| Model A     |           | Fitted with iid noise    |                | Fitted with GP(t)    |                | Fitted with GP(O, V)    |                   | Fitted with ARMAX(2, 2)    |                |
|-------------|-----------|--------------------------|----------------|----------------------|----------------|-------------------------|-------------------|----------------------------|----------------|
|             |           | ODE model<br>& iid noise | ODE model only | ODE model<br>& GP(t) | ODE model only | ODE model<br>& GP(O, V) | ODE model<br>only | ODE model<br>& ARMAX(2, 2) | ODE model only |
| Calibration | sinewave  | 54.59                    | 39.52          | 36.43                | 48.82          | 41.66                   | 40.70             | 63.82                      | 49.93          |
| Prediction  | staircase | 80.23                    | 70.66          | 113.66               | 106.23         | 82.35                   | 80.61             | 116.74                     | 107.95         |
|             | ар        | 70.00                    | 58.97          | 94.13                | 80.78          | 68.18                   | 61.76             | 96.77                      | 86.16          |