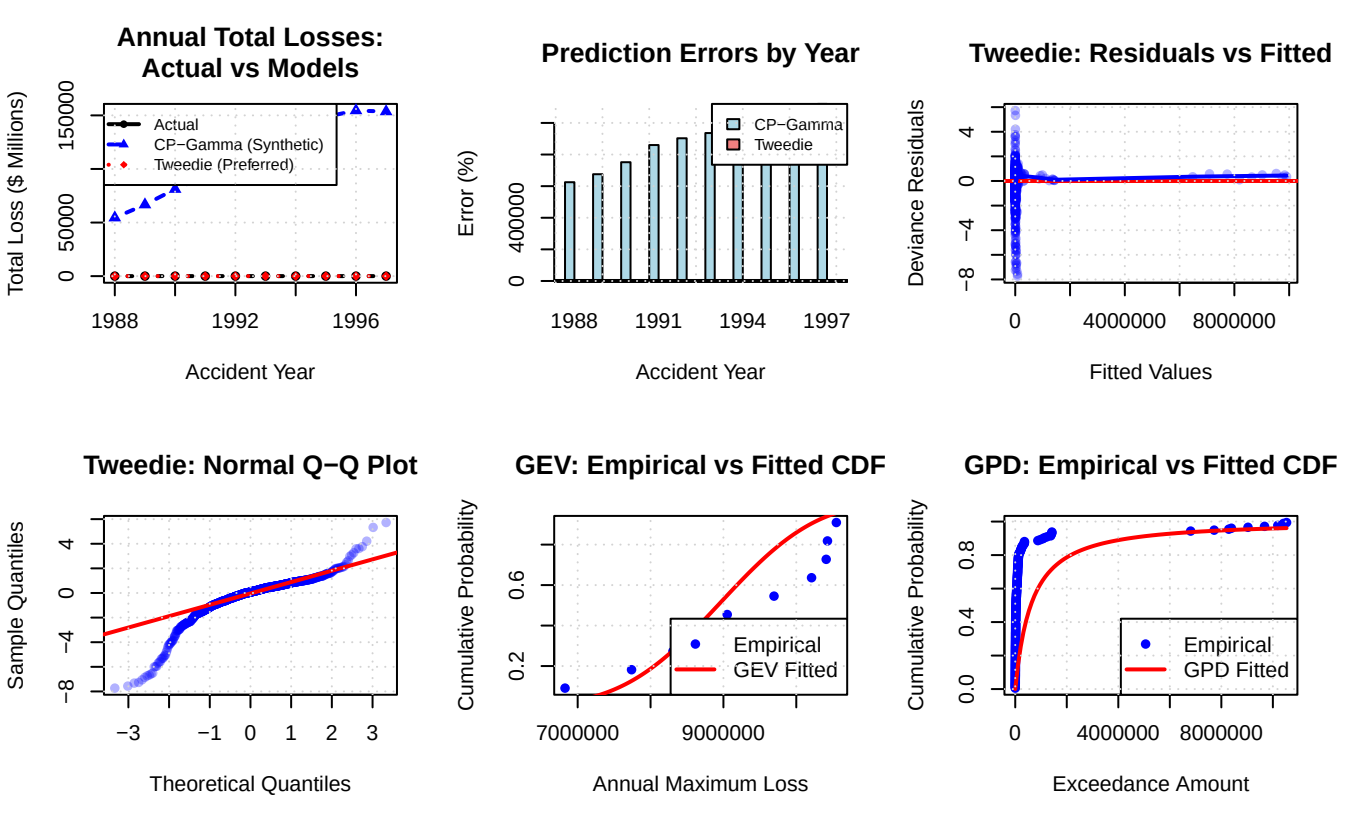
Annual Total Losses:
Actual vs Models
Total Loss ($ Millions)
0
50000
150000
Actual
CP−Gamma (Synthetic)
Tweedie (Preferred)
1988
1992
1996
Accident Year
Prediction Errors by Year
Error (%)
0
400000
CP−Gamma
Tweedie
1988
1991
1994
1997
Accident Year
Tweedie: Residuals vs Fitted
Deviance Residuals
−8
−4
0
4
0
4000000
8000000
Fitted Values
Tweedie: Normal Q−Q Plot
Sample Quantiles
−8
−4
0
4
−3
−1
0
1
2
3
Theoretical Quantiles
GEV: Empirical vs Fitted CDF
Cumulative Probability
0.2
0.6
Empirical
GEV Fitted
7000000
9000000
Annual Maximum Loss
GPD: Empirical vs Fitted CDF
Cumulative Probability
0.0
0.4
0.8
Empirical
GPD Fitted
0
4000000
8000000
Exceedance Amount