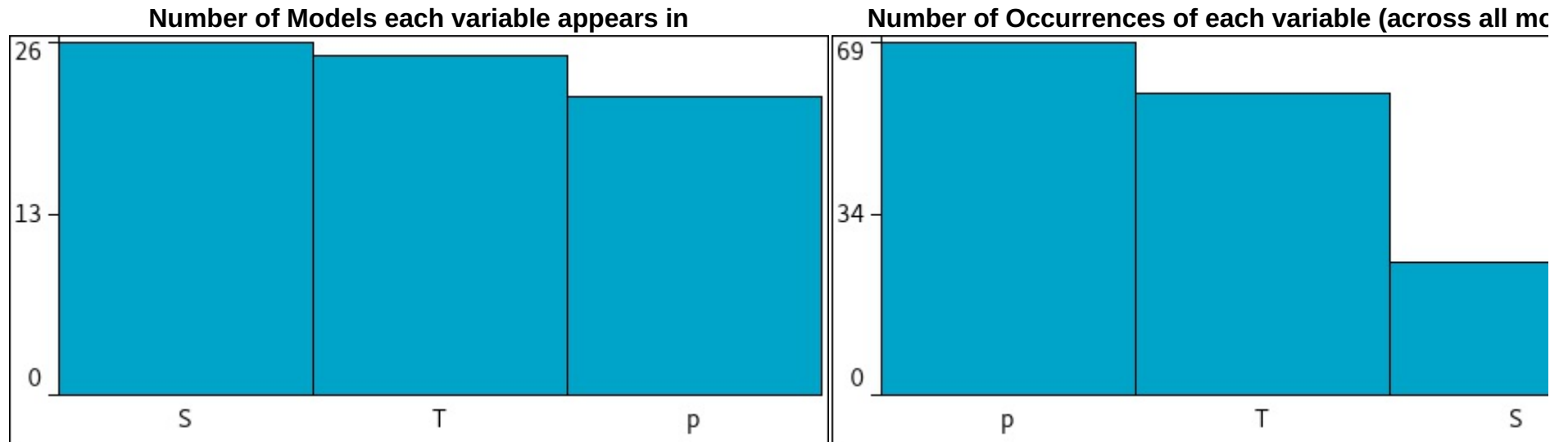# Eureqa Models

Variable Occurrences

**Number of Models each variable appears in**

Number of Occurrences of each variable (across all mo

Model List

Model	Observed vs. Predicted	Output vs. Row	Error/Complexity Pareto
Model: $S = a + b*p + c*T^2*\text{sqrt}(p) + d*e^p*T^3 - f*T - g*\text{sqrt}(p) - h*p*T^2*\text{sqrt}(p)$ **Text:** `S = 2659.73893234743 + 4.96616159155947*p + 0.000746338251128017*T^2*sqrt(p) + 1.68880310786392e-6*0.473097216332019^p*T^3 -`			
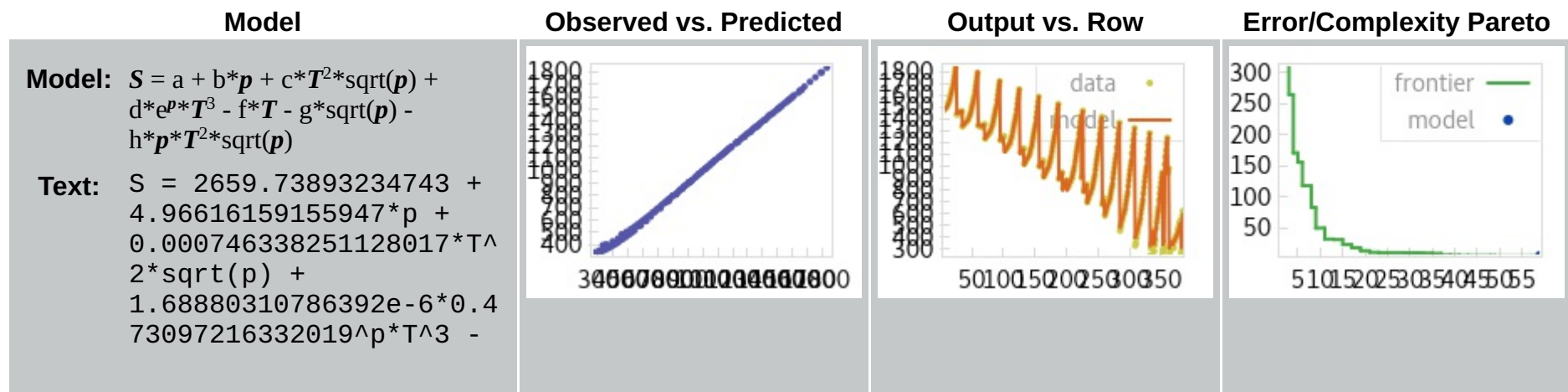
```
6.10315170084603*T -
27.1117396759924*sqrt(p
) -
2.28064313757784e-6*p*T
^2*sqrt(p)
```

Model: $S = a + b*p + c*T^2*\text{sqrt}(p) + d*e^p*T^2 - f*T - g*\text{sqrt}(p) - h*p*T^2*\text{sqrt}(p)$

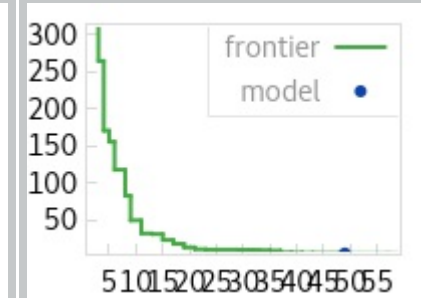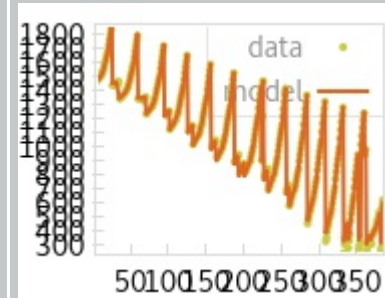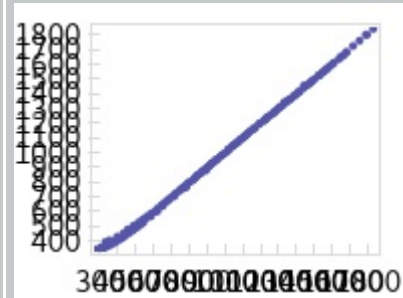**Text:**
```
S = 2657.69740408664 +
4.97040906733713*p +
0.000746634979949957*T^
2*sqrt(p) +
0.00043400027937544*0.5
50487628125628^p*T^2 -
6.09960639291374*T -
26.9234961988175*sqrt(p
) -
2.30087725134415e-6*p*T
^2*sqrt(p)
```
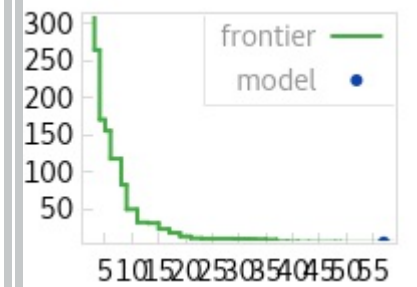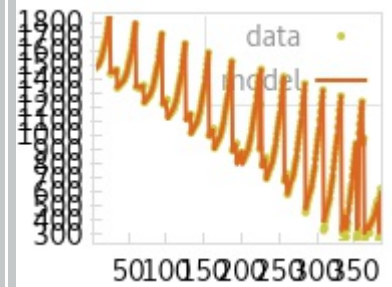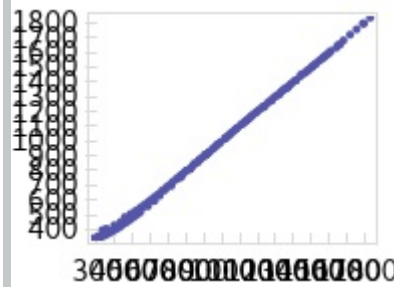

Model: $S = a + b*p + c*T*d^p + e*T^2*\text{sqrt}(p) - f*T - g*\text{sqrt}(p) - h*p*T^2$

Text:
```
S = 2683.03931230464 +
4.84821660655179*p +
0.204661323081994*T*0.7
```

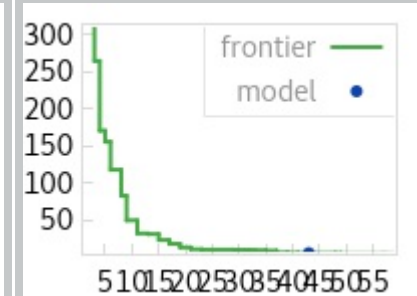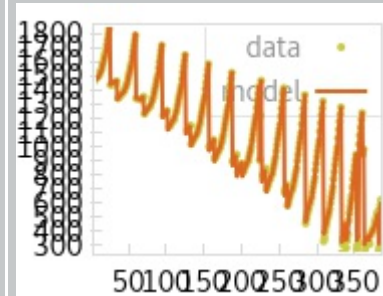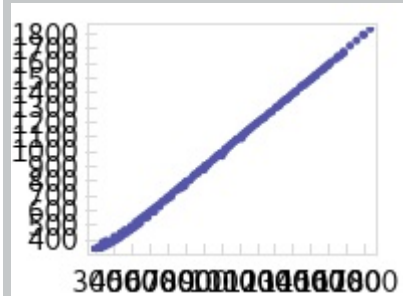|			
12603191191773^p + 0.000995108583623206*T^2*sqrt(p) - 6.34734151373053*T - 24.2156011560225*sqrt(p) - 4.37990026682646e-5*p*T^2			
Model: $S = a + b*p + c/p + d*T^2*\mathrm{sqrt}(p) - e*T - f*\mathrm{sqrt}(p) - g*p*T^2*\mathrm{sqrt}(p)$ **Text:** S = 2671.27901238204 + 5.45532989749559*p + 4.19278169649046/p + 0.000762229163815354*T^2*sqrt(p) - 6.11842953169911*T - 32.3529490315585*sqrt(p) - 2.46785115746079e-6*p*T^2*sqrt(p)			
Model: $S = a + b*p + c*T^2*\mathrm{sqrt}(p) - d*T - e*\mathrm{sqrt}(p) - f*p*T^2*\mathrm{sqrt}(p)$ **Text:** S = 2672.95298674554 + 5.43879571181351*p + 0.000761668425731709*T^			
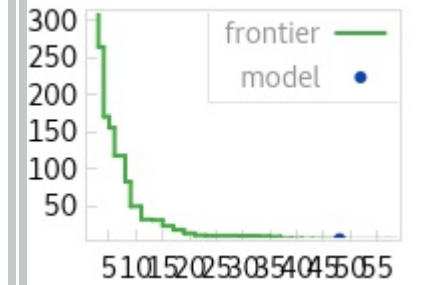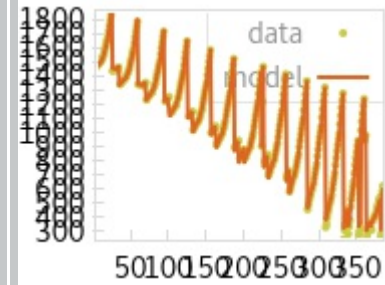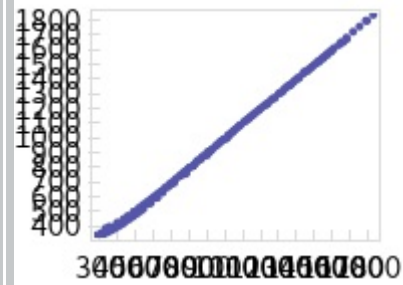
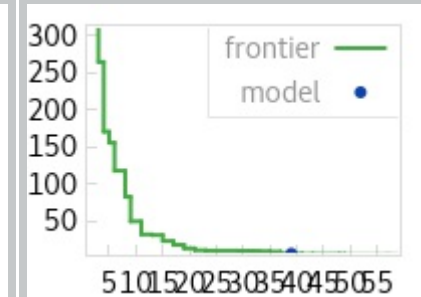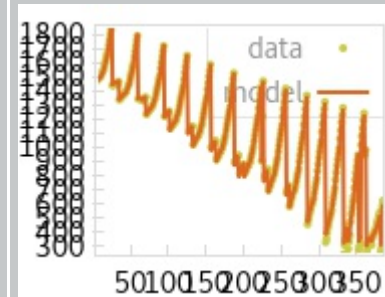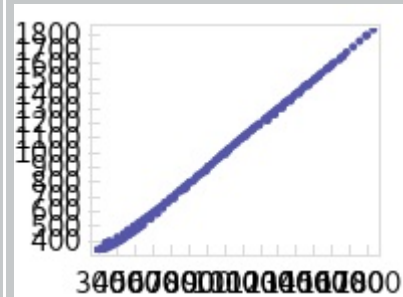|			
2*sqrt(p) - 6.11983613019475*T - 32.4388290646139*sqrt(p) - 2.44588405998329e-6*p*T^2*sqrt(p)			
Model: $S = a + b*p + c*T^2*\text{sqrt}(p) - d*T - e*\text{sqrt}(p) - f*T*p*\text{sqrt}(p)$ **Text:** S = 2661.53428434369 + 7.65449145146123*p + 0.000708262351342732*T^2*sqrt(p) - 6.029511169035687*T - 38.3845139230981*sqrt(p) - 0.00120901966228994*T*p*sqrt(p)			
Model: $S = a + b*p + c*T^2*\text{sqrt}(p) - d*T - e*\text{sqrt}(p) - f*T^2*p^2$ **Text:** S = 2661.27108696652 + 5.39031119943369*p + 0.000693982906285818*T^2*sqrt(p) - 6.04045803716947*T -			
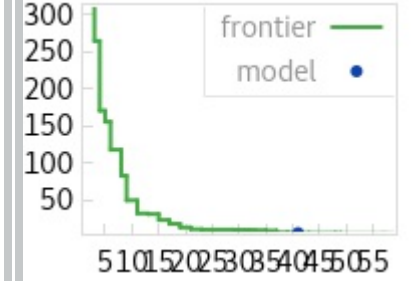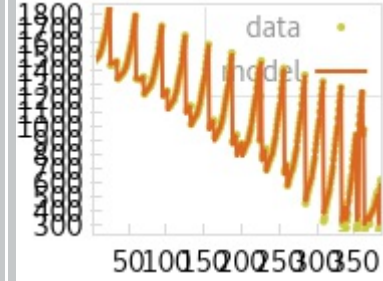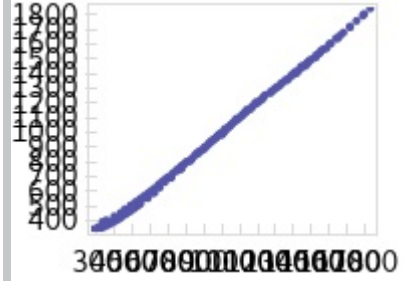
32.049154814761*sqrt(p) - 1.97286643383081e-7*T^2*p^2			
Model: $S = a + b*p + c*T^2*\text{sqrt}(p) - d*T - e*\text{sqrt}(p) - f*p*T^2$ **Text:** S = 2722.39729976986 + 5.7223290095872*p + 0.00102863332170687*T^2*sqrt(p) - 6.39761377327874*T - 35.4622219296457*sqrt(p) - 4.66126860414232e-5*p*T^2			
Model: $S = a + p + b*p*T^2 + c*T*p^3 - d*T - e*T^2*p^2$ **Text:** S = 2537.66434234279 + p + 0.00011907350371821*p*T^2 + 1.329354689286e-6*T*p^3			
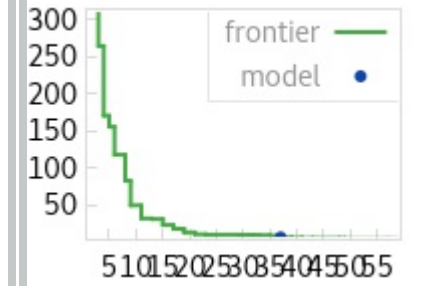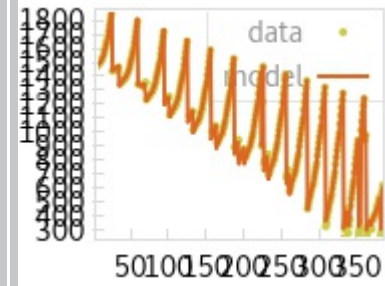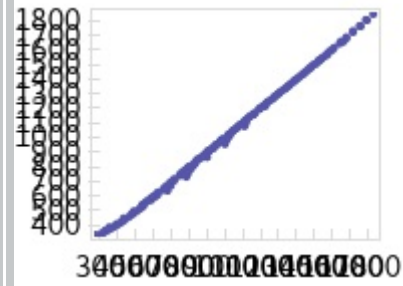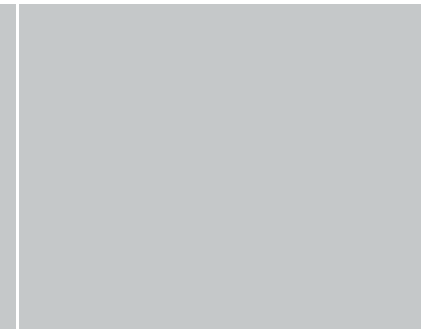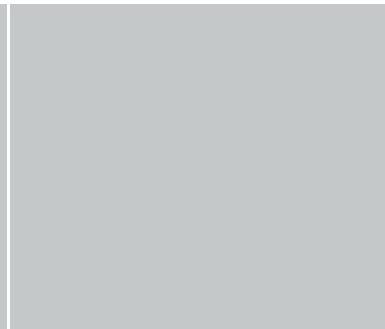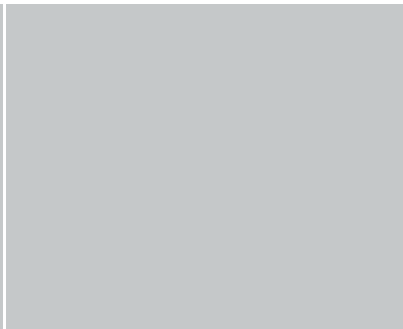
```
      - 5.49588655312233*T -
1.02559289997403e-6*T^2
*p^2
```
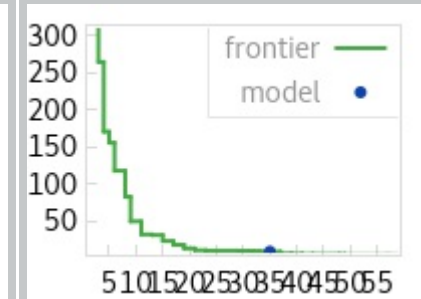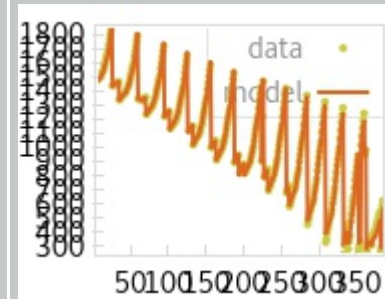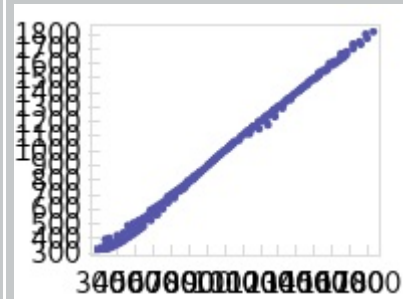

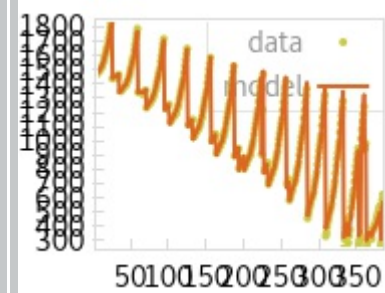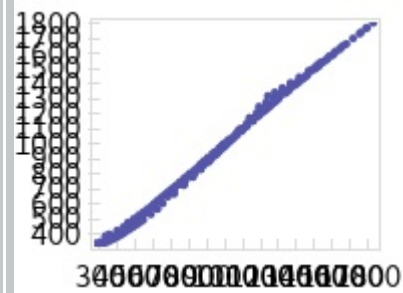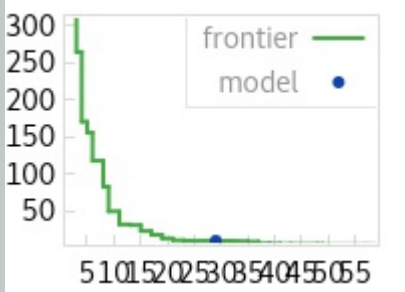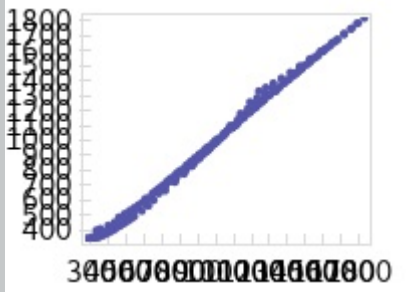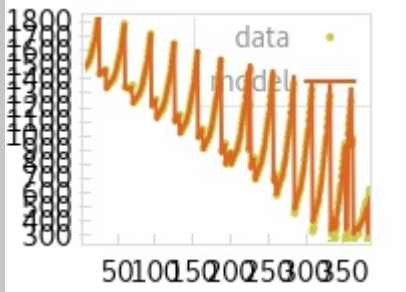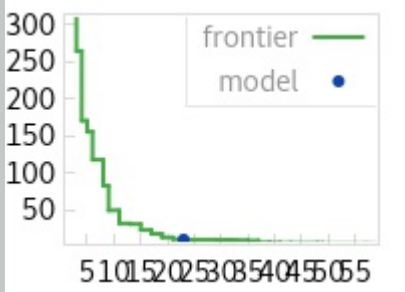**Model:** $S = a + b*p*T^2 + c*T*p^3 - d*T - e*T^2*p^2$
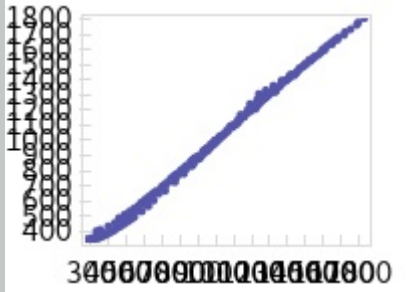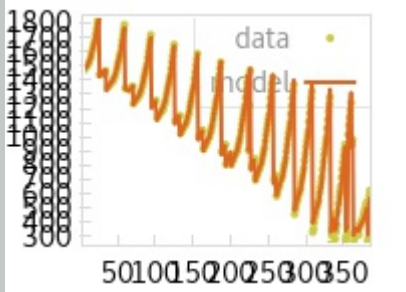
Text:
```
S = 2546.25477043704 +
0.00013639752929066*p*T
^2 +
2.11765538744862e-6*T*p
^3 - 5.53079277707542*T
-
1.31794841715495e-6*T^2
*p^2
```
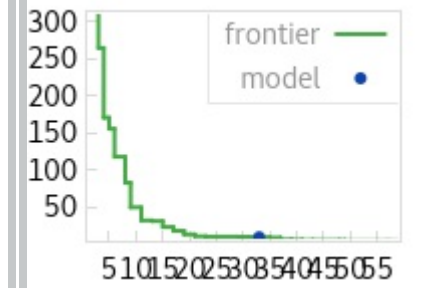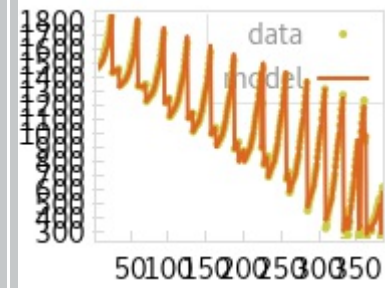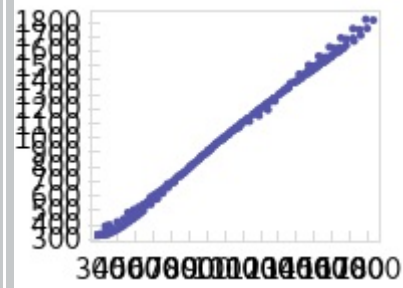

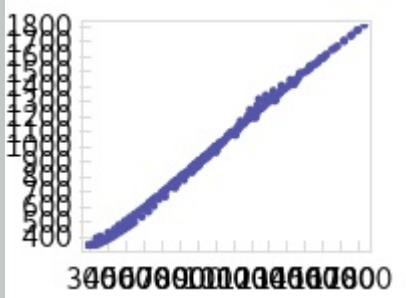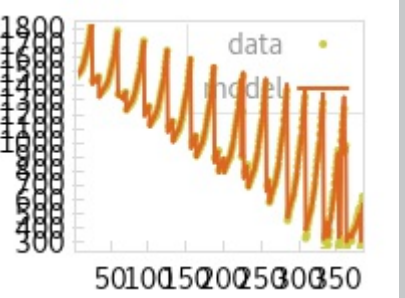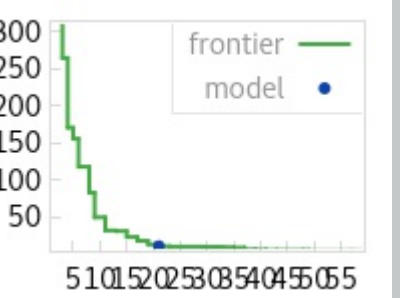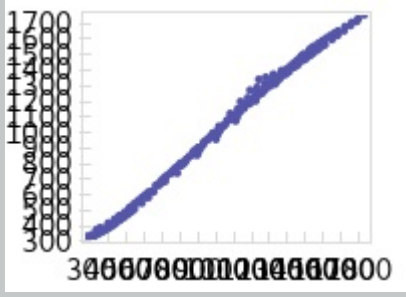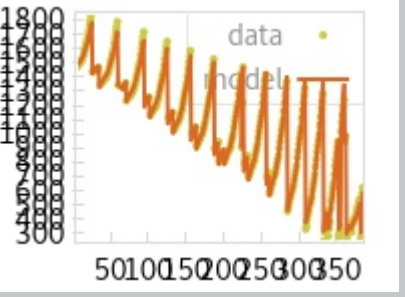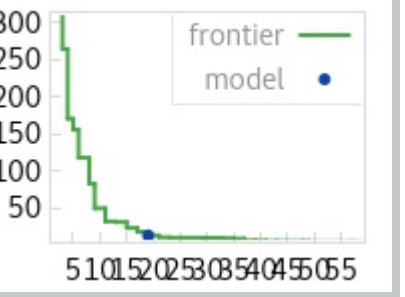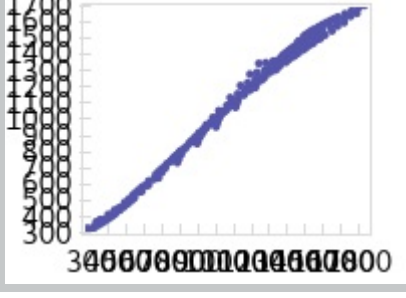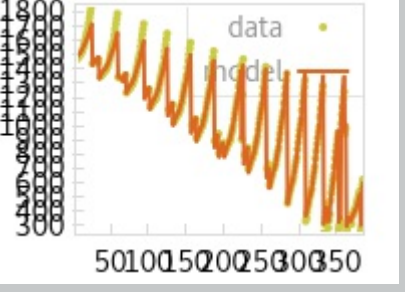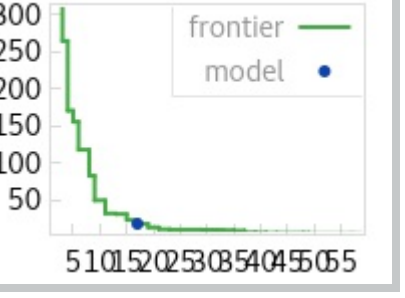**Model:** $S = a + b*p + c/p^p + d*T^2*sqrt(p) - e*T$

Text:
```
S = 2592.27628452208 +
1.96036132508517*p +
18.5167213468171/p^p +
0.000572115823341121*T^
2*sqrt(p) -
5.90299068282208*T
```

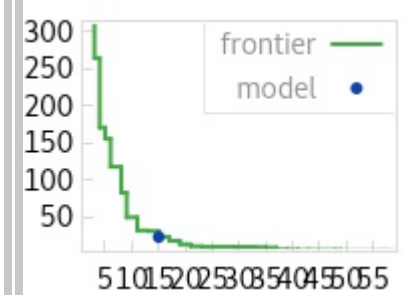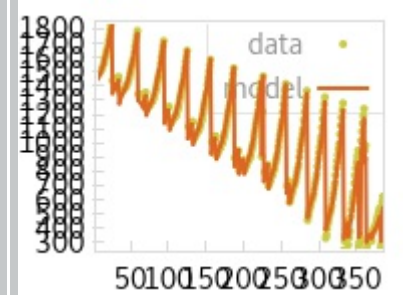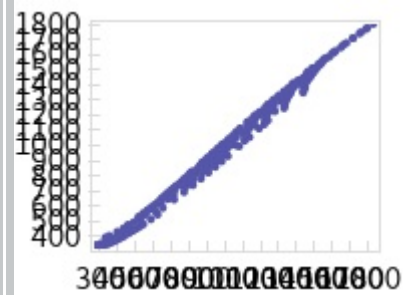| Model	Observed vs. Predicted	Output vs. Row	Error/Complexity Pareto
Model: $S = a + b*p + c*T^2*\text{sqrt}(d + p) - e*T - f*p^2$ **Text:** `S = 2596.49424000937 + 2.57594227351507*p + 0.000574379415549082*T^2*sqrt(1.67530038190467 + p) - 5.98963232073753*T - 0.00554369251478675*p^2`			
Model: $S = a + b*p + c*T^2*\text{sqrt}(d + p) - e*T$ **Text:** `S = 2599.357641666 + 2.14623301407845*p + 0.000580224115745047*T^2*sqrt(1.64438889545776 + p) - 5.99470283931719*T`			
Model: $S = a + b*p + c*T^2*\text{sqrt}(p) - d*T$ **Text:** `S = 2579.42142383028 + 2.11702263559651*p + 0.000557101434737463*T^2*sqrt(p) - 5.8506609930324*T`			

Model: $S = a + p + b*T^2*\text{sqrt}(p) - c*T$ **Text:** `S = 2629.91697978275 + p + 0.000657378691328435*T^2*sqrt(p) - 6.06934053098911*T`			
Model: $S = a + b*T^2*\text{sqrt}(p) - c*T$ **Text:** `S = 2663.07047264306 + 0.000729676095956284*T^2*sqrt(p) - 6.21200018030684*T`			
Model: $S = a + b*T*\text{sqrt}(p) - c*T$			

Text:	`S = 2430.72720953026 + 0.249369252126349*T*sqrt(p) - 5.50923493860673*T`			
Model: $S = a + b*T*p - p - c*T$ **Text:** `S = 2452.11503934689 + 0.0271296664929538*T*p - p - 5.08110990299434*T`				
Model: $S = a + b*T*p - c*T$ **Text:** `S = 2442.3653673315 + 0.023678319015136*T*p - 5.04823606949701*T`				
Model: $S = a + b*p - c*T$				
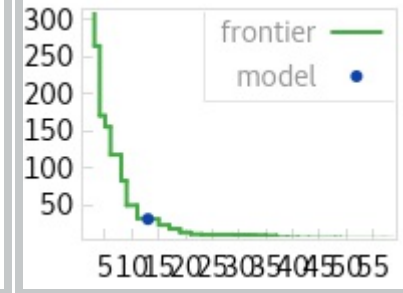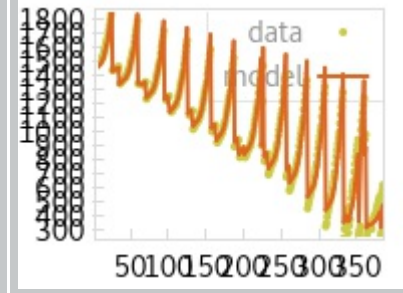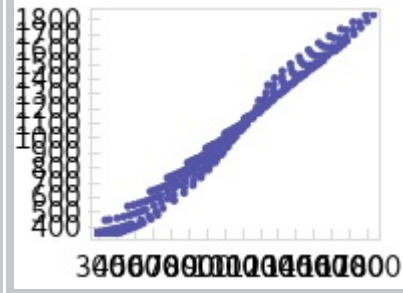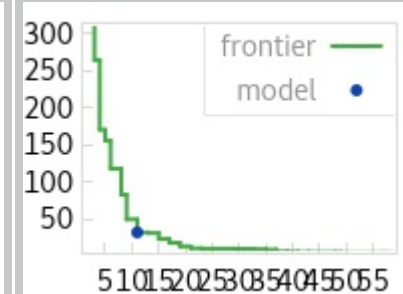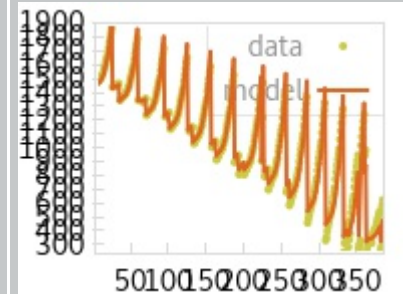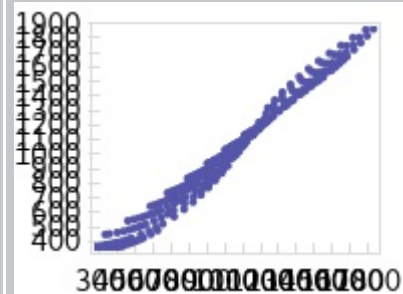
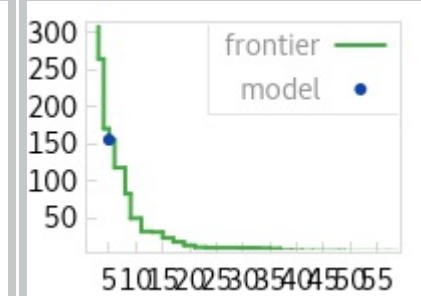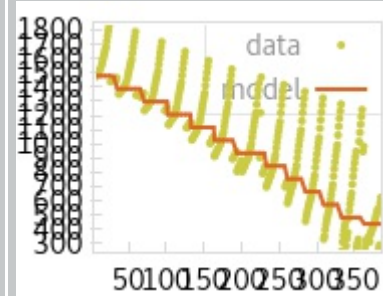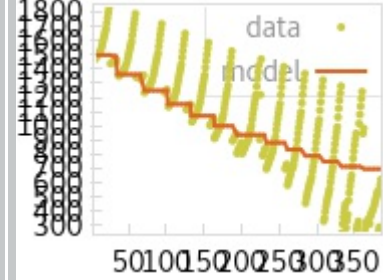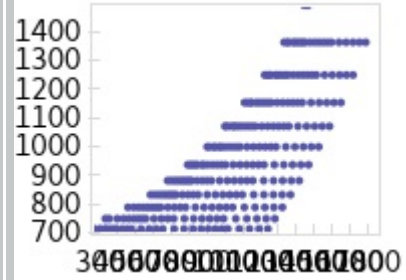|			
Text: $S = 2312.74148518768 + 7.12930907021853*p - 4.608668092772*T$			
Model: $S = a*p + b/T$ **Text:** $S = 5.66631249458335*p + 288145.397857984/T$			
Model: $S = a/(T - p)$ **Text:** $S = 288409.108473599/(T - p)$			
Model: $S = a - b*T$			
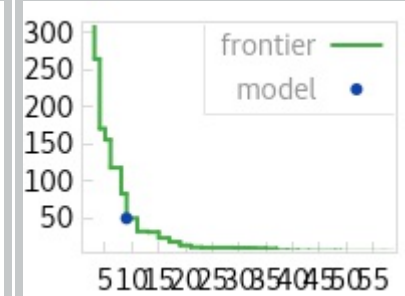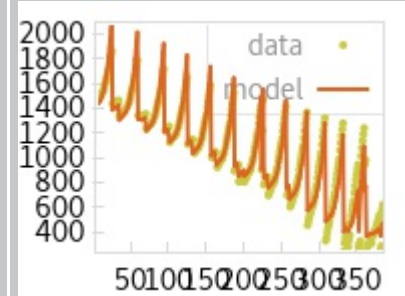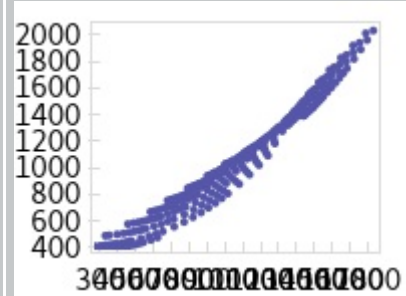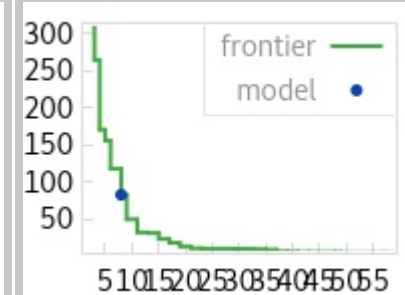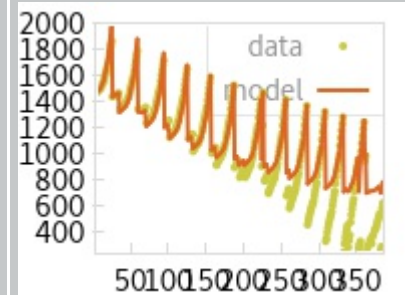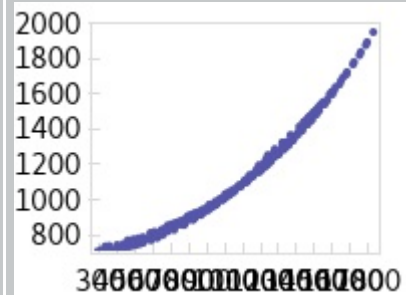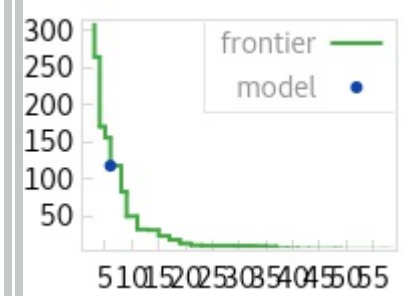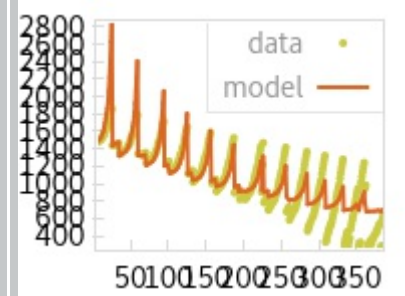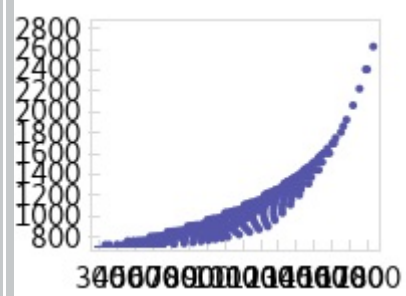
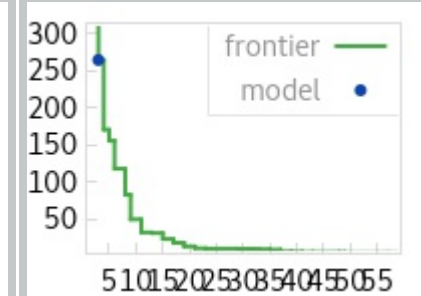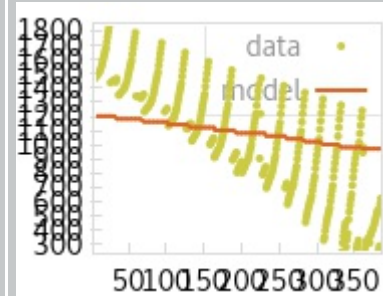|			
Text: `S = 2382.92605330403 - 4.52664778673343*T`			
Model: $S = a/T$ **Text:** `S = 299593.77144806/T`			
Model: $S = a - T$ **Text:** `S = 1402.05100110079 - T`			
Model: $S = a$			
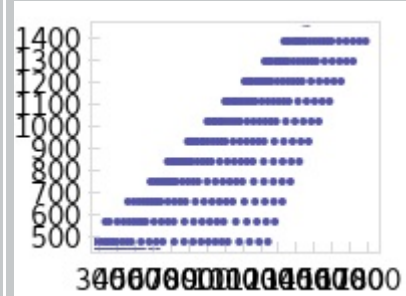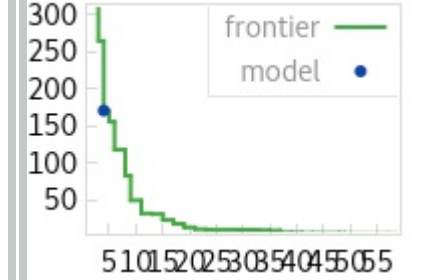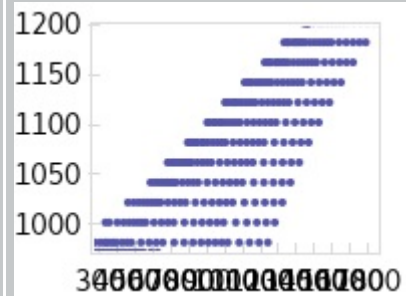
Text: `S = 1088.6686147311`

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