

Across all four plots:

RSS (converged)=0.83

RSS (initial)=3.543

RSS (% reduction)=0.81

message: Maximum number of iterations has been exceeded.
success: False
status: 2

	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	1.544831e-01	4.006687e-01	5.551518e-01
C_pt	-9.731445e-03	9.732437e-03	9.922687e-07
K_t	8.202526e-01	8.404184e-05	8.203367e-01
A_r	1.046137e+10	5.876297e+05	1.046196e+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

fun: 0.8296857194790516
x: [6.682e-02 5.467e-07 ... 1.760e+05 1.483e+00]
nit: 100000
nfev: 134031
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],
[6.682e-02, 5.467e-07, ..., 1.760e+05, 1.483e+00]]), array([8.297e-01, 8.297e-01, ..., 8.297e-01, 8.297e-01]))