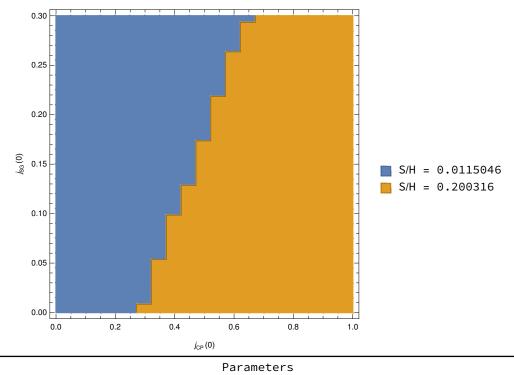
S/H ratio after 500 days

Fluxes that are state variables: ${j_{CP}, j_{SG}}$



```
nNH \rightarrow 0.18
                           \sigma NH \rightarrow 0.9
                                                      KX \rightarrow \frac{1}{1000000}
                                                                                       yCL \rightarrow 0.1
                                                                                                                      jCPm \rightarrow 2.8
nNS \rightarrow 0.13
                            \sigma \text{CH} \rightarrow 0.1
                                                      jNm \rightarrow 0.035
                                                                                       yC \rightarrow 0.8
                                                                                                                      jSGm \rightarrow 0.25
                                                                                                                                                    \lambda \rightarrow 40
                                                     \mathrm{KN} \rightarrow \mathrm{1.5} \times \mathrm{10^{-6}}
nNX \rightarrow 0.2
                            \sigma \text{NS} \rightarrow 0.9
                                                                                       astar \rightarrow 1.34 b \rightarrow 5
                                                                                                                                                     tmax \rightarrow 500
jOHT \rightarrow 0.03 \sigmaCS \rightarrow 0.9
                                                     kC02 \rightarrow 10
                                                                                       kNPQ \rightarrow 112
                                                                                                                      X \rightarrow 0
                                                                                                                                                     S_0 \rightarrow 0.3
                                                                                       kROS → 80
jOST \rightarrow 0.03 \quad jXm \rightarrow 0.13
                                                    jHGm \rightarrow 1
                                                                                                                      N \rightarrow 1.5 \times 10^{-6}
                                                                                                                                                    H_0 \rightarrow 1
                                                    S/H ratio after 500 days
```

0.10

0.08

 $jOST \rightarrow 0.03 \quad jXm \rightarrow 0.13$

0.5

 $nNX \rightarrow 0.2$

 $jOST \rightarrow 0.03$

 $nNS \rightarrow 0.13$

 $nNX \rightarrow 0.2$

 $jOST \rightarrow 0.03$

 $\sigma \text{CH} \rightarrow 0.1$

 $\sigma NS \rightarrow 0.9$

 $\texttt{jXm} \rightarrow \texttt{0.13}$

jOHT → 0.03 σCS → 0.9

 $jNm \rightarrow 0.035$

 $kC02 \rightarrow 10$

 $\texttt{jHGm} \to \texttt{1}$

 $\mathrm{KN} \rightarrow \mathrm{1.5} \times \mathrm{10^{-6}}$

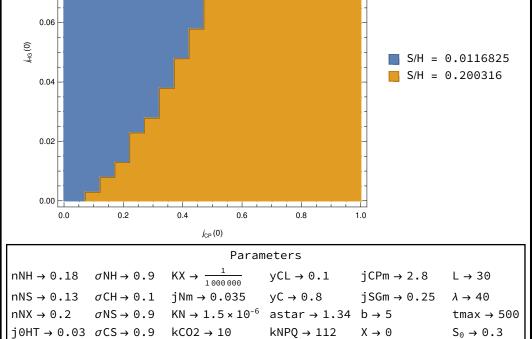
 $\sigma NS \rightarrow 0.9$

 $jXm \rightarrow 0.13$

j0HT → 0.03 σCS → 0.9

Fluxes that are state variables: $\{j_{CP}, j_{HG}\}$





Fluxes that are state variables: $\{j_{CP}, \rho_{C}\}$

kROS → 80

500 days

 $N \rightarrow 1.5 \times 10^{-6}$

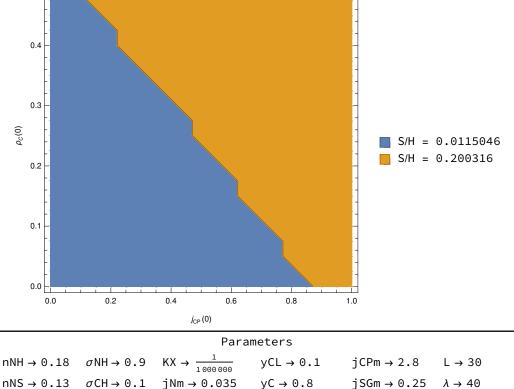
 $H_0 \, \to \, 1$

 $\lambda \rightarrow 40$

 $tmax \rightarrow 500$ $S_0 \rightarrow 0.3$

 $jHGm \rightarrow 1$

S/H ratio after



astar → 1.34

 $kNPQ \rightarrow 112$

 $kROS \rightarrow 80$

S/H ratio after 500 days

Fluxes that are state variables: $\{j_{CP}, \rho_N\}$

 $b \rightarrow 5$

 $X \rightarrow 0$

 $N \rightarrow 1.5 \times 10^{-6} \quad H_0 \rightarrow 1$

 $jNm \rightarrow 0.035$

 $kC02 \rightarrow 10$

 $\texttt{jHGm} \to \texttt{1}$

 $\mathsf{KN} \to \mathbf{1.5} \times \mathbf{10^{-6}}$

0.14 0.12 0.10 0.08 \blacksquare S/H = 0.0115046 S/H = 0.2003160.06 0.04 0.02 0.00 0.2 0.6 0.0 0.8 $j_{\rm CP}\left(0\right)$ Parameters $KX \rightarrow \frac{-}{1000000}$ $jCPm \rightarrow 2.8$ $nNH \rightarrow 0.18$ $\sigma NH \rightarrow 0.9$ $yCL \rightarrow 0.1$ $L \rightarrow 30$

 $yC \rightarrow 0.8$

 $\mathsf{astar} \to \mathsf{1.34}$

 $kNPQ \rightarrow 112$

 $kROS \rightarrow 80$

 $jSGm \rightarrow 0.25$

 $N \rightarrow 1.5 \times 10^{-6}$

 $b \rightarrow 5$

 $X \rightarrow 0$

 $\lambda \rightarrow 40$

 $H_0 \rightarrow 1$

 $tmax \rightarrow 500$

 $S_0 \rightarrow 0.3$