

```
Across all four plots:

RSS (converged)=0.525

RSS (initial)=5.764

RSS (% reduction)=0.916

epsilon Initial_guesses Converged
P_b 0.000000e+00 6.681702e-02 6.681702e-02
P_u 0.000000e+00 5.466972e-07 5.466972e-07
K_12 0.000000e+00 1.814527e+04 1.814527e+04
C_pa 0.000000e+00 3.819882e+08 3.819882e+08
A_s 0.000000e+00 1.458909e+04 1.458909e+04
P_r 2.915441e-02 4.006687e-01 4.298231e-01
C_pt -9.731994e-03 9.732437e-03 4.432139e-07
K_t 1.208057e+00 8.404184e-05 1.208141e+00
A_r 3.948229e+10 5.876297e+05 3.948288e+10
P_o 0.000000e+00 2.011834e+12 2.011834e+12
C_pl 0.000000e+00 1.968035e-02 1.968035e-02
K_l 0.000000e+00 1.281986e-06 1.281986e-06
A_o 0.000000e+00 1.760143e+05 1.760143e+05
F_o 0.000000e+00 1.482633e+00 1.482633e+00

message: Maximum number of iterations has been exceeded.
success: False
status: 2
fun: 0.5254356980442068
x: [ 6.682e-02 5.467e-07 ... 1.760e+05 1.483e+00]
nit: 100000
nfev: 134232
final_simplex: (array([[ 6.682e-02, 5.467e-07, ..., 1.760e+05,
1.483e+00],
[ 6.682e-02, 5.467e-07, ..., 1.760e+05,
1.483e+00],
...,
[ 6.682e-02, 5.467e-07, ..., 1.760e+05,
1.483e+00]], array([ 5.254e-01, 5.254e-01, ..., 5.254e-01, 5.254e-01]))
```