3 novembre 2016

Chapitre 1

Présentation des paramètres estimés par le modèle

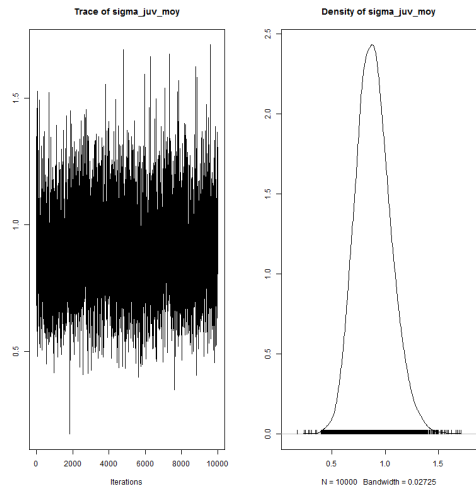Sortie des paramètres Openbugs - Modèle 2016_01_20_thin200_Standard

marion.legrand

8 avril 2016

1 sigma_juv_moy

FIGURE 1 – sigma_juv_moy

TABLE 1 – Statistiques de sigma_juv

2.5%	25%	50%	75%	97.5%	Mean	SD
0.59	0.77	0.88	0.99	1.24	0.89	0.17

2 sigma_wild_moy
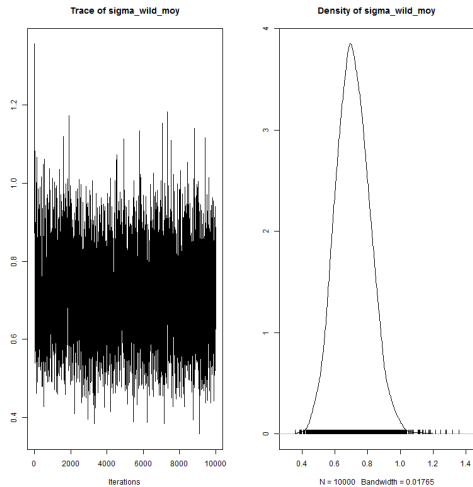
FIGURE 2 – sigma_wild_moy

TABLE 2 – Statistiques de sigma_wild

2.5%	25%	50%	75%	97.5%	Mean	SD
0.51	0.64	0.71	0.78	0.92	0.71	0.11

3 sigma_egg_moy

Trace of sigma_egg_moy

Density of sigma_egg_moy

N = 10000 Bandwidth = 0.02571
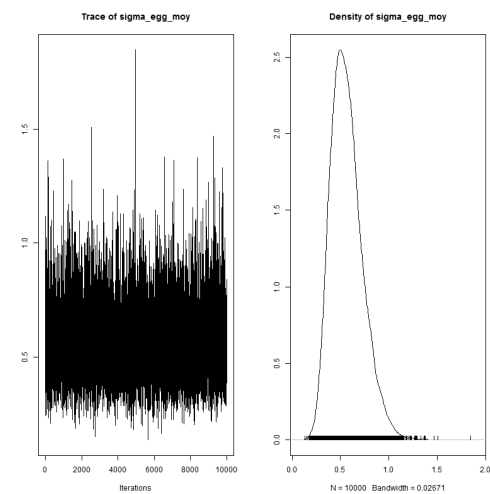
FIGURE 3 – sigma_egg_moy

TABLE 3 – Statistiques de sigma_egg

2.5%	25%	50%	75%	97.5%	Mean	SD
0.30	0.45	0.55	0.66	0.94	0.57	0.16

4 nu_wild

Trace of nu_wild[1]

Density of nu_wild[1]

N = 10000 Bandwidth = 0.01461

Trace of nu_wild[2]

Density of nu_wild[2]

N = 10000 Bandwidth = 0.01461

Trace of nu_wild[3]

Density of nu_wild[3]

N = 10000 Bandwidth = 0.01461
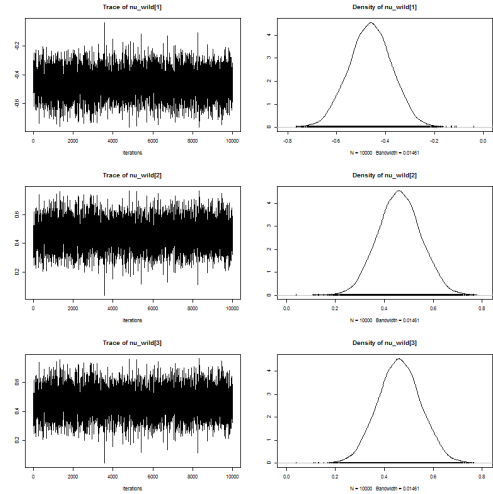
FIGURE 4 – nu_wild

TABLE 4 – Statistiques de nu_wild

	2.5%	25%	50%	75%	97.5%	Mean	SD
nu_wild1	-0.63	-0.52	-0.46	-0.40	-0.29	-0.46	0.09
nu_wild2	0.29	0.40	0.46	0.52	0.63	0.46	0.09
nu_wild3	0.29	0.40	0.46	0.52	0.63	0.46	0.09

5   a

Trace of a

Density of a
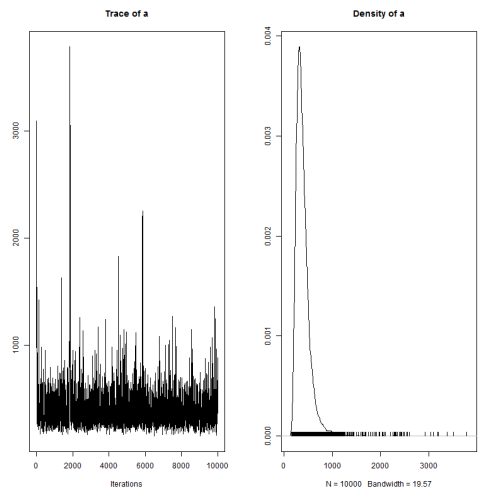
FIGURE 5 – a

TABLE 5 – Statistiques de a

2.5%	25%	50%	75%	97.5%	Mean	SD
210.90	292.28	356.70	448.40	799.90	397.73	204.99

6   a_juv

Trace of a_juv

Density of a_juv
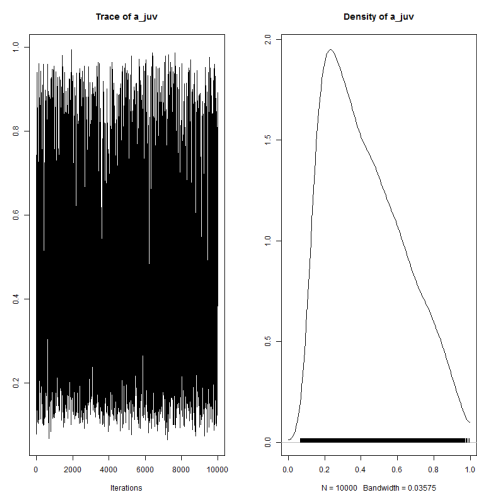
FIGURE 6 – a_juv

TABLE 6 – Statistiques de a_juv

2.5%	25%	50%	75%	97.5%	Mean	SD
0.13	0.25	0.39	0.58	0.88	0.43	0.21

7 Rmax
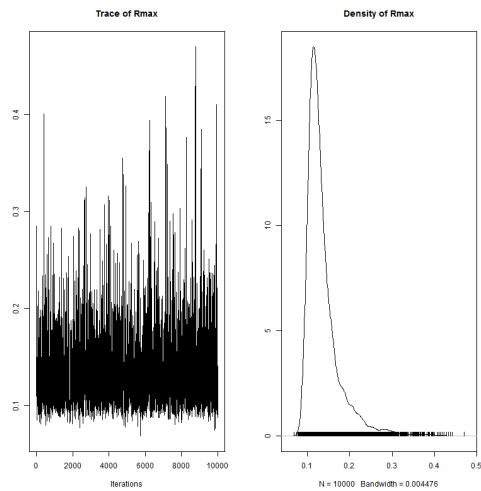
Figure 7 – Rmax

Table 7 – Statistiques de Rmax

2.5%	25%	50%	75%	97.5%	Mean	SD
0.09	0.11	0.12	0.15	0.26	0.14	0.04

8 sigma_juv_site
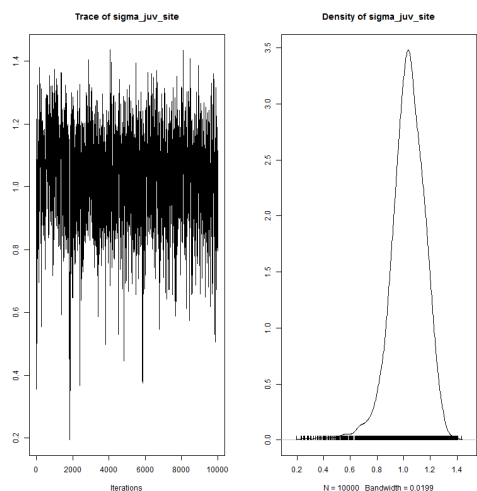
Figure 8 – sigma_juv_site

Table 8 – Statistiques de sigma_juv_site

2.5%	25%	50%	75%	97.5%	Mean	SD
0.74	0.96	1.04	1.12	1.25	1.03	0.13

9 sigma_wild_site
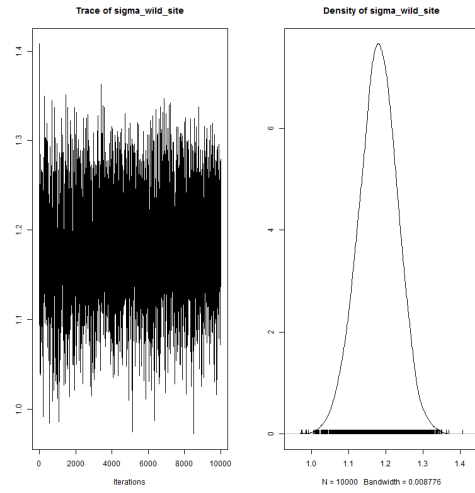
FIGURE 9 – sigma_wild_site

TABLE 9 – Statistiques de sigma_wild_site

2.5%	25%	50%	75%	97.5%	Mean	SD
1.07	1.14	1.18	1.22	1.28	1.18	0.05

10 sigma_egg_site
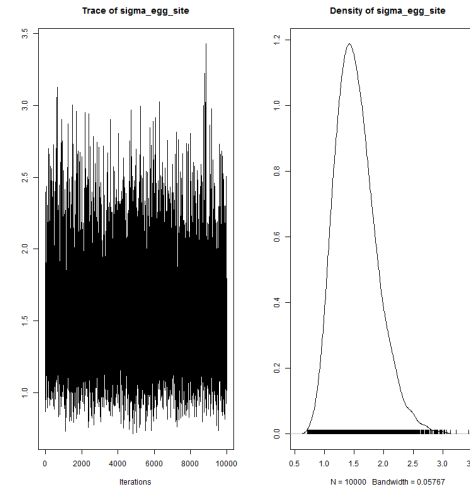
FIGURE 10 – sigma_egg_site

TABLE 10 – Statistiques de sigma_egg_site

2.5%	25%	50%	75%	97.5%	Mean	SD
0.96	1.28	1.49	1.74	2.32	1.53	0.35

11 adjust_p_L
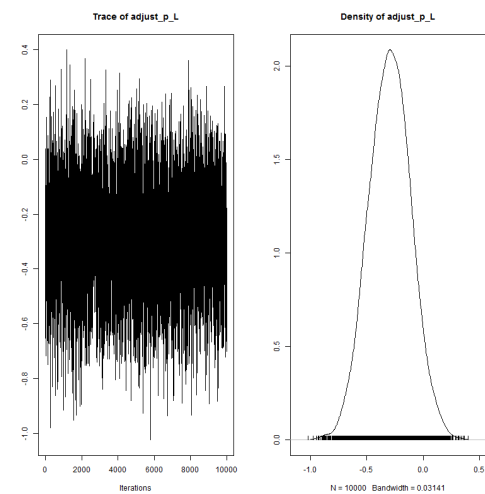
FIGURE 11 – adjust_p_L

TABLE 11 – Statistiques de adjust_p_L

2.5%	25%	50%	75%	97.5%	Mean	SD
-0.66	-0.42	-0.29	-0.17	0.07	-0.30	0.19

12 adjust_p_P
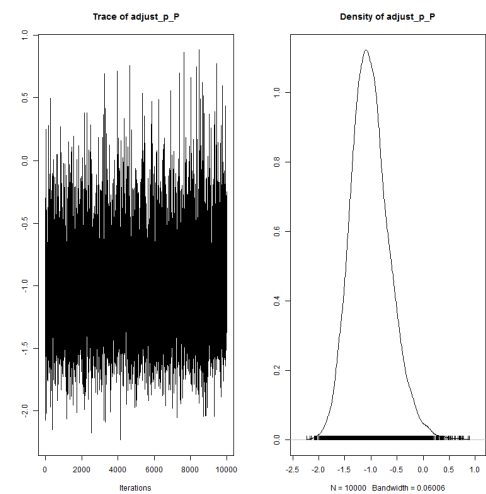
FIGURE 12 – adjust_p_P

TABLE 12 – Statistiques de adjust_p_P

2.5%	25%	50%	75%	97.5%	Mean	SD
-1.66	-1.27	-1.04	-0.79	-0.19	-1.01	0.38

13   sigma_p_langeac

Trace of sigma_p_langeac

Density of sigma_p_langeac

N = 10000   Bandwidth = 0.02029
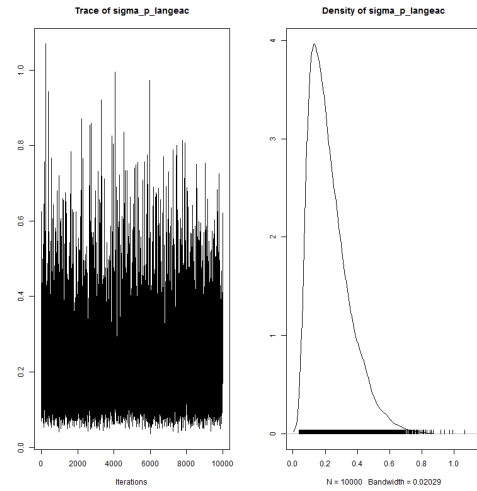
FIGURE 13 – sigma_p_langeac

TABLE 13 – Statistiques de sigma_p_langeac

2.5%	25%	50%	75%	97.5%	Mean	SD
0.07	0.13	0.20	0.29	0.54	0.23	0.13

14   sigma_p_poutes

Trace of sigma_p_poutes

Density of sigma_p_poutes

N = 10000   Bandwidth = 0.03151

FIGURE 14 – sigma_p_poutes
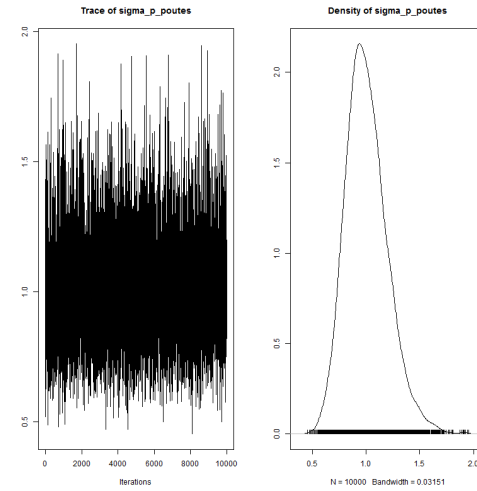
TABLE 14 – Statistiques de sigma_p_poutes

2.5%	25%	50%	75%	97.5%	Mean	SD
0.67	0.87	0.99	1.12	1.44	1.00	0.20

15 rho_station
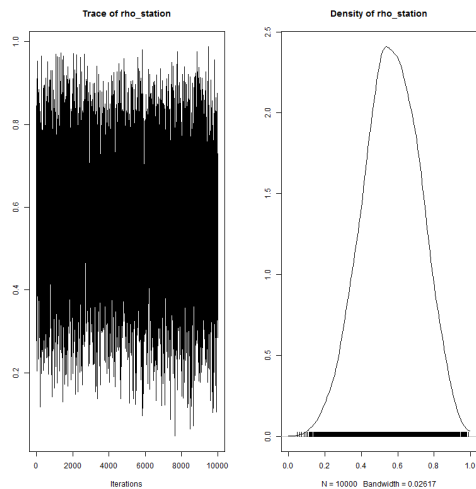
FIGURE 15 – rho_station

TABLE 15 – Statistiques de rho_station

2.5%	25%	50%	75%	97.5%	Mean	SD
0.26	0.46	0.57	0.68	0.86	0.57	0.16

16 hel_effect
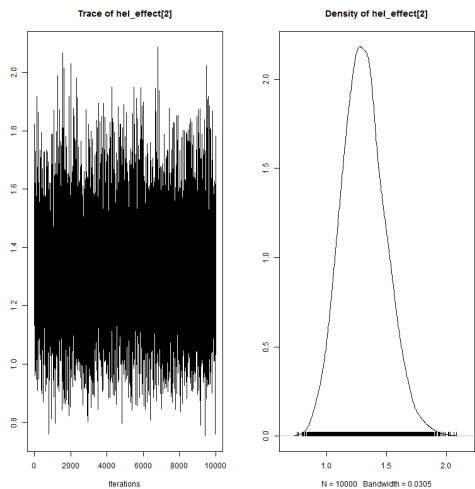
FIGURE 16 – hel_effect

TABLE 16 – Statistiques de hel_effect

2.5%	25%	50%	75%	97.5%	Mean	SD
0.97	1.18	1.30	1.43	1.69	1.31	0.18

17 mu_tau

Trace of mu_tau   Density of mu_tau

N = 10000 Bandwidth = 0.06968
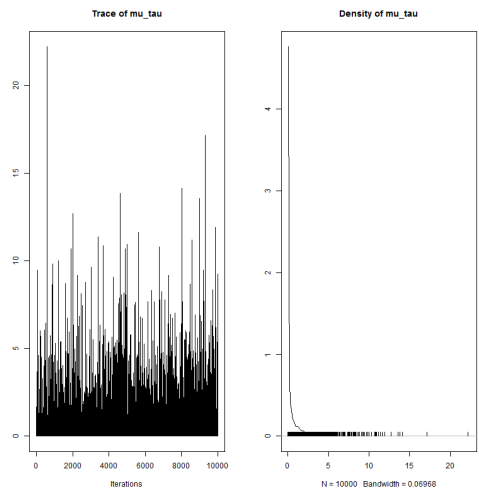
FIGURE 17 – mu_tau

TABLE 17 – Statistiques de mu_tau

2.5%	25%	50%	75%	97.5%	Mean	SD
0.000003	0.000827	0.045490	0.556575	4.094100	0.572207	1.236248

18 beta_tau

Trace of beta_tau   Density of beta_tau

N = 10000 Bandwidth = 0.0882
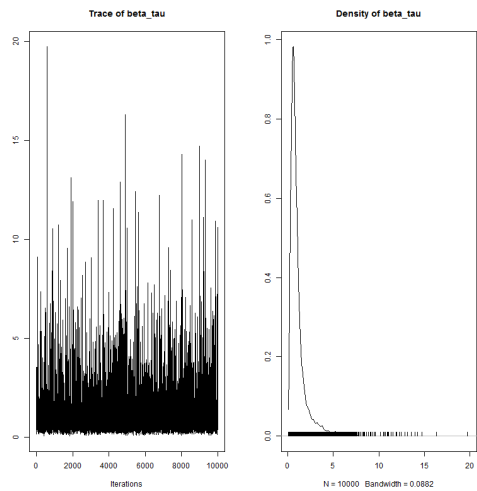
FIGURE 18 – beta_tau

TABLE 18 – Statistiques de beta_tau

2.5%	25%	50%	75%	97.5%	Mean	SD
0.22	0.50	0.76	1.20	4.36	1.10	1.17

19   s_juv2ad

Trace of s_juv2ad   Density of s_juv2ad

N = 10000   Bandwidth = 0.0001357
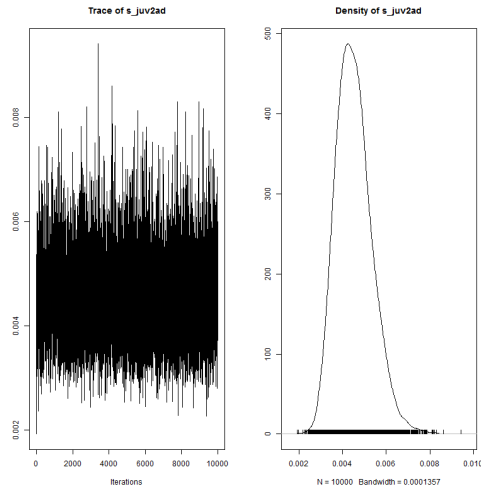
FIGURE 19 – s_juv2ad

TABLE 19 – Statistiques de s_juv2ad

2.5%	25%	50%	75%	97.5%	Mean	SD
0.0031	0.0039	0.0044	0.0050	0.0063	0.0045	0.0008

20   level_s

Trace of level_s   Density of level_s

N = 10000   Bandwidth = 0.06121
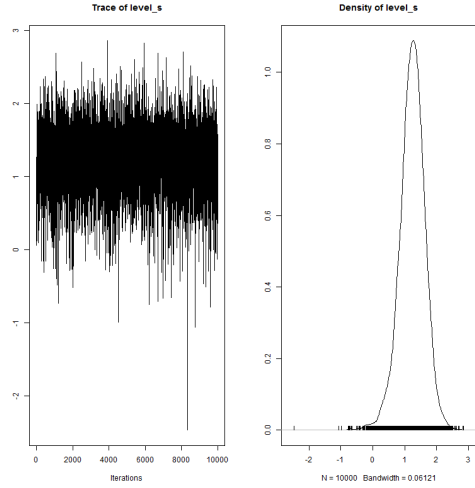
FIGURE 20 – level_s

TABLE 20 – Statistiques de level_s

2.5%	25%	50%	75%	97.5%	Mean	SD
0.38	1.00	1.25	1.49	1.97	1.24	0.40

21 rho_poutes
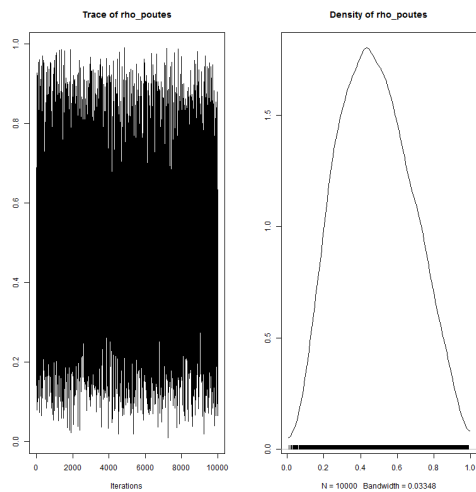
FIGURE 21 – rho_poutes

TABLE 21 – Statistiques de rho_poutes

2.5%	25%	50%	75%	97.5%	Mean	SD
0.13	0.33	0.47	0.63	0.87	0.48	0.20

22 sigma_vichy
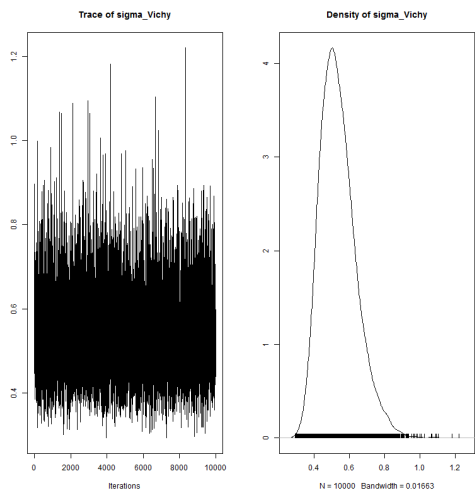
FIGURE 22 – sigma_vichy

TABLE 22 – Statistiques de sigma_vichy

2.5%	25%	50%	75%	97.5%	Mean	SD
0.37	0.46	0.52	0.60	0.77	0.54	0.10

23   res_p_langeac
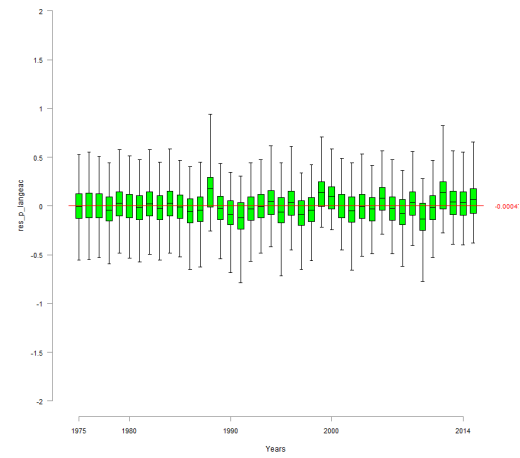
FIGURE 23 – res_p_langeac

24   res_p_poutes
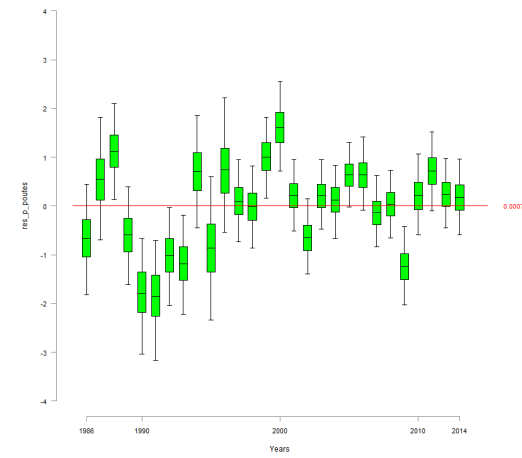
FIGURE 24 – res_p_poutes

25   res_vichy
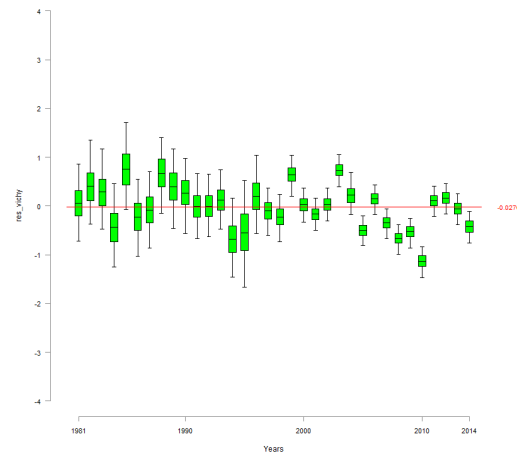
FIGURE 25 – res_vichy

26   zone_effect

26.1   zone_effect_Vichy
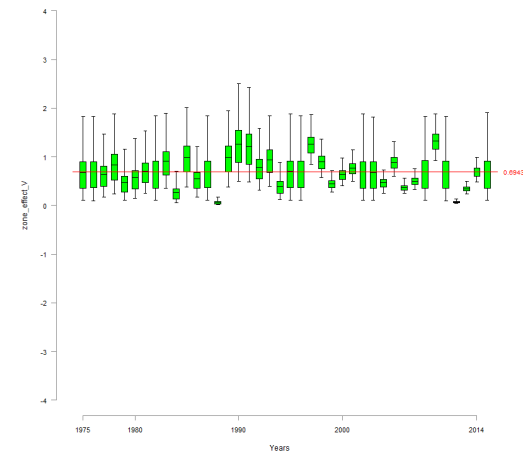
FIGURE 26 – zone_effect_V

26.2 zone_effect_Langeac
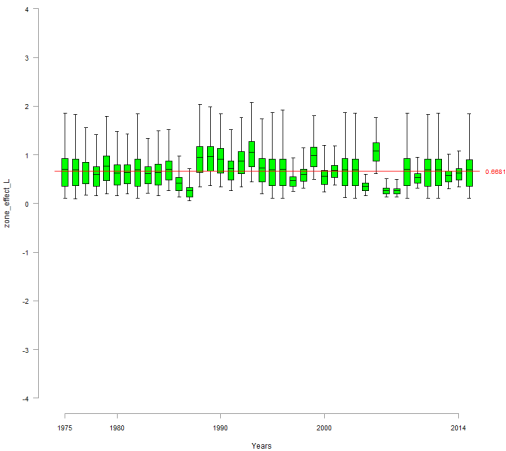
FIGURE 27 – zone_effect_L

26.3 zone_effect_Poutes
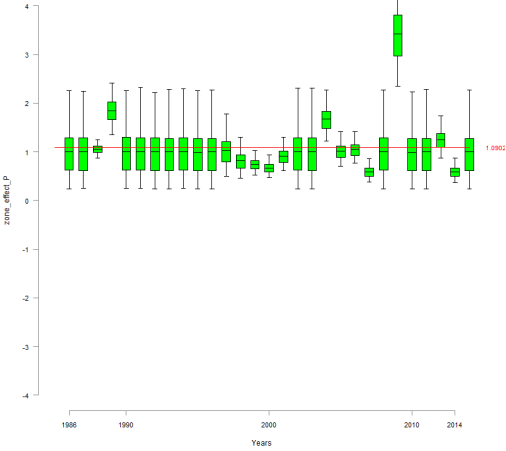
FIGURE 28 – zone_effect_P

27   N_Vichy
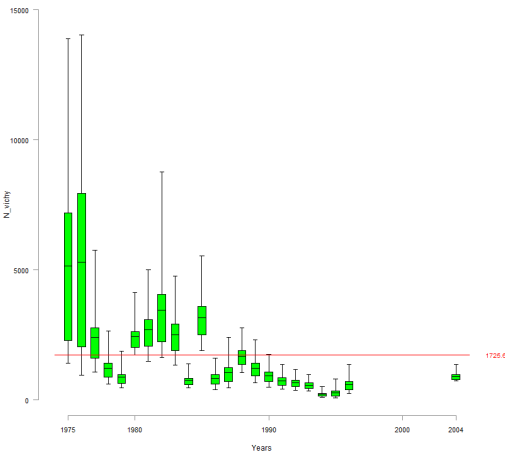
FIGURE 29 – N_vichy

28   N_Langeac
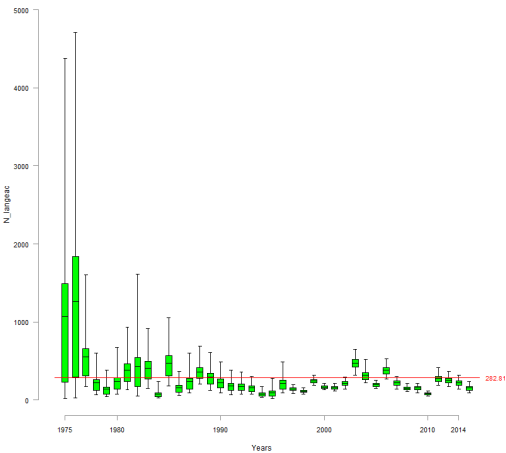
FIGURE 30 – N_langeac

29 d_wild_moy

29.1 d_wild_moy_Vichy
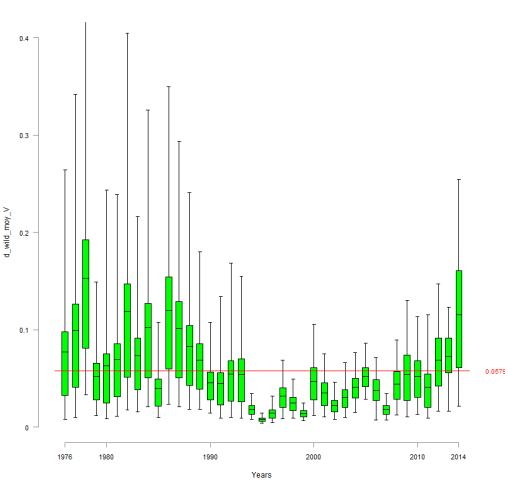
FIGURE 31 – d_wild_moy_V

29.2 d_wild_moy_Langeac
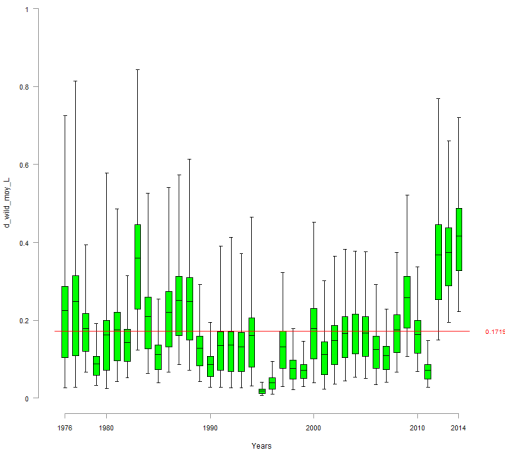
FIGURE 32 – d_wild_moy_L

29.3 d_wild_moy_Poutes
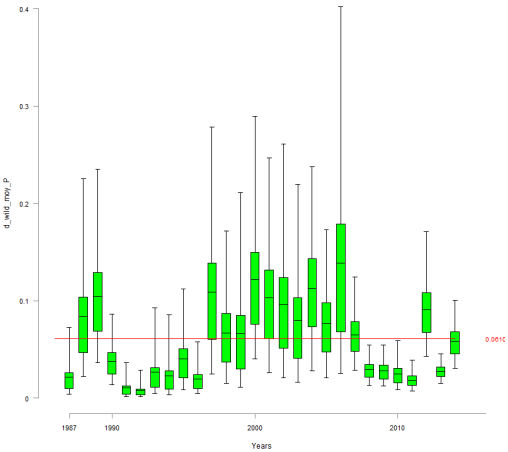
FIGURE 33 – d_wild_moy_P

30 d_juv_moy

30.1 d_juv_moy_Vichy
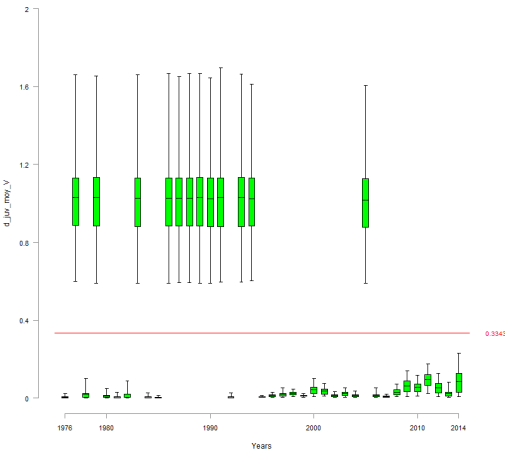
FIGURE 34 – d_juv_moy_V

30.2 d_juv_moy_Langeac
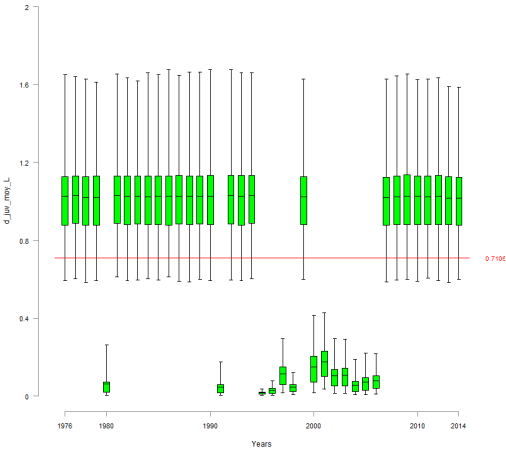
FIGURE 35 – d_juv_moy_L

30.3 d_juv_moy_Poutes
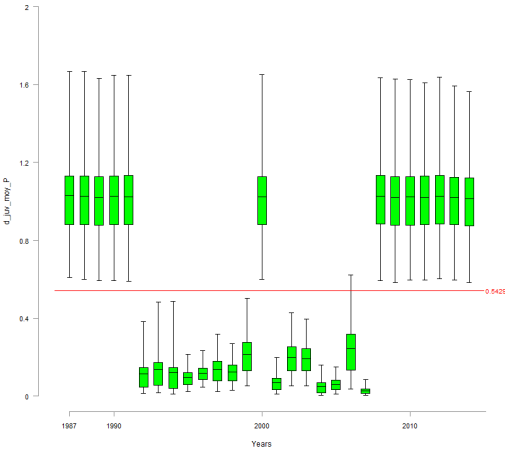
FIGURE 36 – d_juv_moy_P

31 d_egg_moy

31.1 d_egg_moy_Vichy
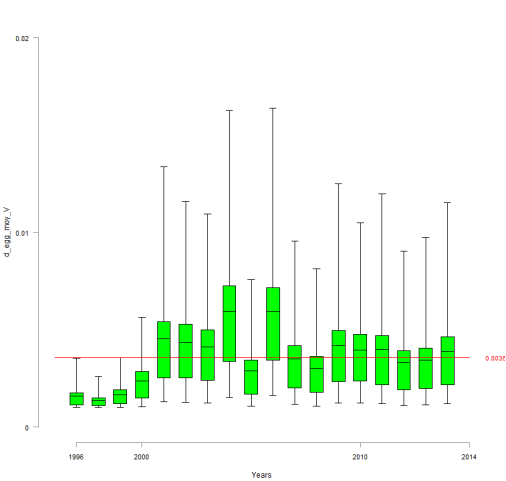
FIGURE 37 – d_egg_moy_V

31.2 d_egg_moy_Langeac
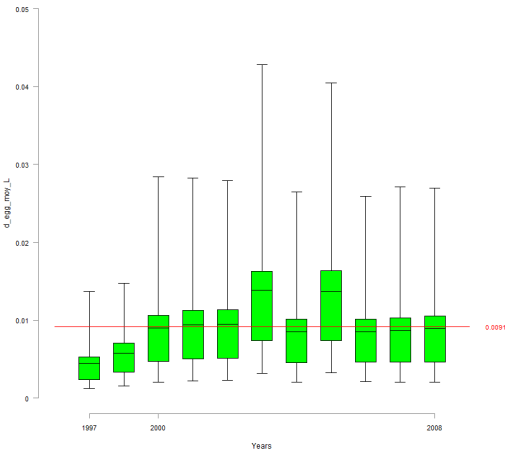
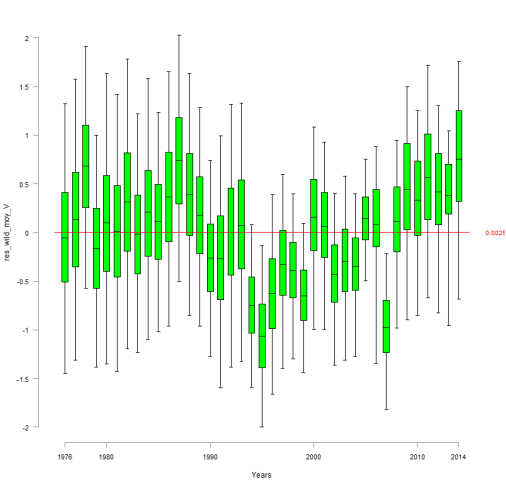FIGURE 38 – d_egg_moy_L

32 res_wild_moy

32.1 res_wild_moy_Vichy

32.2 res_wild_moy_Langeac

FIGURE 39 – res_wild_moy_V
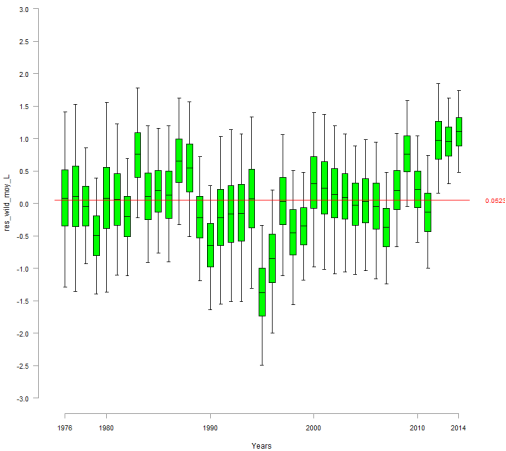
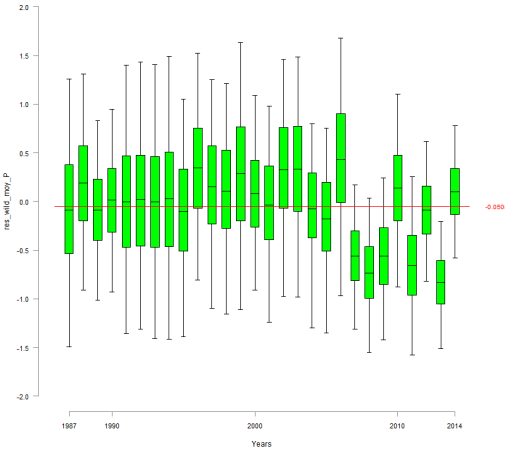FIGURE 40 – res_wild_moy_L

32.3 res_wild_moy_Poutes

FIGURE 41 – res_wild_moy_P

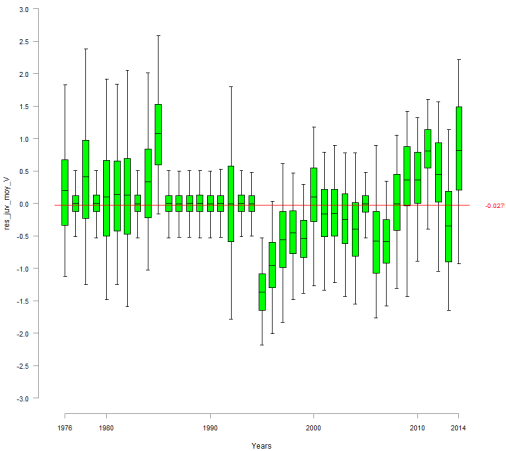## 33 res_juv_moy

33.1 res_juv_moy_Vichy

FIGURE 42 – res_juv_moy_V
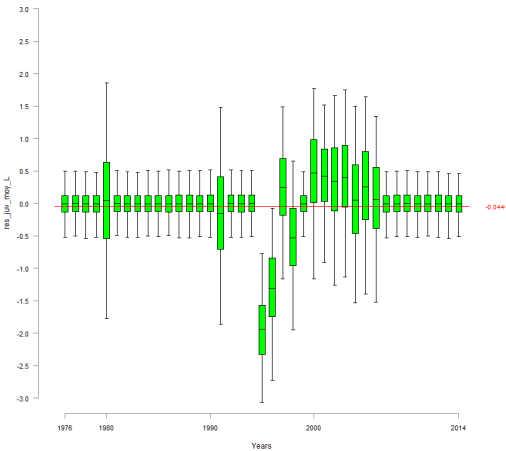
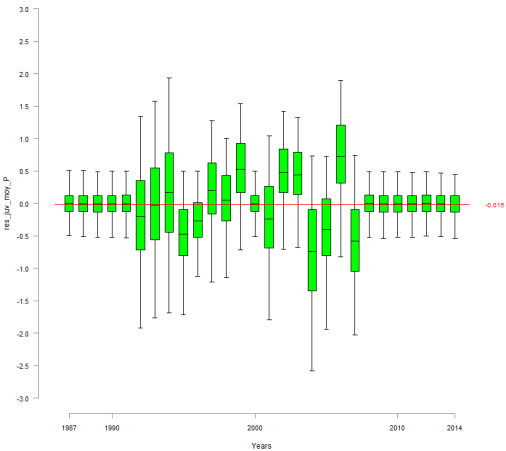## 33.2   res_juv_moy_Langeac

FIGURE 43 – res_juv_moy_L

33.3   res_juv_moy_Poutes

FIGURE 44 – res_juv_moy_P