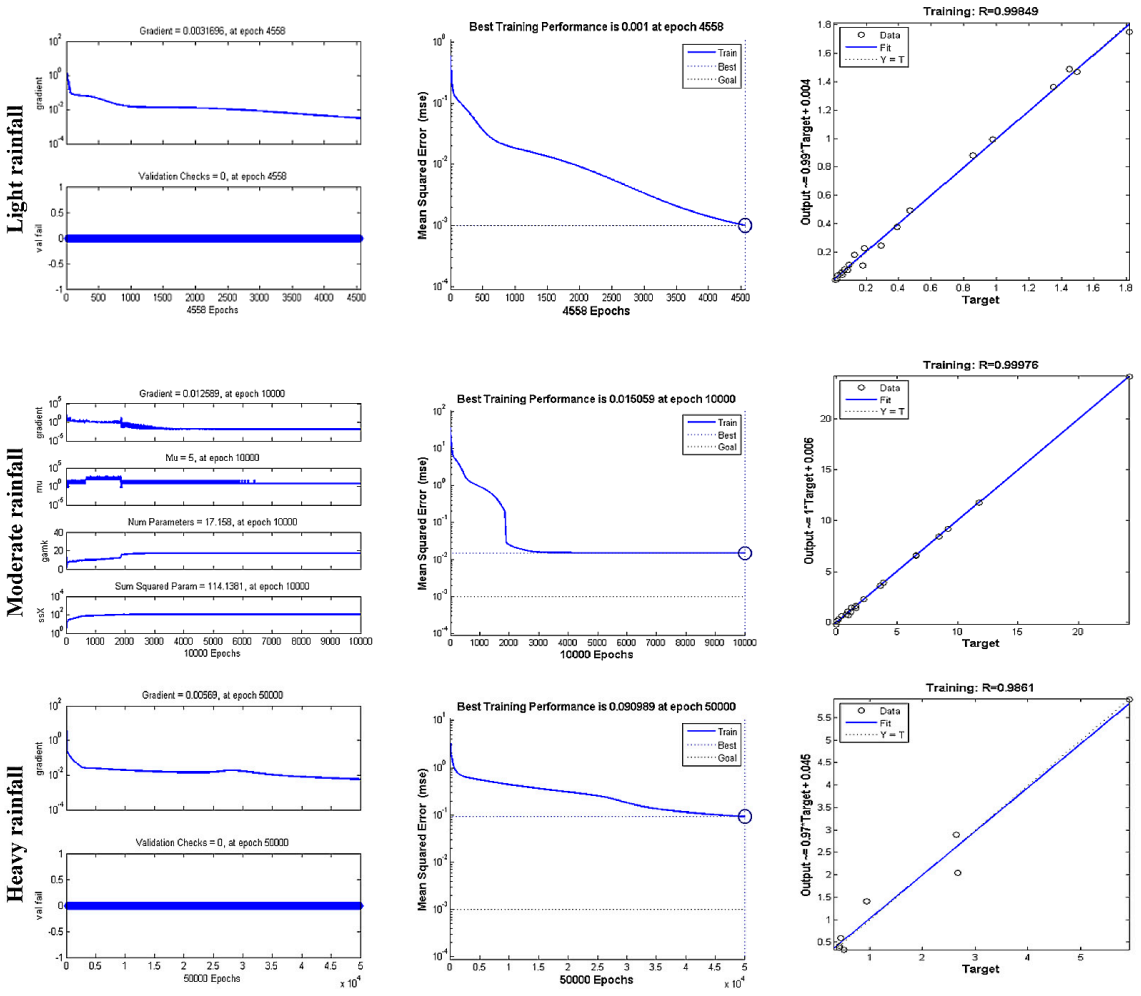
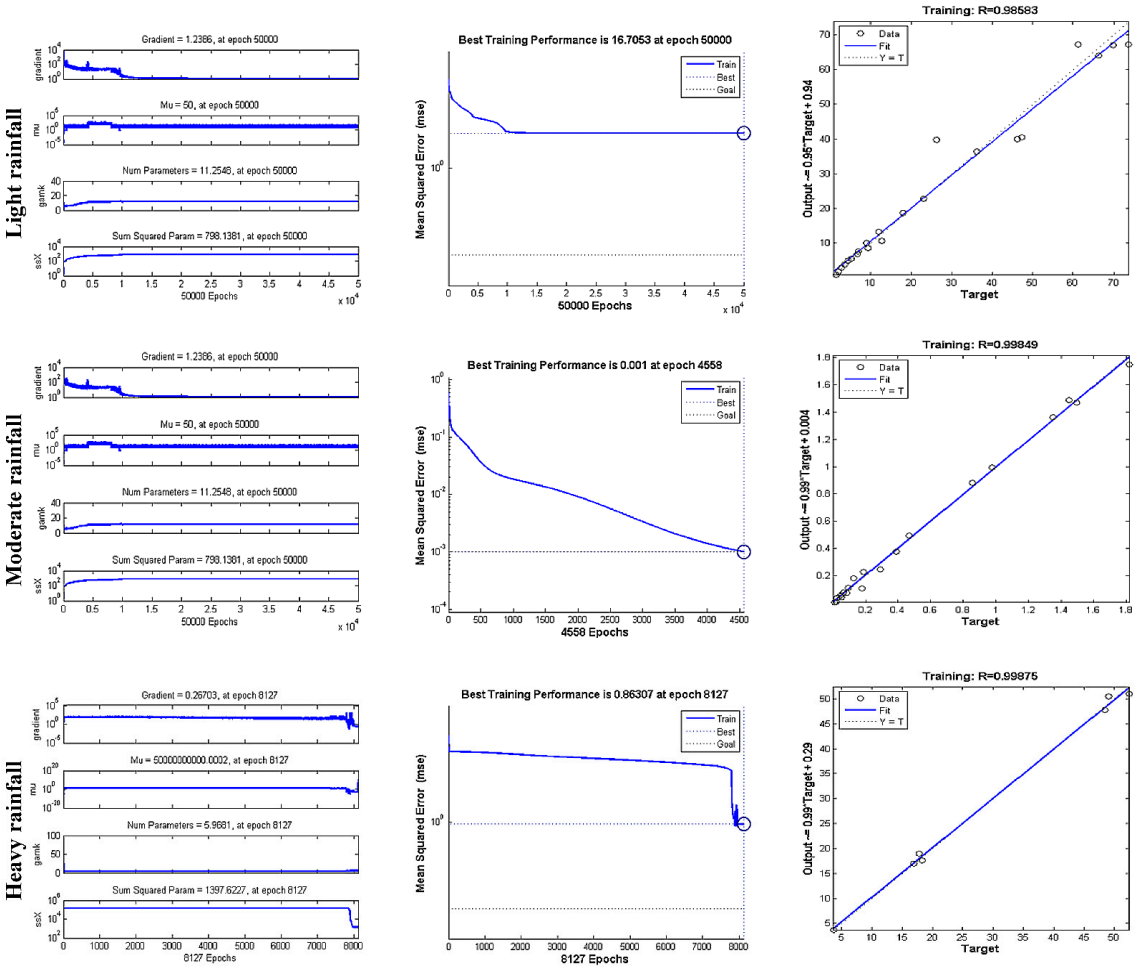

Light rainfall
Gradient = 0.0031696, at epoch 4558
Validation Checks = 0, at epoch 4558
4558 Epochs
Best Training Performance is 0.001 at epoch 4558
Train
Best
Goal
Mean Squared Error (mse)
4558 Epochs
Training: R=0.99849
Data
Fit
Y = T
Output ~= 0.99*Target + 0.004
Target
Moderate rainfall
Gradient = 0.012589, at epoch 10000
Mu = 5, at epoch 10000
Num Parameters = 17.158, at epoch 10000
Sum Squared Param = 114.1381, at epoch 10000
10000 Epochs
Best Training Performance is 0.015059 at epoch 10000
Mean Squared Error (mse)
10000 Epochs
Training: R=0.99976
Output ~= 1*Target + 0.006
Target
Heavy rainfall
Gradient = 0.00569, at epoch 50000
Validation Checks = 0, at epoch 50000
50000 Epochs
Best Training Performance is 0.090989 at epoch 50000
Mean Squared Error (mse)
50000 Epochs
Training: R=0.9861
Output ~= 0.97*Target + 0.045
Target

(**a**)



(**b**)

Figure S1. Training results of the loads in the different rainfall patterns. (**a**) NPS-TN; (**b**) NPS-TP.