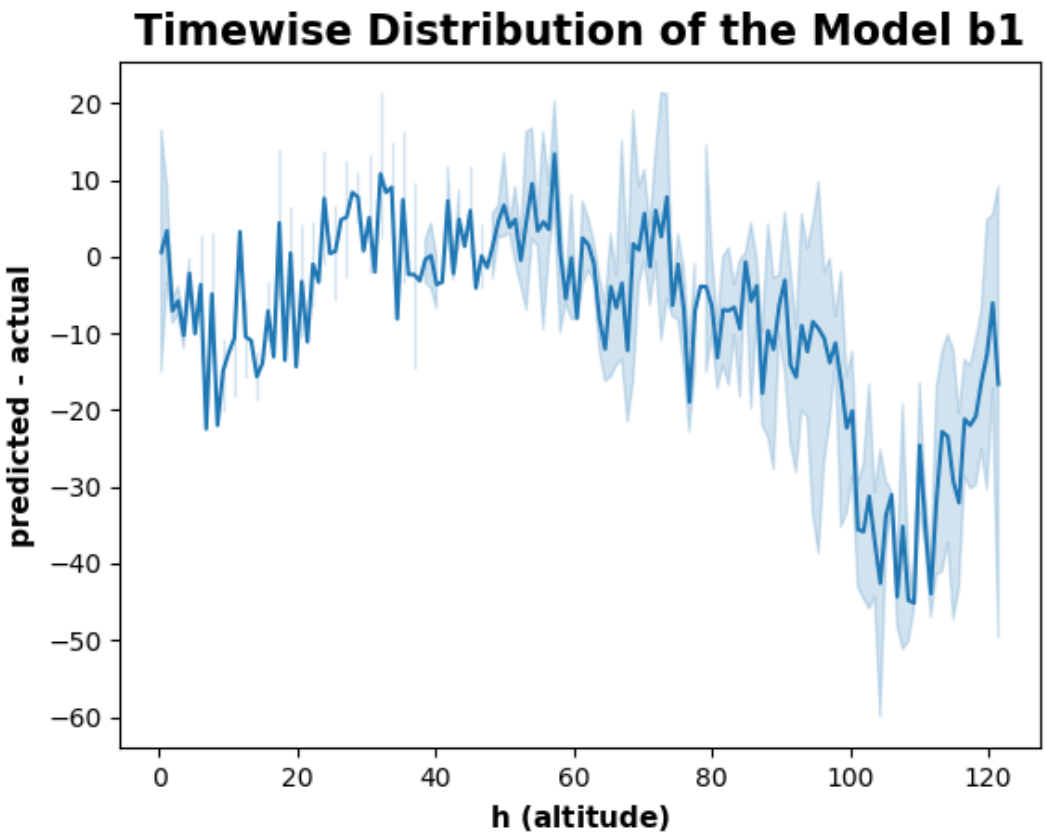


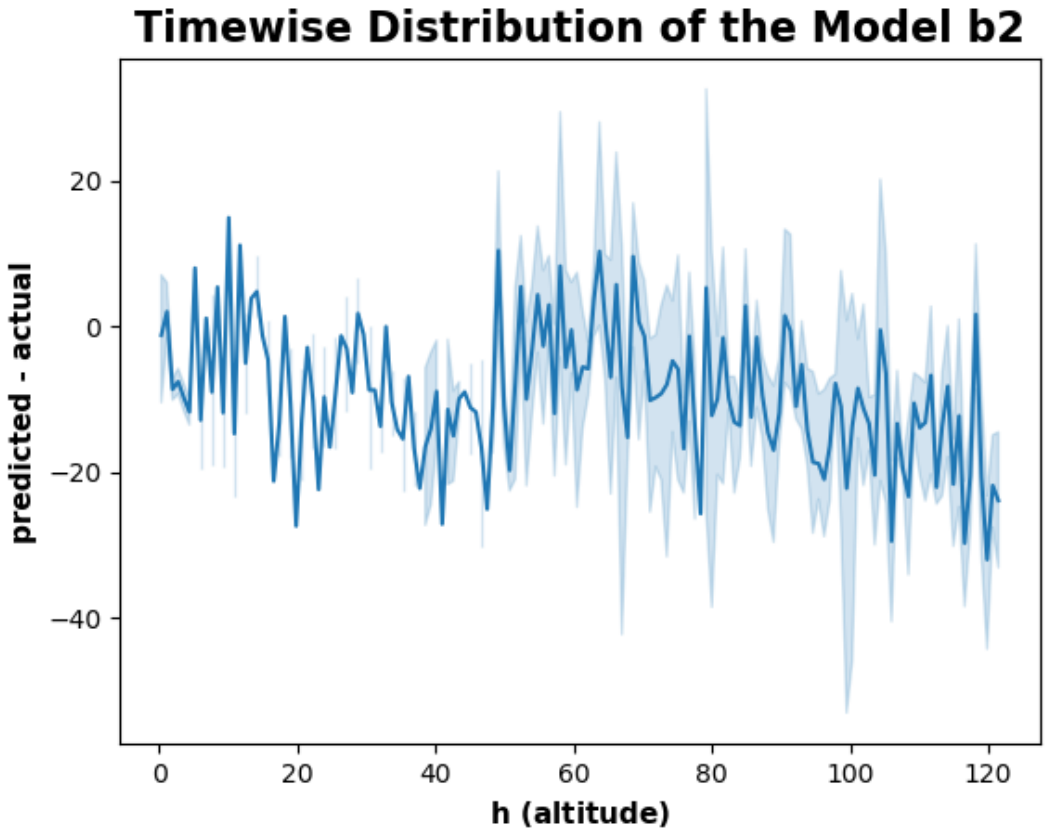


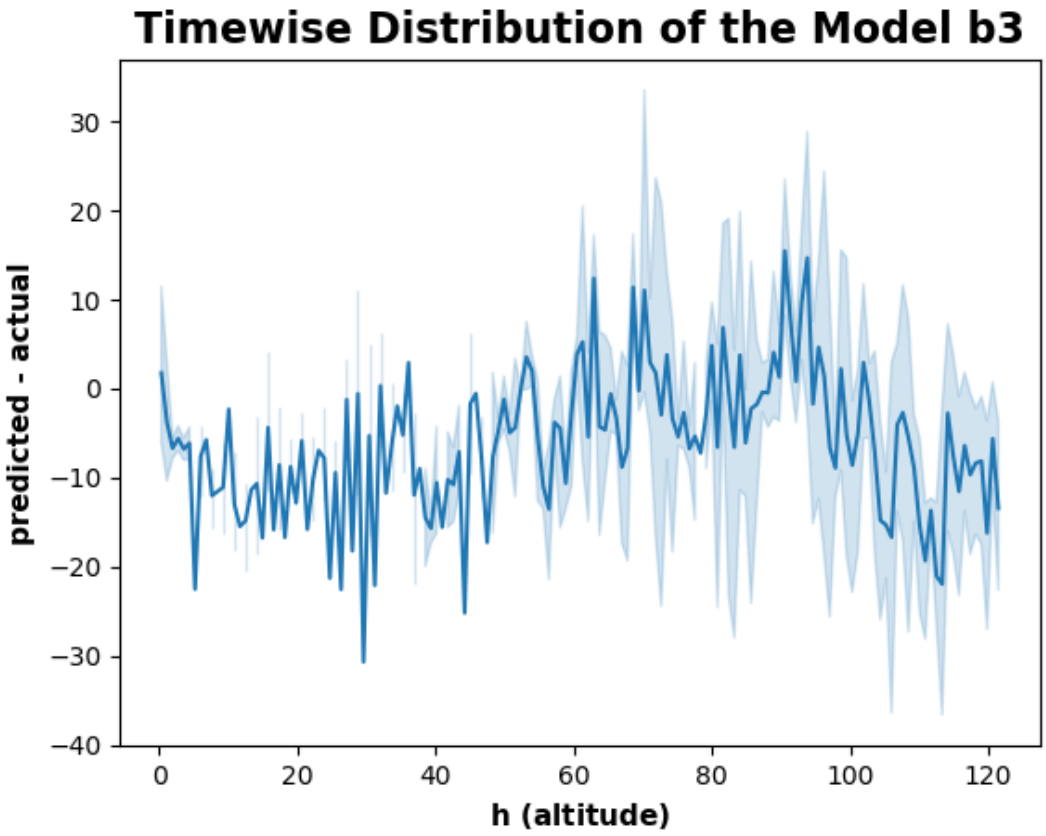
- Clearly not monotonic - but that's OK!

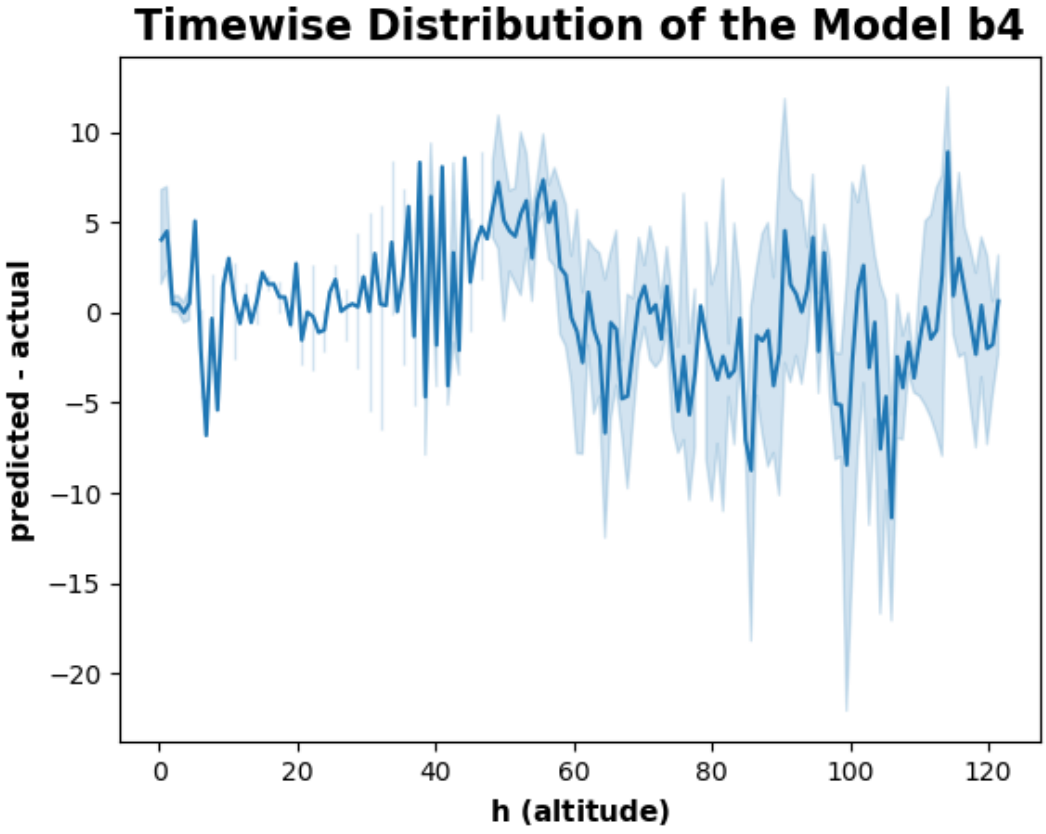
Distributions

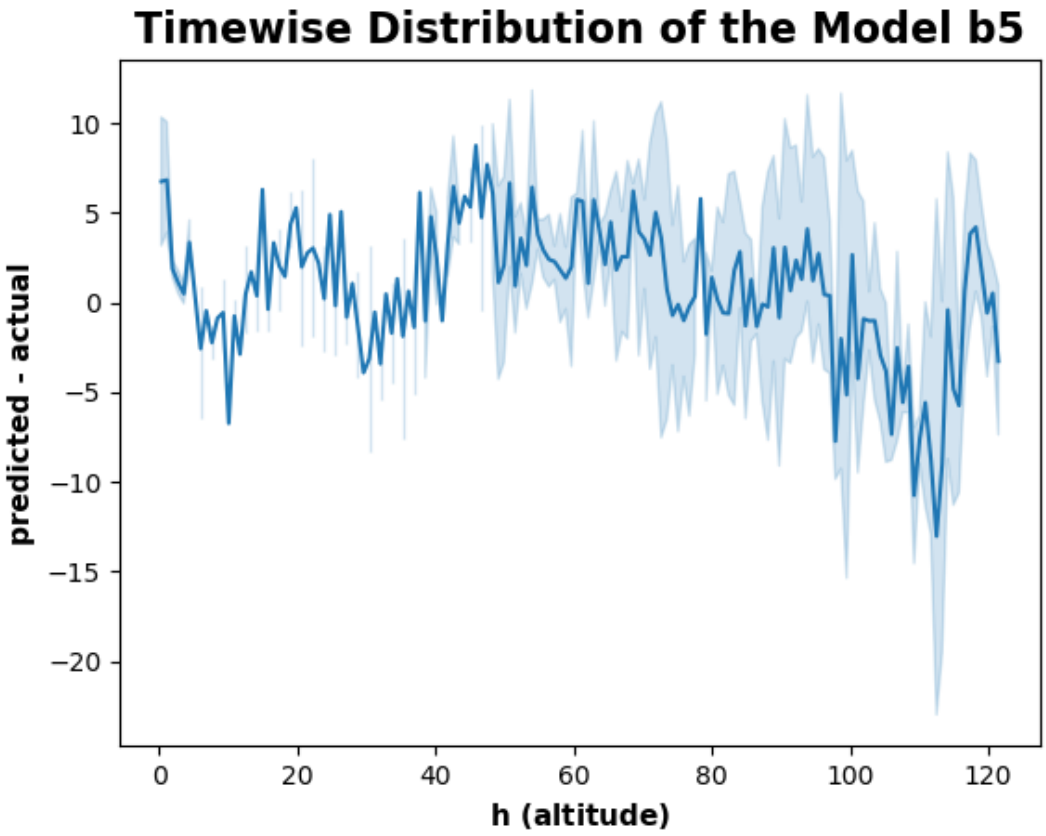


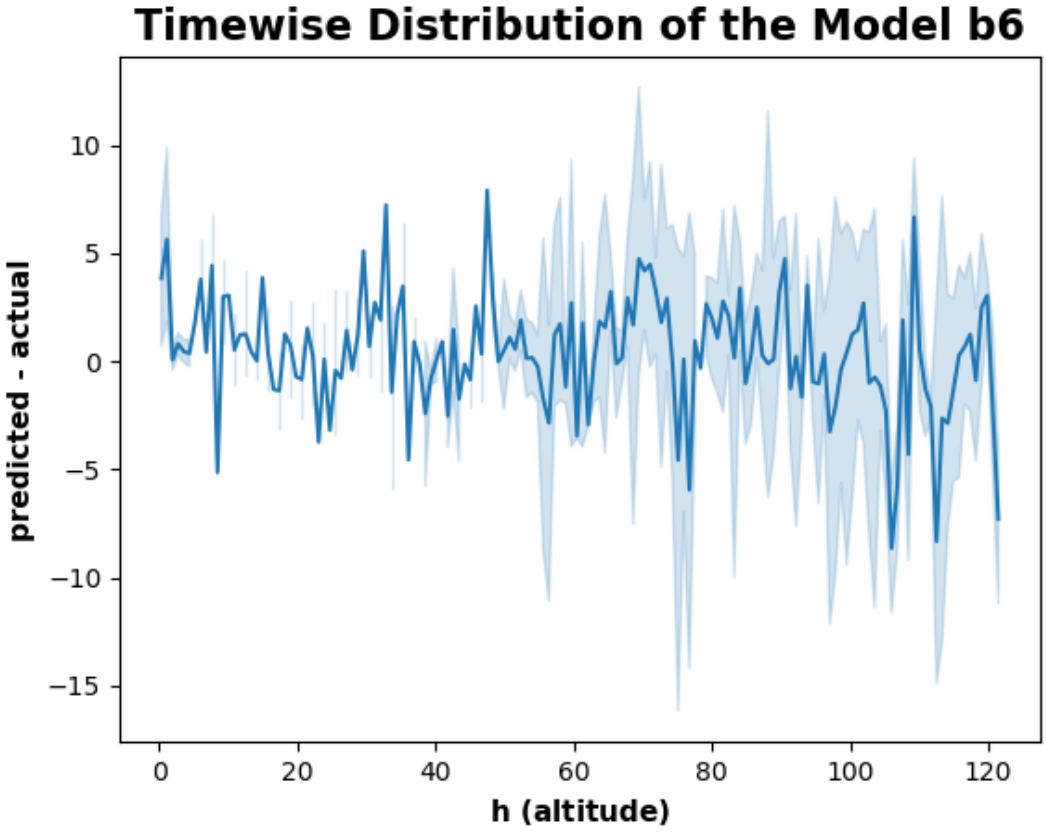

Timewise Distribution of the Model b1
predicted - actual
h (altitude)
20
10
0
−10
−20
−30
−40
−50
−60
0
20
40
60
80
100
120

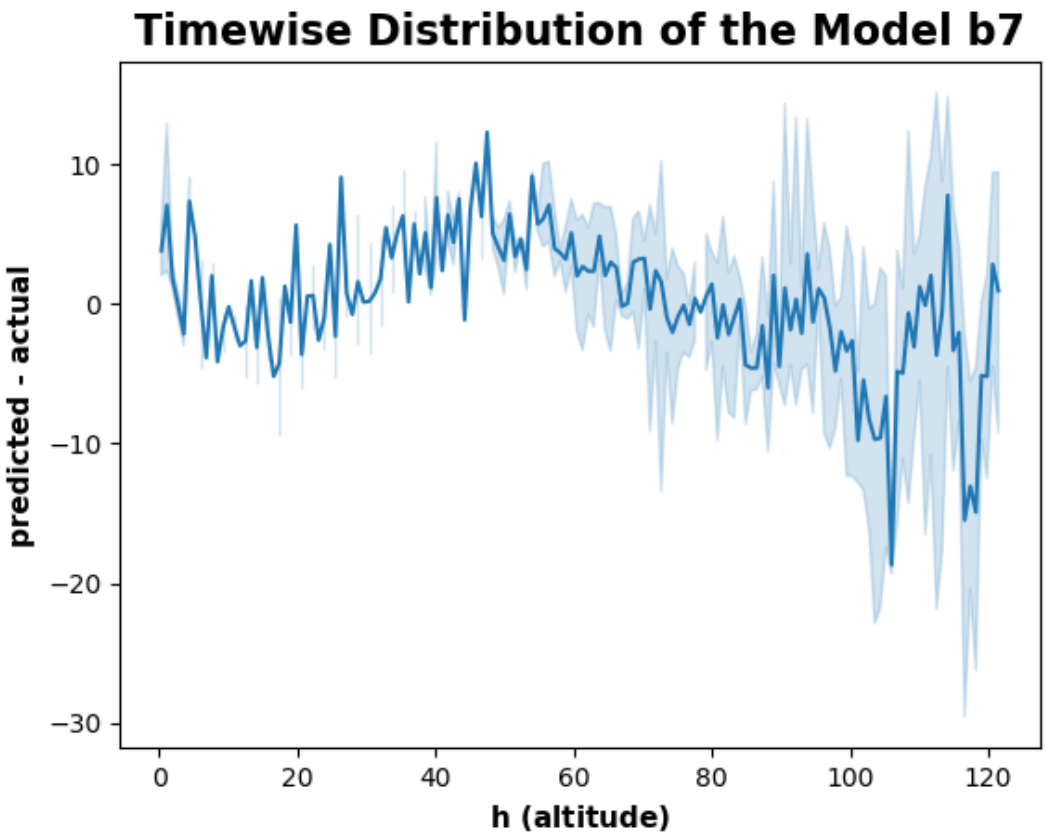

Timewise Distribution of the Model b2
predicted - actual
h (altitude)
20
0
−20
−40
0
20
40
60
80
100
120


Timewise Distribution of the Model b3
predicted - actual
30
20
10
0
−10
−20
−30
−40
0
20
40
60
80
100
120
h (altitude)


Timewise Distribution of the Model b4
predicted - actual
10
5
0
−5
−10
−15
−20
0
20
40
60
80
100
120
h (altitude)

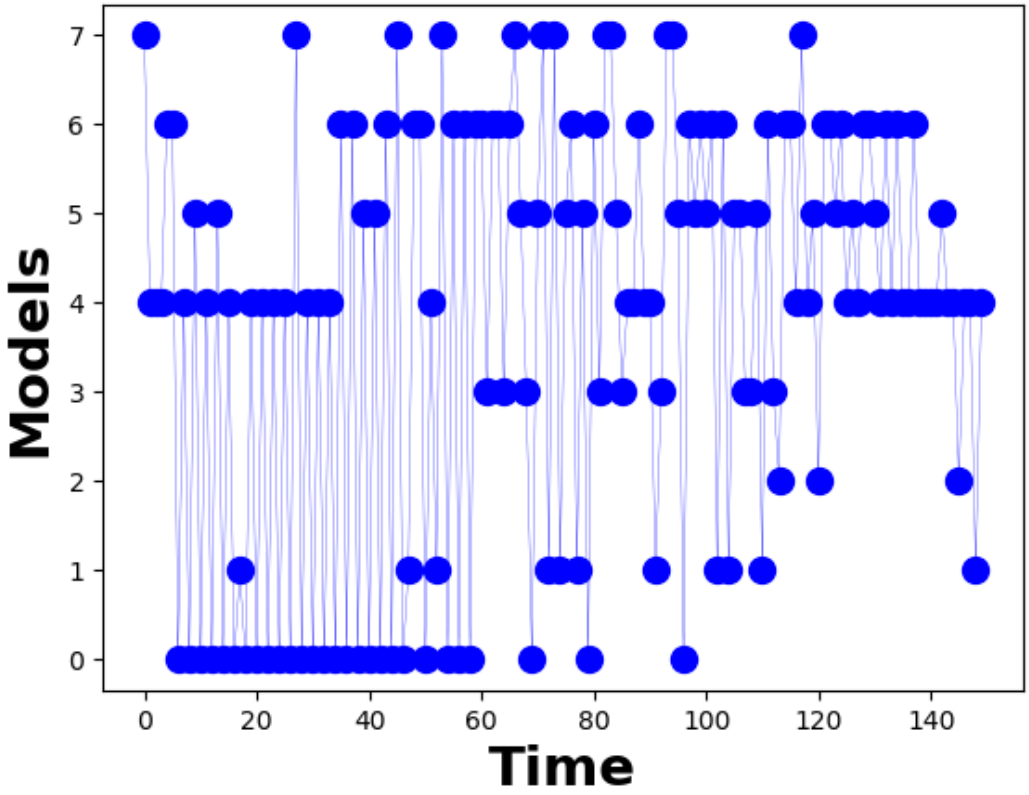

Timewise Distribution of the Model b5
predicted - actual
10
5
0
−5
−10
−15
−20
0
20
40
60
80
100
120
h (altitude)

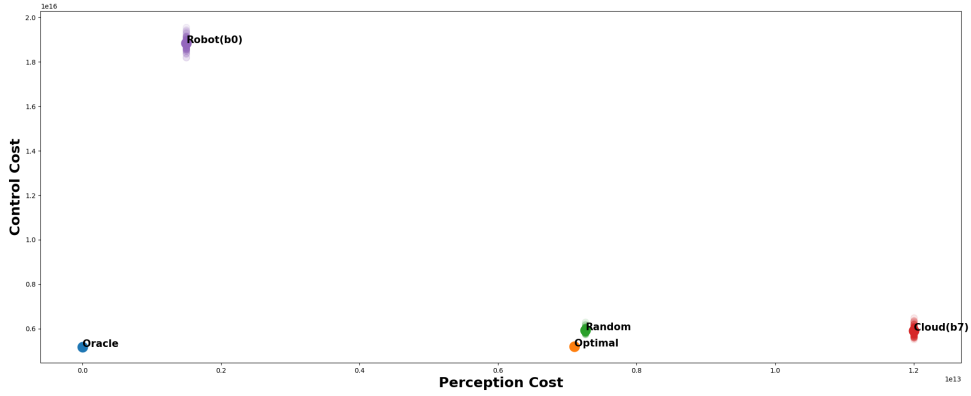

Timewise Distribution of the Model b6
predicted - actual
10
5
0
−5
−10
−15
0
20
40
60
80
100
120
h (altitude)

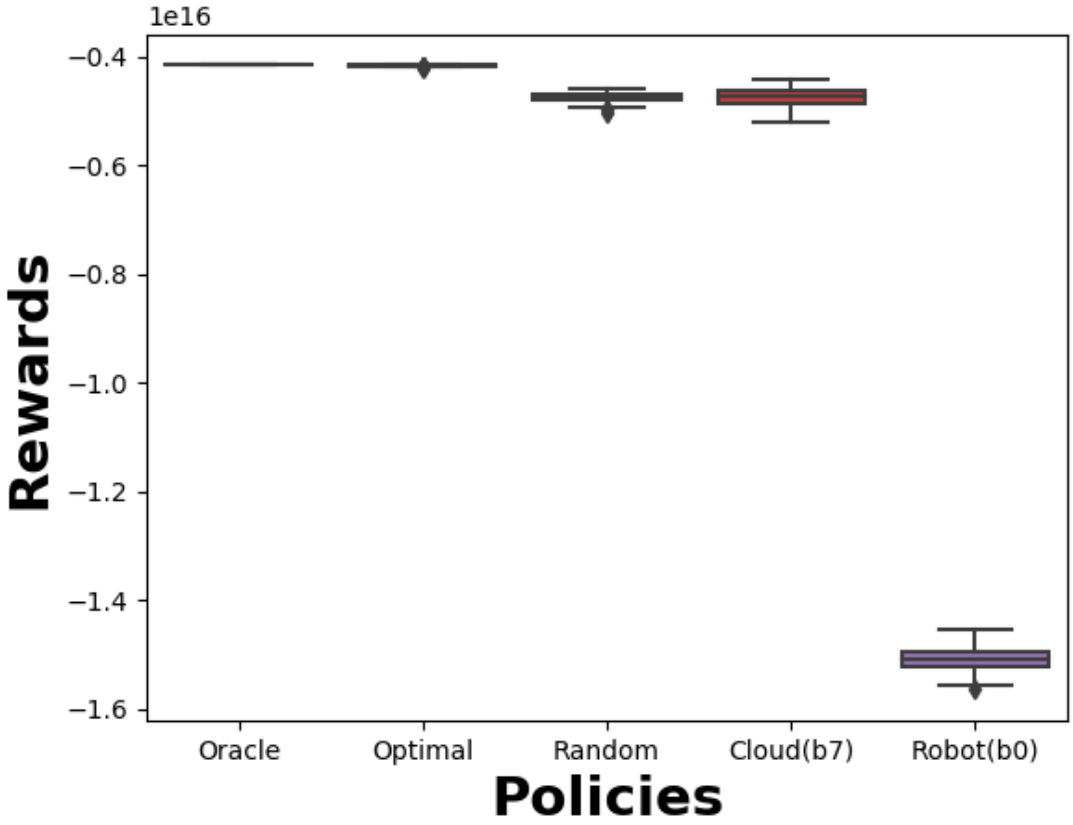


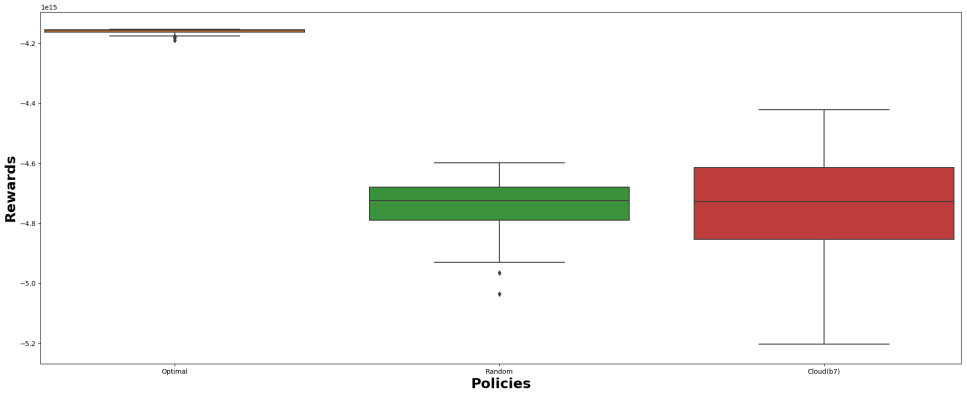
Model Selection

- Model selection sequence is obtained using the above shown distributions.
- Now, to evaluate the results over trials, we generate concrete values according to the distributions.




1e16
Robot(b0)
Random
Optimal
Cloud(b7)
Oracle
Control Cost
Perception Cost
1e13


1e16
Rewards
Oracle
Optimal
Random
Cloud(b7)
Robot(b0)
Policies


1e15
Rewards
Optimal
Random
Cloud(b7)
Policies