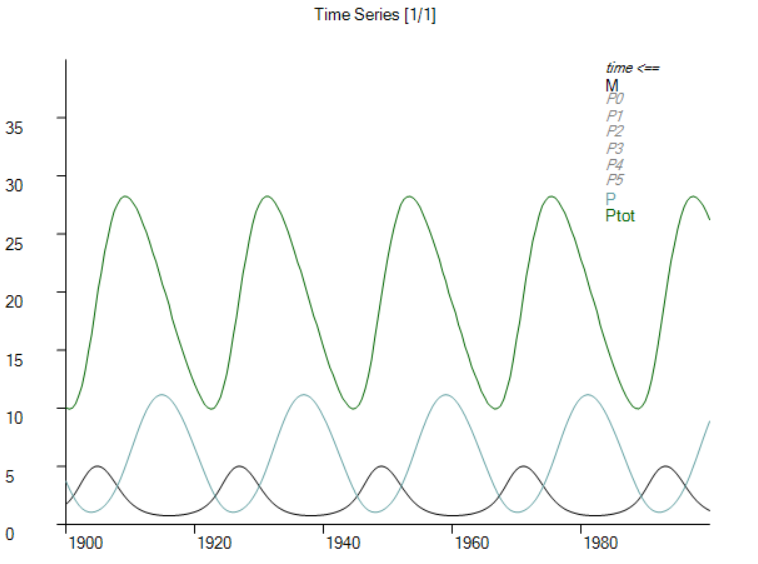
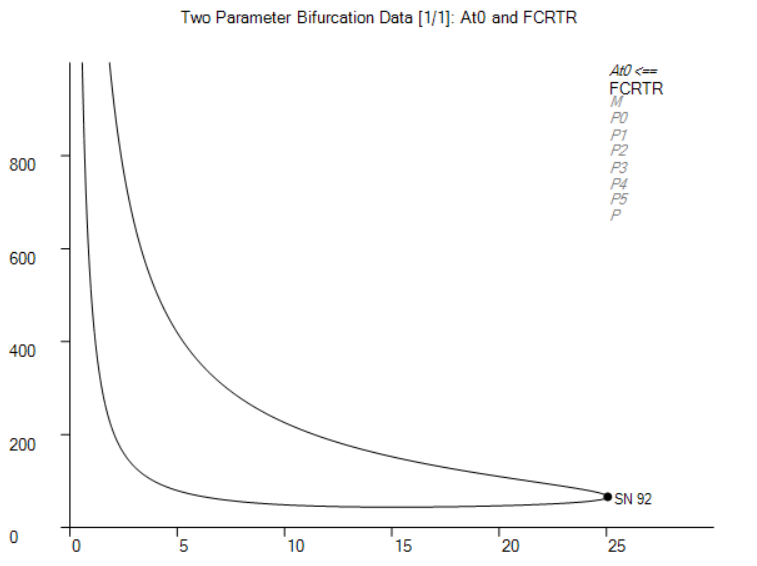
Random 4 from SNF NNF PNF Top 1000 Optimized Parameter Set

SNF

# 71

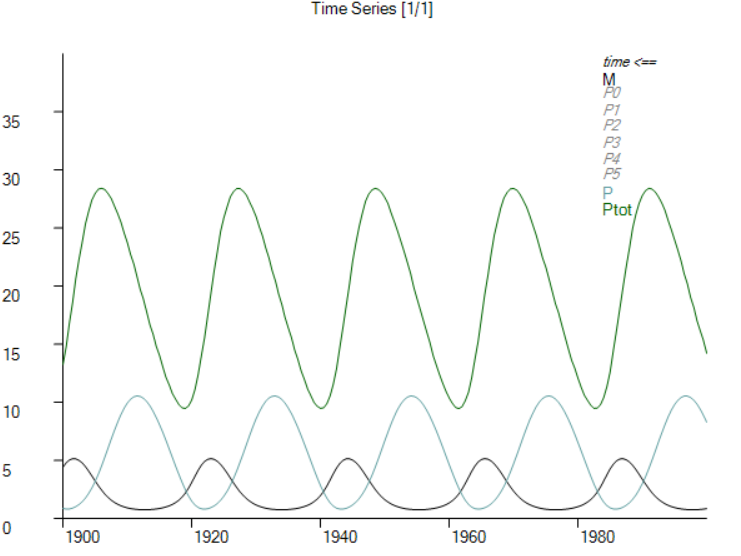


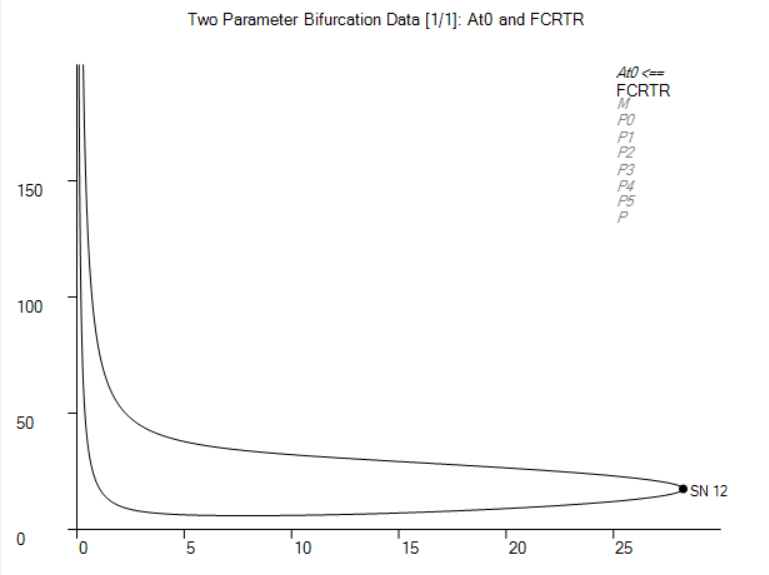




#83

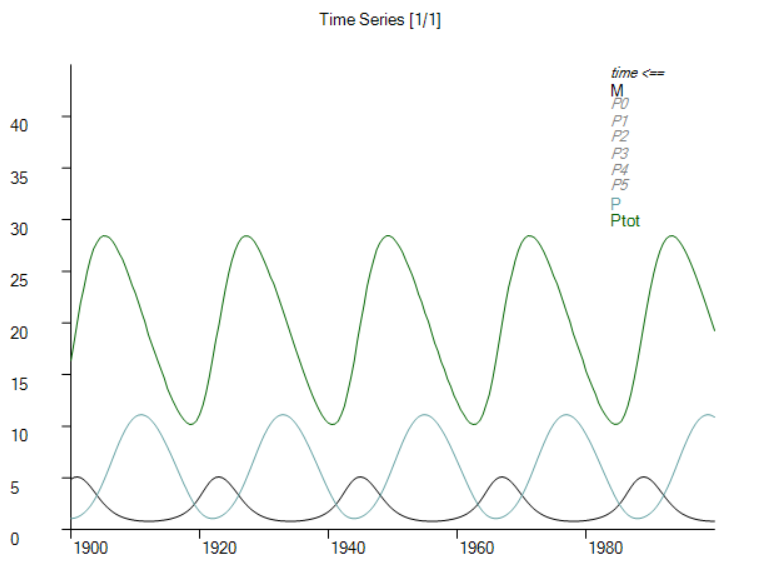


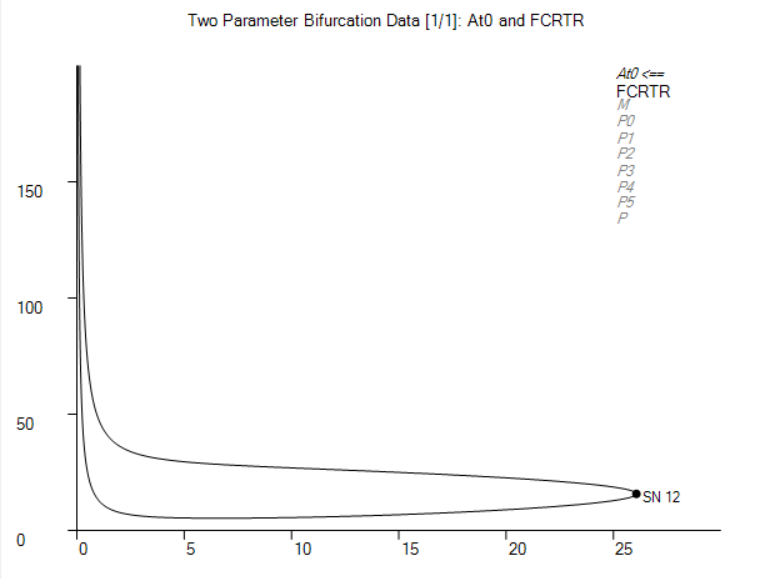




# 85

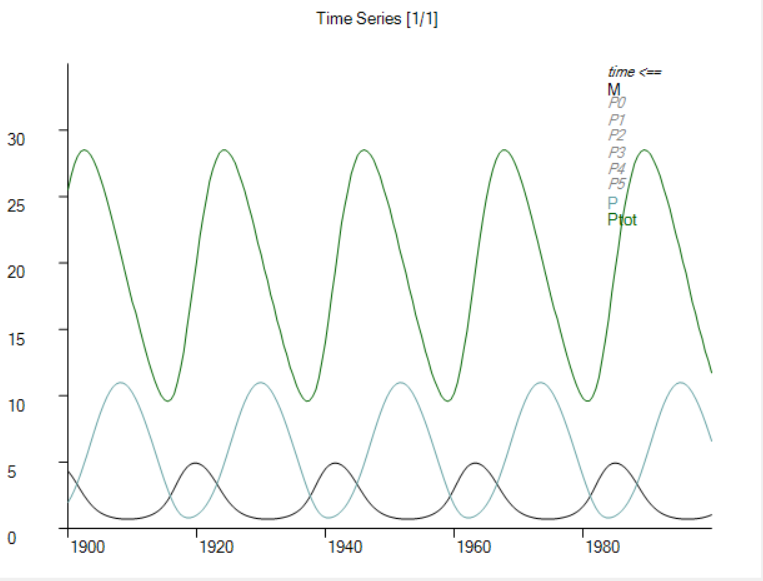


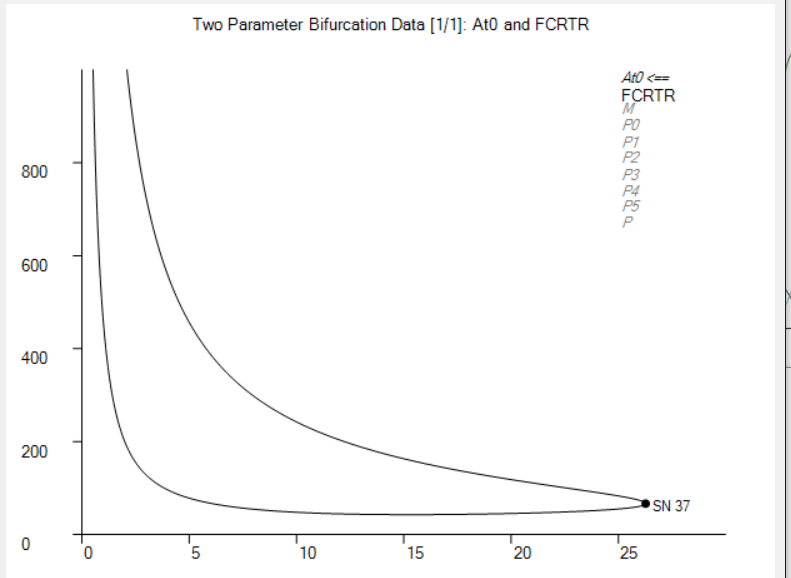




# 98



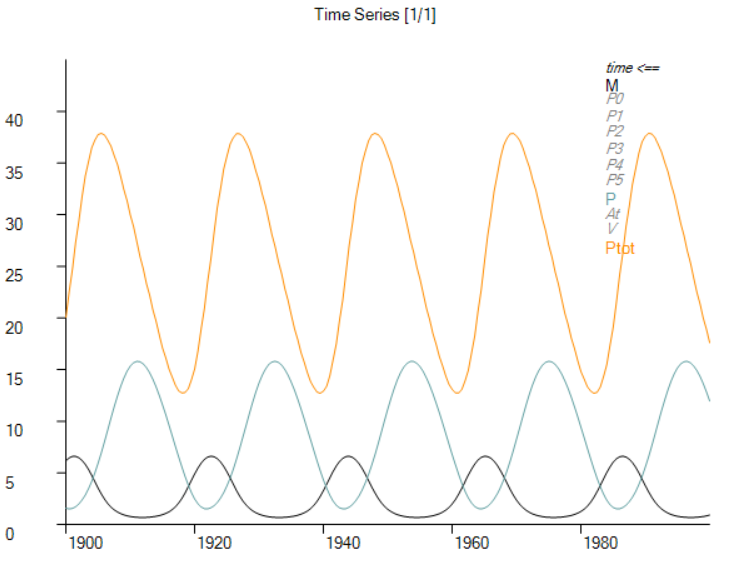


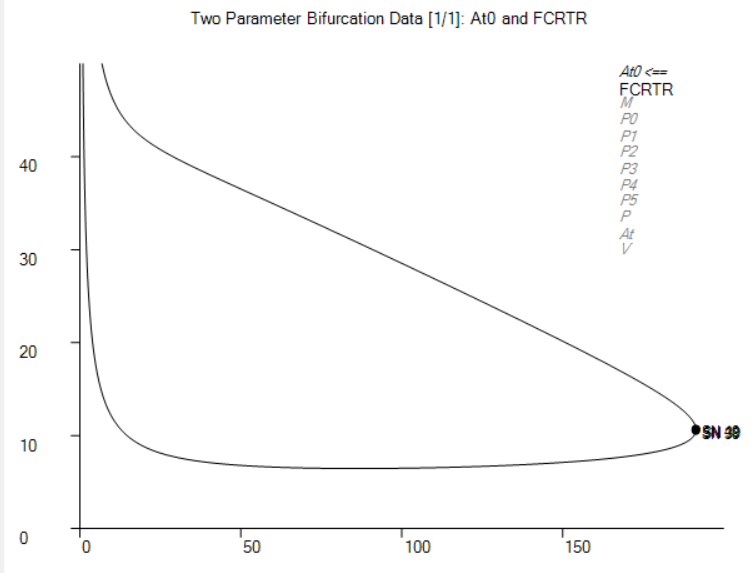


NNF

# 87

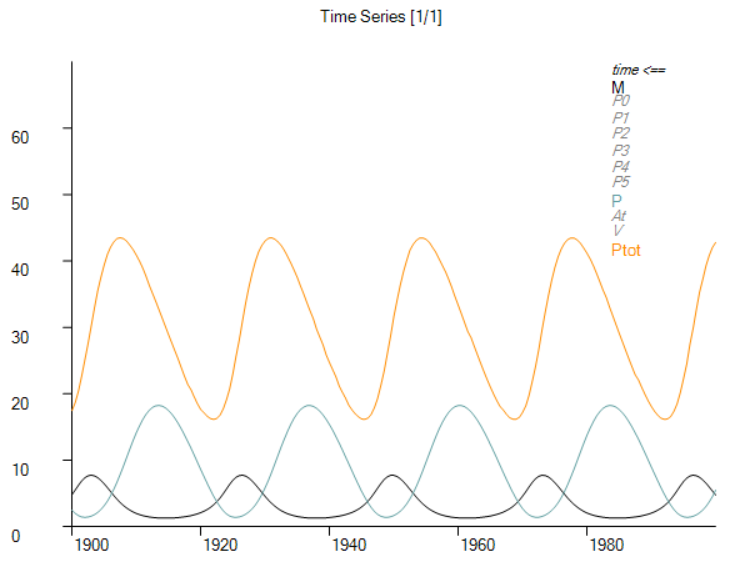


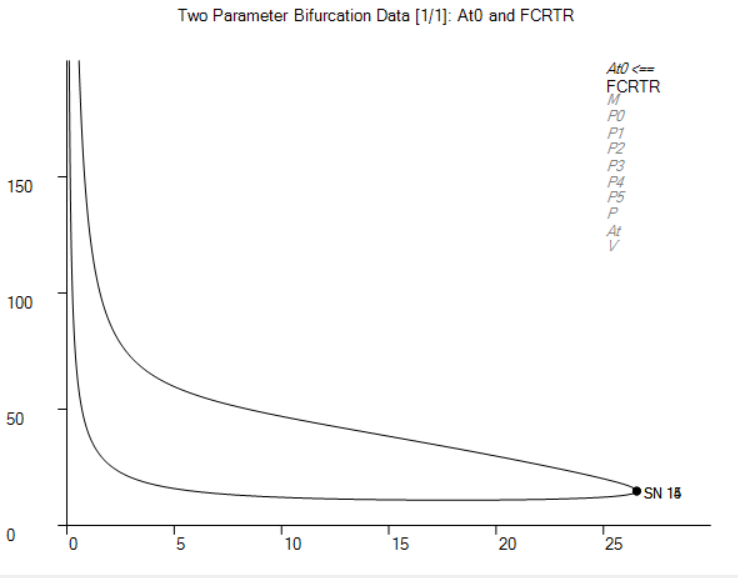




# 282

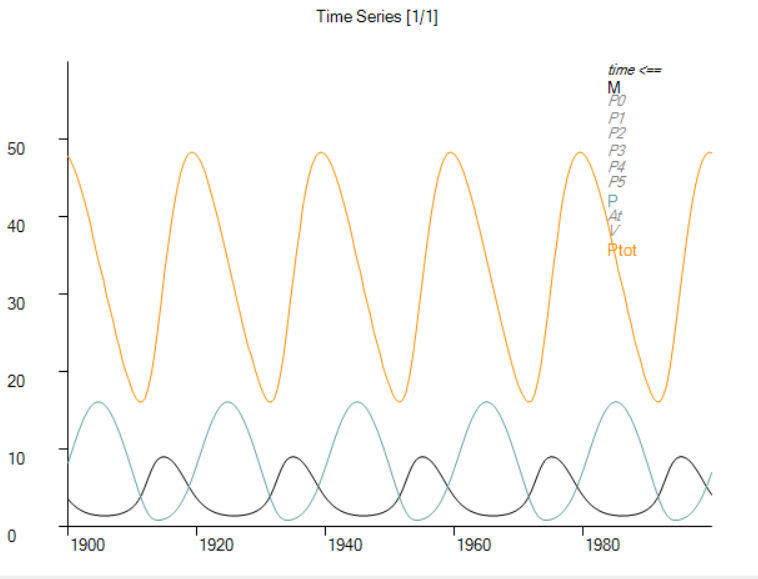


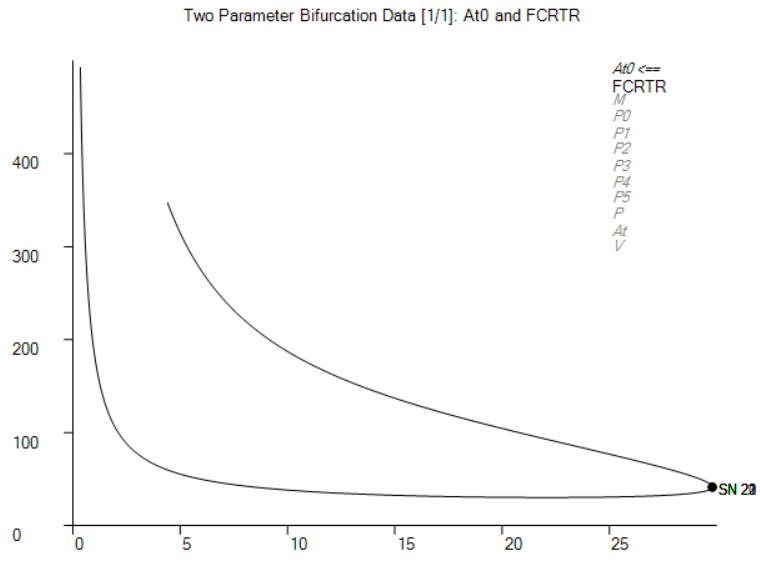




# 572

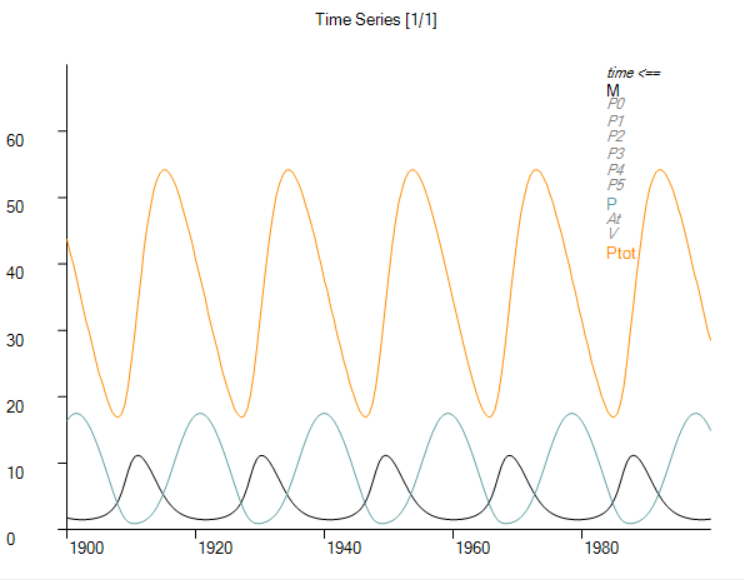


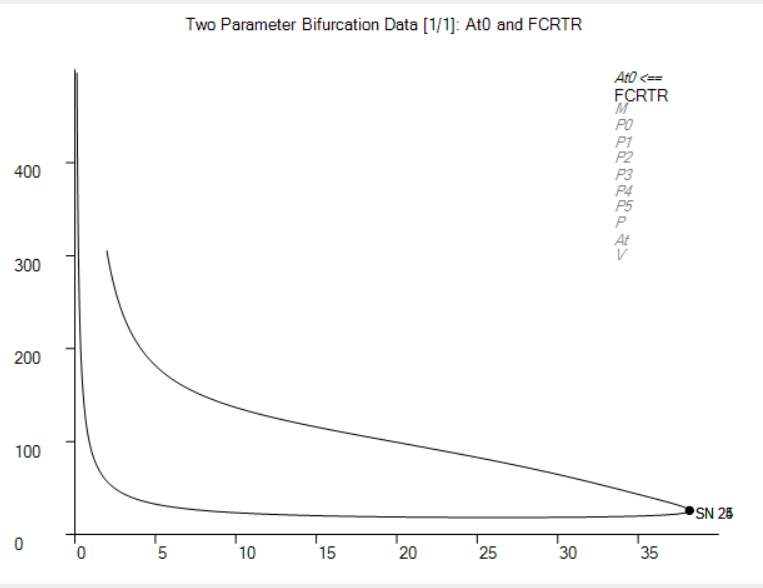




# 781



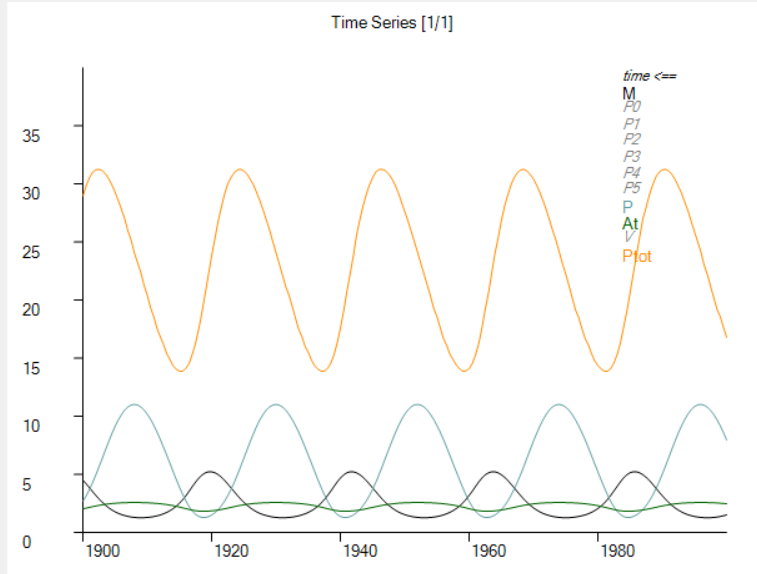


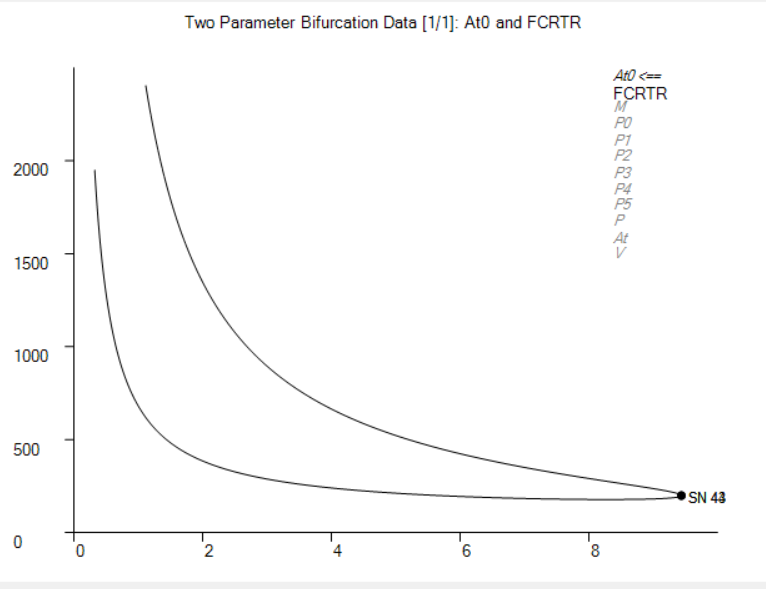


\*Add plots for cases with large delta

# 1

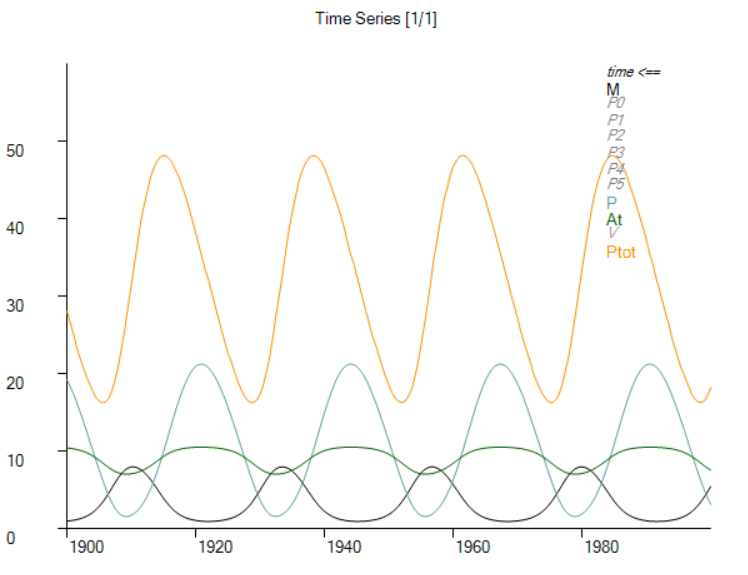


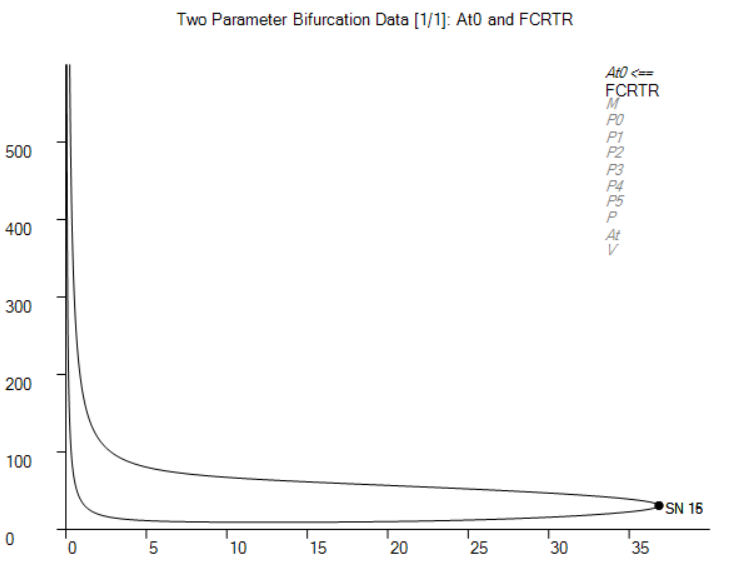




# 564

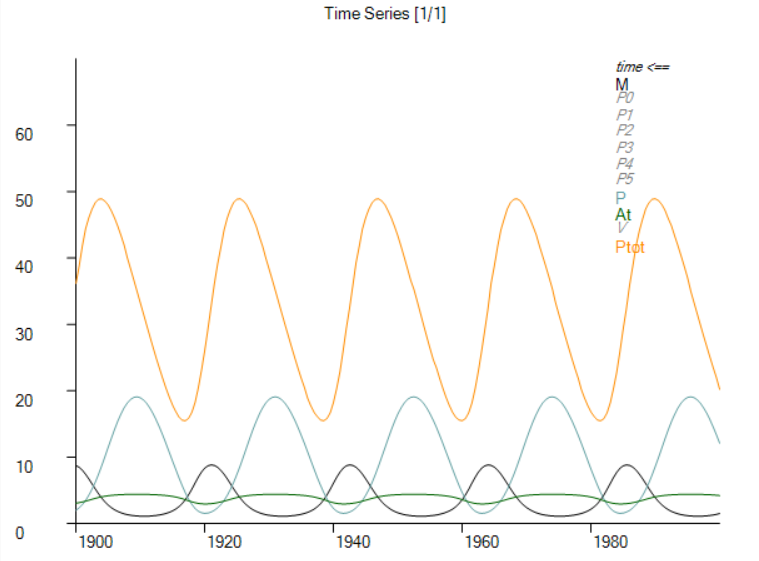


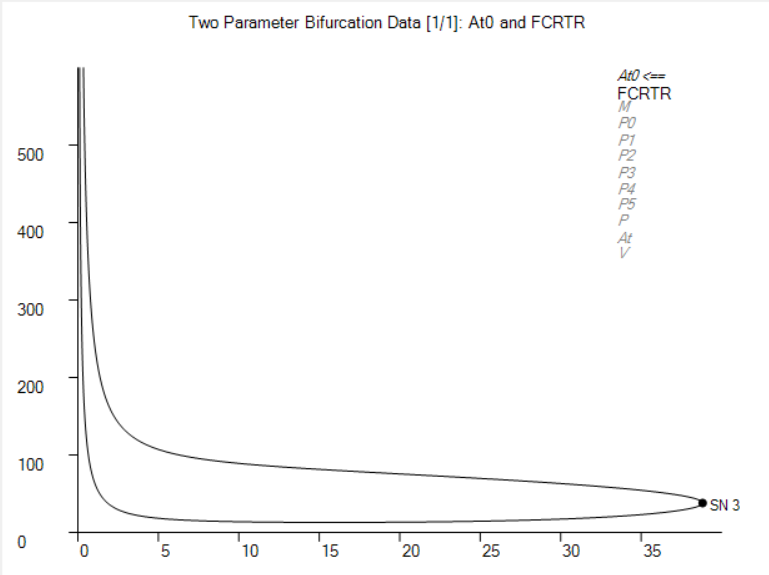




# 594

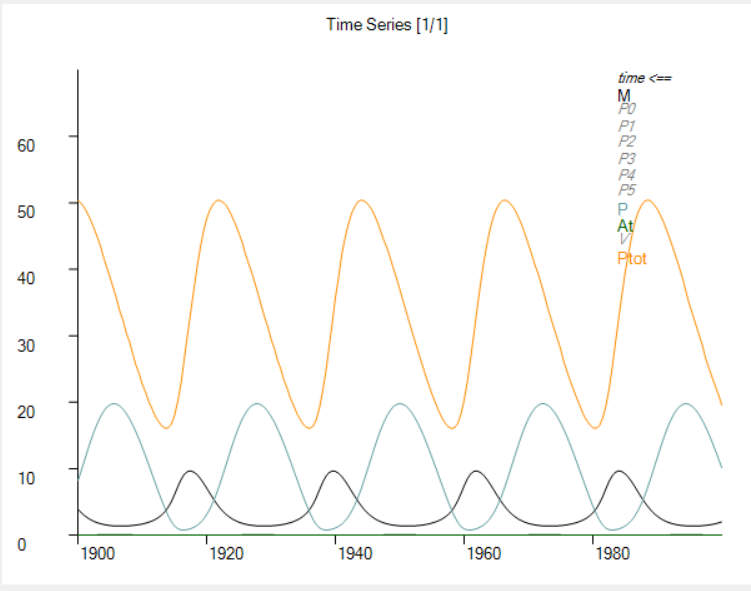


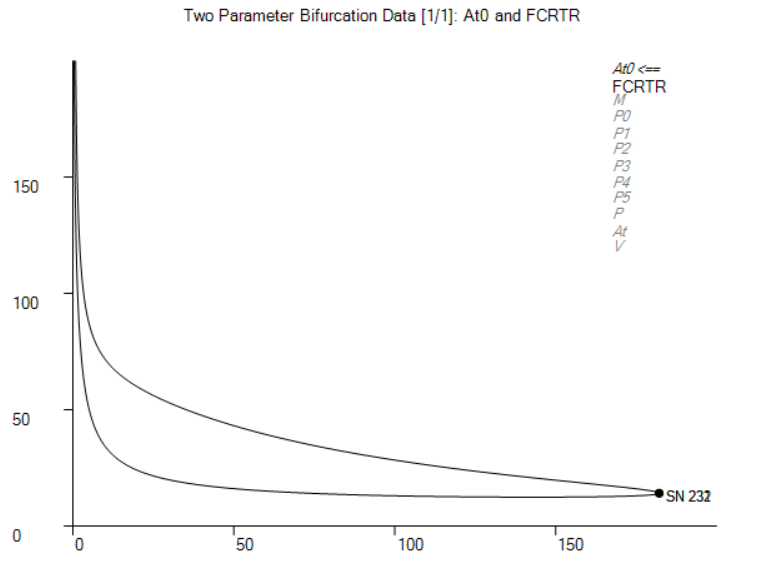




# 639

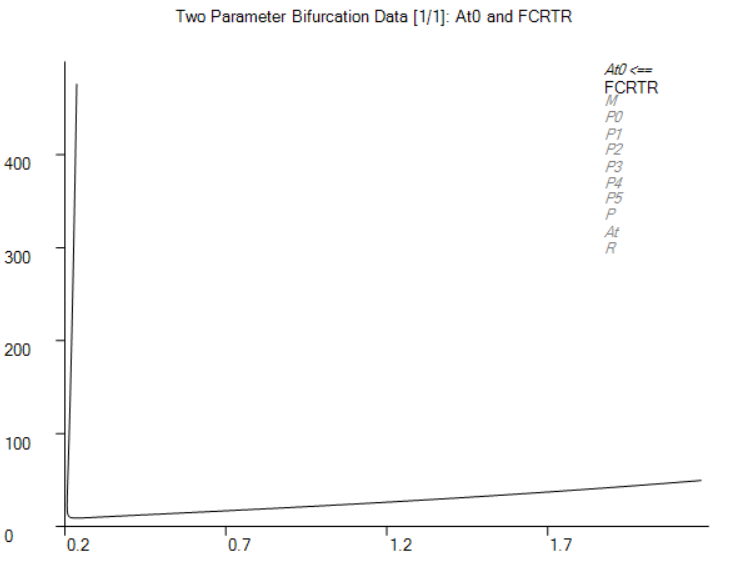


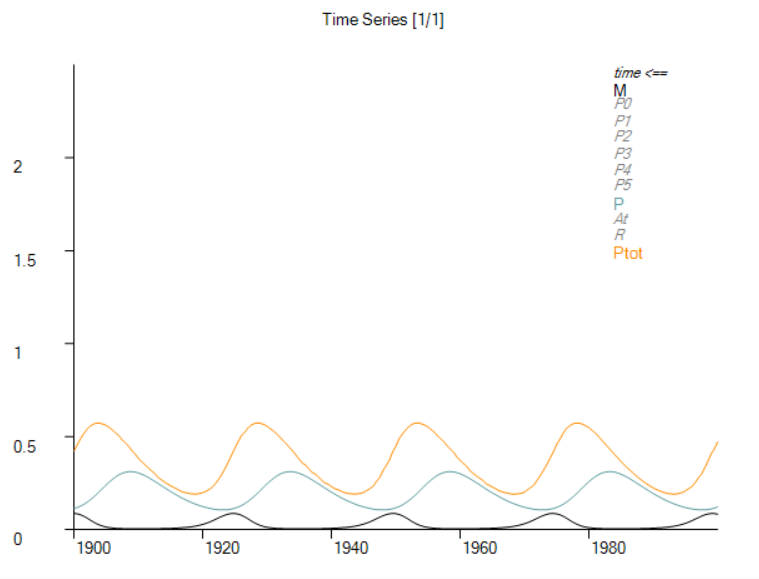




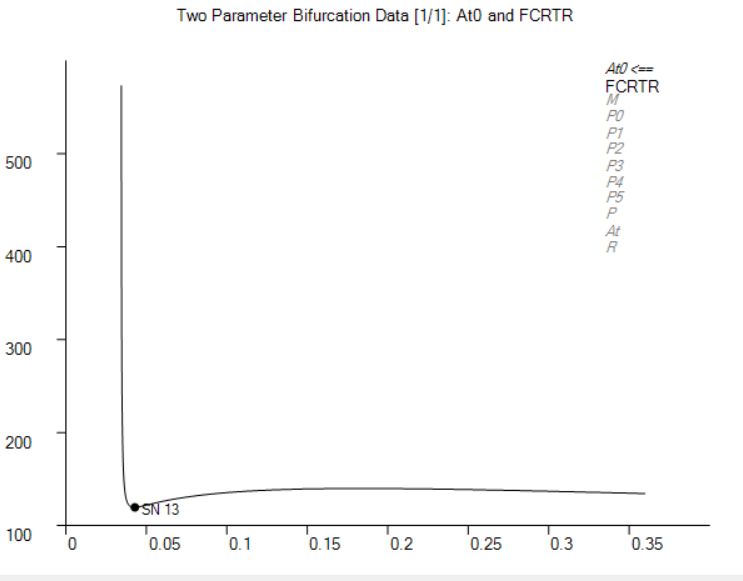
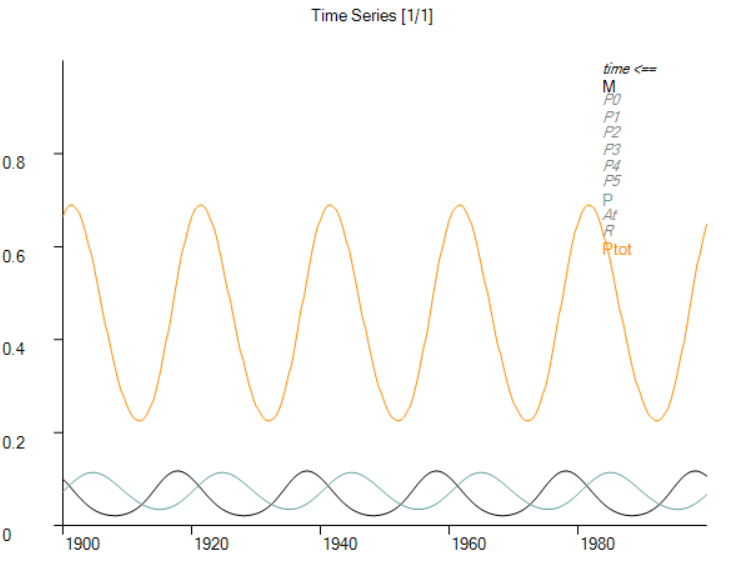
PNF

# 298

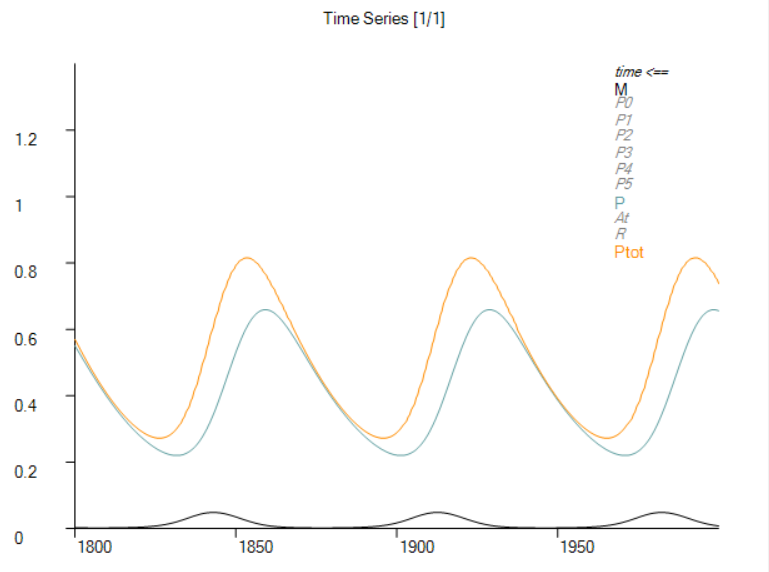


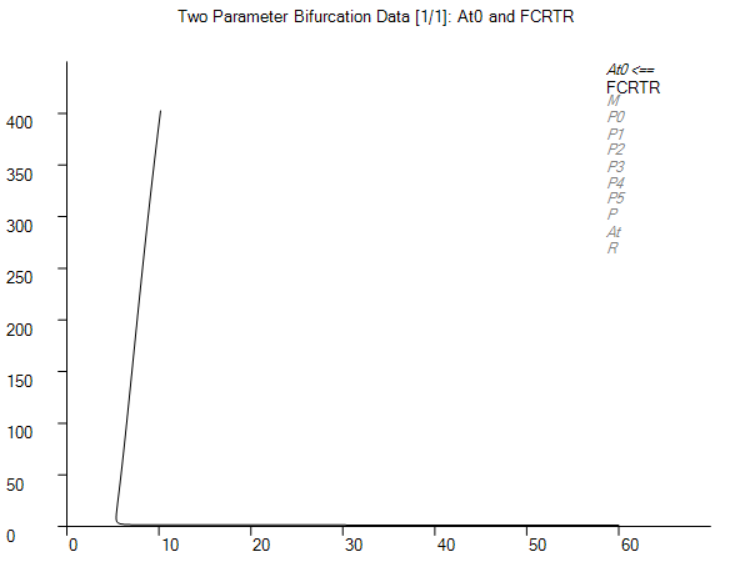


#468

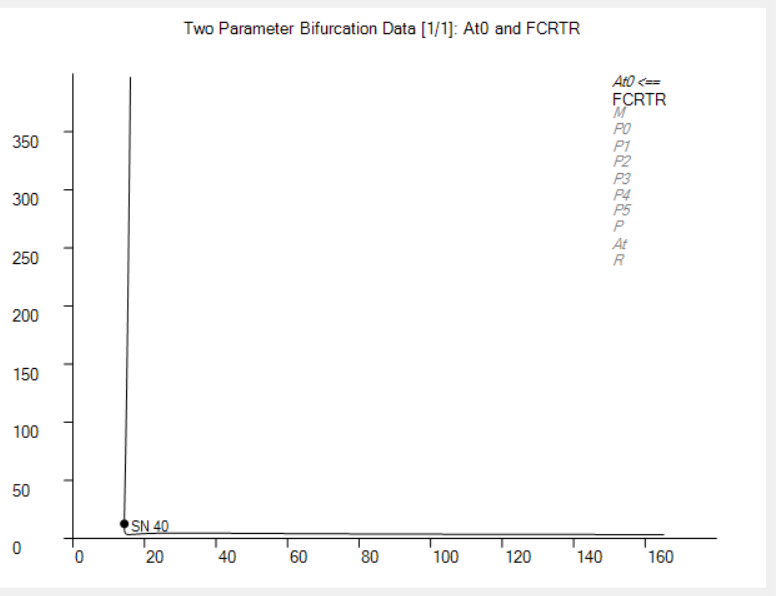
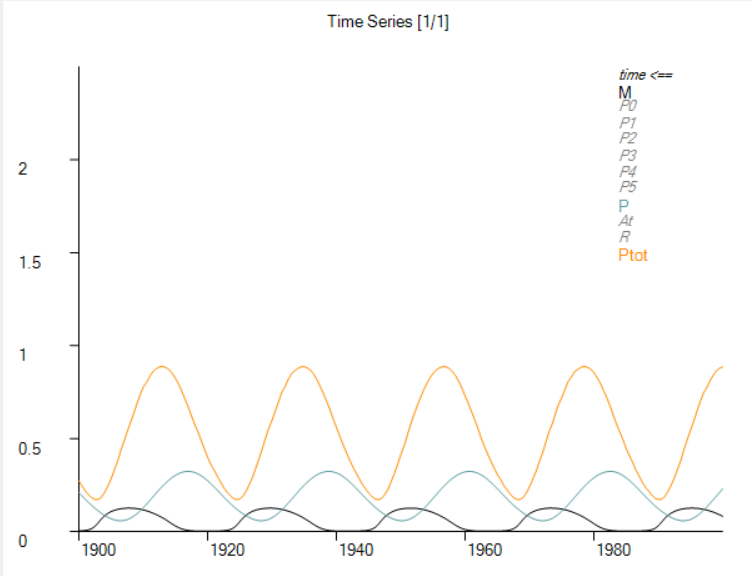


#604

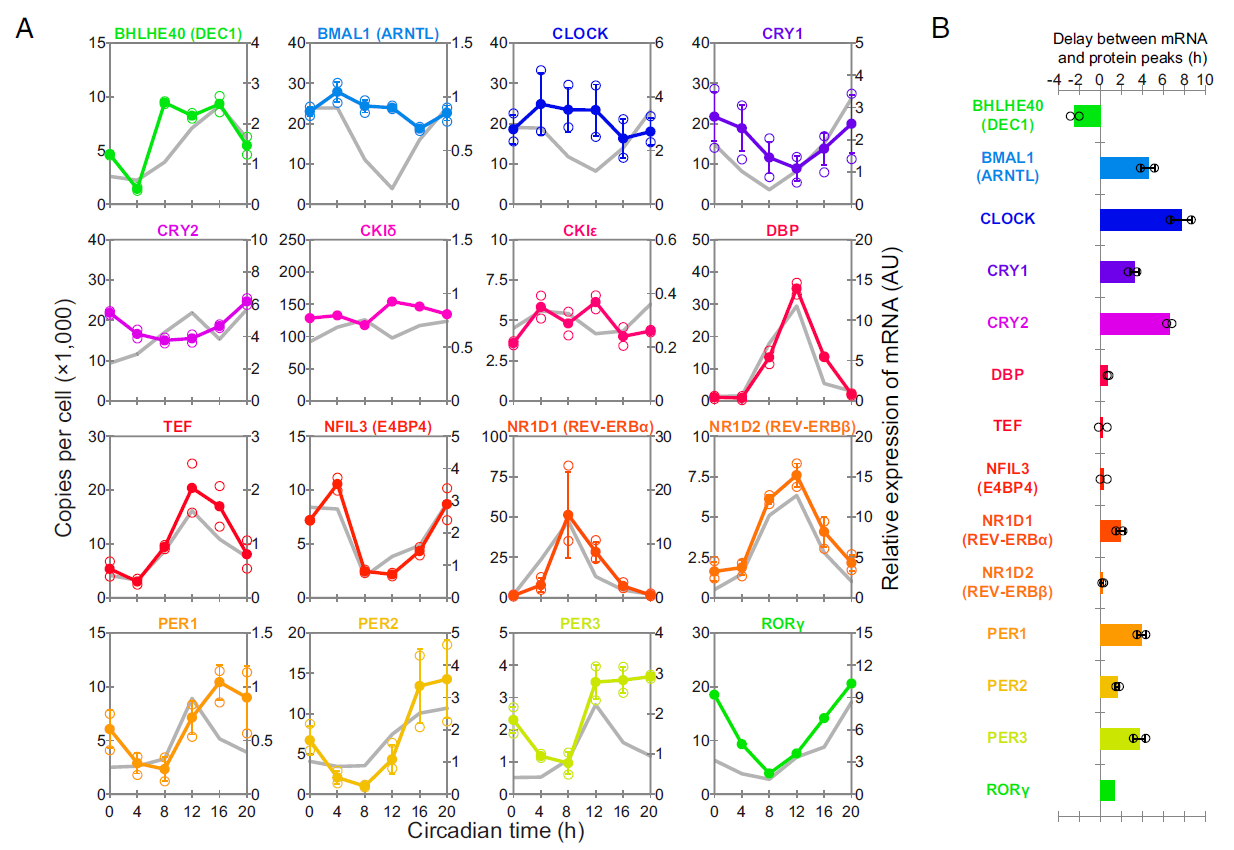




# 680

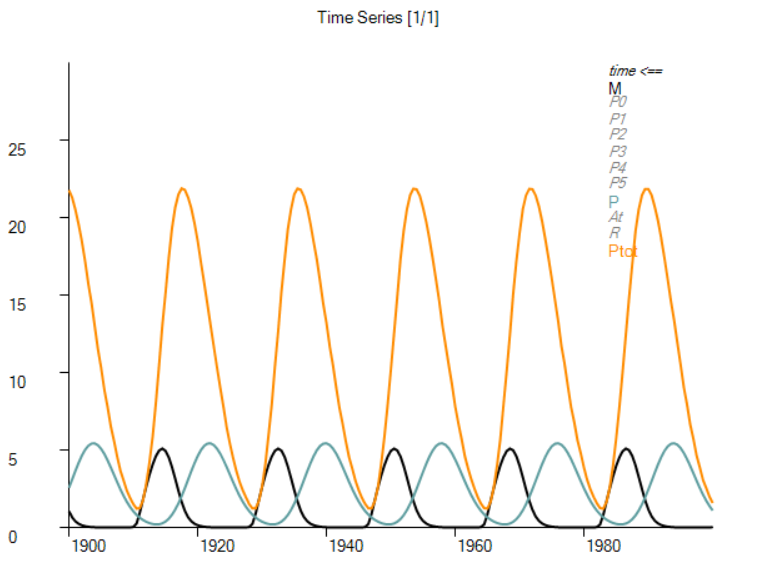


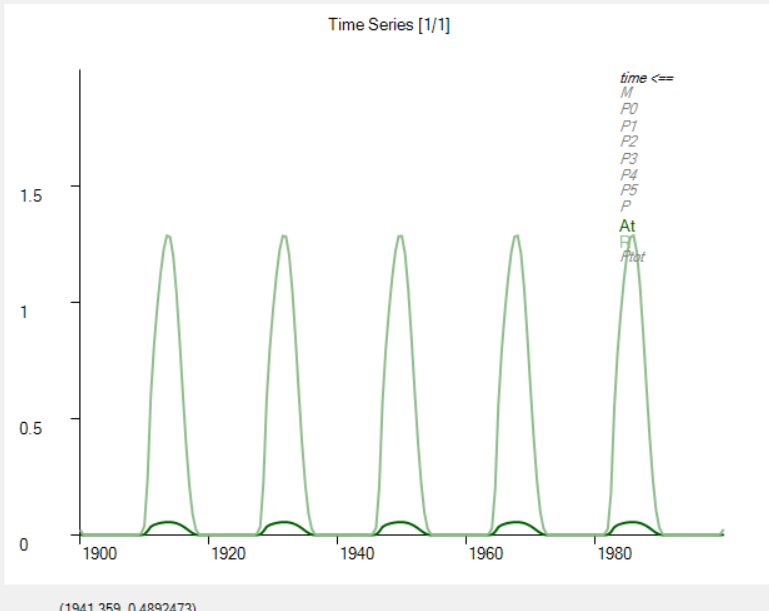
Alternate Fig 9



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | delta | AMAX | RMAX | KA | alpha | Km | beta\_max | eps |  |  |  |  |  |  |
|  | 25 | 0.1 | 70 | 2.5 | 300 | 10 | 8 | 0.0002 |  |  |  |  |  |  |

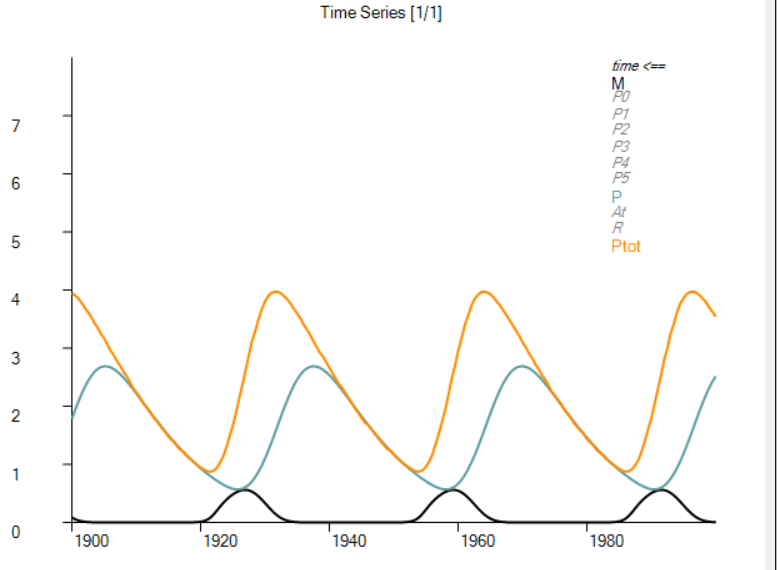
,

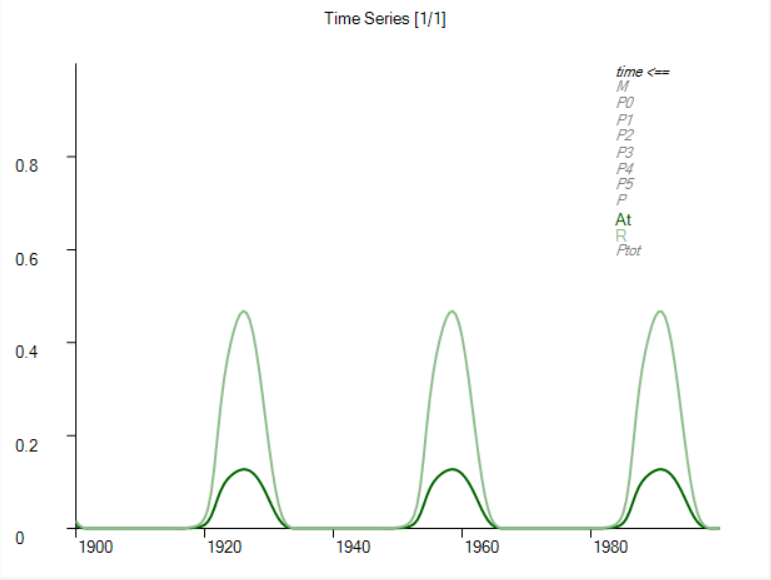




delta AMAX RMAX KA alpha Km beta\_max eps

15 0.4 40 7 3 50 0.4 0.0001





1/9/2022

NNF parameter optimized with new criteria

**Criteria: (new criterion highlighted)**

1. Relative amp of Ptot > 0.5

2. max(Ptot) is minimized s.t Kd is maximized

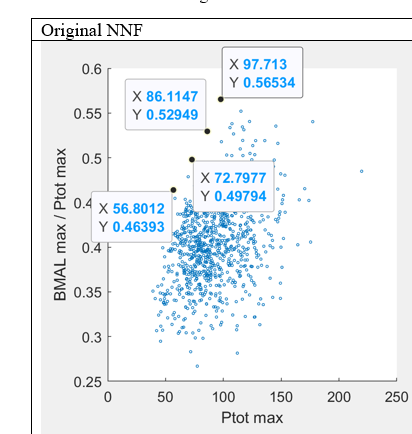
~~3. BMAL (At) average level matches SNF model~~

4. Relative amp of BMAL > 0.2

~~5. Period of Ptot matches SNF~~

6. max(Rev) < 10

7. max(AT) / max(Ptot) as close to 1 as possible



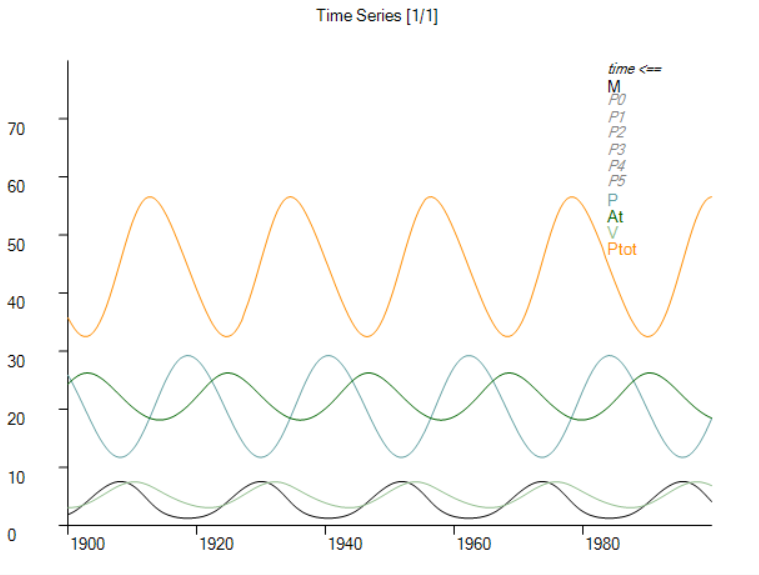


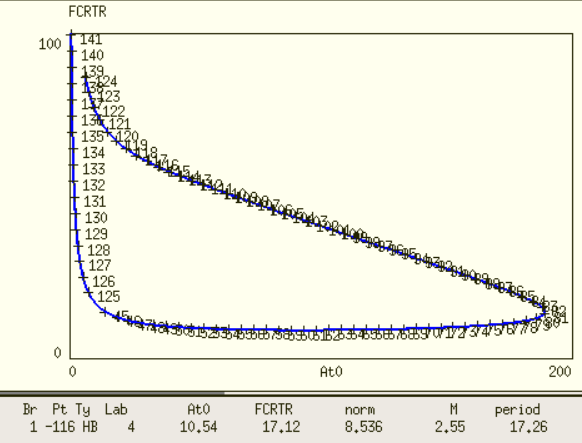




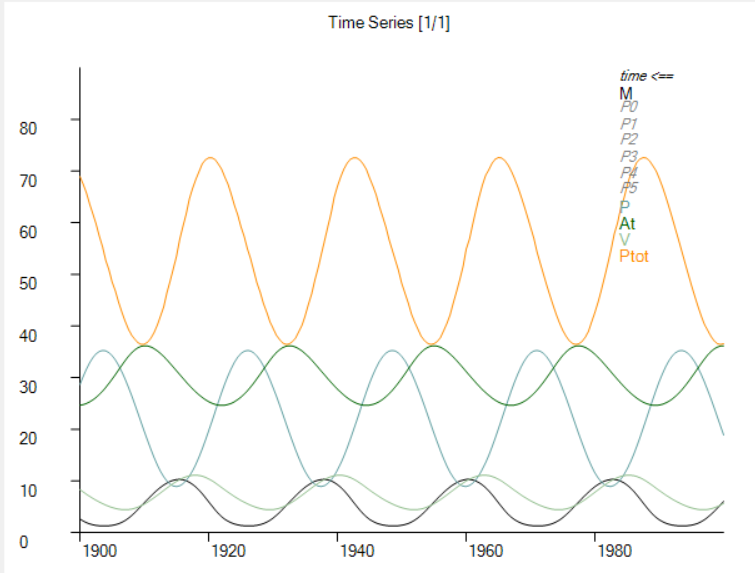


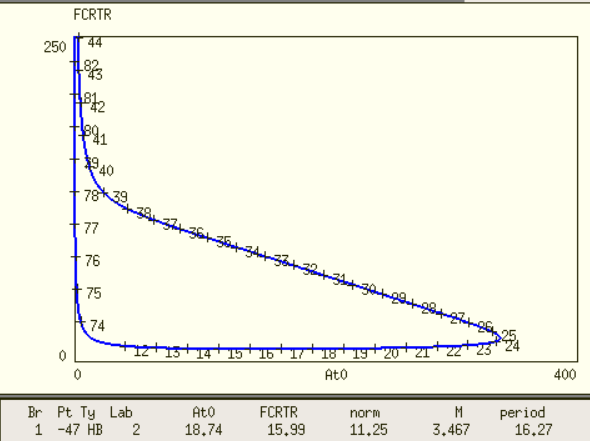
Rank # 55



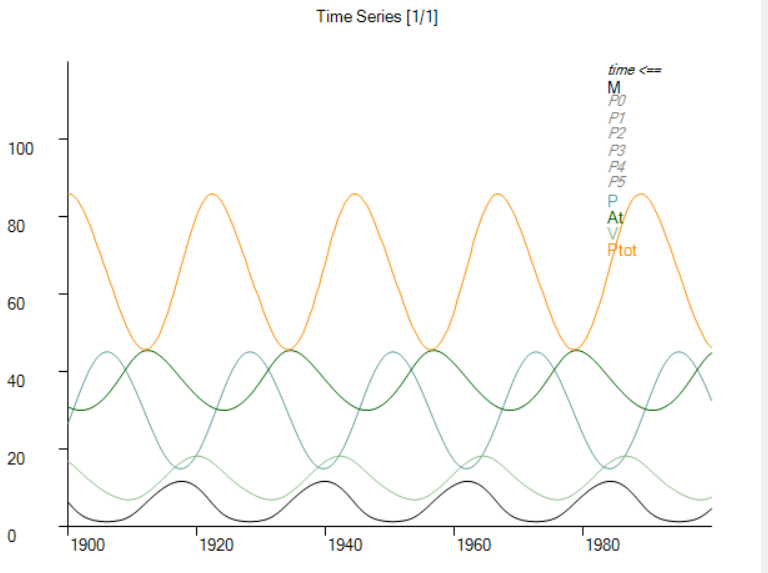


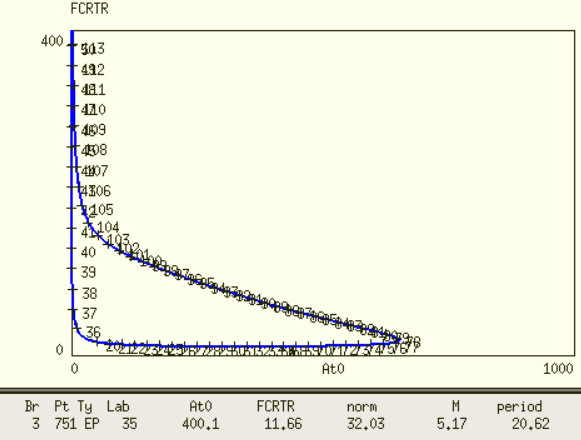
Rank # 220



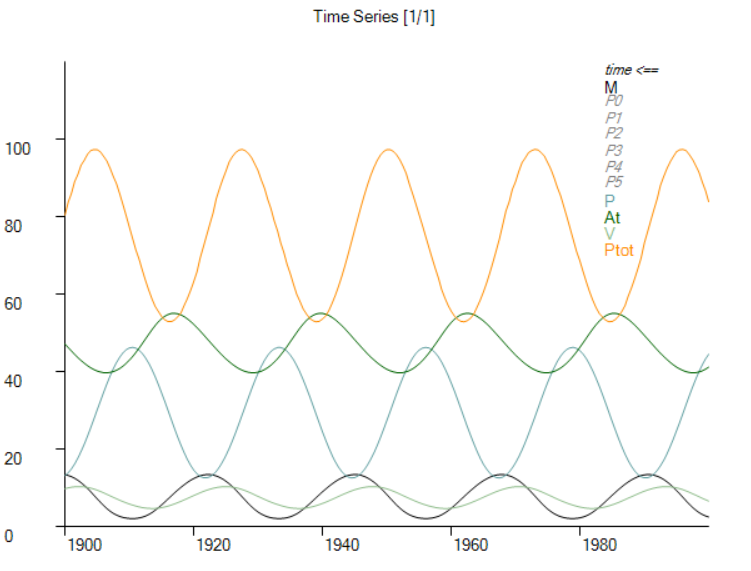


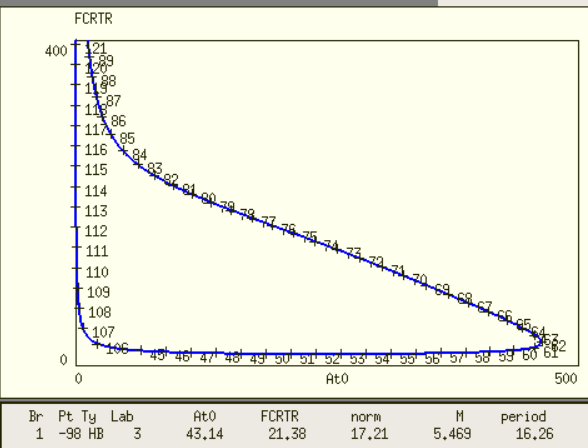
Rank # 473



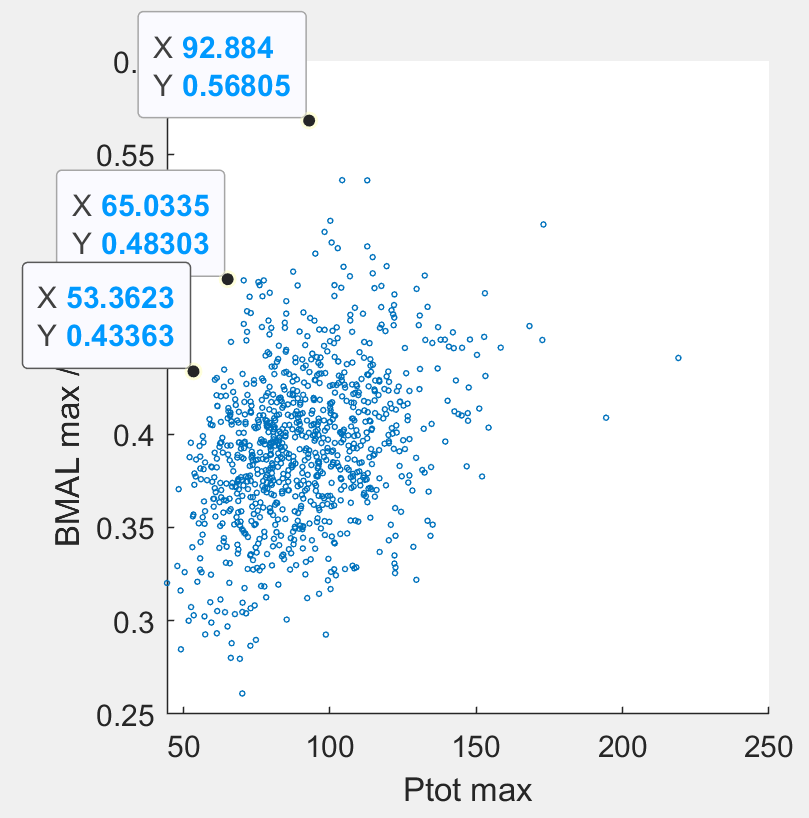


Rank # 659





NNF with 2 different delta



Rank # 14



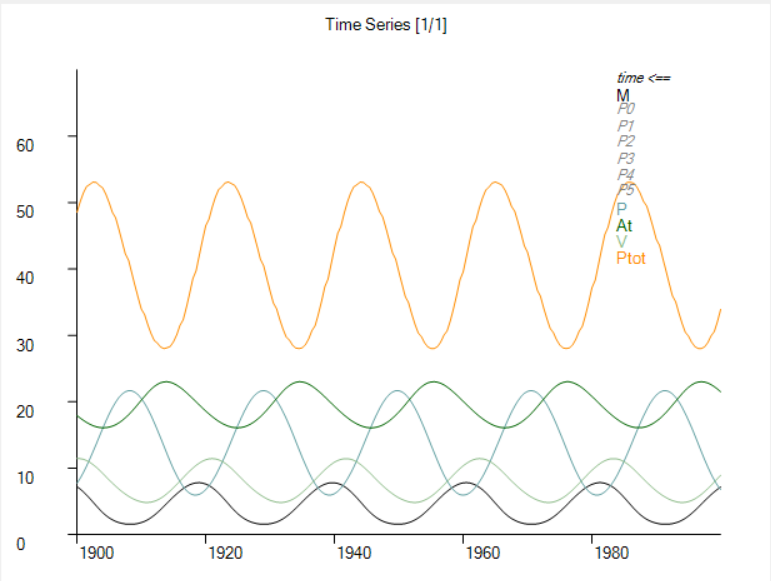
Rank #97

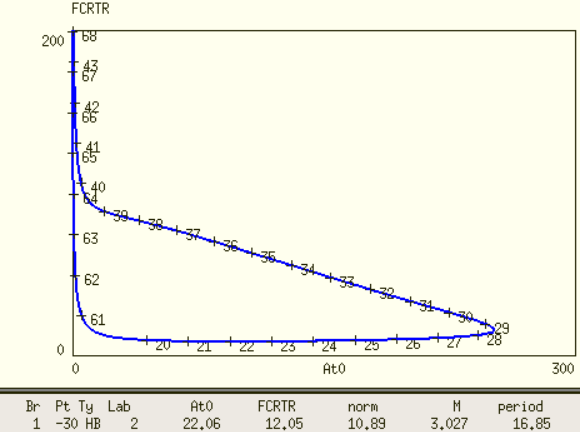


Rank # 529

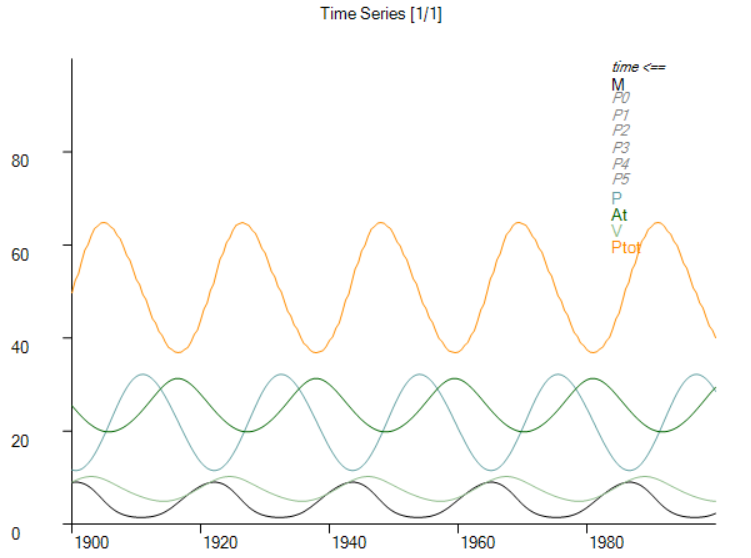


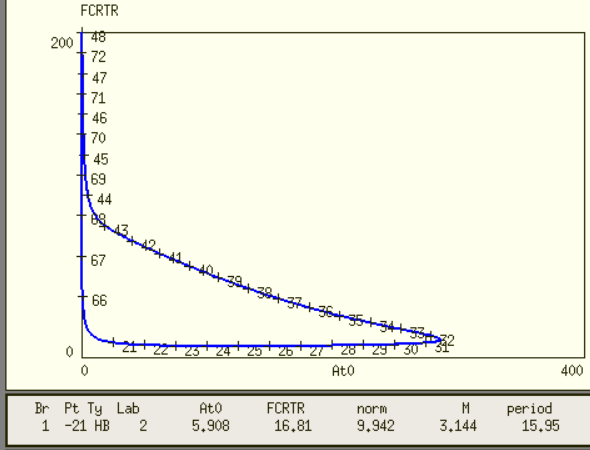
Rank # 14



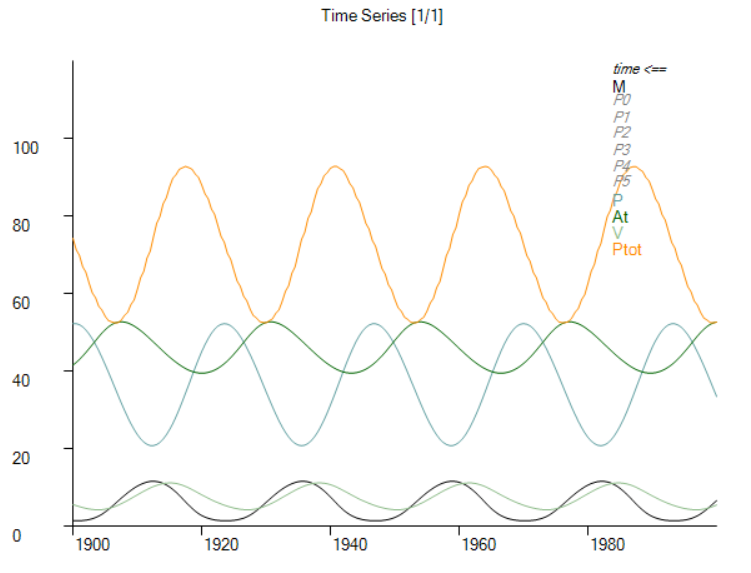


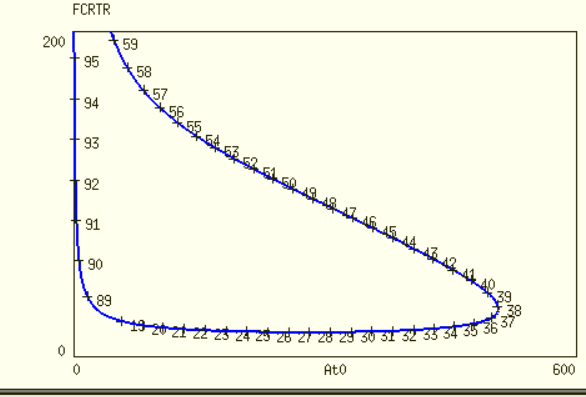
Rank # 97



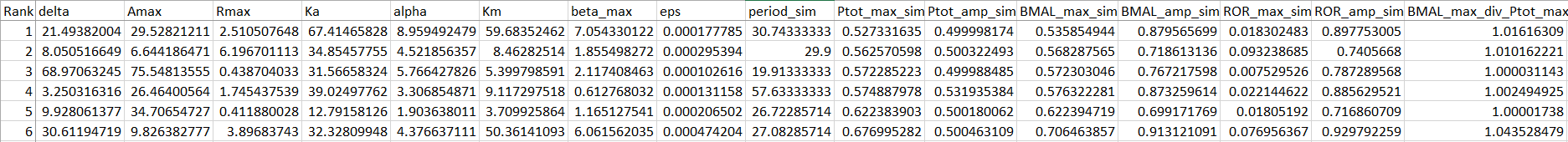


# 529



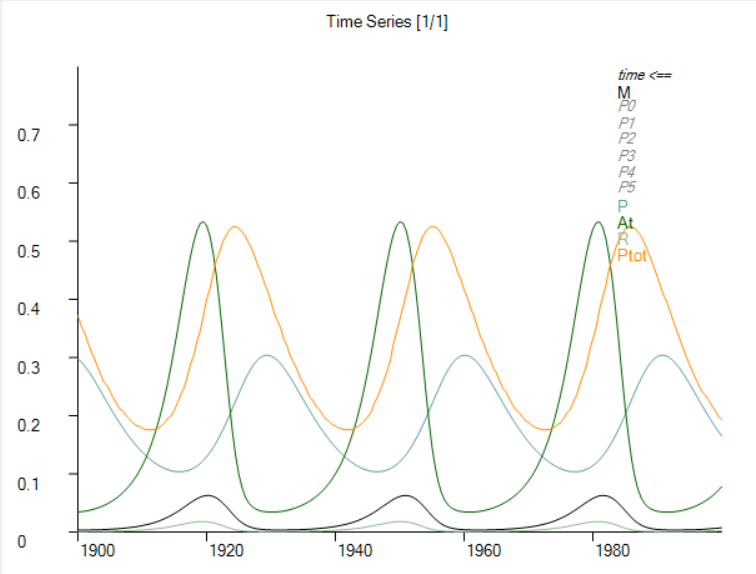


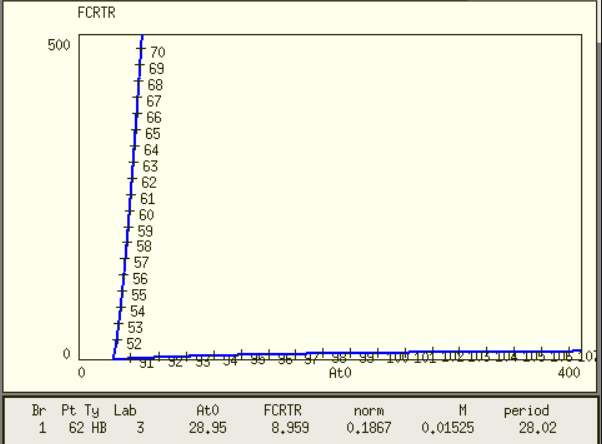
PNF with additional criteria for max(AT)



Rank # 1

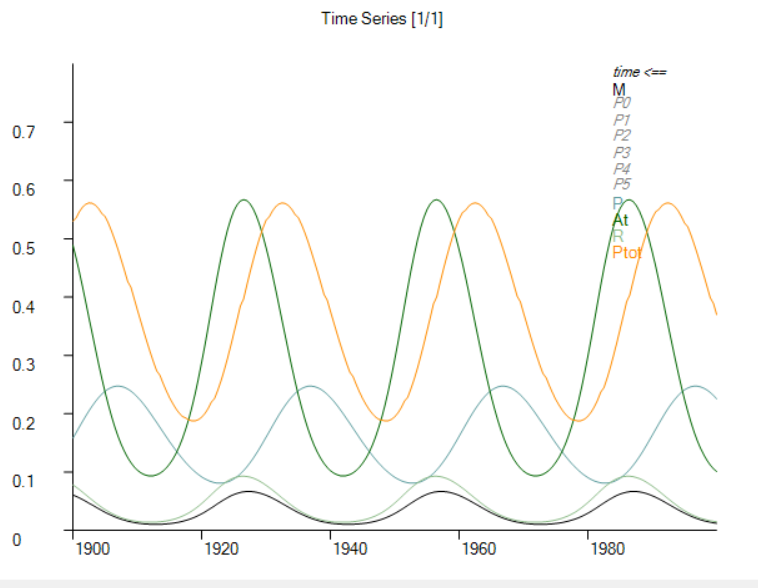


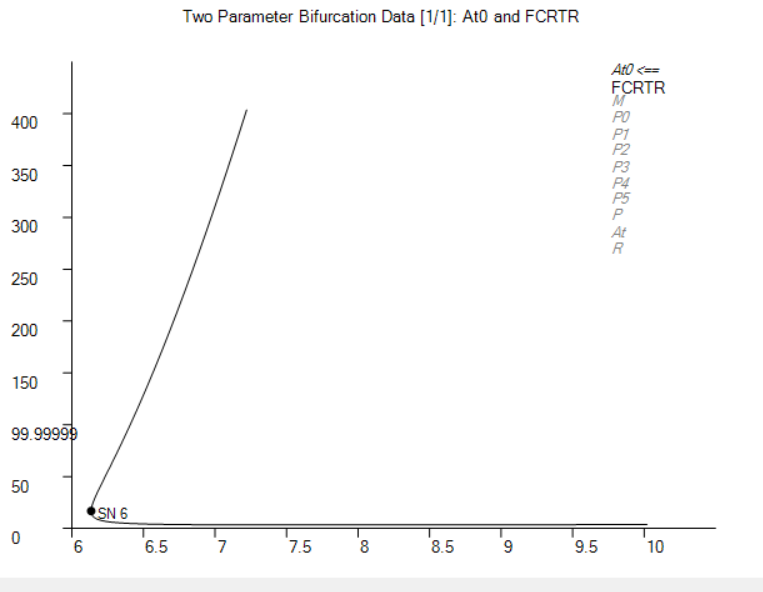




Rank # 2

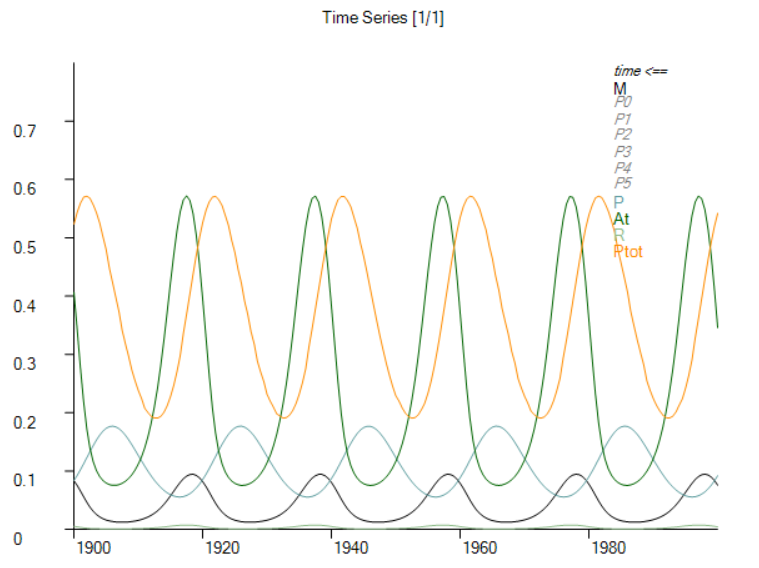


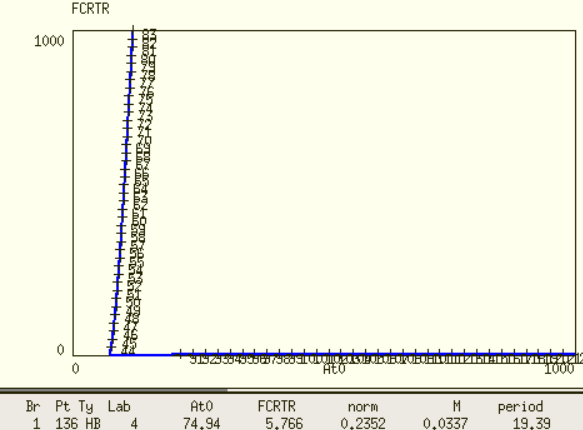




Rank # 3







Rank # 4



