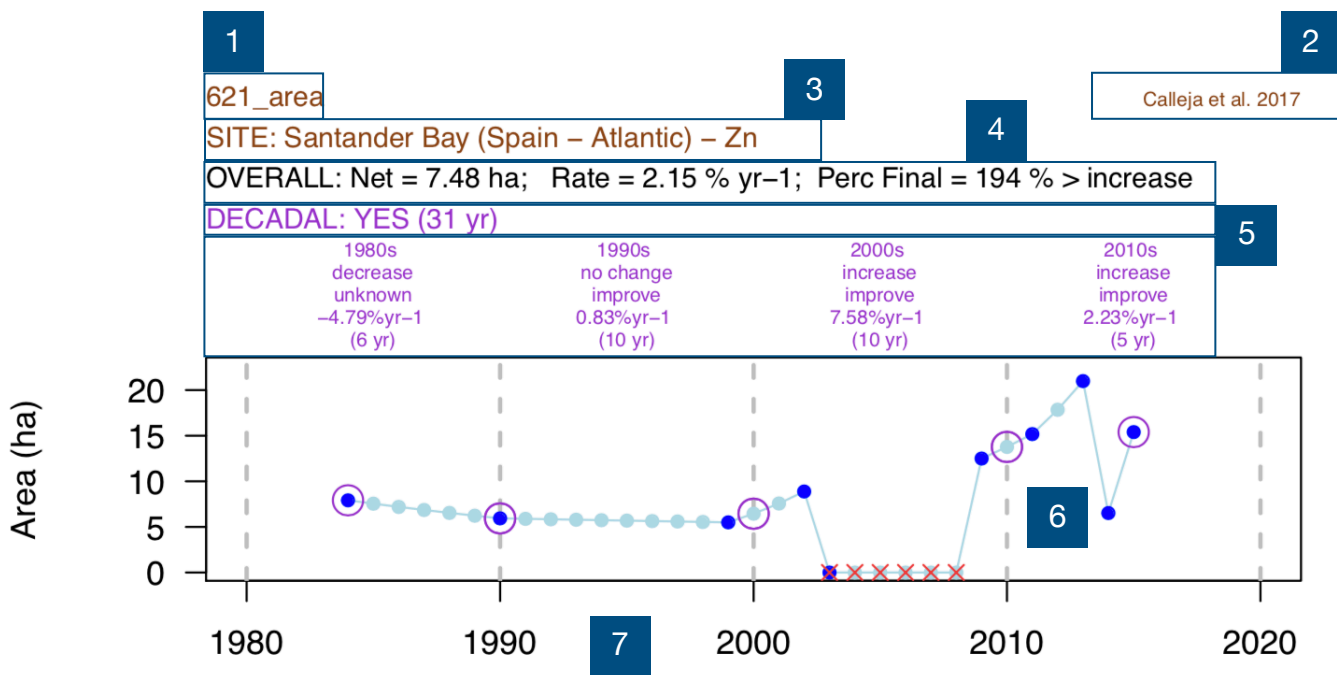


Supplementary Data 2. Visualisation of the compiled time-series of extent and/or density of seagrass sites in Europe, with time-windows from 1869 to 2016.

Elements in each figure are (see example below):

1. Code of the assessment (site ID_metric), as in Supplementary Data 1.
2. Code of the source, as in Supplementary Data 1.
3. Name of the site (country - region) - Species code (if known, depth in m).
4. Overall analysis: Net rate of change (units depend on the metric), specific rate of change (% yr-1), and percentage of change (%) for the overall time period (from first to last observation) > trajectory for the overall time period (decrease, increase, no change).
5. Decadal analysis: Whether the time-series is included or not in the decadal analysis (YES or NO). Time window is given between brackets (in years). Next lines shows: decade, trajectory for that decade using the observations at the decade boundaries, evolution of the trajectory (from previous decade), specific rate of change for that decade (% yr-1), and time window available for that decade.
6. Dark blue dots are observed values, light blue dots are interpolated values, purple circles show values used for the decadal calculations, red crosses indicate absence of seagrasses for that year (either based on observation or interpolations).
7. Grey dashed lines separate decades.



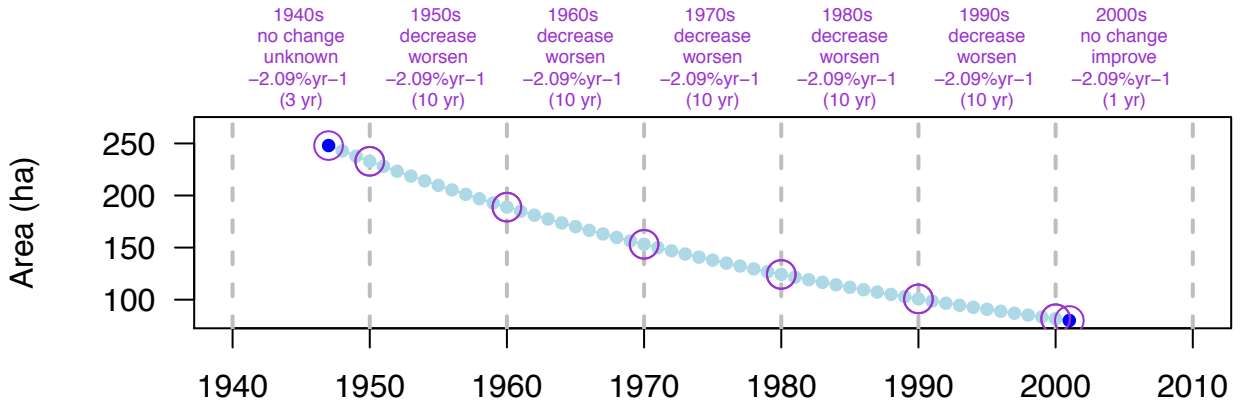
3_area

Cochón and Sánchez 2005

SITE: Ría de Pontevedra (Spain – Atlantic) – Zn (? m)

OVERALL: Net = -167.94 ha; Rate = -2.09 % yr⁻¹; Perc Final = 32 % > decrease

DECADAL: YES (54 yr)



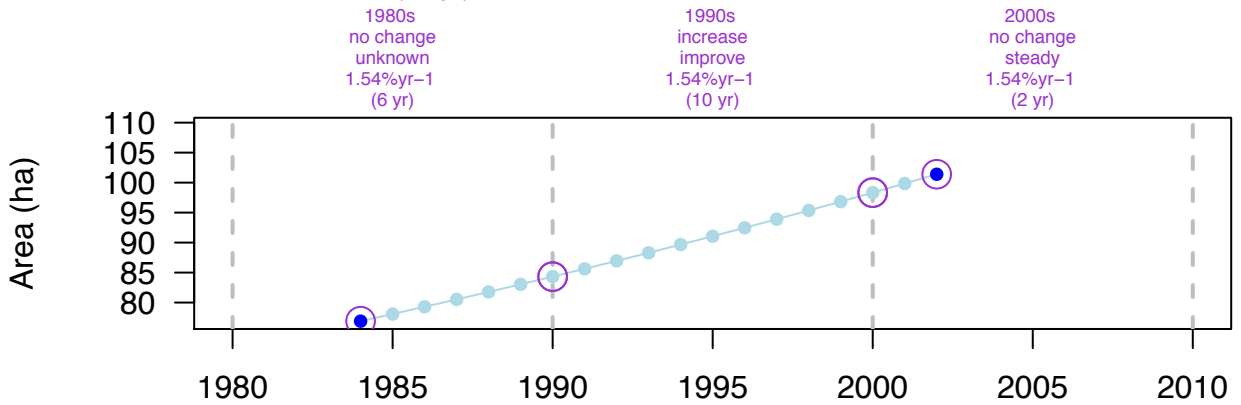
5_area

Castellanos et al. 2003

SITE: Ría de Foz (Spain – Atlantic) – Zn (? m)

OVERALL: Net = 24.5 ha; Rate = 1.54 % yr⁻¹; Perc Final = 132 % > increase

DECADAL: YES (18 yr)



7_lowerlimit

Whelan 1986 (in Hily et al. 2003)

SITE: Ventry Bay (Ireland – Atlantic) – Zm (–13 m)

OVERALL: Net = –3 m; Rate = –13.12 % yr⁻¹; Perc Final = 77 % > decrease

DECADAL: NO (2 yr)

Lower depth limit (m)



8_area

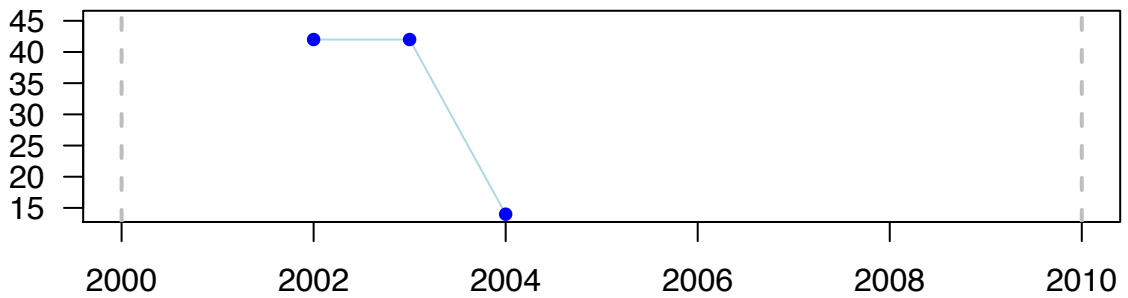
Tagliapietra et al. 1998, Rismonto and Mion 2008

SITE: Venice Lagoon (Italy – Mediterranean) – Zn (? m)

OVERALL: Net = –28 ha; Rate = –54.93 % yr⁻¹; Perc Final = 33 % > decrease

DECADAL: NO (2 yr)

Area (ha)



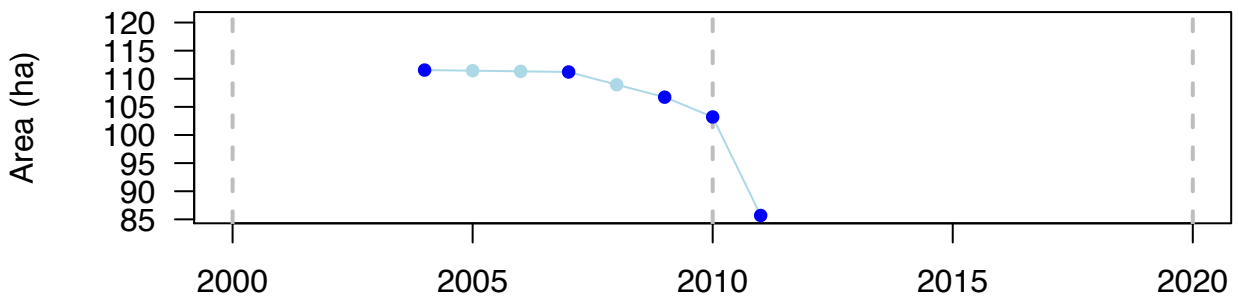
9_area

Arconada et al. 2013

SITE: Águilas (desalination plant) (Spain – Mediterranean) – Po (? m)

OVERALL: Net = -25.86 ha; Rate = -3.77 % yr⁻¹; Perc Final = 77 % > decrease

DECADAL: NO (7 yr)



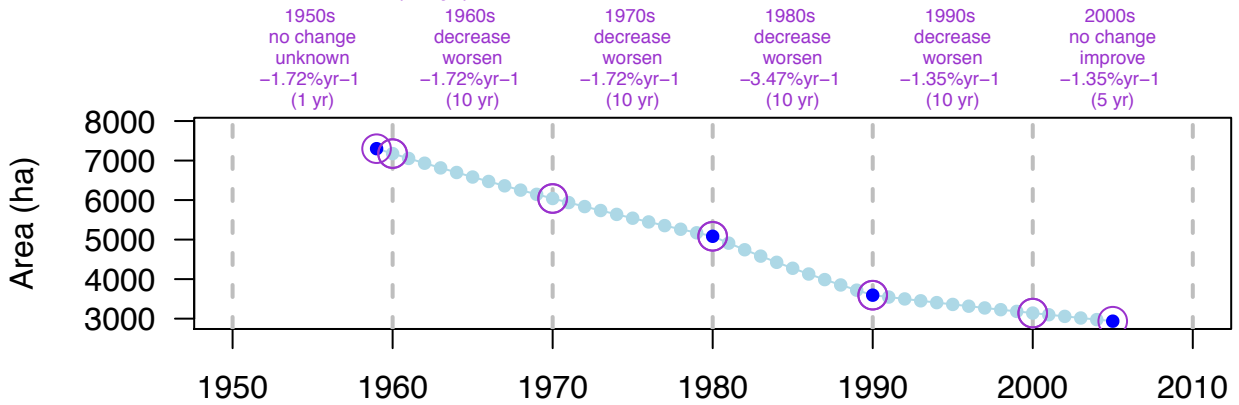
11_area

Ardizzone et al. 2006

SITE: Cape Circeo and Sperlonga (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -4364.8 ha; Rate = -1.98 % yr⁻¹; Perc Final = 40 % > decrease

DECADAL: YES (46 yr)



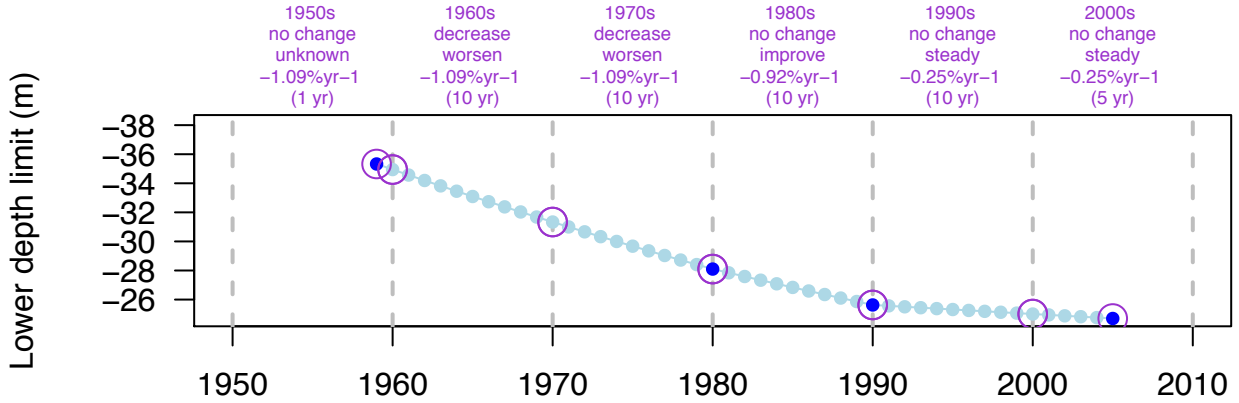
11_lowerlimit

Ardizzone et al. 2006

SITE: Cape Circeo and Sperlonga (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -10.63 m; Rate = -0.78 % yr⁻¹; Perc Final = 70 % > decrease

DECADAL: YES (46 yr)



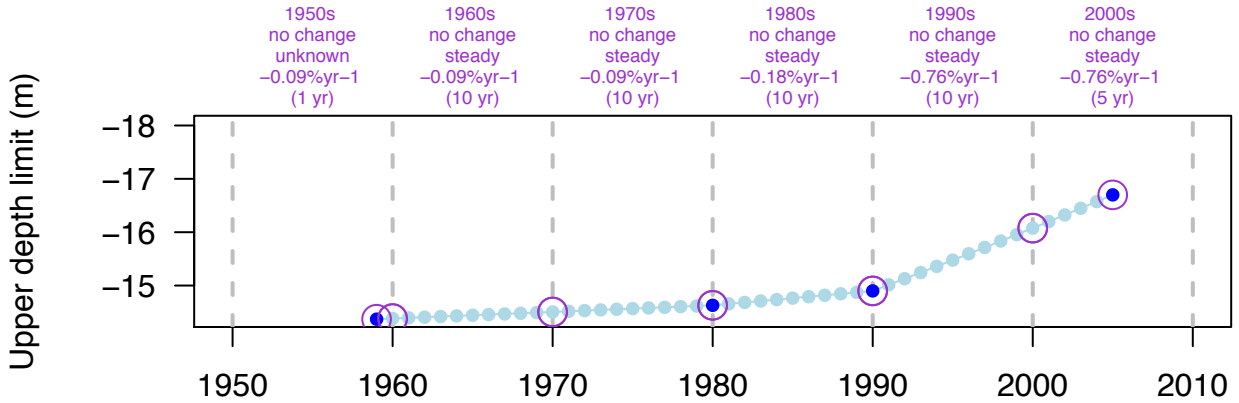
11_upperlimit

Ardizzone et al. 2006

SITE: Cape Circeo and Sperlonga (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -2.33 m; Rate = -0.33 % yr⁻¹; Perc Final = 86 % > decrease

DECADAL: YES (46 yr)



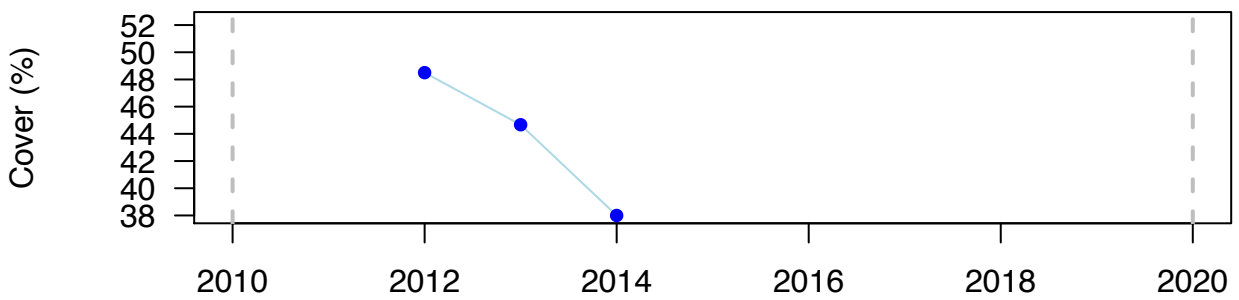
12_cover

Marbà et al. 2015

SITE: Agua Amarga (POS_08) (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = -10.5 %; Rate = -12.2 % yr⁻¹; Perc Final = 78 % > no change

DECADAL: NO (2 yr)



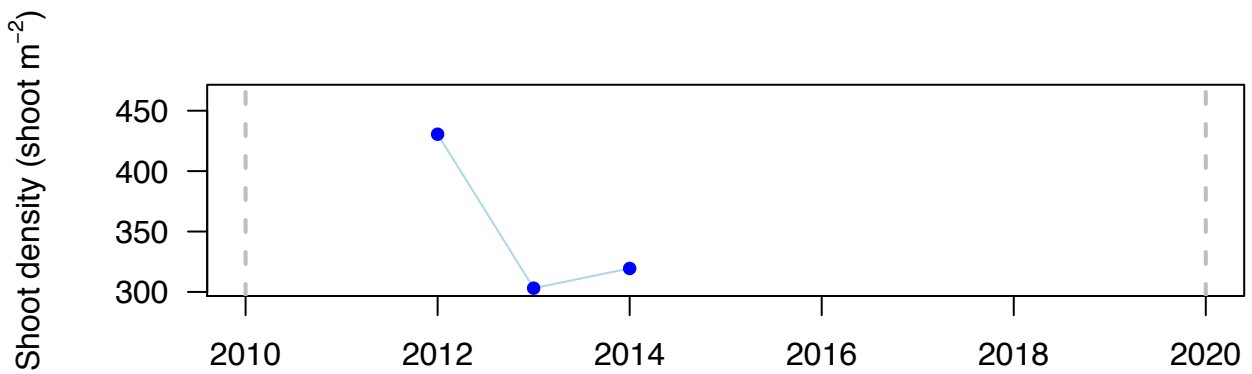
12_density

Marbà et al. 2015

SITE: Agua Amarga (POS_08) (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = -111.12 shoot m⁻²; Rate = -14.93 % yr⁻¹; Perc Final = 74 % > decrease

DECADAL: NO (2 yr)



13_density

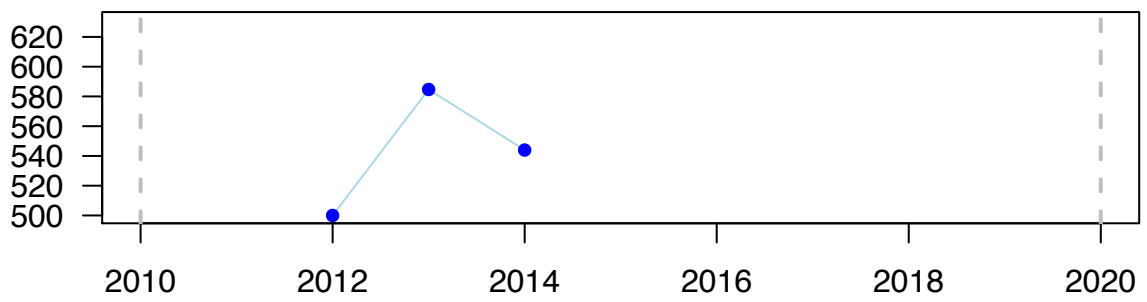
Marbà et al. 2015

SITE: Carnaje (POS_10) (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = 43.97 shoot m⁻²; Rate = 4.21 % yr⁻¹; Perc Final = 109 % > no change

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



14_cover

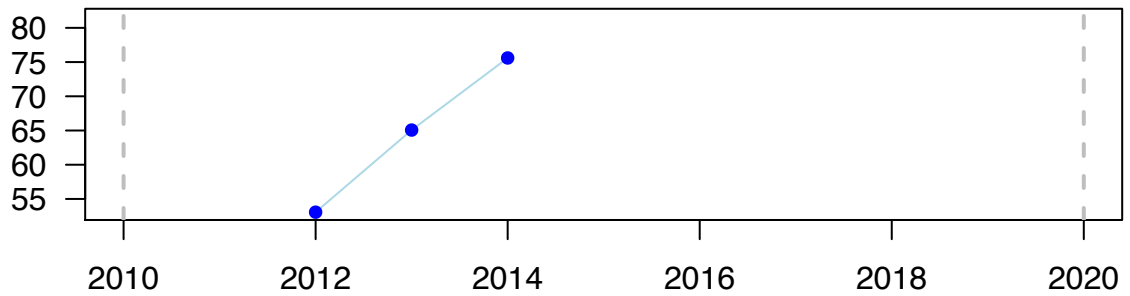
Marbà et al. 2015

SITE: Las Negras (POS_09) (Spain – Mediterranean) – Po (-11 m)

OVERALL: Net = 22.53 %; Rate = 17.69 % yr⁻¹; Perc Final = 142 % > increase

DECADAL: NO (2 yr)

Cover (%)



14_density

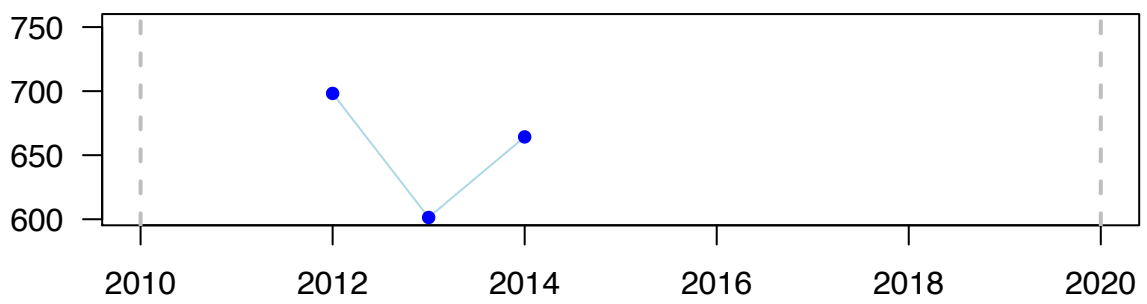
Marbà et al. 2015

SITE: Las Negras (POS_09) (Spain – Mediterranean) – Po (-11 m)

OVERALL: Net = -33.92 shoot m⁻²; Rate = -2.49 % yr⁻¹; Perc Final = 95 % > no change

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



15_cover

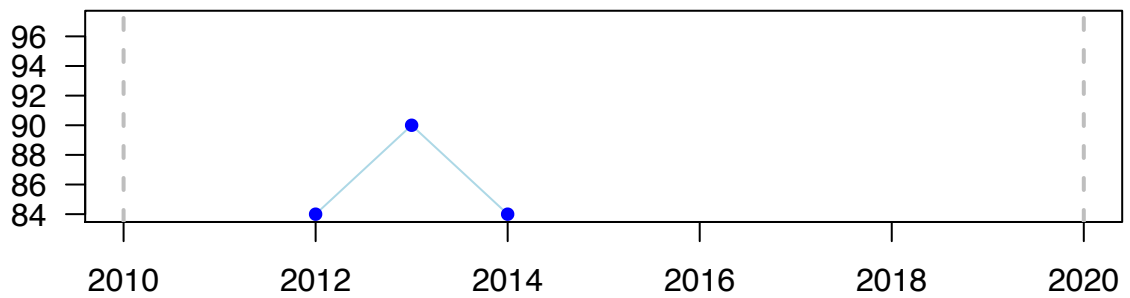
Marbà et al. 2015

SITE: Los Escullos (POS_11) (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = 0 %; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (2 yr)

Cover (%)



15_density

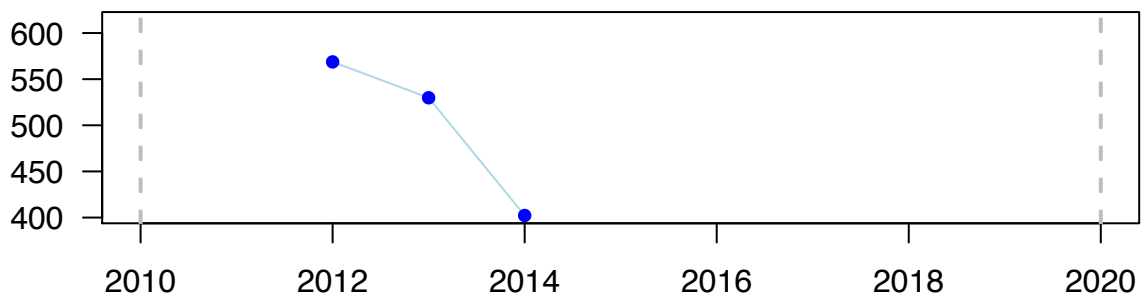
Marbà et al. 2015

SITE: Los Escullos (POS_11) (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = -166.48 shoot m⁻²; Rate = -17.32 % yr⁻¹; Perc Final = 71 % > decrease

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



16_cover

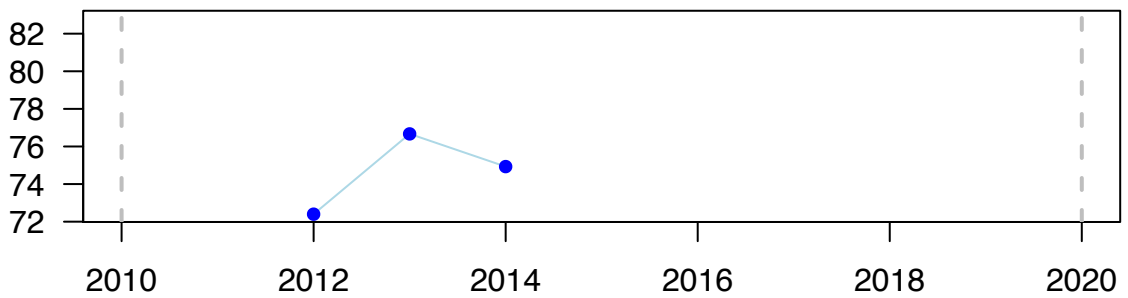
Marbà et al. 2015

SITE: Bajos de Roquetas (POS_12) (Spain – Mediterranean) – Po (-11.5 m)

OVERALL: Net = 2.53 %; Rate = 1.72 % yr⁻¹; Perc Final = 103 % > no change

DECADAL: NO (2 yr)

Cover (%)



16_density

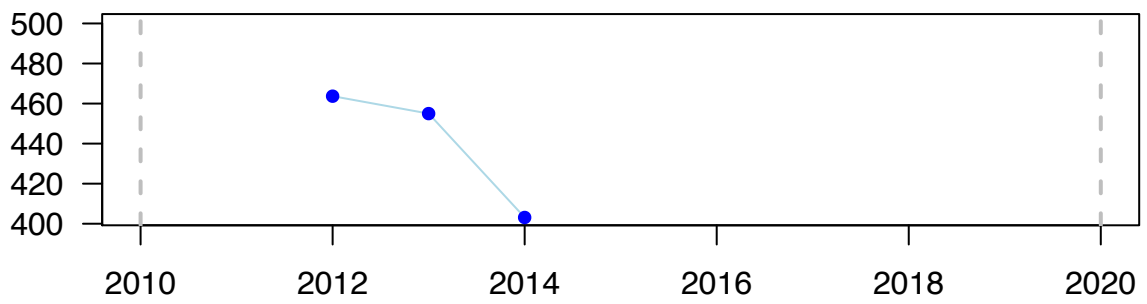
Marbà et al. 2015

SITE: Bajos de Roquetas (POS_12) (Spain – Mediterranean) – Po (-11.5 m)

OVERALL: Net = -60.56 shoot m⁻²; Rate = -7 % yr⁻¹; Perc Final = 87 % > no change

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



17_cover

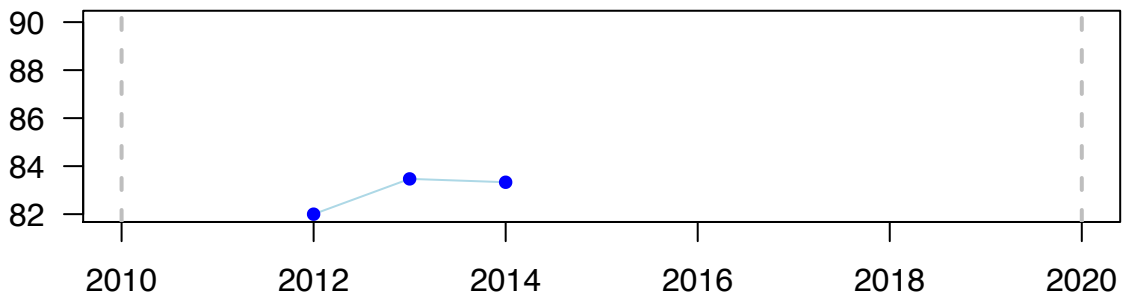
Marbà et al. 2015

SITE: Punta Entinas (POS_14) (Spain – Mediterranean) – Po (-11 m)

OVERALL: Net = 1.33 %; Rate = 0.8 % yr⁻¹; Perc Final = 102 % > no change

DECADAL: NO (2 yr)

Cover (%)



17_density

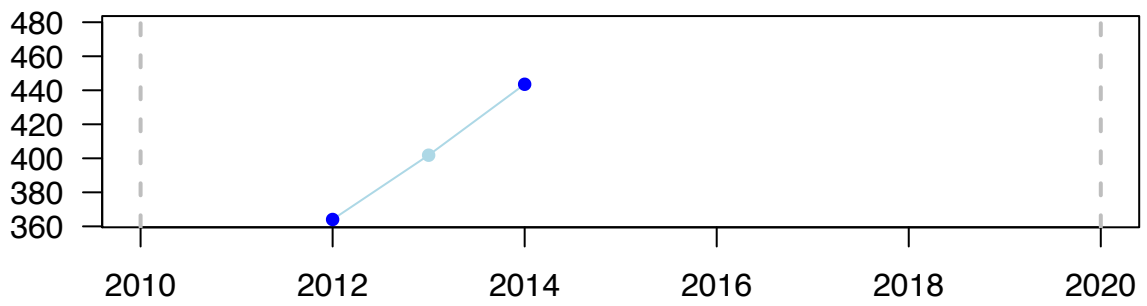
Marbà et al. 2015

SITE: Punta Entinas (POS_14) (Spain – Mediterranean) – Po (-11 m)

OVERALL: Net = 79.49 shoot m⁻²; Rate = 9.87 % yr⁻¹; Perc Final = 122 % > no change

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



18_cover

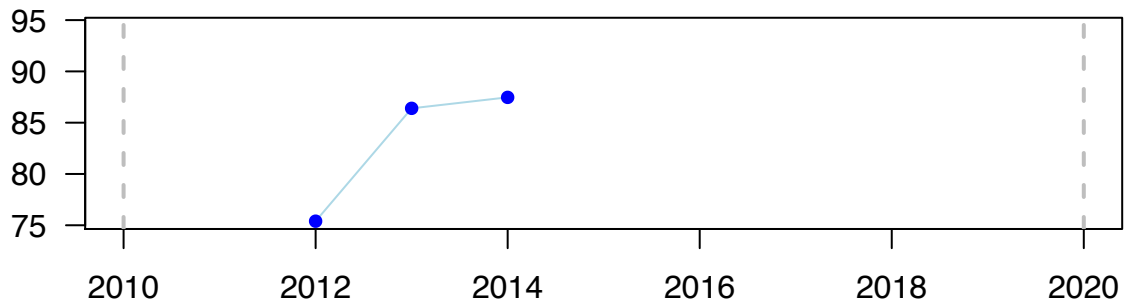
Marbà et al. 2015

SITE: Cocedores (POS_01) (Spain – Mediterranean) – Po (-11 m)

OVERALL: Net = 12.07 %; Rate = 7.42 % yr⁻¹; Perc Final = 116 % > no change

DECADAL: NO (2 yr)

Cover (%)



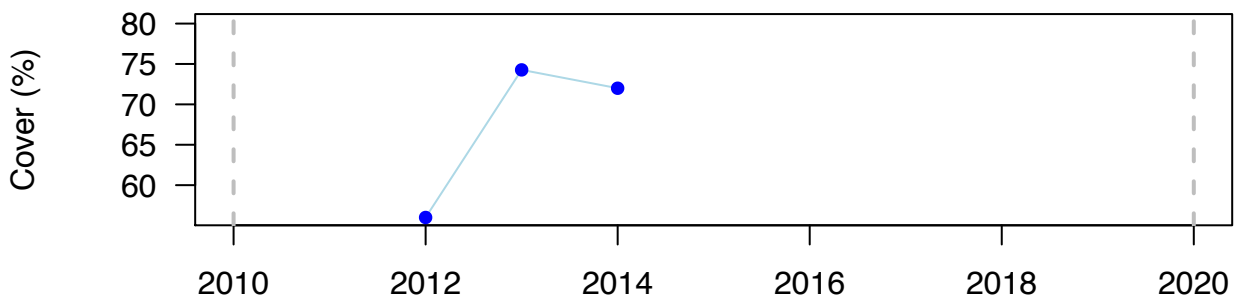
19_cover

Marbà et al. 2015

SITE: Isla de Terreros (POS_02) (Spain – Mediterranean) – Po (-11 m)

OVERALL: Net = 16 %; Rate = 12.57 % yr⁻¹; Perc Final = 129 % > increase

DECADAL: NO (2 yr)



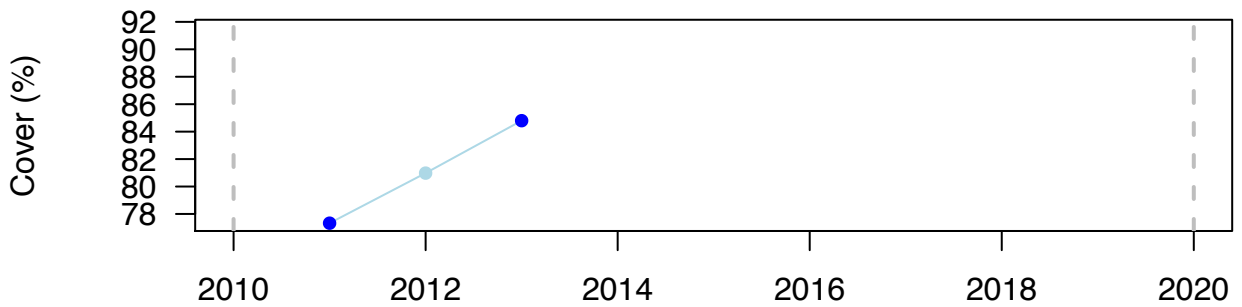
20_cover

Marbà et al. 2015

SITE: Pozo de Esparto (POS_03) (Spain – Mediterranean) – Po (-12.5 m)

OVERALL: Net = 7.47 %; Rate = 4.61 % yr⁻¹; Perc Final = 110 % > no change

DECADAL: NO (2 yr)



20_density

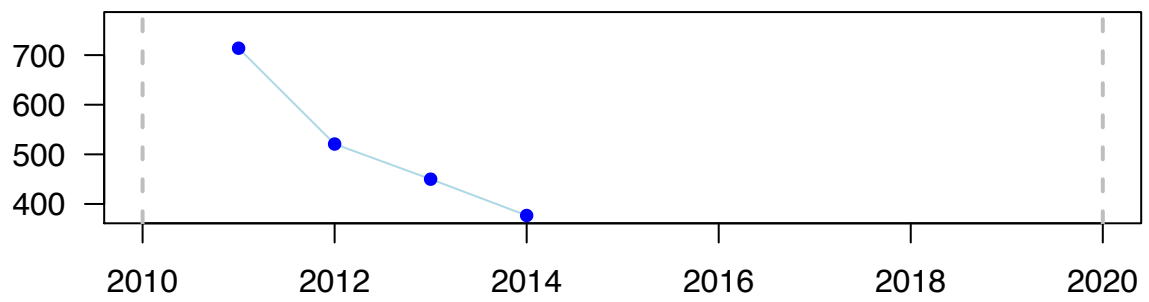
Marbà et al. 2015

SITE: Pozo de Esparto (POS_03) (Spain – Mediterranean) – Po (-12.5 m)

OVERALL: Net = -337.04 shoot m⁻²; Rate = -21.3 % yr⁻¹; Perc Final = 53 % > decrease

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



21_cover

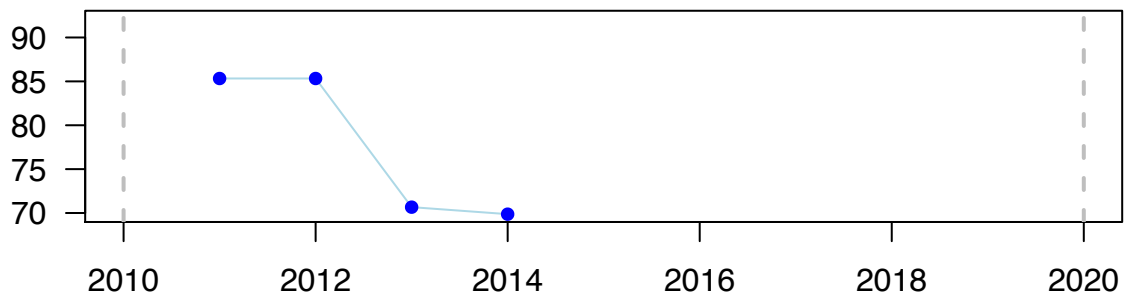
Marbà et al. 2015

SITE: El Calón (POS_04) (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = -15.46 %; Rate = -6.66 % yr⁻¹; Perc Final = 82 % > no change

DECADAL: NO (3 yr)

Cover (%)



21_density

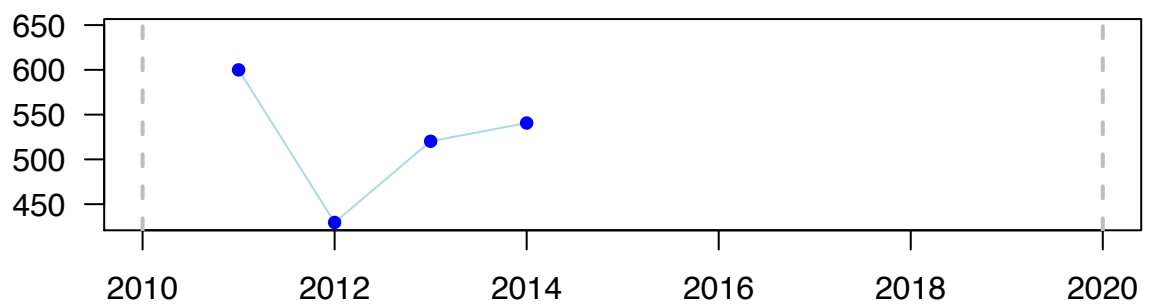
Marbà et al. 2015

SITE: El Calón (POS_04) (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = -59.37 shoot m⁻²; Rate = -3.47 % yr⁻¹; Perc Final = 90 % > no change

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



22_cover

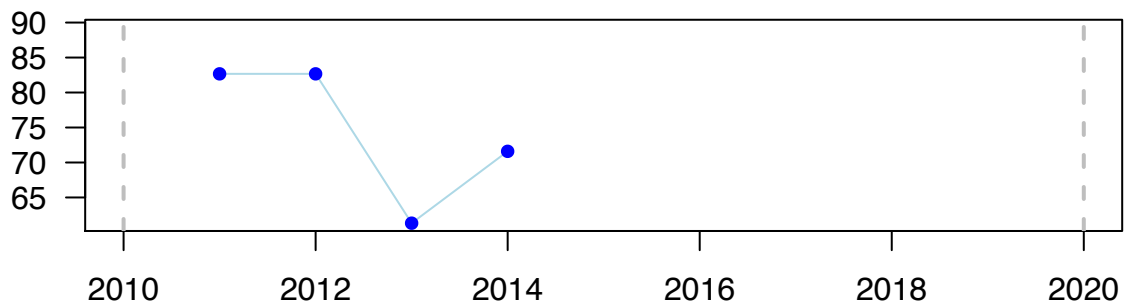
Marbà et al. 2015

SITE: Loza del Payo (POS_05) (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = -11.07 %; Rate = -4.79 % yr⁻¹; Perc Final = 87 % > no change

DECADAL: NO (3 yr)

Cover (%)



22_density

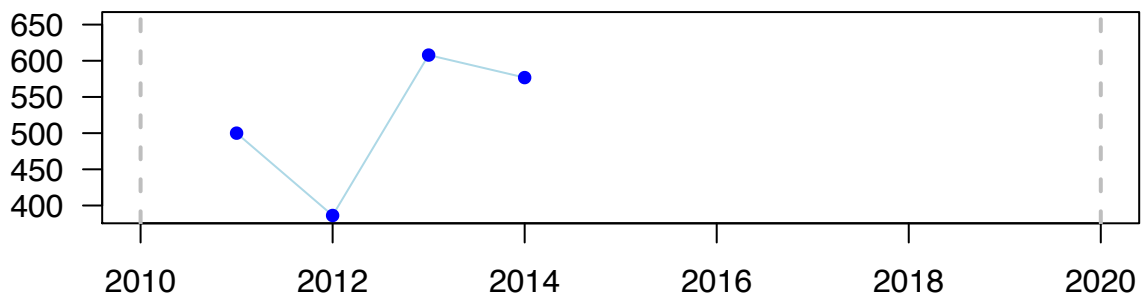
Marbà et al. 2015

SITE: Loza del Payo (POS_05) (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = 76.79 shoot m⁻²; Rate = 4.76 % yr⁻¹; Perc Final = 115 % > no change

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



23_cover

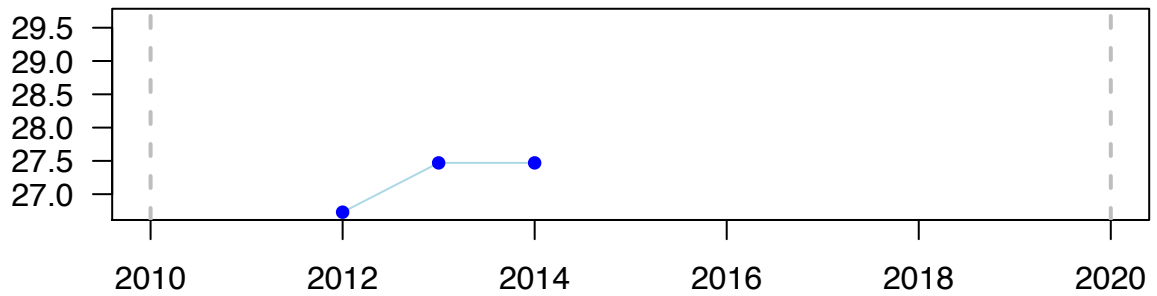
Marbà et al. 2015

SITE: Deretil (POS_06) (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = 0.74 %; Rate = 1.37 % yr⁻¹; Perc Final = 103 % > no change

DECADAL: NO (2 yr)

Cover (%)



23_density

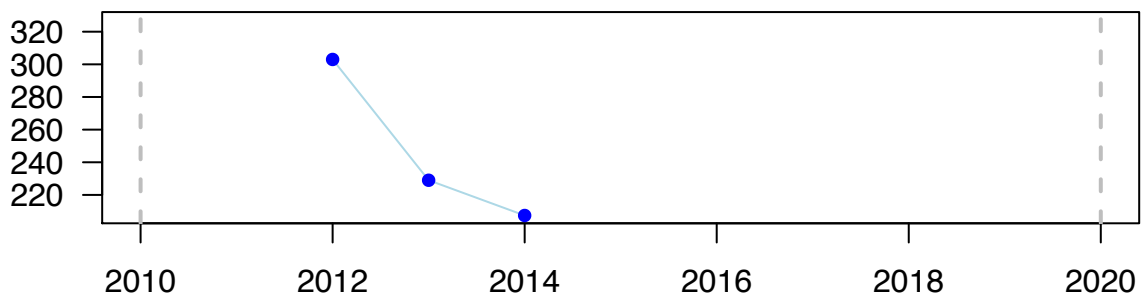
Marbà et al. 2015

SITE: Deretil (POS_06) (Spain – Mediterranean) – Po (–12 m)

OVERALL: Net = –95.59 shoot m⁻²; Rate = –18.95 % yr⁻¹; Perc Final = 68 % > decrease

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



24_cover

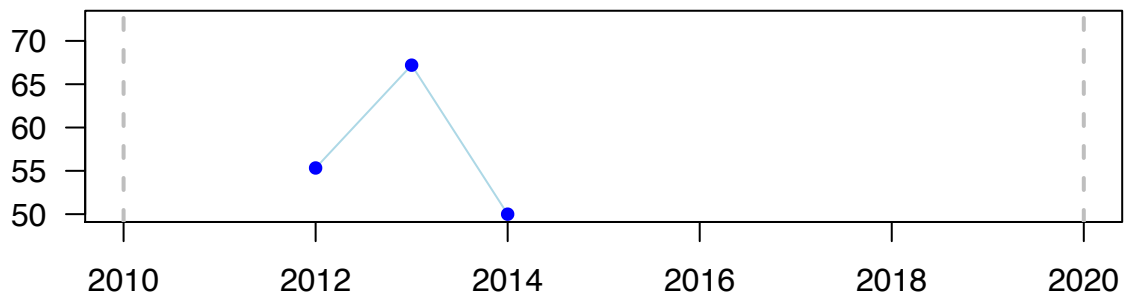
Marbà et al. 2015

SITE: Isla de San Andrés (POS_07) (Spain – Mediterranean) – Po (–12 m)

OVERALL: Net = –5.33 %; Rate = –5.06 % yr⁻¹; Perc Final = 90 % > no change

DECADAL: NO (2 yr)

Cover (%)



24_density

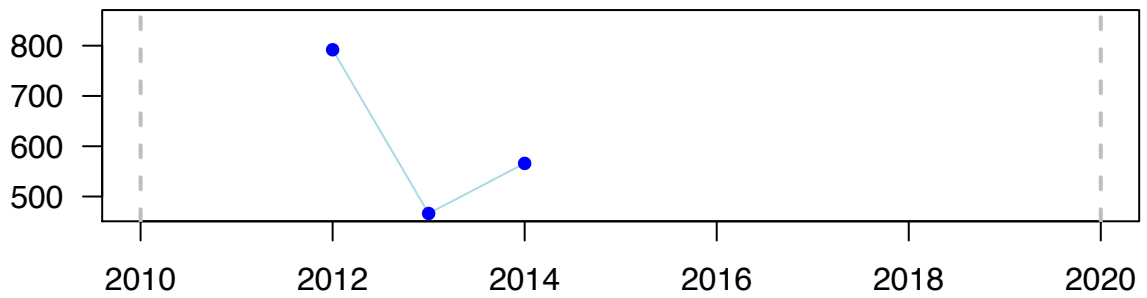
Marbà et al. 2015

SITE: Isla de San Andrés (POS_07) (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = -226.03 shoot m⁻²; Rate = -16.8 % yr⁻¹; Perc Final = 71 % > decrease

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



25_biomass

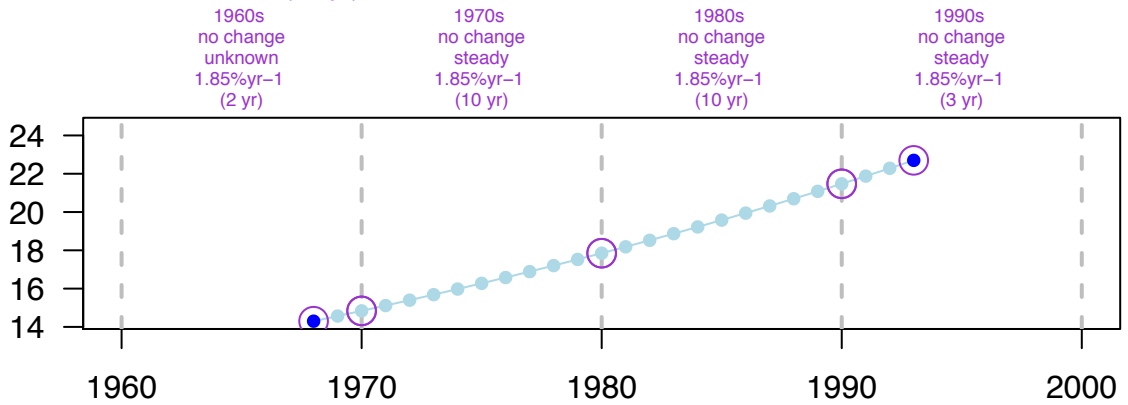
Boström et al. 2002

SITE: Hangö Peninsula (dense) (Finland – Baltic) – Zm (-4 m)

OVERALL: Net = 8.4 g dw m⁻²; Rate = 1.85 % yr⁻¹; Perc Final = 159 % > increase

DECADAL: YES (25 yr)

Total biomass (g dw m⁻²)



26_biomass

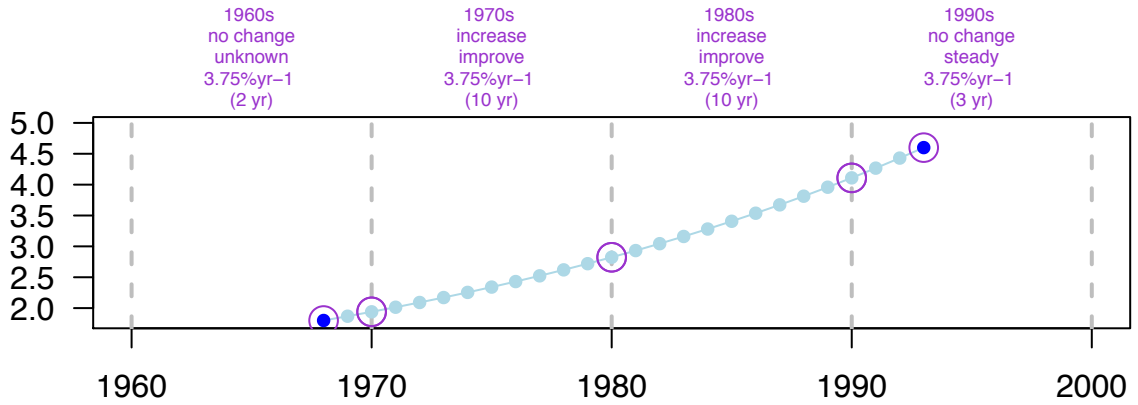
Boström et al. 2002

SITE: Hangö Peninsula (sparce) (Finland – Baltic) – Zm (-4 m)

OVERALL: Net = 2.8 g dw m⁻²; Rate = 3.75 % yr⁻¹; Perc Final = 256 % > increase

DECADAL: YES (25 yr)

Total biomass (g dw m⁻²)



26_density

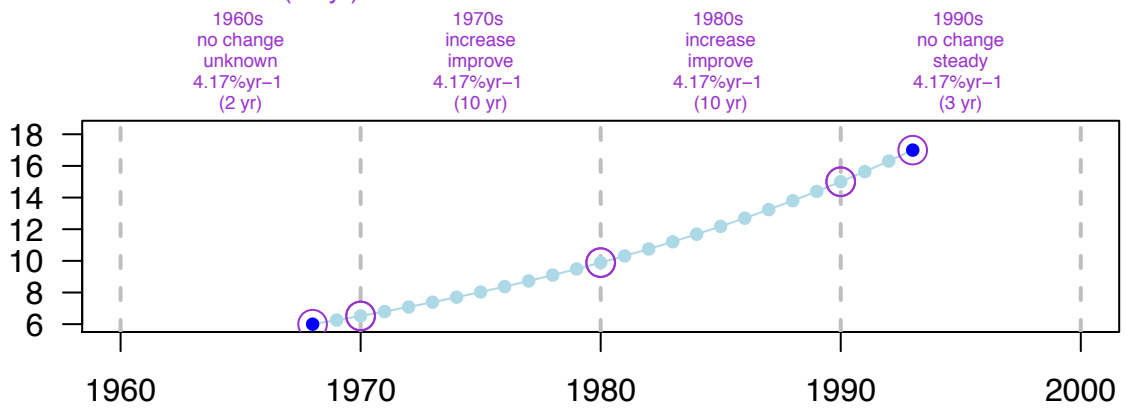
Boström et al. 2002

SITE: Hangö Peninsula (sparce) (Finland – Baltic) – Zm (-4 m)

OVERALL: Net = 11 shoot m⁻²; Rate = 4.17 % yr⁻¹; Perc Final = 283 % > increase

DECADAL: YES (25 yr)

Shoot density (shoot m⁻²)



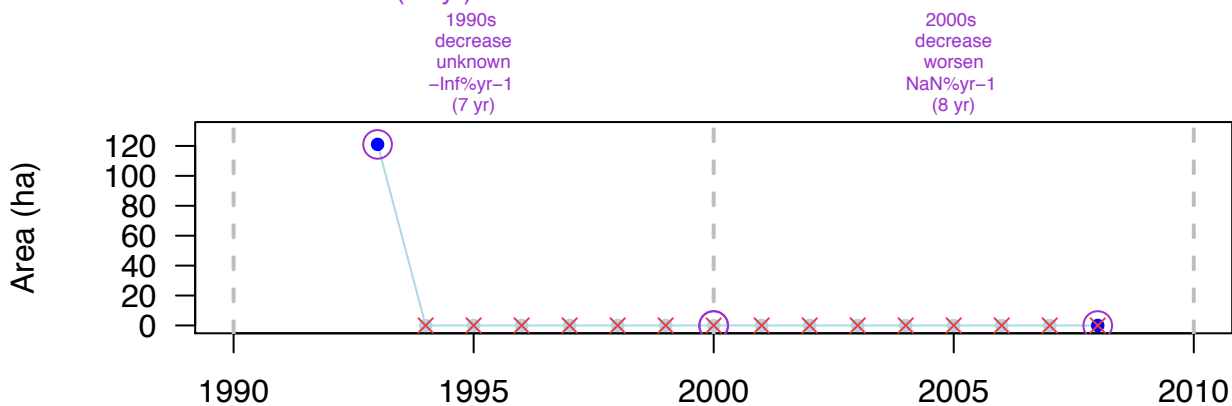
27_area

Bull et al. 2010

SITE: Gibraltar (United Kingdom – Mediterranean) – Zm (? m)

OVERALL: Net = -121.05 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (15 yr)



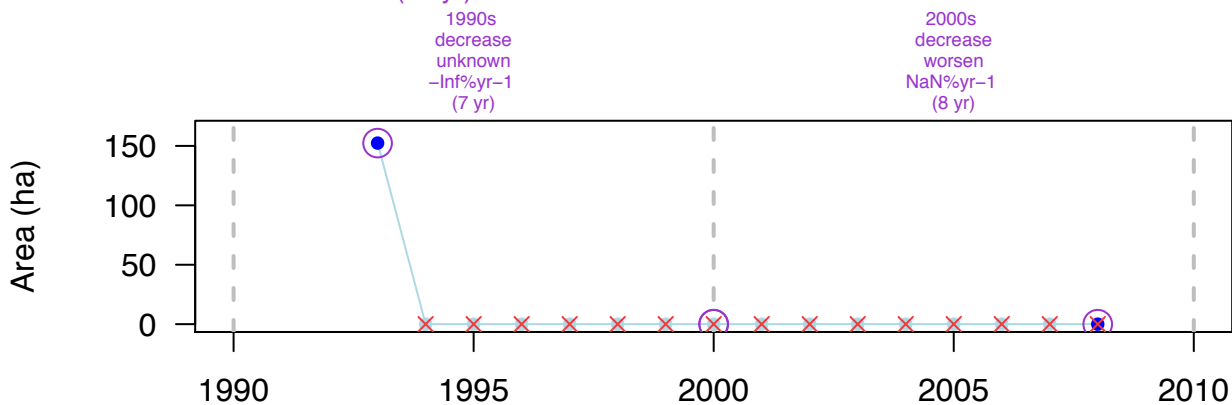
28_area

Bull et al. 2010

SITE: Gibraltar (United Kingdom – Mediterranean) – Po (? m)

OVERALL: Net = -152.41 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (15 yr)



29_density

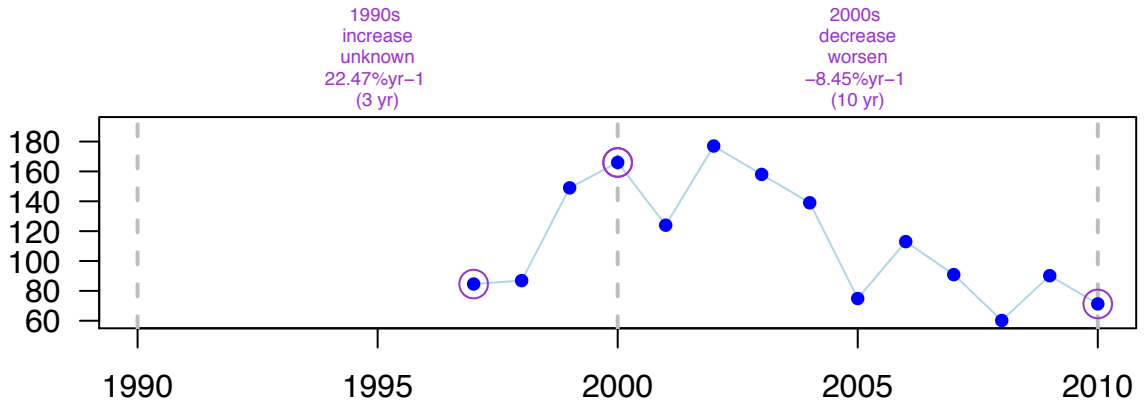
Bull et al. 2012

SITE: Broad Ledges (United Kingdom – Atlantic) – Zm (-0.2 m)

OVERALL: Net = -13.3 shoot m⁻²; Rate = -1.32 % yr⁻¹; Perc Final = 84 % > no change

DECADAL: YES (13 yr)

Shoot density (shoot m⁻²)



30_density

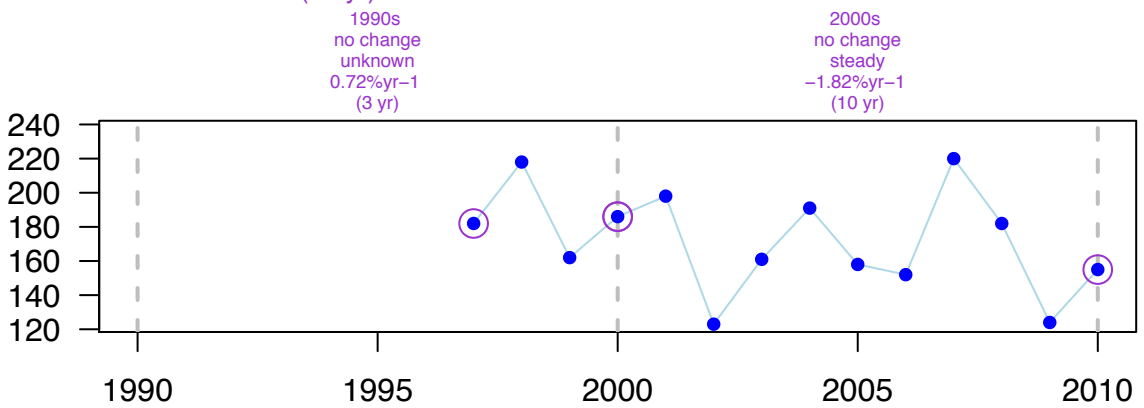
Bull et al. 2012

SITE: Higher Town Bay (United Kingdom – Atlantic) – Zm (0.5 m)

OVERALL: Net = -27 shoot m⁻²; Rate = -1.24 % yr⁻¹; Perc Final = 85 % > no change

DECADAL: YES (13 yr)

Shoot density (shoot m⁻²)



31_density

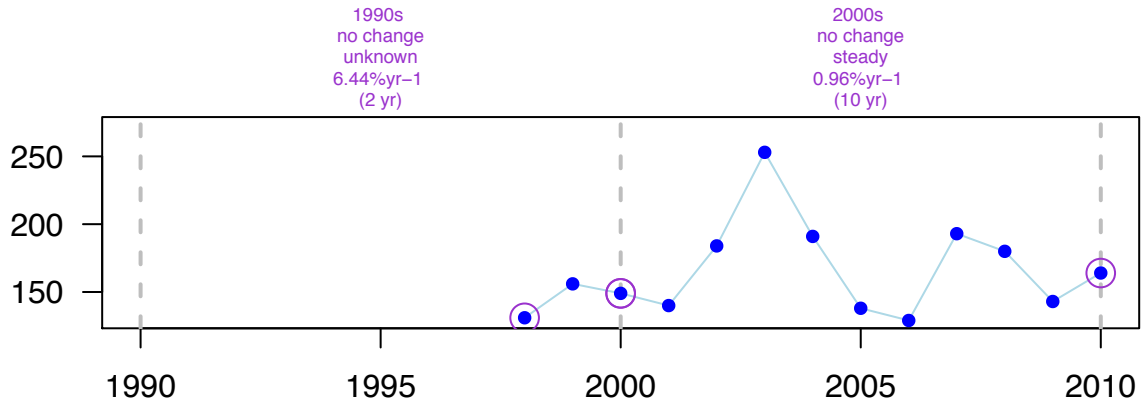
Bull et al. 2012

SITE: Little Arthur (United Kingdom – Atlantic) – Zm (-1 m)

OVERALL: Net = 33 shoot m⁻²; Rate = 1.87 % yr⁻¹; Perc Final = 125 % > increase

DECADAL: YES (12 yr)

Shoot density (shoot m⁻²)



32_density

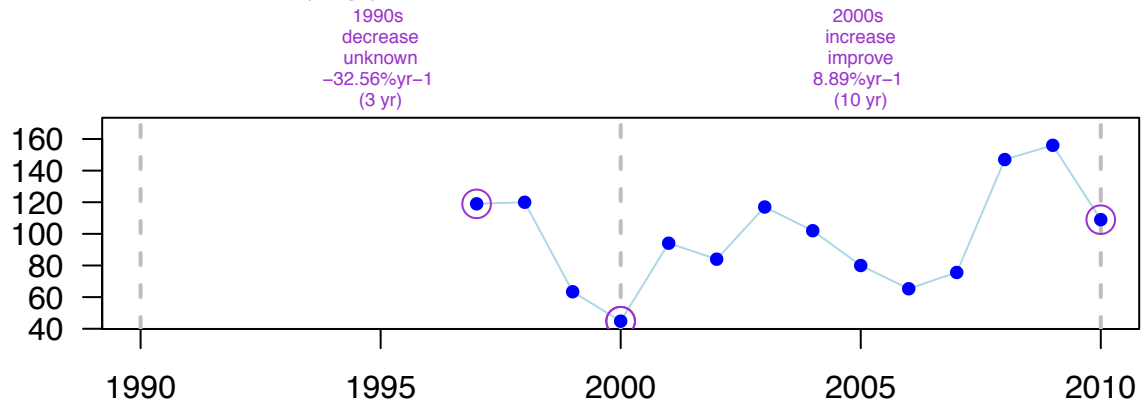
Bull et al. 2012

SITE: Old Grimsby Harbour (United Kingdom – Atlantic) – Zm (-0.6 m)

OVERALL: Net = -10 shoot m⁻²; Rate = -0.68 % yr⁻¹; Perc Final = 92 % > no change

DECADAL: YES (13 yr)

Shoot density (shoot m⁻²)



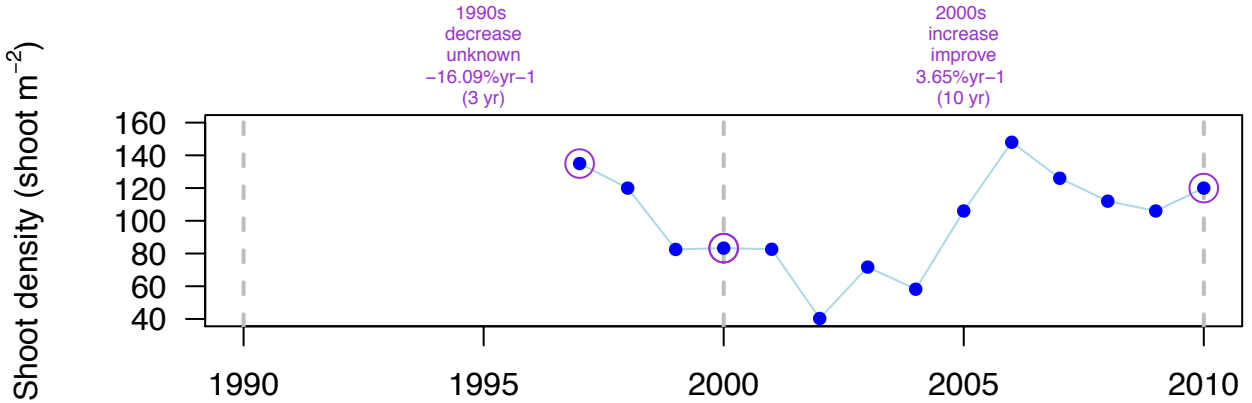
33_density

Bull et al. 2012

SITE: West Broad Ledges (United Kingdom – Atlantic) – Zm (–0.6 m)

OVERALL: Net = –15 shoot m⁻²; Rate = –0.91 % yr⁻¹; Perc Final = 89 % > no change

DECADAL: YES (13 yr)



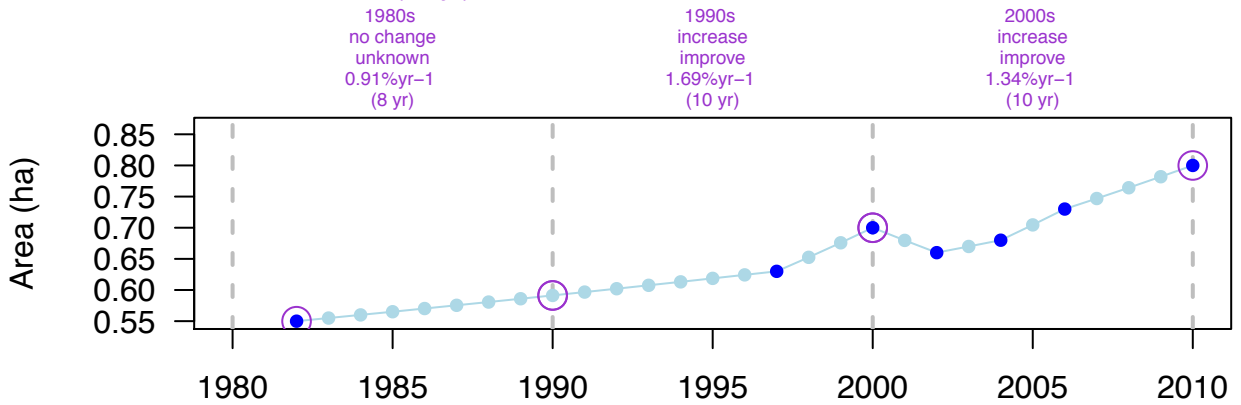
34_area

Burton et al. 2010

SITE: North Haven (Skomer) (United Kingdom – Atlantic) – Zm (? m)

OVERALL: Net = 0.25 ha; Rate = 1.34 % yr⁻¹; Perc Final = 145 % > increase

DECADAL: YES (28 yr)



34_density

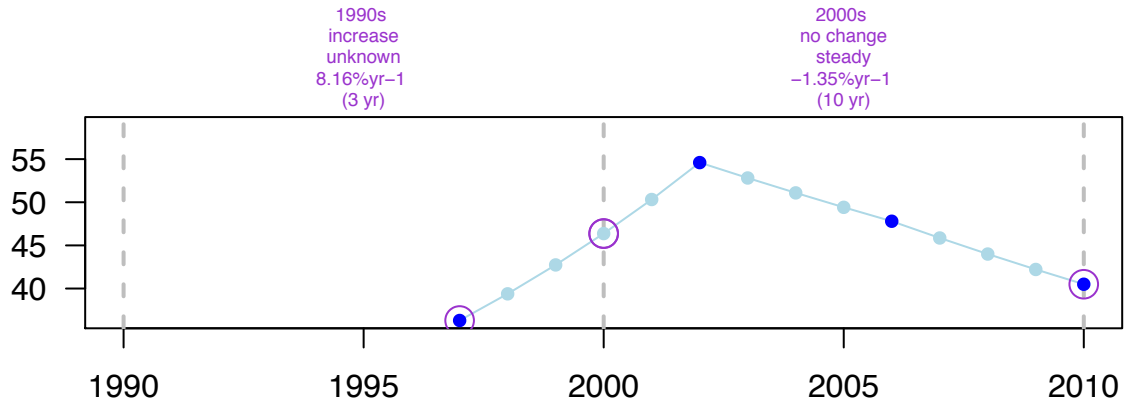
Burton et al. 2010

SITE: North Haven (Skomer) (United Kingdom – Atlantic) – Zm (? m)

OVERALL: Net = 4.2 shoot m⁻²; Rate = 0.84 % yr⁻¹; Perc Final = 112 % > no change

DECADAL: YES (13 yr)

Shoot density (shoot m⁻²)



35_area

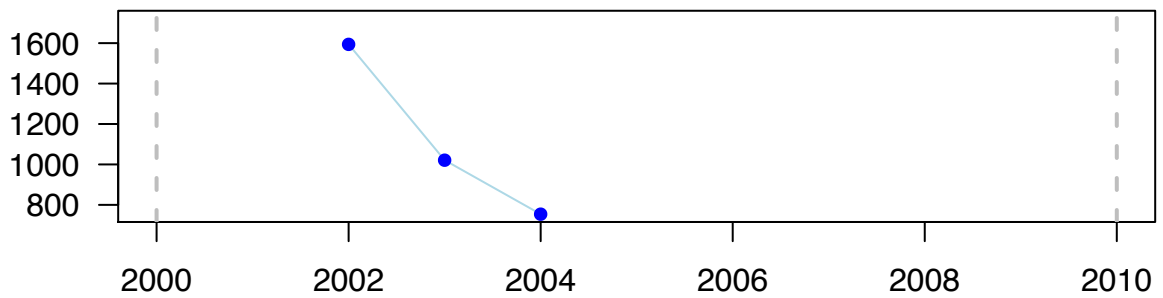
Rismondo and Mion 2008

SITE: Venice Lagoon (Italy – Mediterranean) – Zm (-1 m)

OVERALL: Net = -840 ha; Rate = -37.43 % yr⁻¹; Perc Final = 47 % > decrease

DECADAL: NO (2 yr)

Area (ha)



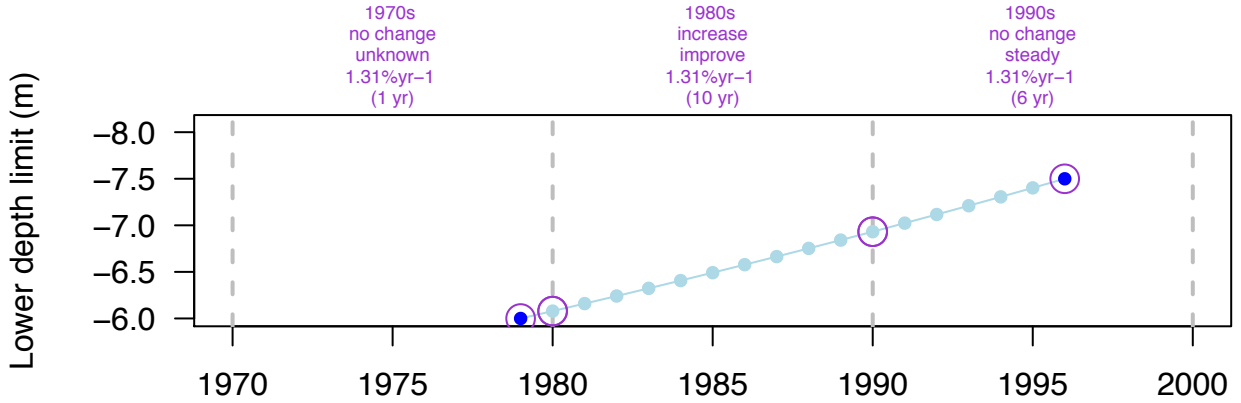
37_lowerlimit

Rask et al. 1999

SITE: South Funen Archipelago (Denmark – Baltic) – Zm (? m)

OVERALL: Net = 1.5 m; Rate = 1.31 % yr⁻¹; Perc Final = 125 % > increase

DECADAL: YES (17 yr)



45_biomass

Plus et al. 2003

SITE: Thau Lagoon (France – Mediterranean) – Zm (-4.2 m)

OVERALL: Net = 29.8 g dw m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: NO (2 yr)



45_density

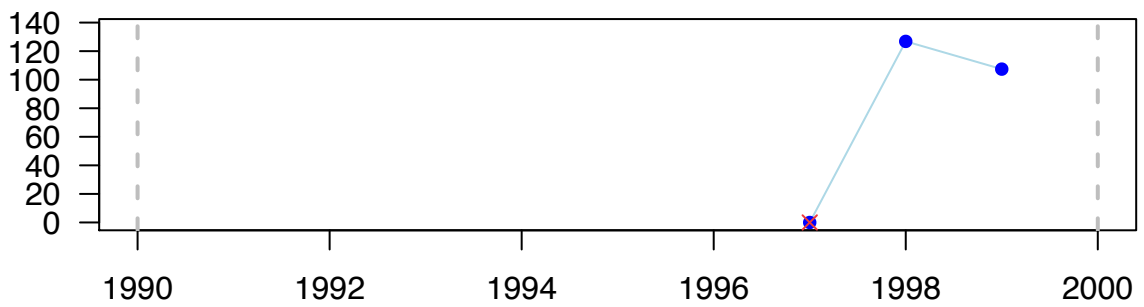
Plus et al. 2003

SITE: Thau Lagoon (France – Mediterranean) – Zm (-4.2 m)

OVERALL: Net = 107.41 shoot m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



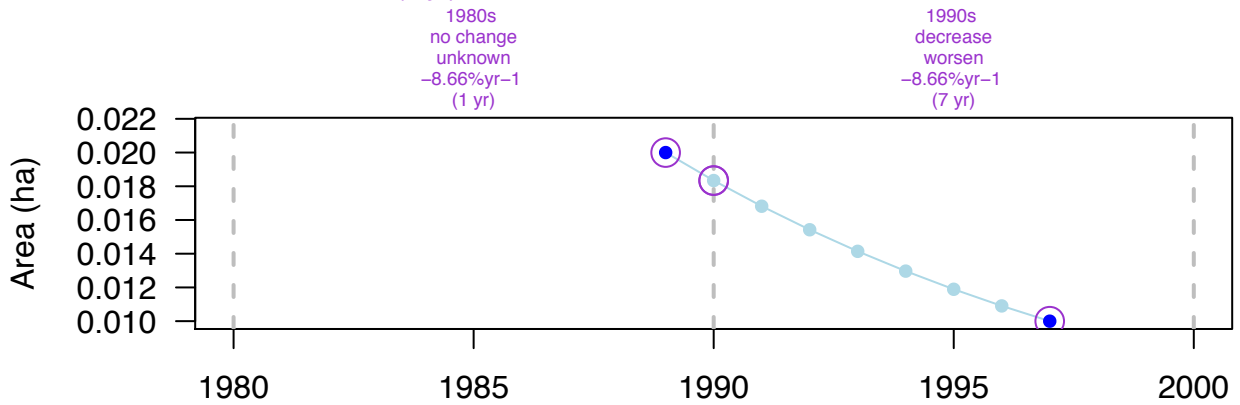
46_area

Ballesta et al. 2000

SITE: Pin Parasol Cove (France – Mediterranean) – Po (? m)

OVERALL: Net = -0.01 ha; Rate = -8.66 % yr⁻¹; Perc Final = 50 % > decrease

DECADAL: YES (8 yr)



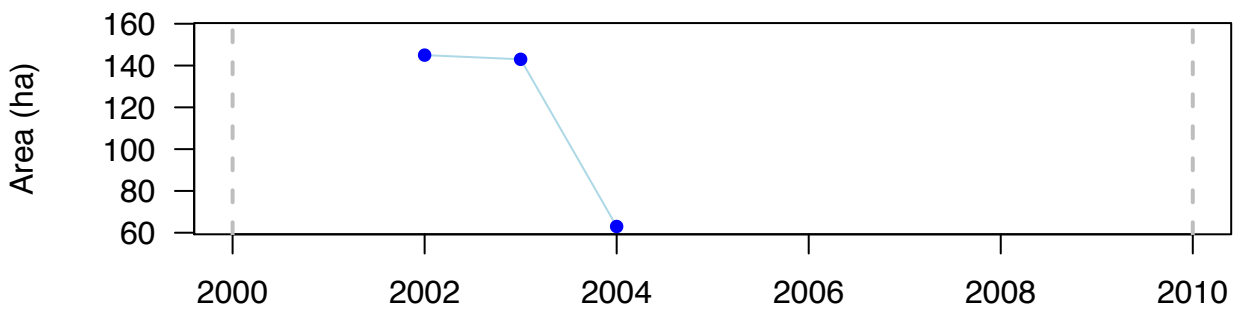
47_area

Rismondo and Mion 2008

SITE: Venice Lagoon (Italy – Mediterranean) – Cn (? m)

OVERALL: Net = -82 ha; Rate = -41.68 % yr⁻¹; Perc Final = 43 % > decrease

DECADAL: NO (2 yr)



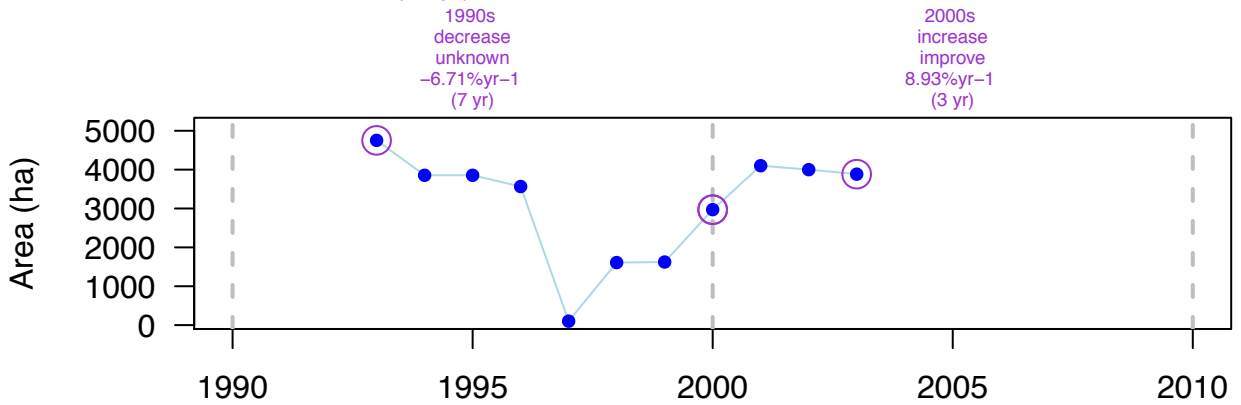
48_area

Charpentier et al. 2005

SITE: Vaccarès Lagoon (France – Mediterranean) – Zn (? m)

OVERALL: Net = -869.5 ha; Rate = -2.02 % yr⁻¹; Perc Final = 82 % > decrease

DECADAL: YES (10 yr)



48_lowerlimit

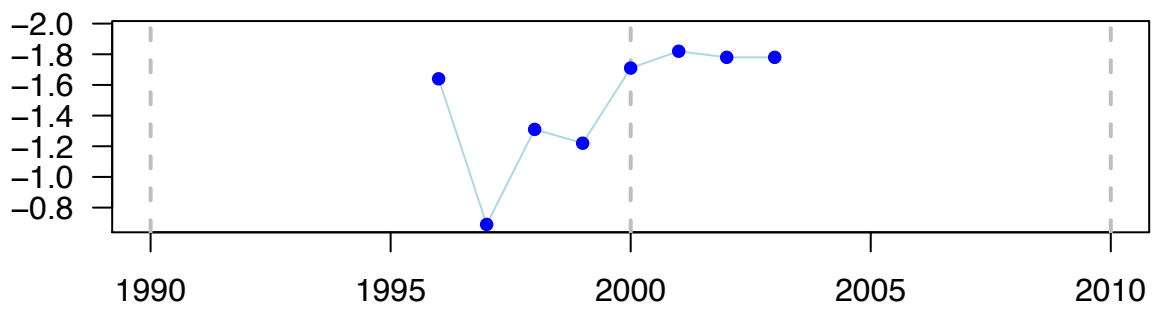
Charpentier et al. 2005

SITE: Vaccarès Lagoon (France – Mediterranean) – Zn (? m)

OVERALL: Net = 0.14 m; Rate = 1.17 % yr⁻¹; Perc Final = 109 % > no change

DECADAL: NO (7 yr)

Lower depth limit (m)



49_area

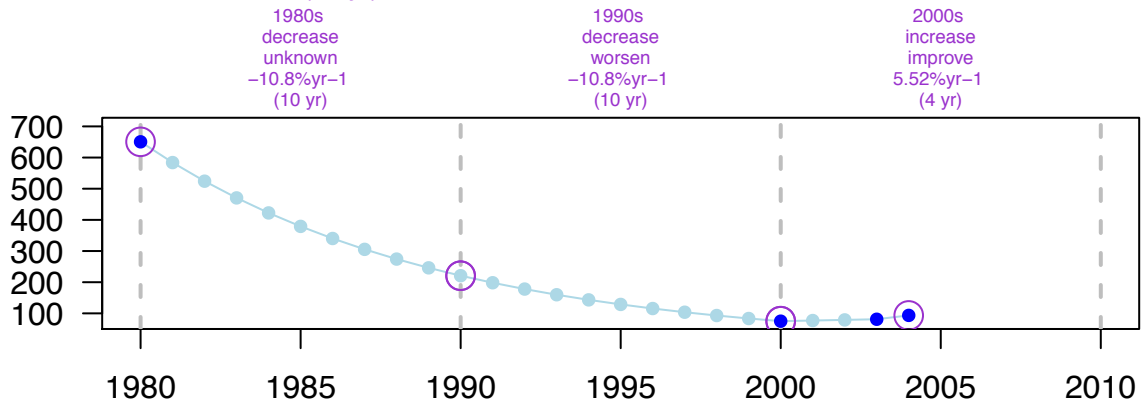
Nyqvist et al. 2009, Baden et al. 2003

SITE: Kungälv (Sweden – Baltic) – Zm (? m)

OVERALL: Net = -557.03 ha; Rate = -8.08 % yr⁻¹; Perc Final = 14 % > decrease

DECADAL: YES (24 yr)

Area (ha)



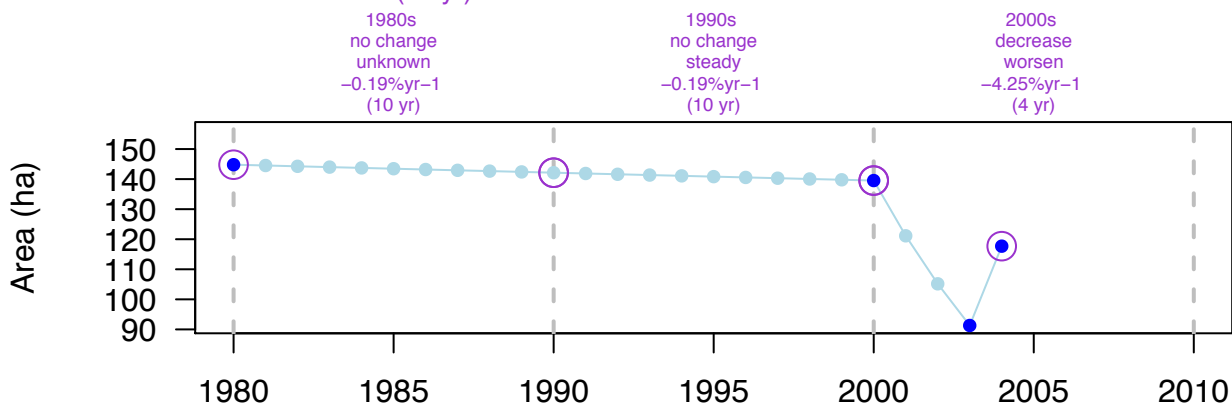
50_area

Nyqvist et al. 2009

SITE: Lysekil (Sweden – Baltic) – Zm (? m)

OVERALL: Net = -27.1 ha; Rate = -0.86 % yr⁻¹; Perc Final = 81 % > decrease

DECADAL: YES (24 yr)



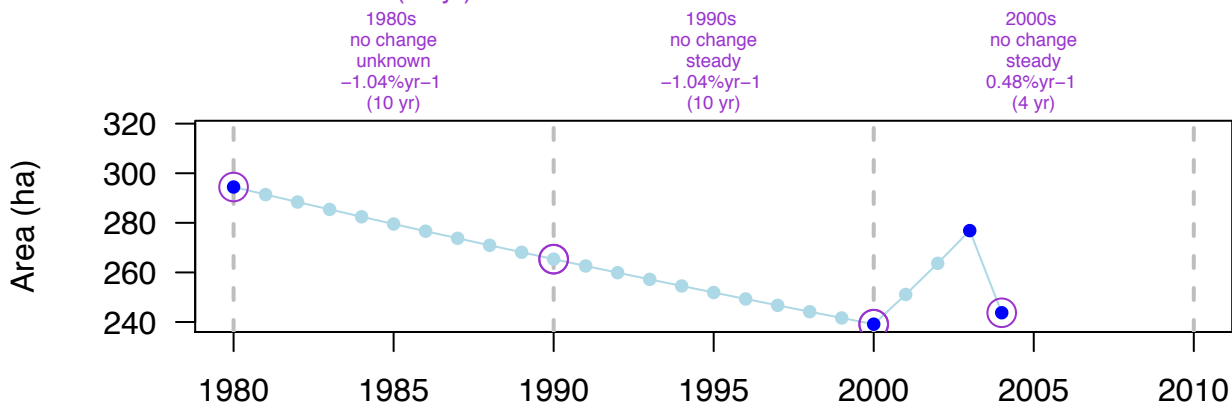
51_area

Nyqvist et al. 2009

SITE: Stenungsund (Sweden – Baltic) – Zm (? m)

OVERALL: Net = -50.71 ha; Rate = -0.79 % yr⁻¹; Perc Final = 83 % > decrease

DECADAL: YES (24 yr)



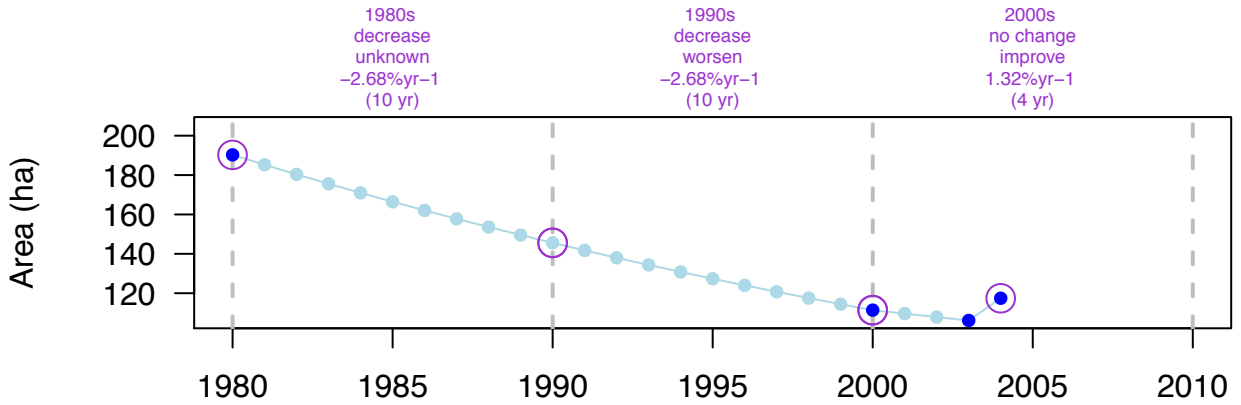
52_area

Nyqvist et al. 2009

SITE: Strömstad (Sweden – Baltic) – Zm (? m)

OVERALL: Net = -72.81 ha; Rate = -2.01 % yr⁻¹; Perc Final = 62 % > decrease

DECADAL: YES (24 yr)



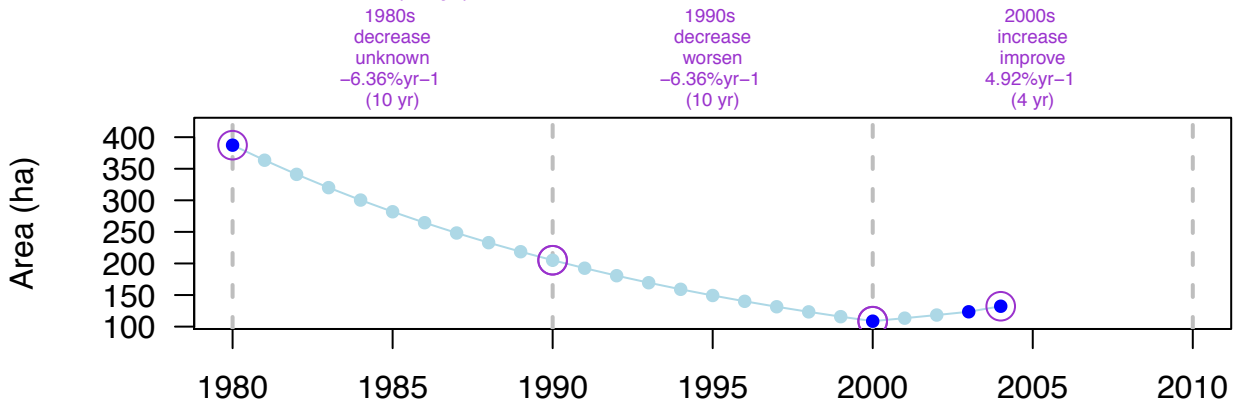
53_area

Nyqvist et al. 2009

SITE: Uddevalla (Sweden – Baltic) – Zm (? m)

OVERALL: Net = -255.06 ha; Rate = -4.48 % yr⁻¹; Perc Final = 34 % > decrease

DECADAL: YES (24 yr)



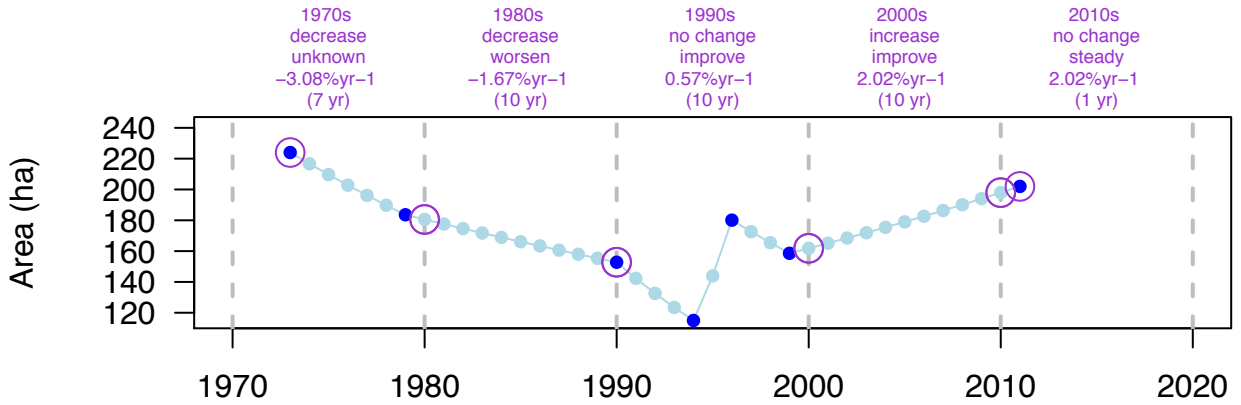
54_area

Garrido et al. 2013

SITE: Urbino Lagoon (France – Mediterranean) – Cn (? m)

OVERALL: Net = -22 ha; Rate = -0.27 % yr⁻¹; Perc Final = 90 % > no change

DECADAL: YES (38 yr)



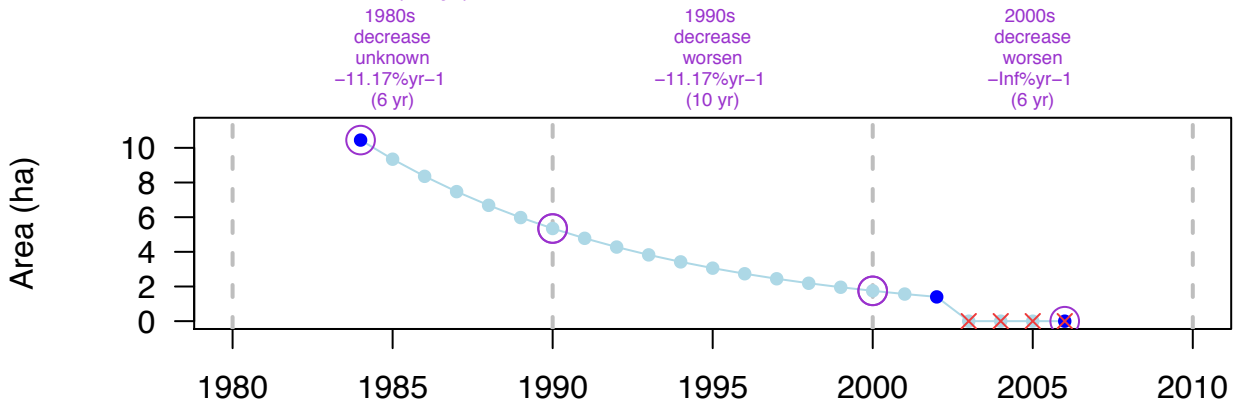
55_area

Martínez-Samper et al. 2011

SITE: Bahía de Confital (Spain – Atlantic) – Cn (? m)

OVERALL: Net = -10.45 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (22 yr)



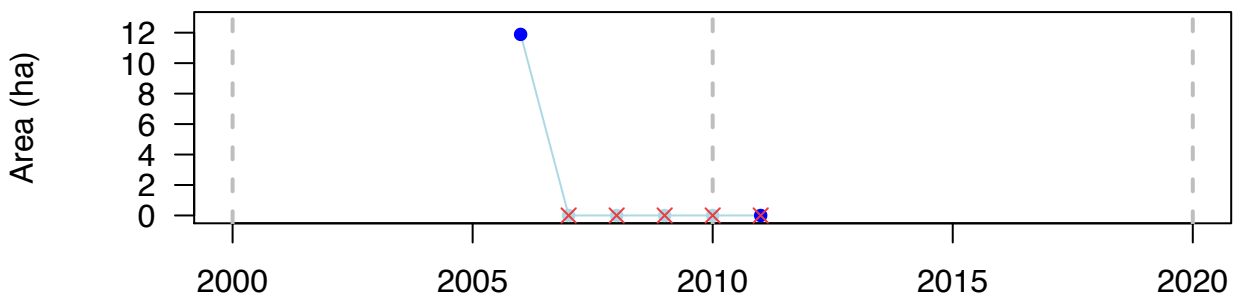
56_area

Martinez-Samper et al. 2011

SITE: Franja Las Palmas de Gran Canaria (Spain – Atlantic) – Cn (-16 m)

OVERALL: Net = -11.89 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (5 yr)



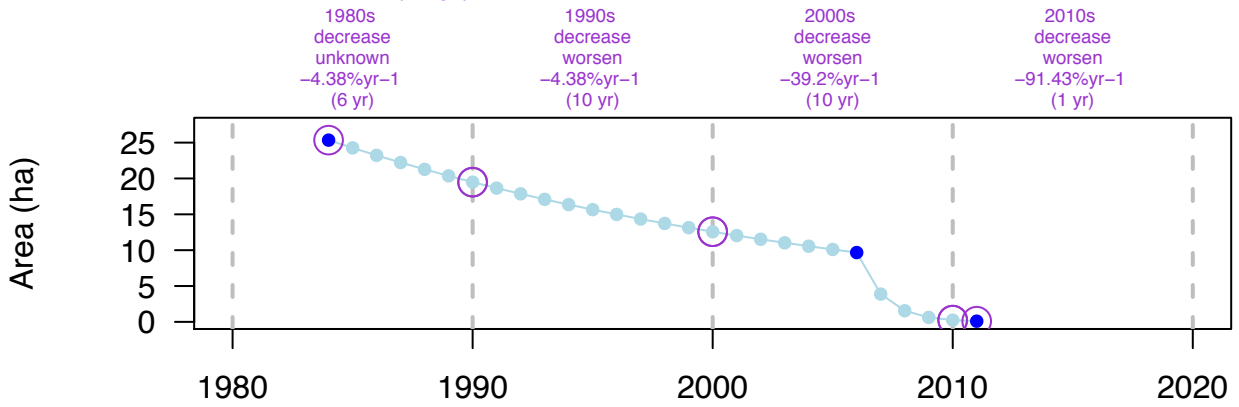
57_area

Martinez-Samper et al. 2011

SITE: Franja Marina del Telde (Spain – Atlantic) – Cn (-11.7 m)

OVERALL: Net = -25.25 ha; Rate = -20.5 % yr⁻¹; Perc Final = 0 % > decrease

DECADAL: YES (27 yr)



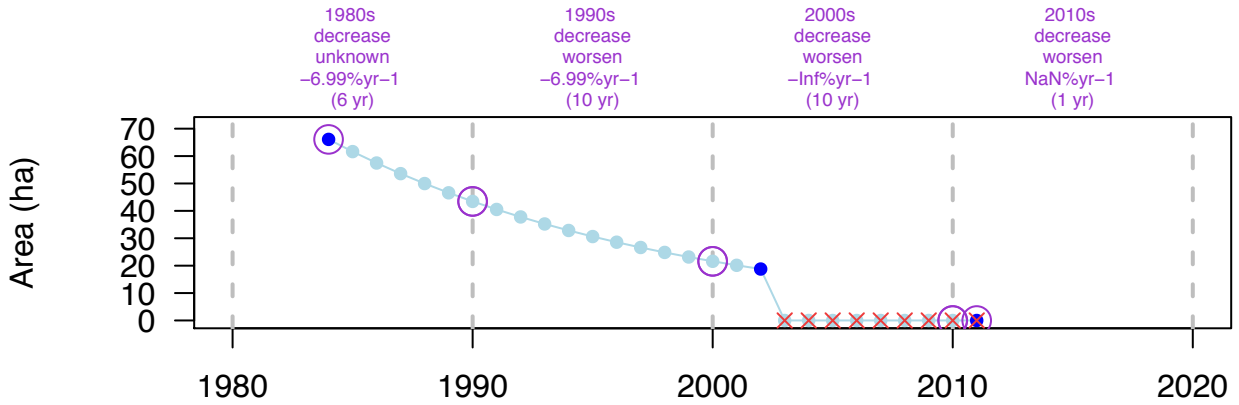
58_area

Martinez-Samper et al. 2011

SITE: Bahía de Gando (Spain – Atlantic) – Cn (-7.2 m)

OVERALL: Net = -66.1 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (27 yr)



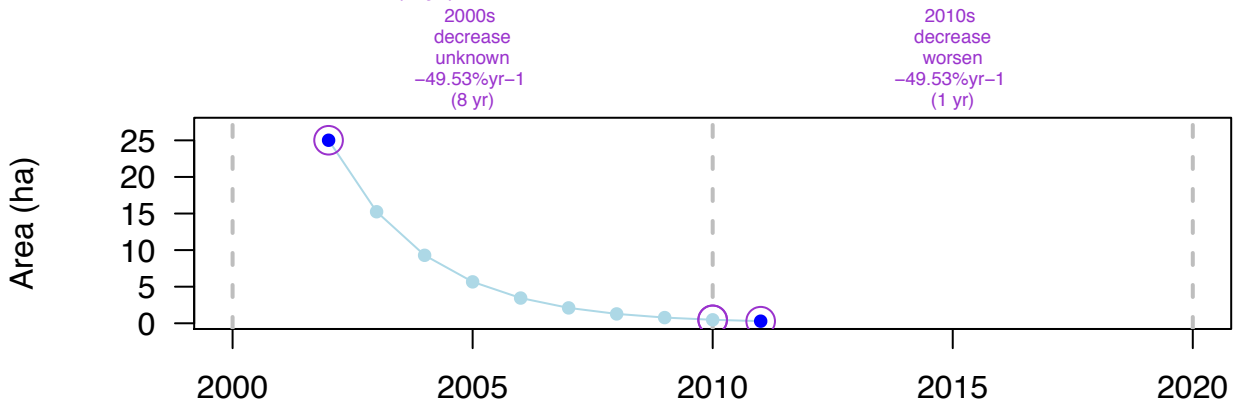
59_area

Martinez-Samper et al. 2011

SITE: Playa de Vargas (Spain – Atlantic) – Cn (-12.9 m)

OVERALL: Net = -24.73 ha; Rate = -49.53 % yr⁻¹; Perc Final = 1 % > decrease

DECADAL: YES (9 yr)



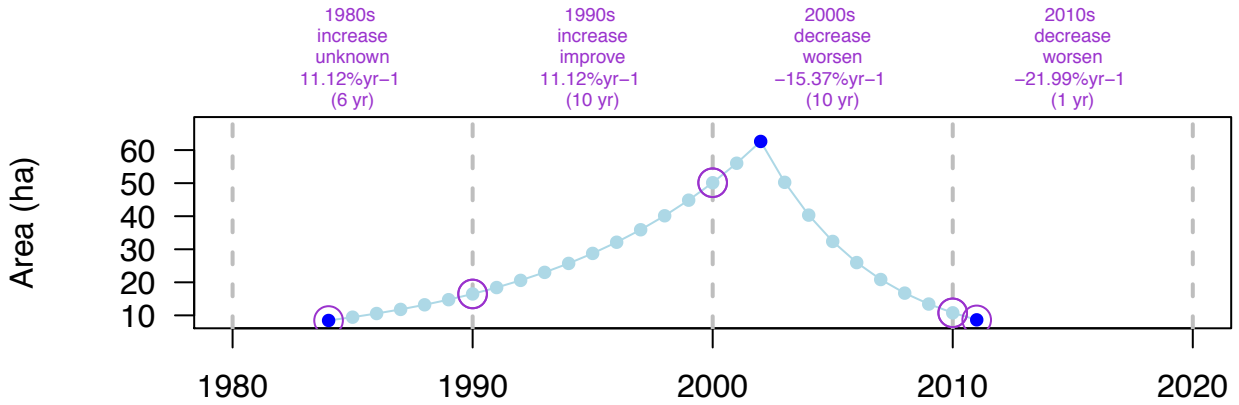
60_area

Martinez-Samper et al. 2011

SITE: Playa del Cabrón (Spain – Atlantic) – Cn (-9 m)

OVERALL: Net = 0.19 ha; Rate = 0.08 % yr⁻¹; Perc Final = 102 % > no change

DECADAL: YES (27 yr)



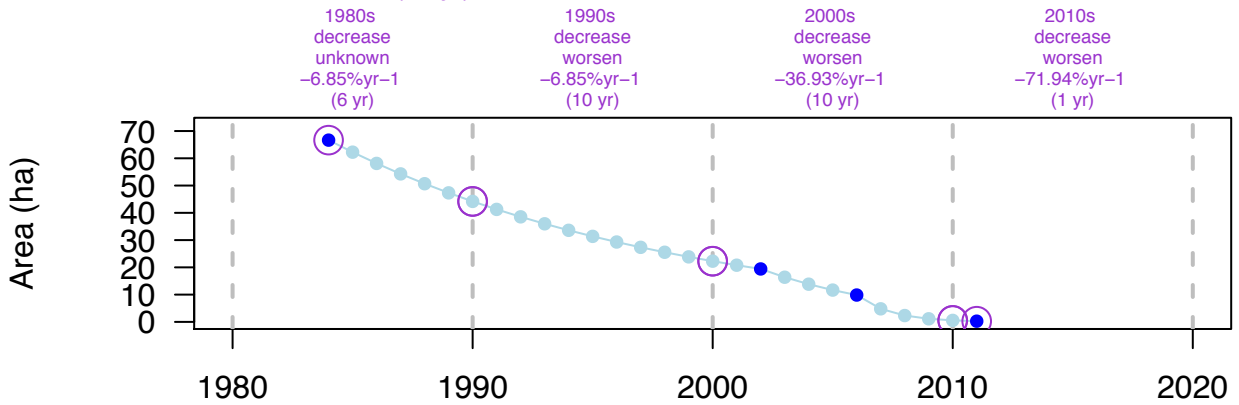
61_area

Martinez-Samper et al. 2011

SITE: Arinaga (Spain – Atlantic) – Cn (-6.6 m)

OVERALL: Net = -66.4 ha; Rate = -20.4 % yr⁻¹; Perc Final = 0 % > decrease

DECADAL: YES (27 yr)



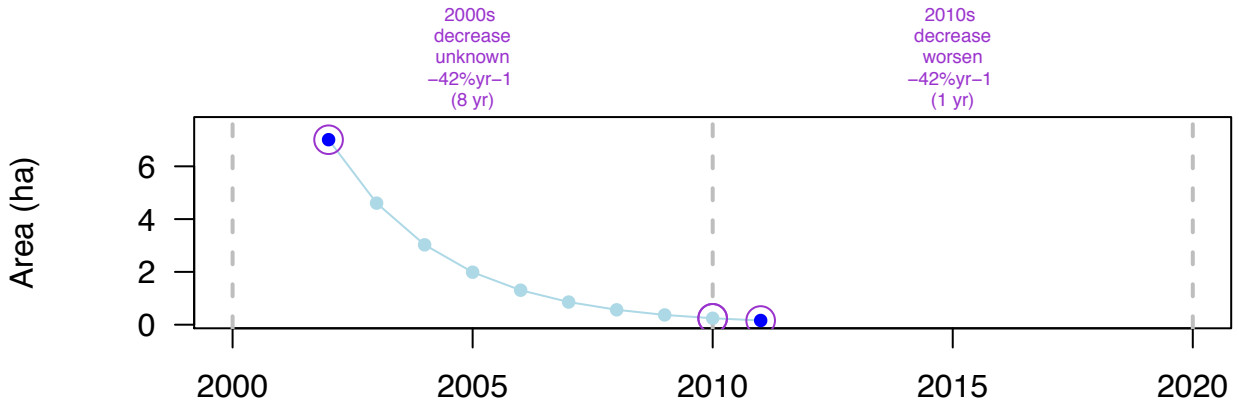
62_area

Martinez-Samper et al. 2011

SITE: Juan Grande (Spain – Atlantic) – Cn (-11.3 m)

OVERALL: Net = -6.85 ha; Rate = -42 % yr⁻¹; Perc Final = 2 % > decrease

DECADAL: YES (9 yr)



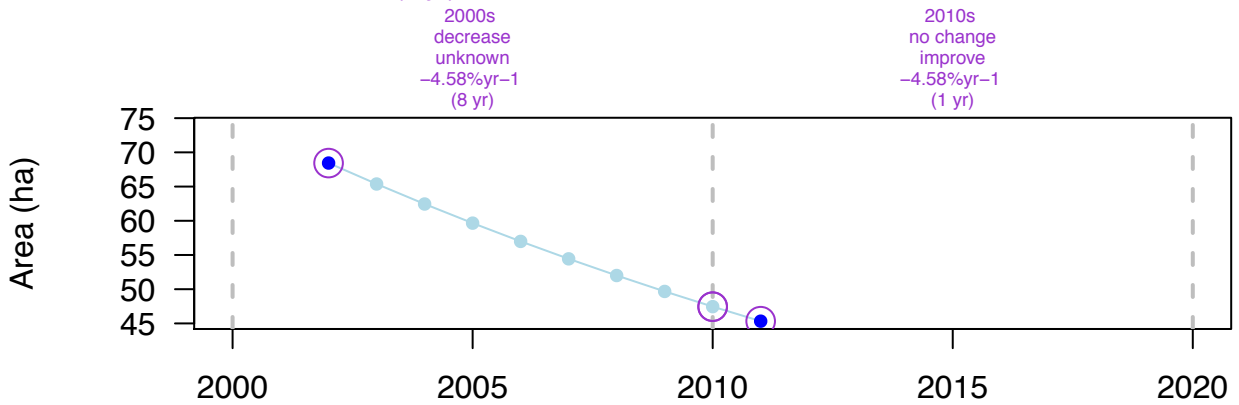
63_area

Martinez-Samper et al. 2011

SITE: Juncalillo del Sur (Spain – Atlantic) – Cn (-6.8 m)

OVERALL: Net = -23.11 ha; Rate = -4.58 % yr⁻¹; Perc Final = 66 % > decrease

DECADAL: YES (9 yr)



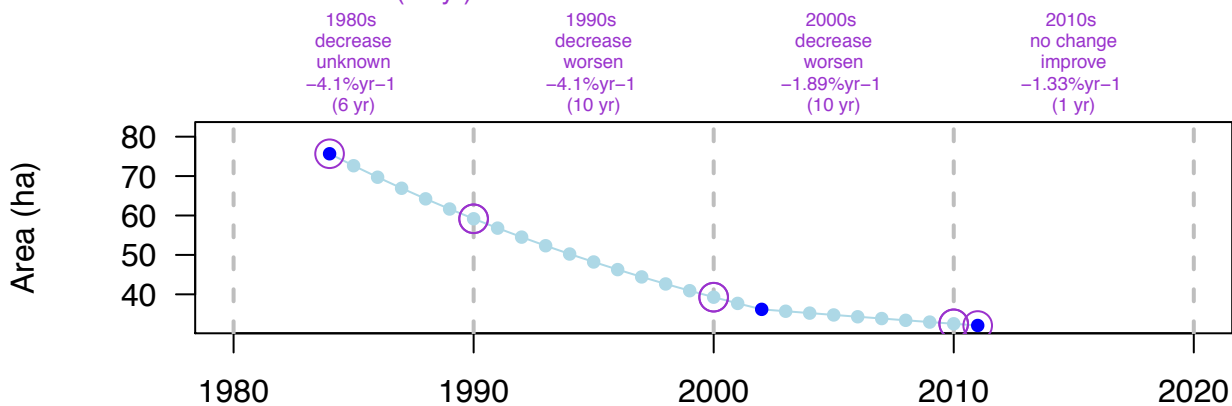
64_area

Martínez-Samper et al. 2011

SITE: Playa del Inglés (Spain – Atlantic) – Cn (-5.3 m)

OVERALL: Net = -43.57 ha; Rate = -3.18 % yr⁻¹; Perc Final = 42 % > decrease

DECADAL: YES (27 yr)



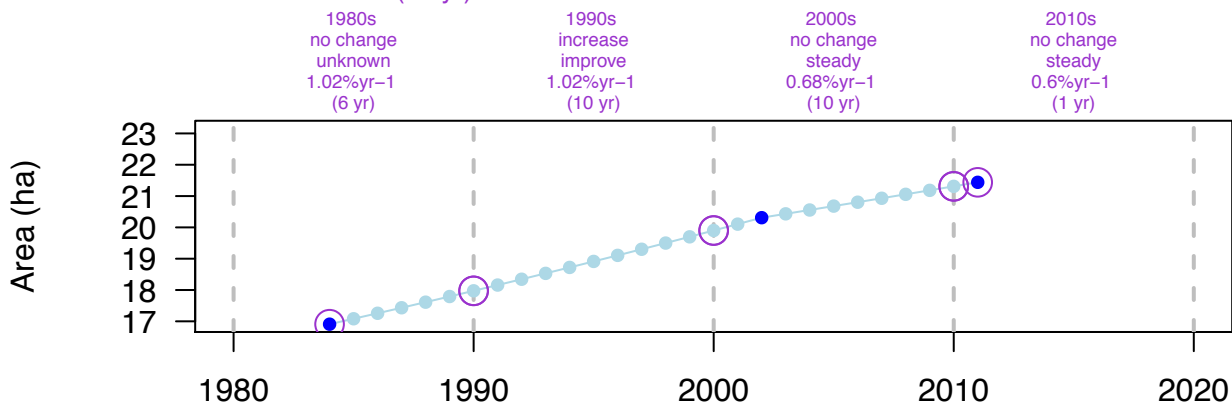
65_area

Martínez-Samper et al. 2011

SITE: Bahía Feliz – San Agustín (Spain – Atlantic) – Cn (-4.6 m)

OVERALL: Net = 4.53 ha; Rate = 0.88 % yr⁻¹; Perc Final = 127 % > increase

DECADAL: YES (27 yr)



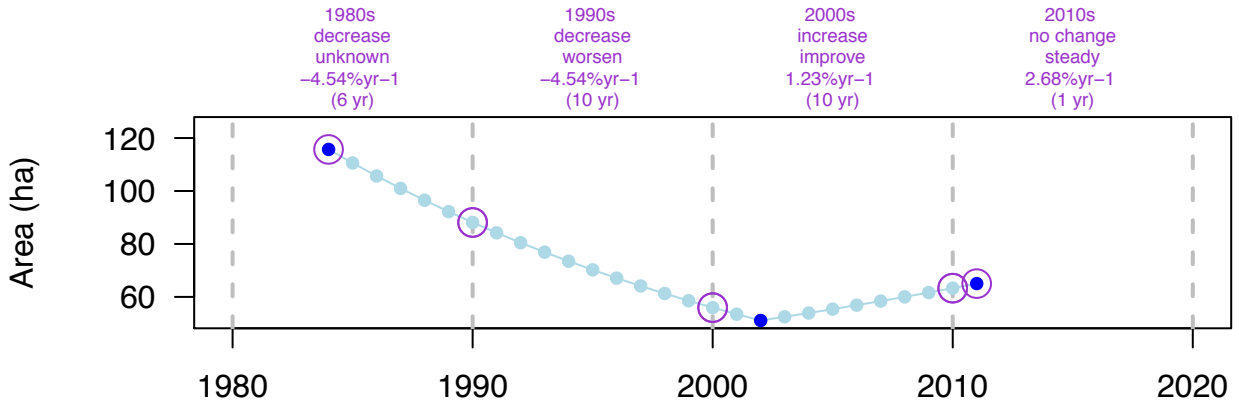
66_area

Martinez-Samper et al. 2011

SITE: Franja Marina de Mogán (Spain – Atlantic) – Cn (-5.5 m)

OVERALL: Net = -50.67 ha; Rate = -2.13 % yr⁻¹; Perc Final = 56 % > decrease

DECADAL: YES (27 yr)



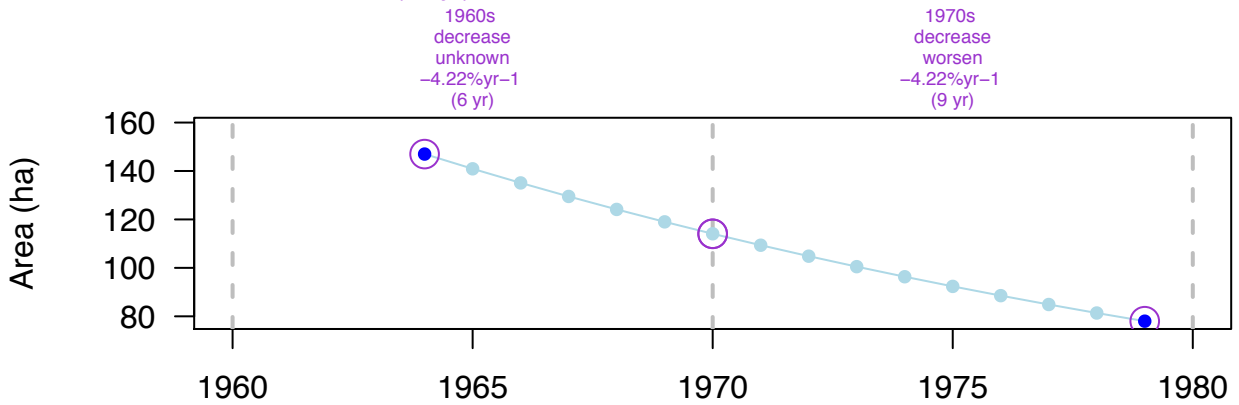
67_area

Boudouresque et al. 2006

SITE: Mourillion (France – Mediterranean) – Po (? m)

OVERALL: Net = -69 ha; Rate = -4.22 % yr⁻¹; Perc Final = 53 % > decrease

DECADAL: YES (15 yr)



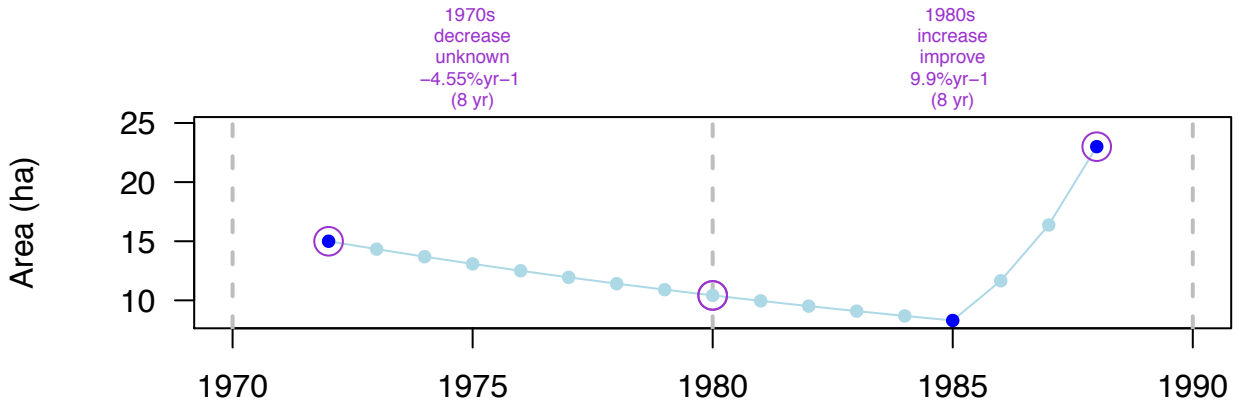
68_area

Philippart and Dijkema 1995

SITE: De Keeg – De Ans (The Netherlands – Atlantic) – Zn (? m)

OVERALL: Net = 8 ha; Rate = 2.67 % yr⁻¹; Perc Final = 153 % > increase

DECADAL: YES (16 yr)



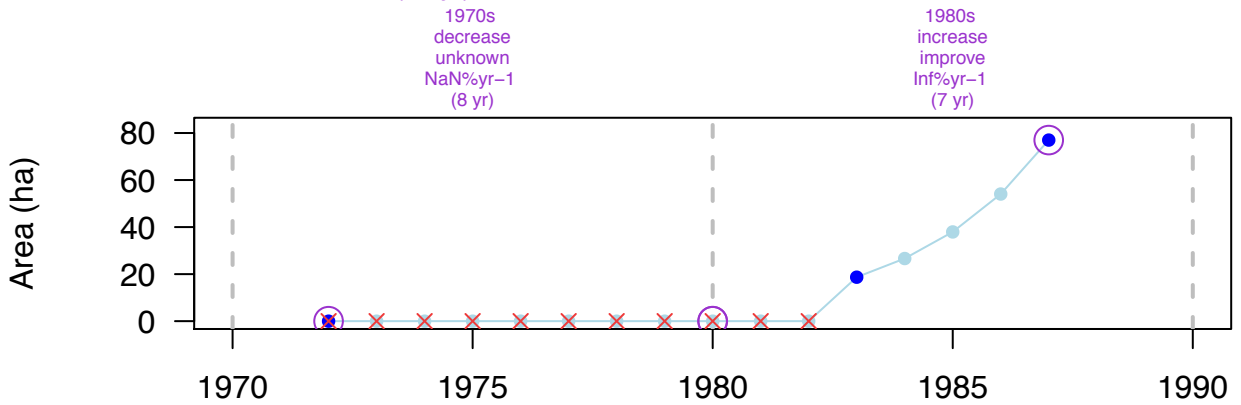
69_area

Philippart and Dijkema 1995

SITE: Emmapolder (The Netherlands – Atlantic) – Zn (? m)

OVERALL: Net = 77 ha; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: YES (15 yr)



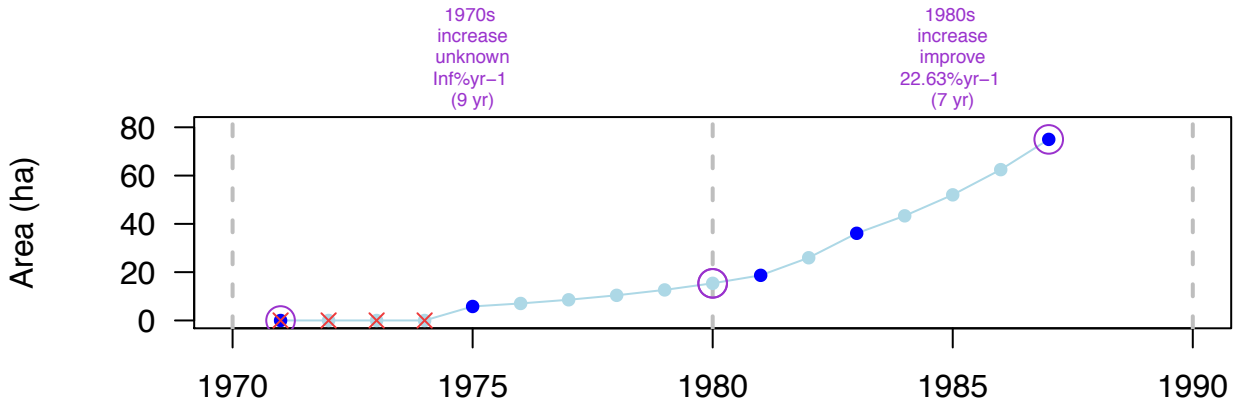
71_area

Philippart and Dijkema 1995

SITE: Linthorst Homanpolder (The Netherlands – Atlantic) – Zn (? m)

OVERALL: Net = 75 ha; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: YES (16 yr)



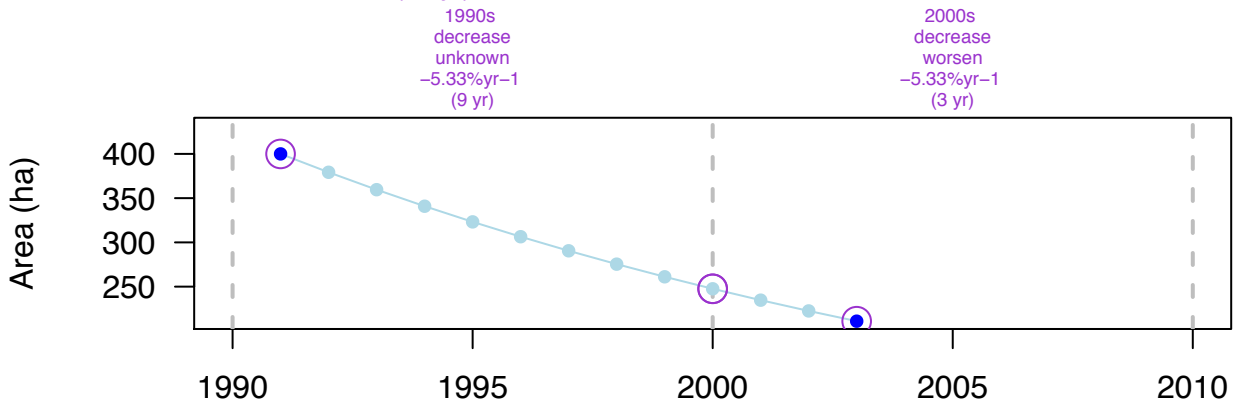
76_area

Portig 2006

SITE: Lough Foyle (United Kingdom – Atlantic) – Zm (? m)

OVERALL: Net = -189 ha; Rate = -5.33 % yr⁻¹; Perc Final = 53 % > decrease

DECADAL: YES (12 yr)



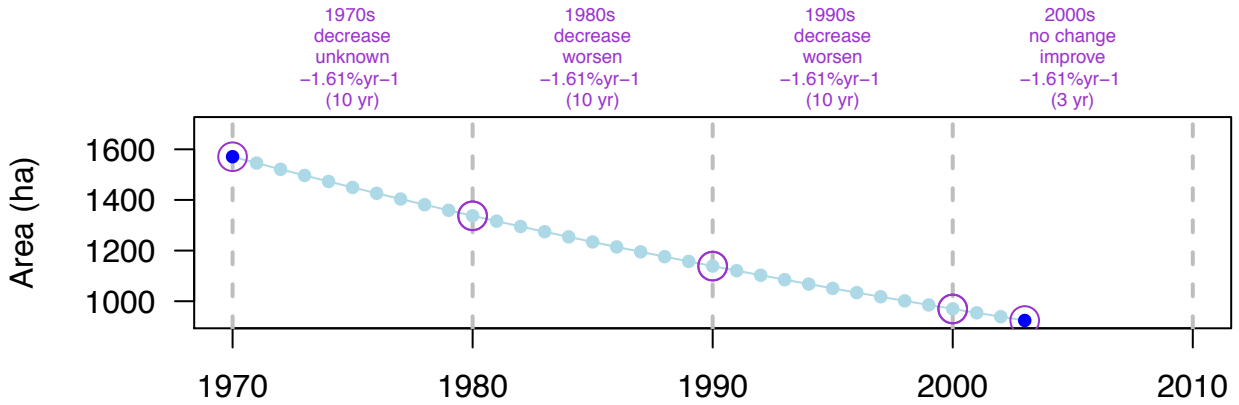
77_area

Portig 2006

SITE: Strangford Lough (United Kingdom – Atlantic) – Zm (? m)

OVERALL: Net = -646.8 ha; Rate = -1.61 % yr⁻¹; Perc Final = 59 % > decrease

DECADAL: YES (33 yr)



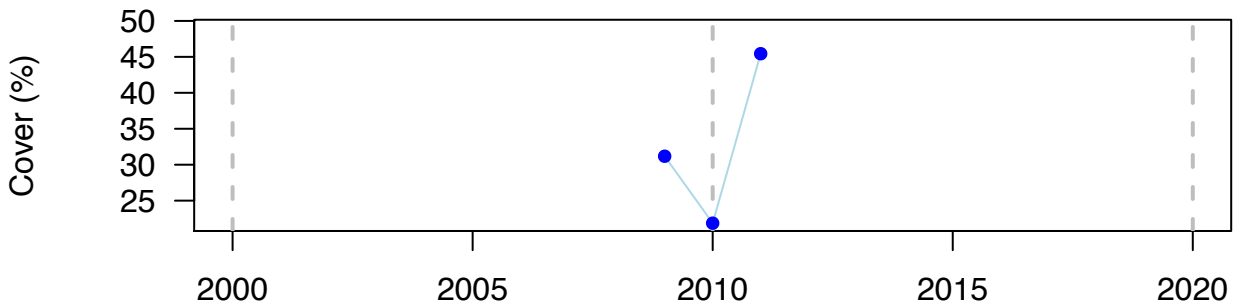
78_cover

Cook (unpublished)

SITE: Carrick Roads (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 14.26 %; Rate = 18.83 % yr⁻¹; Perc Final = 146 % > increase

DECADAL: NO (2 yr)



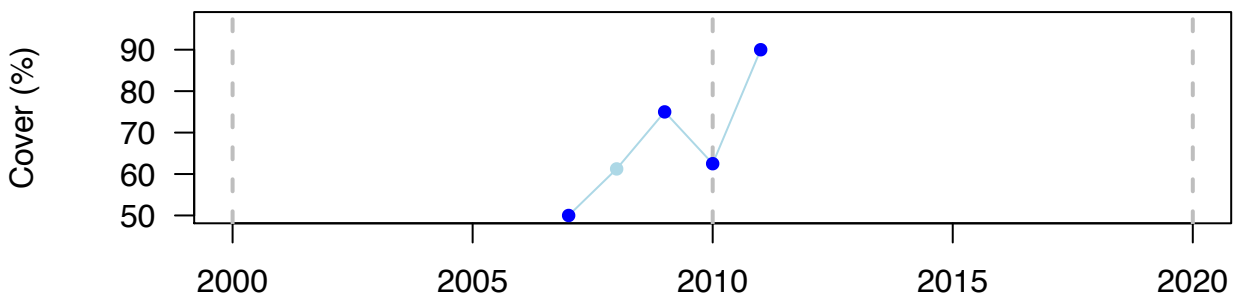
79_cover

Cook (unpublished)

SITE: Conwy Estuary (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 40 %; Rate = 14.69 % yr⁻¹; Perc Final = 180 % > increase

DECADAL: NO (4 yr)



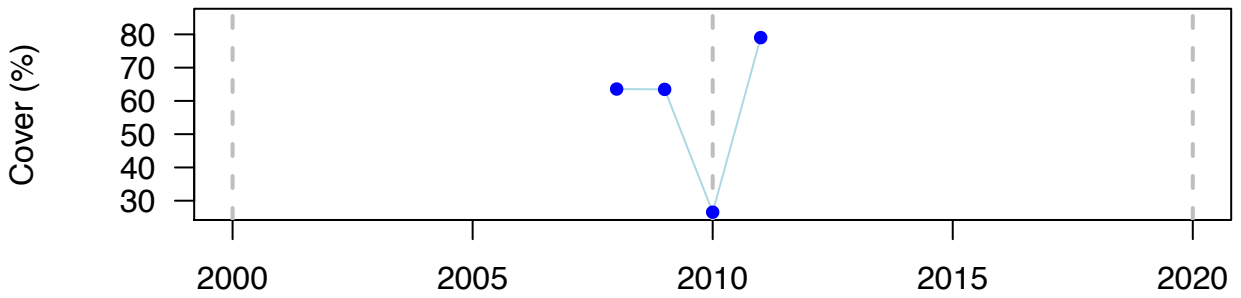
80_cover

Cook (unpublished)

SITE: Exe Estuary (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 15.46 %; Rate = 7.26 % yr⁻¹; Perc Final = 124 % > no change

DECADAL: NO (3 yr)



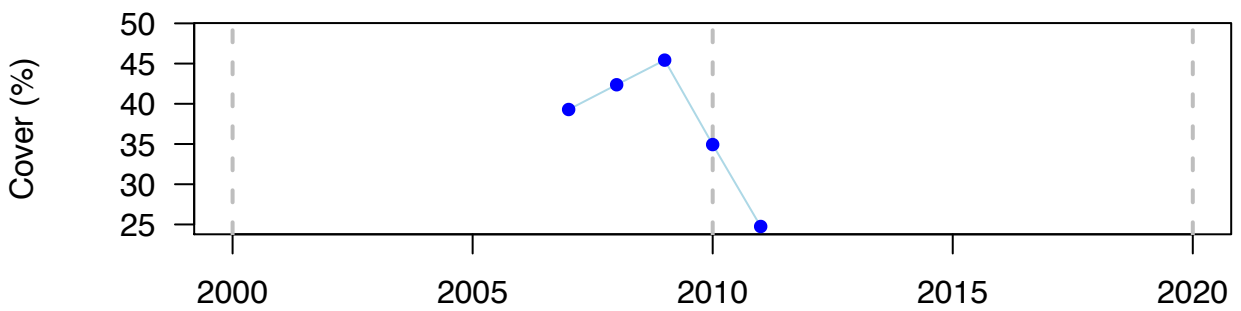
81_cover

Cook (unpublished)

SITE: Foryd bay (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = -14.54 %; Rate = -11.55 % yr⁻¹; Perc Final = 63 % > decrease

DECADAL: NO (4 yr)



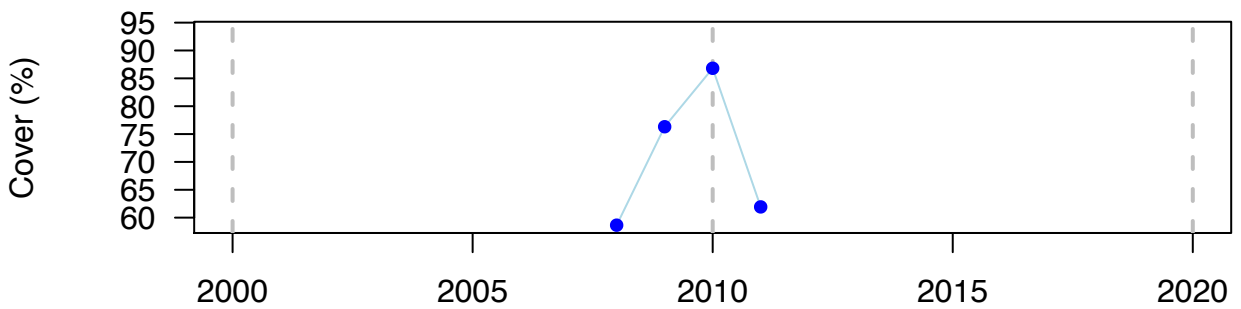
82_cover

Cook (unpublished)

SITE: Milford Haven (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 3.28 %; Rate = 1.81 % yr⁻¹; Perc Final = 106 % > no change

DECADAL: NO (3 yr)



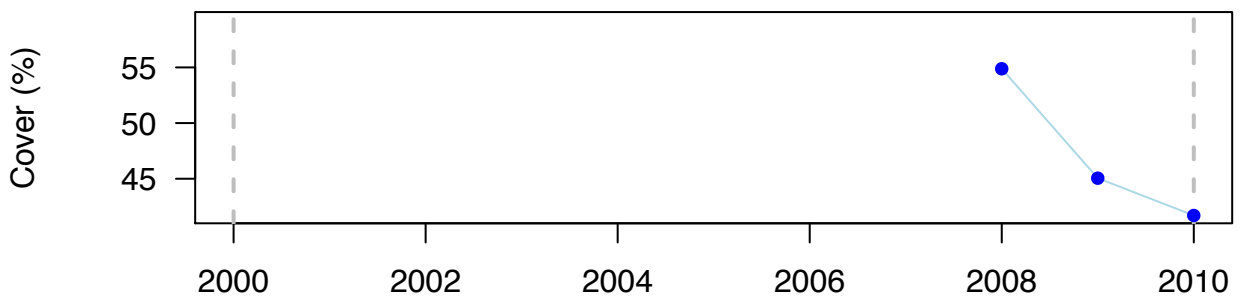
83_cover

Cook (unpublished)

SITE: Milford Haven (coastal) (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = -13.18 %; Rate = -13.73 % yr⁻¹; Perc Final = 76 % > no change

DECADAL: NO (2 yr)



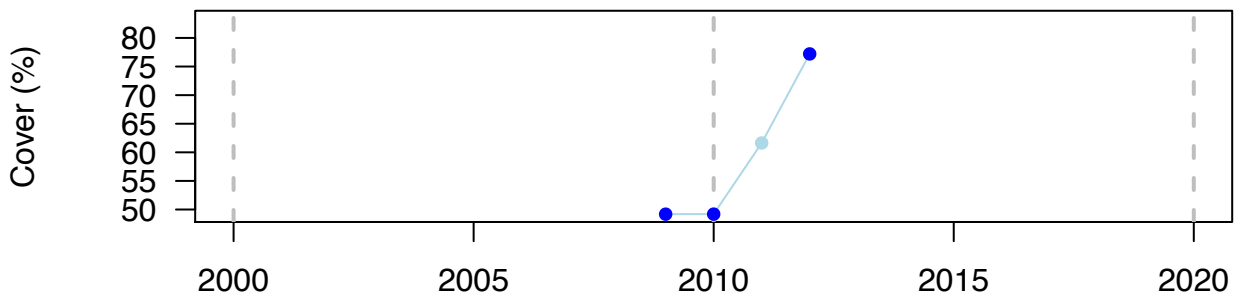
84_cover

Cook (unpublished)

SITE: Pagham Harbour (coastal) (United Kingdom – Atlantic) – Zm (? m)

OVERALL: Net = 28.02 %; Rate = 15.03 % yr⁻¹; Perc Final = 157 % > increase

DECADAL: NO (3 yr)



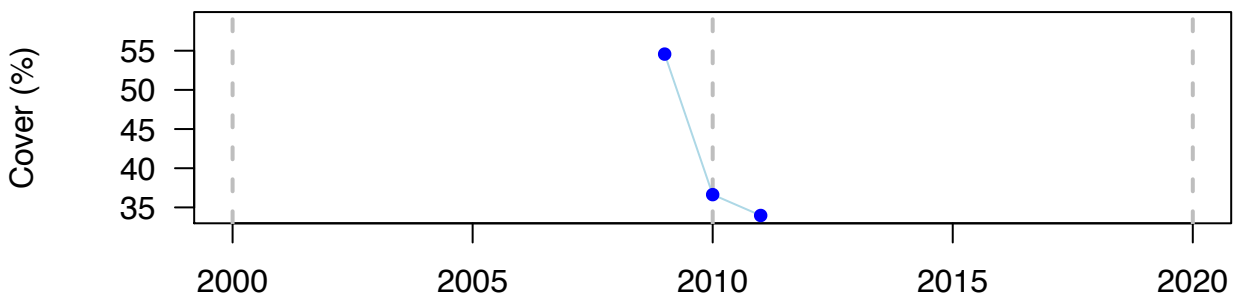
85_cover

Cook (unpublished)

SITE: Portsmouth Harbour (coastal) (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = -20.6 %; Rate = -23.7 % yr⁻¹; Perc Final = 62 % > decrease

DECADAL: NO (2 yr)



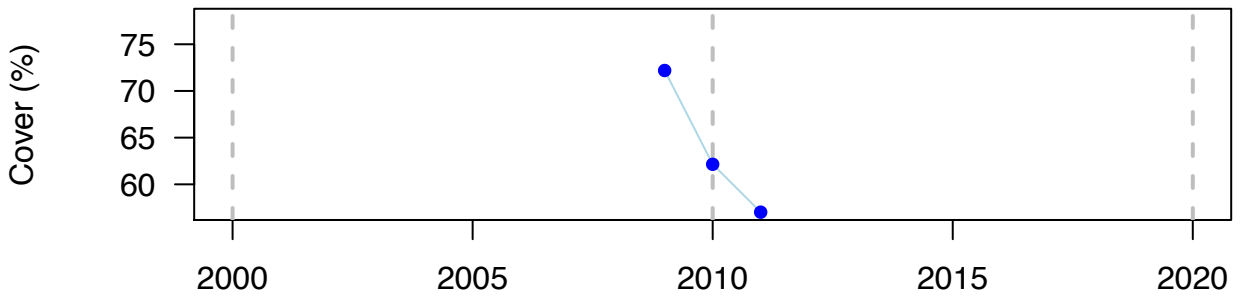
86_cover

Cook (unpublished)

SITE: Solent (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = -15.17 %; Rate = -11.79 % yr⁻¹; Perc Final = 79 % > no change

DECADAL: NO (2 yr)



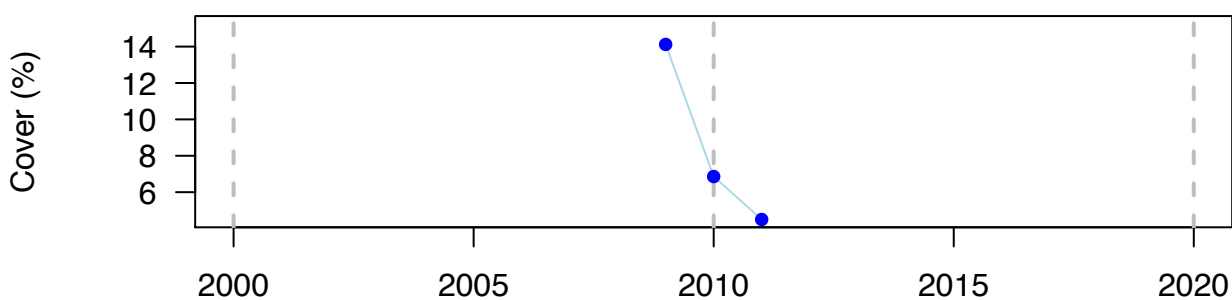
87_cover

Cook (unpublished)

SITE: Solent (United Kingdom – Atlantic) – Zm (? m)

OVERALL: Net = -9.62 %; Rate = -57.18 % yr⁻¹; Perc Final = 32 % > decrease

DECADAL: NO (2 yr)



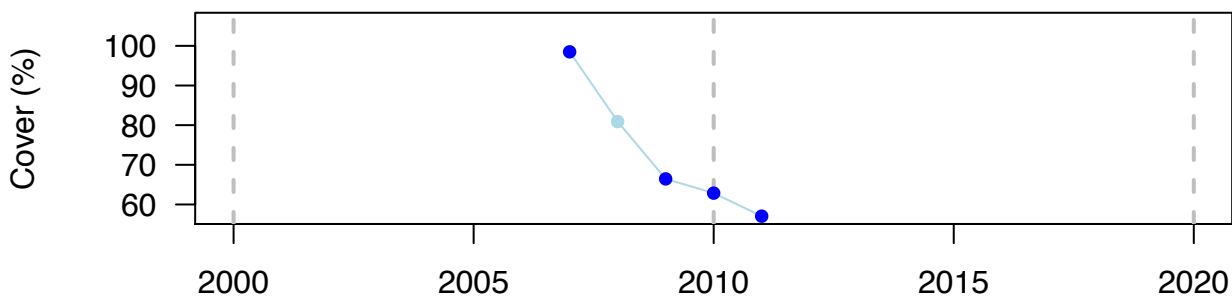
88_cover

Cook (unpublished)

SITE: Thames Estuary (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = -41.45 %; Rate = -13.65 % yr⁻¹; Perc Final = 58 % > decrease

DECADAL: NO (4 yr)



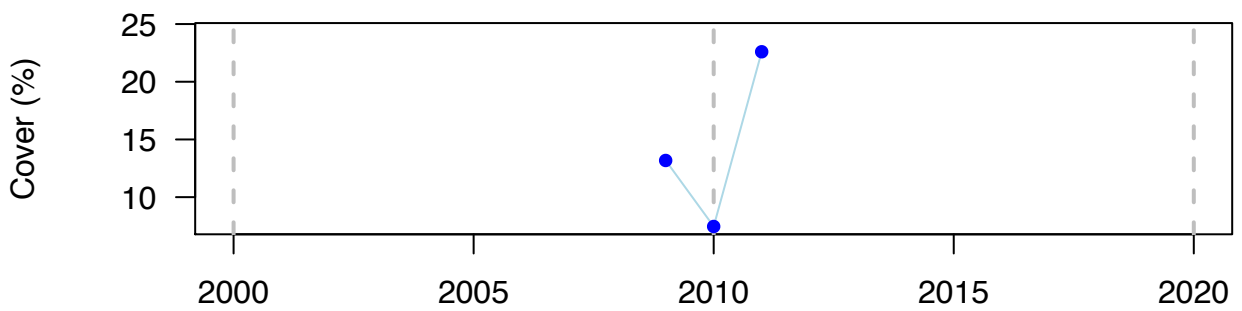
89_cover

Cook (unpublished)

SITE: Thames Estuary (United Kingdom – Atlantic) – Zm (? m)

OVERALL: Net = 9.42 %; Rate = 26.96 % yr⁻¹; Perc Final = 171 % > increase

DECADAL: NO (2 yr)



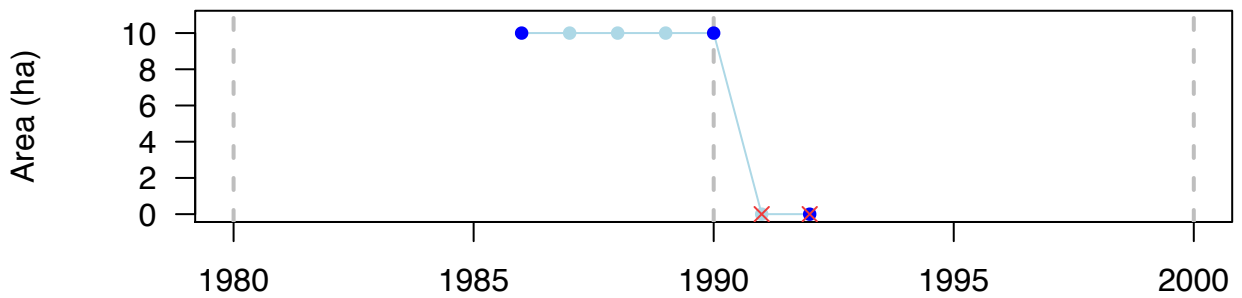
90_area

Den Hartog 1994

SITE: Langstone Harbour (United Kingdom – Atlantic) – Zm (? m)

OVERALL: Net = -10 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (6 yr)



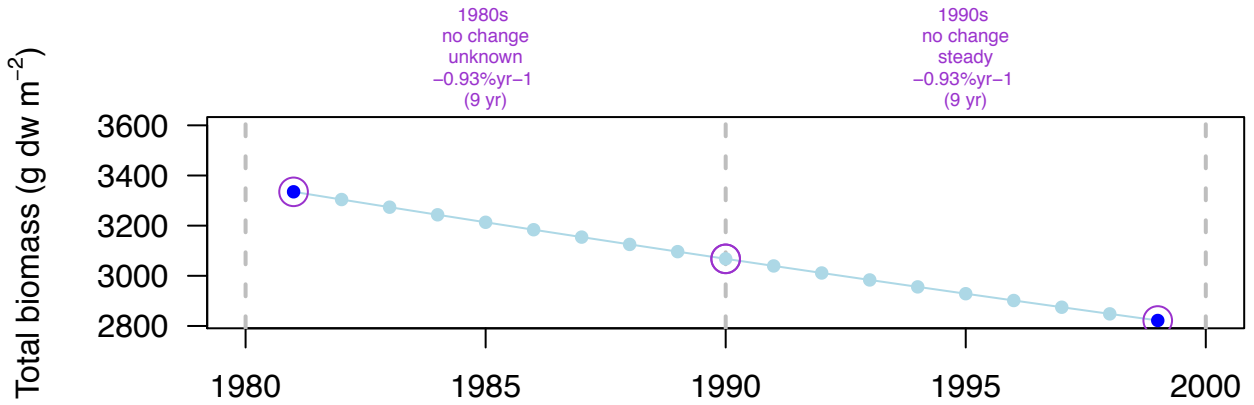
91_biomass

Milchakova and Phillips 2003

SITE: Holland Bay (Ukraine – Mediterranean) – Zm (-2 m)

OVERALL: Net = -513 g dw m⁻²; Rate = -0.93 % yr⁻¹; Perc Final = 85 % > no change

DECADAL: YES (18 yr)



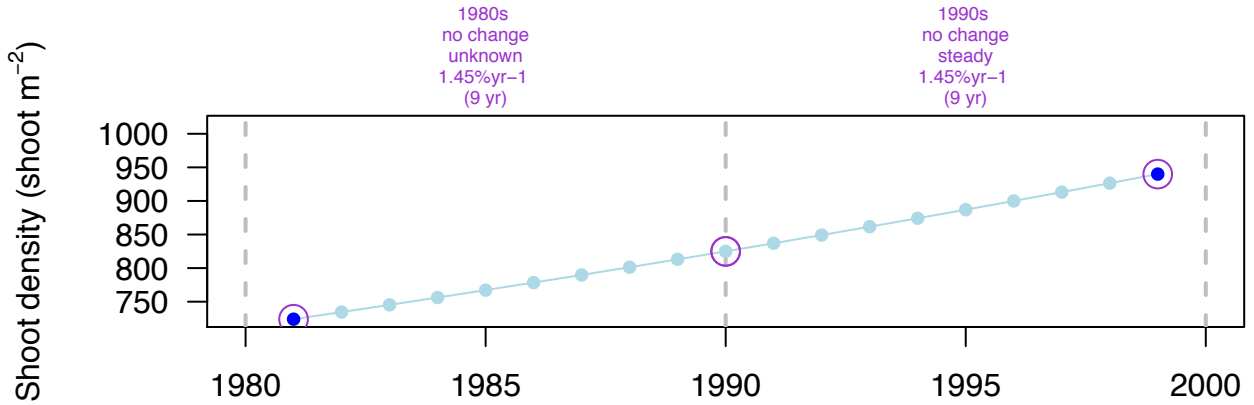
91_density

Milchakova and Phillips 2003

SITE: Holland Bay (Ukraine – Mediterranean) – Zm (-2 m)

OVERALL: Net = 216 shoot m⁻²; Rate = 1.45 % yr⁻¹; Perc Final = 130 % > increase

DECADAL: YES (18 yr)



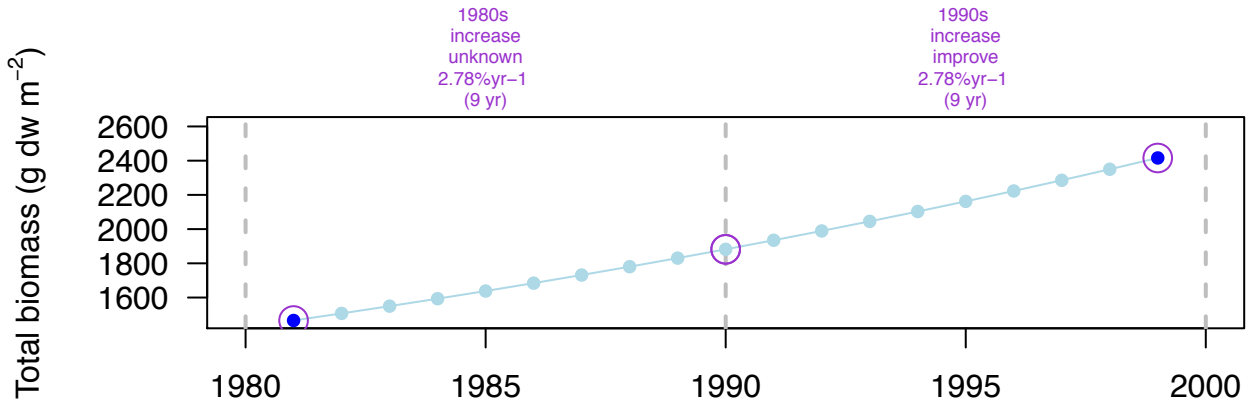
92_biomass

Milchakova and Phillips 2003

SITE: Kazachaya Bay (Ukraine – Mediterranean) – Zm (-1 m)

OVERALL: Net = 950 g dw m⁻²; Rate = 2.78 % yr⁻¹; Perc Final = 165 % > increase

DECADAL: YES (18 yr)



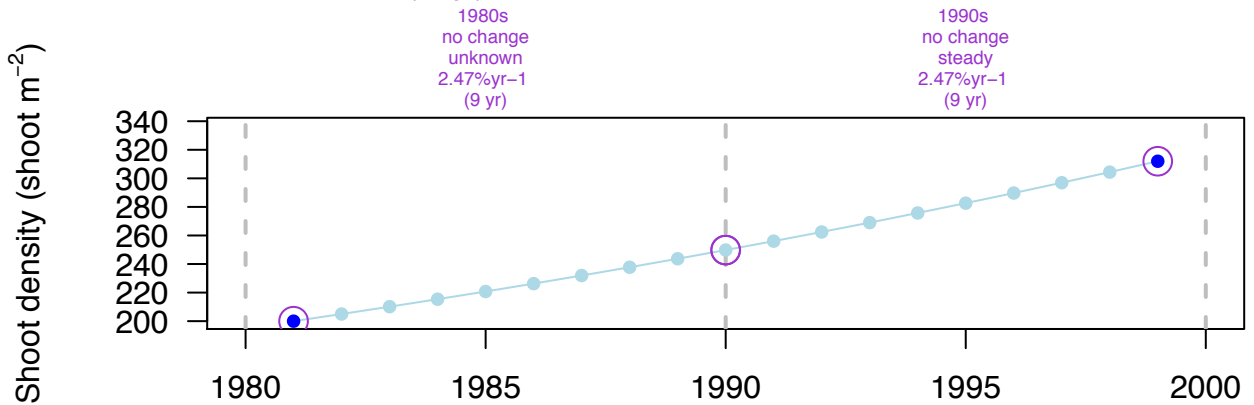
92_density

Milchakova and Phillips 2003

SITE: Kazachaya Bay (Ukraine – Mediterranean) – Zm (-1 m)

OVERALL: Net = 112 shoot m⁻²; Rate = 2.47 % yr⁻¹; Perc Final = 156 % > increase

DECADAL: YES (18 yr)



93_biomass

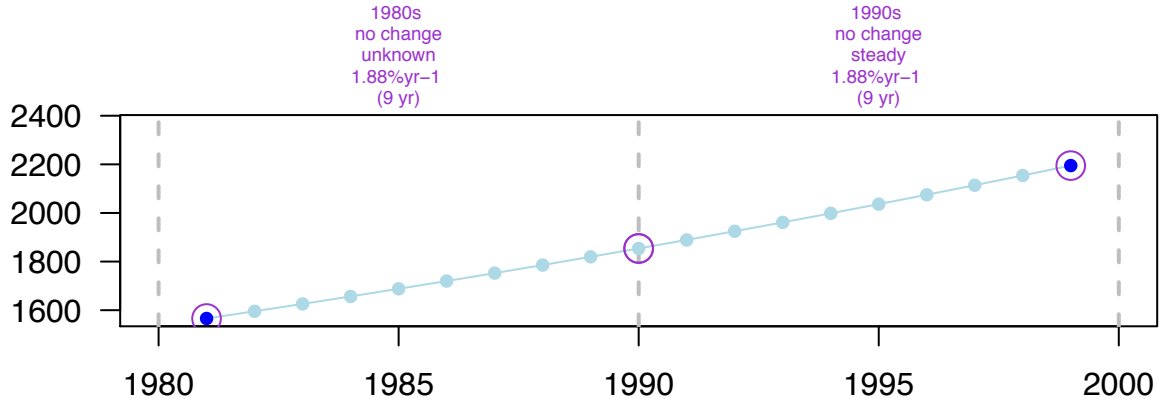
Milchakova and Phillips 2003

SITE: Kazachaya Bay (Ukraine – Mediterranean) – Zm (-3 m)

OVERALL: Net = 629 g dw m⁻²; Rate = 1.88 % yr⁻¹; Perc Final = 140 % > increase

DECADAL: YES (18 yr)

Total biomass (g dw m⁻²)



93_density

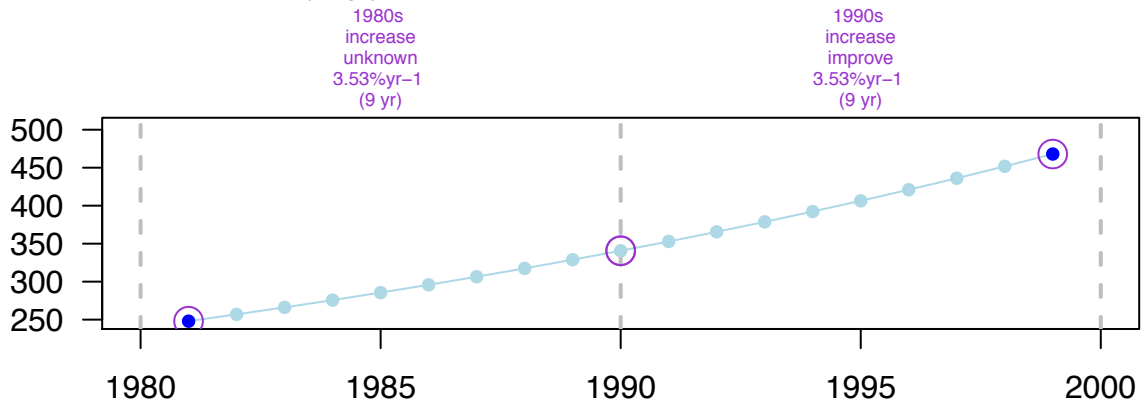
Milchakova and Phillips 2003

SITE: Kazachaya Bay (Ukraine – Mediterranean) – Zm (-3 m)

OVERALL: Net = 220 shoot m⁻²; Rate = 3.53 % yr⁻¹; Perc Final = 189 % > increase

DECADAL: YES (18 yr)

Shoot density (shoot m⁻²)



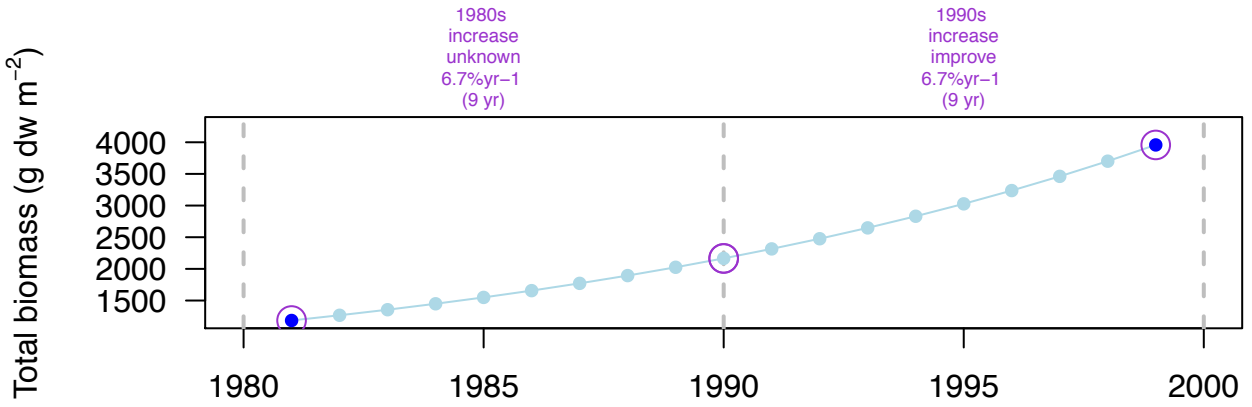
94_biomass

Milchakova and Phillips 2003

SITE: Kerch Bay (Ukraine – Mediterranean) – Zm (-3 m)

OVERALL: Net = 2773 g dw m⁻²; Rate = 6.7 % yr⁻¹; Perc Final = 334 % > increase

DECADAL: YES (18 yr)



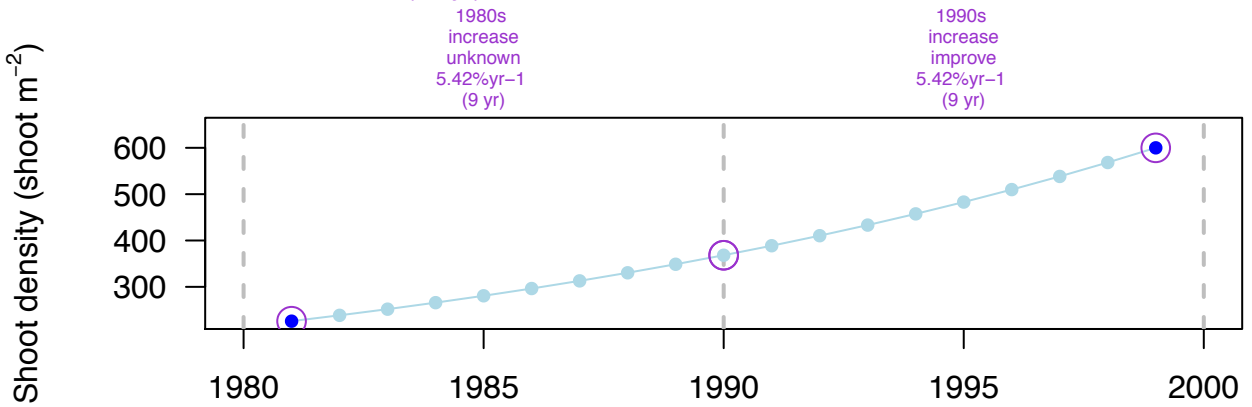
94_density

Milchakova and Phillips 2003

SITE: Kerch Bay (Ukraine – Mediterranean) – Zm (-3 m)

OVERALL: Net = 374 shoot m⁻²; Rate = 5.42 % yr⁻¹; Perc Final = 265 % > increase

DECADAL: YES (18 yr)



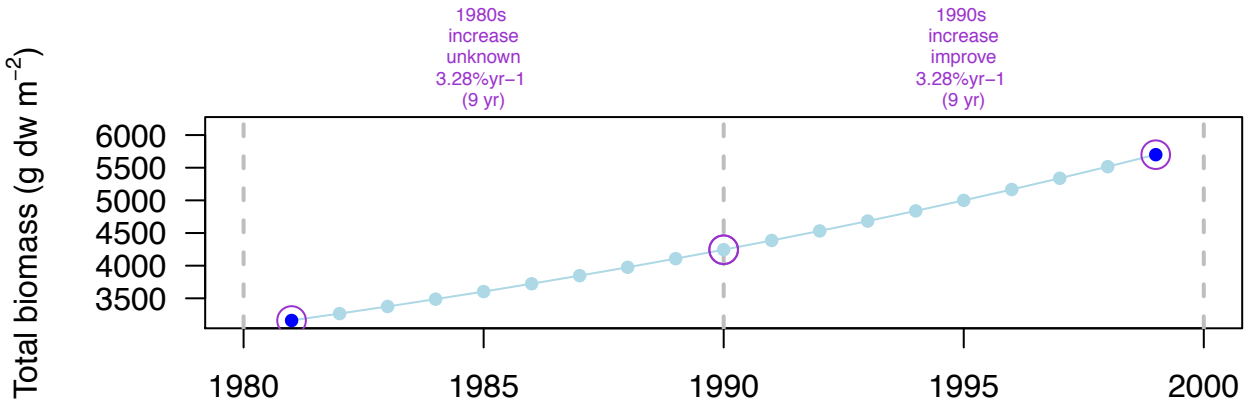
95_biomass

Milchakova and Phillips 2003

SITE: Kerch Strait (Ukraine – Mediterranean) – Zm (-3 m)

OVERALL: Net = 2539 g dw m⁻²; Rate = 3.28 % yr⁻¹; Perc Final = 180 % > increase

DECADAL: YES (18 yr)



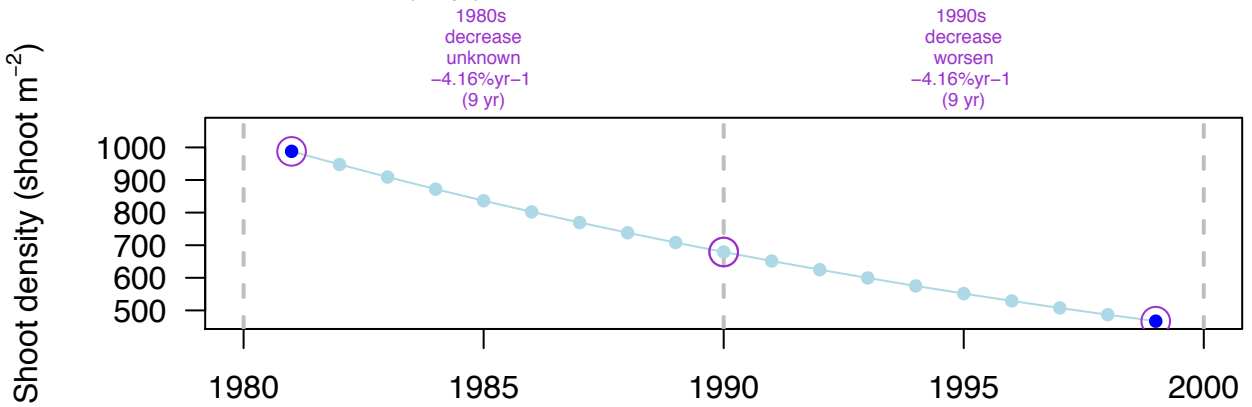
95_density

Milchakova and Phillips 2003

SITE: Kerch Strait (Ukraine – Mediterranean) – Zm (-3 m)

OVERALL: Net = -521 shoot m⁻²; Rate = -4.16 % yr⁻¹; Perc Final = 47 % > decrease

DECADAL: YES (18 yr)



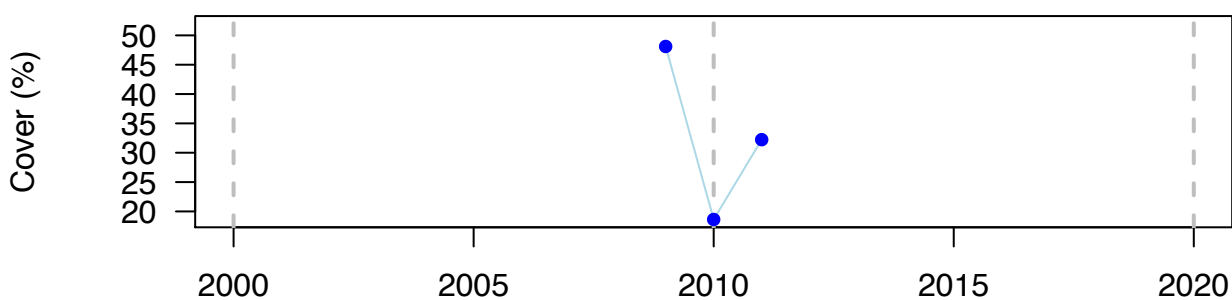
96_cover

Cook (unpublished)

SITE: Portsmouth Harbour (coastal) (United Kingdom – Atlantic) – Zm (? m)

OVERALL: Net = -15.88 %; Rate = -20.03 % yr⁻¹; Perc Final = 67 % > decrease

DECADAL: NO (2 yr)



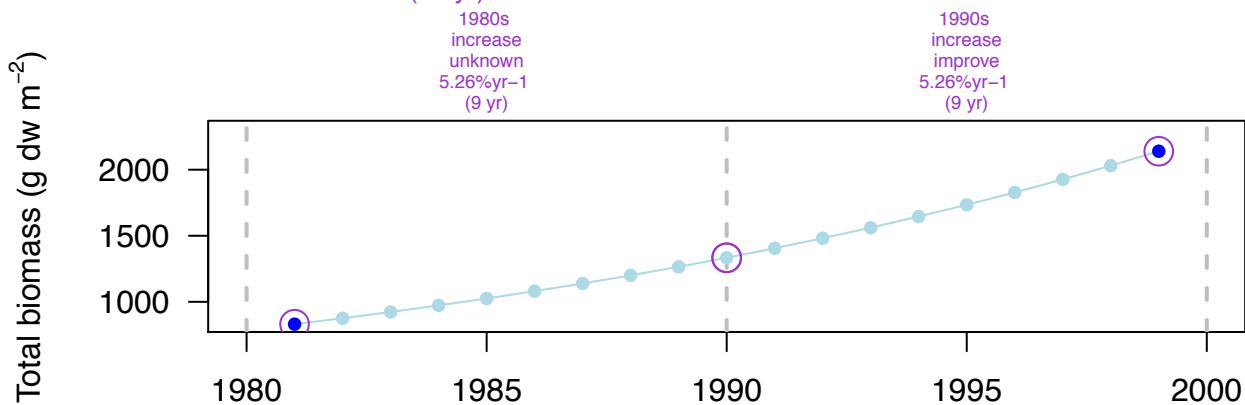
97_biomass

Milchakova and Phillips 2003

SITE: Laspi Bay (Ukraine – Mediterranean) – Zm (-5 m)

OVERALL: Net = 1309 g dw m⁻²; Rate = 5.26 % yr⁻¹; Perc Final = 258 % > increase

DECADAL: YES (18 yr)



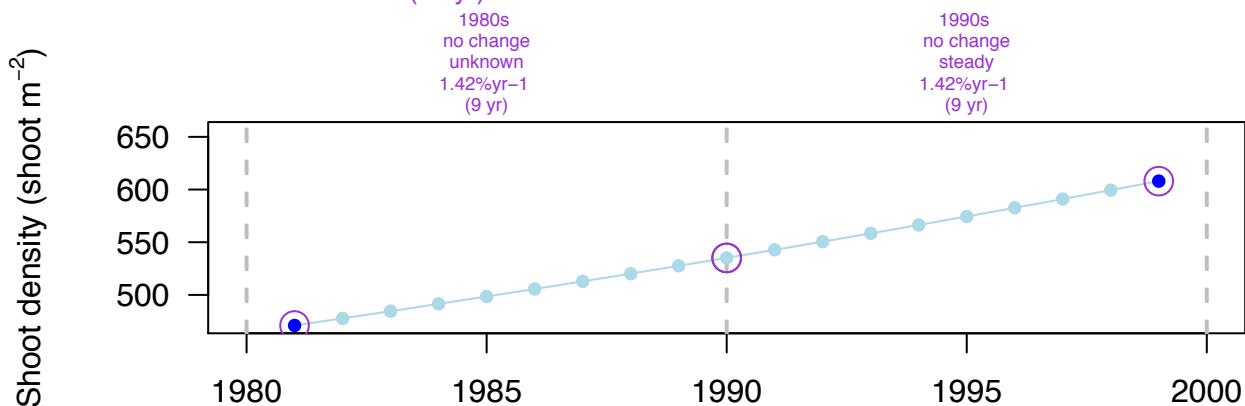
97_density

Milchakova and Phillips 2003

SITE: Laspi Bay (Ukraine – Mediterranean) – Zm (-5 m)

OVERALL: Net = 137 shoot m⁻²; Rate = 1.42 % yr⁻¹; Perc Final = 129 % > increase

DECADAL: YES (18 yr)



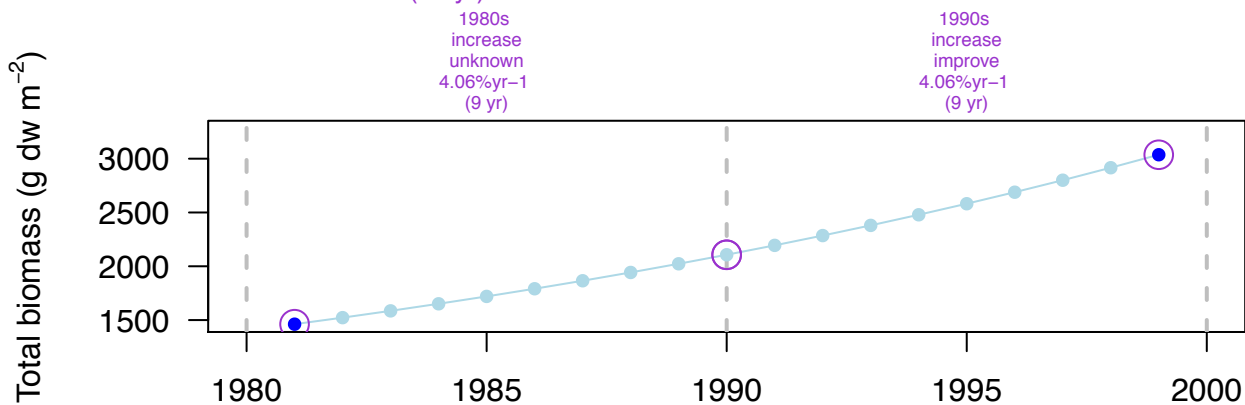
98_biomass

Milchakova and Phillips 2003

SITE: Severnaya Bay (Ukraine – Mediterranean) – Zm (-2 m)

OVERALL: Net = 1575 g dw m⁻²; Rate = 4.06 % yr⁻¹; Perc Final = 208 % > increase

DECADAL: YES (18 yr)



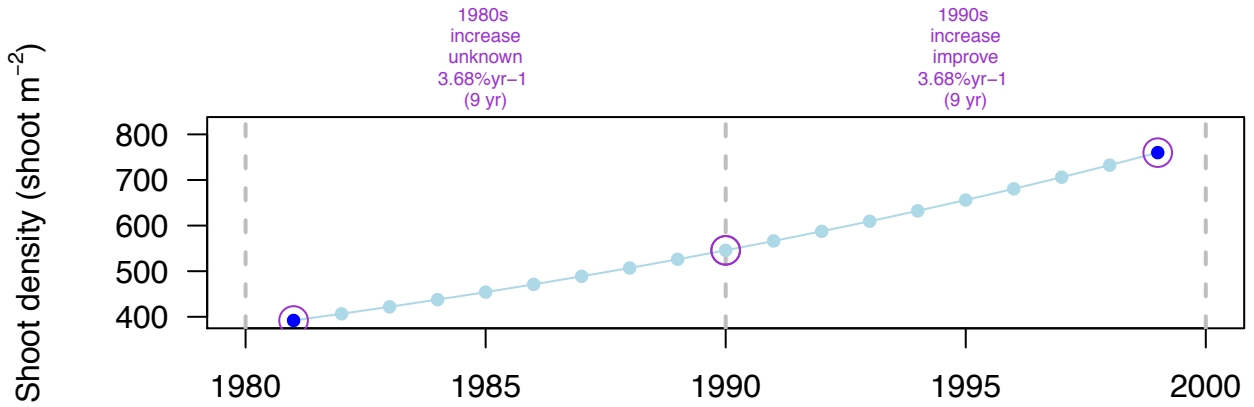
98_density

Milchakova and Phillips 2003

SITE: Severnaya Bay (Ukraine – Mediterranean) – Zm (-2 m)

OVERALL: Net = 368 shoot m⁻²; Rate = 3.68 % yr⁻¹; Perc Final = 194 % > increase

DECADAL: YES (18 yr)



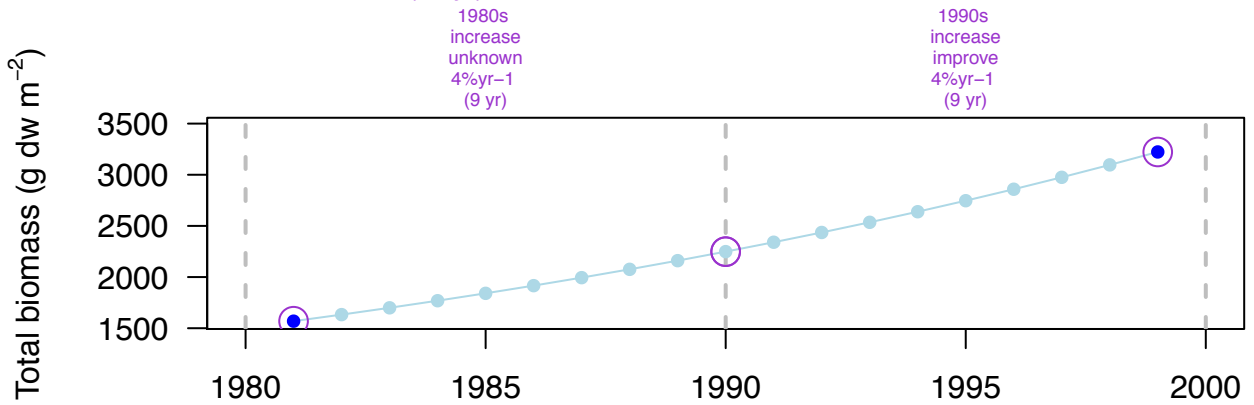
99_biomass

Milchakova and Phillips 2003

SITE: Streletszkaya Bay (Ukraine – Mediterranean) – Zm (-2 m)

OVERALL: Net = 1654 g dw m⁻²; Rate = 4 % yr⁻¹; Perc Final = 205 % > increase

DECADAL: YES (18 yr)



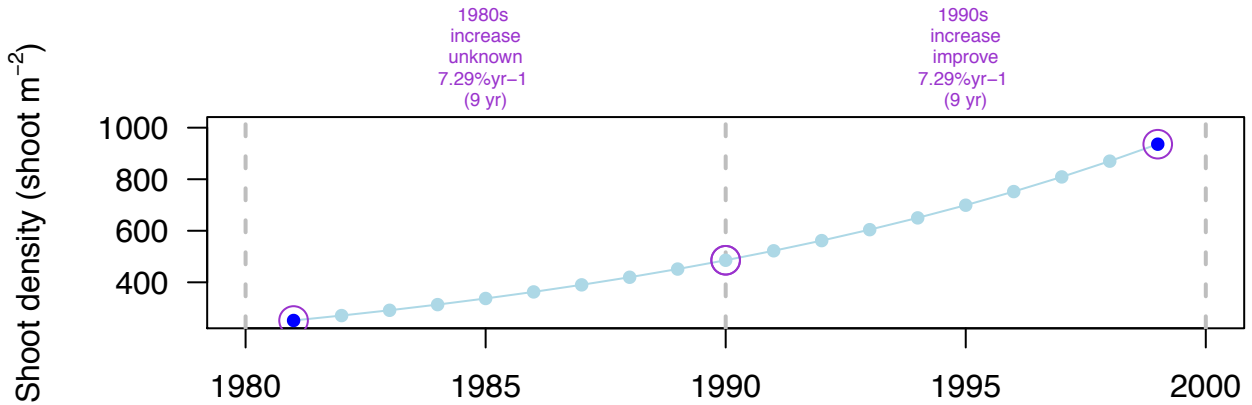
99_density

Milchakova and Phillips 2003

SITE: Streletsкая Bay (Ukraine – Mediterranean) – Zm (-2 m)

OVERALL: Net = 684 shoot m⁻²; Rate = 7.29 % yr⁻¹; Perc Final = 371 % > increase

DECADAL: YES (18 yr)



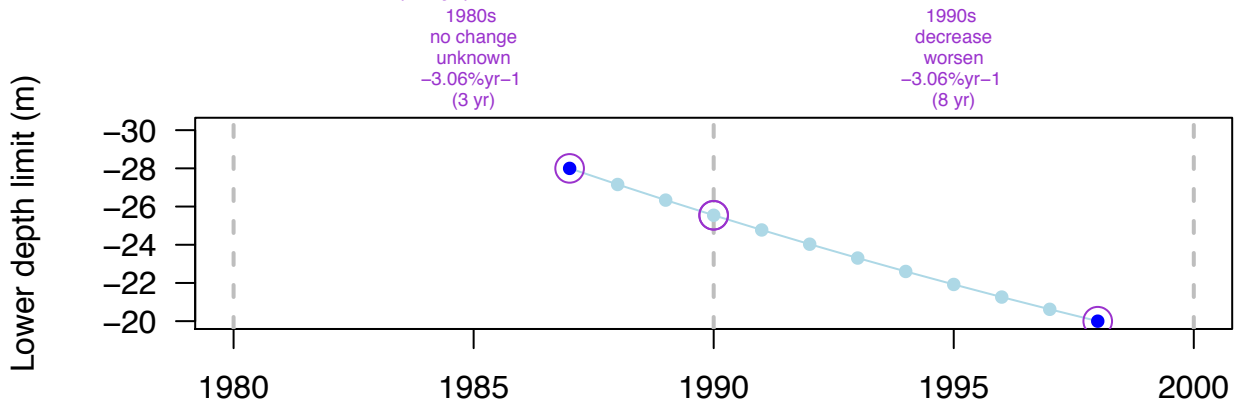
100_lowerlimit

Dural et al. 2012

SITE: Hekim Island (Turkey – Mediterranean) – Po (? m)

OVERALL: Net = -8 m; Rate = -3.06 % yr⁻¹; Perc Final = 71 % > decrease

DECADAL: YES (11 yr)



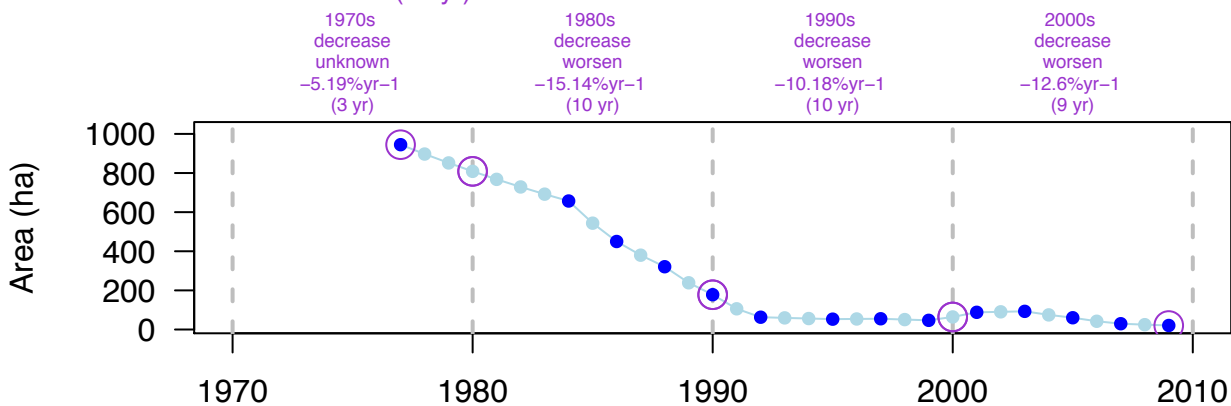
101_area

de Jong (unpublished)

SITE: Eastern Scheldt (The Netherlands – Atlantic) – Zn (0.4 m)

OVERALL: Net = -924.3 ha; Rate = -11.94 % yr⁻¹; Perc Final = 2 % > decrease

DECADAL: YES (32 yr)



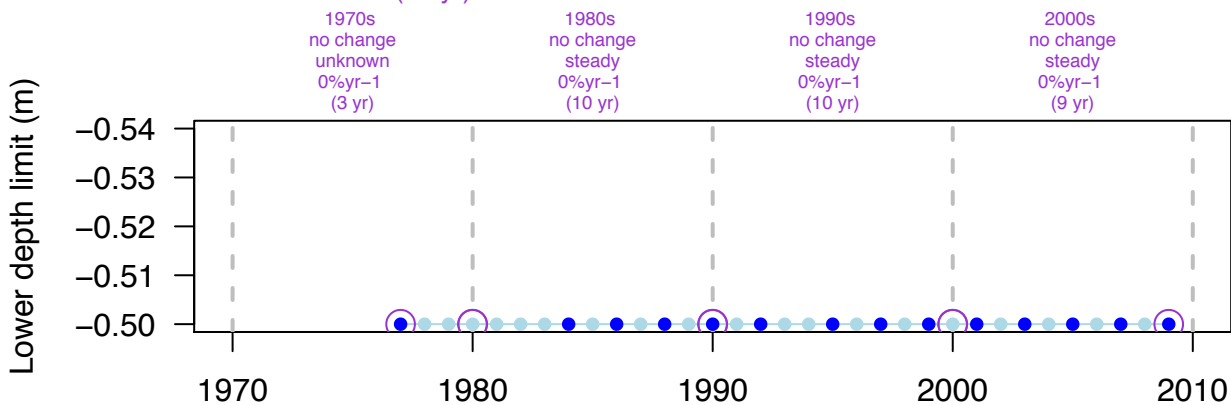
101_lowerlimit

de Jong (unpublished)

SITE: Eastern Scheldt (The Netherlands – Atlantic) – Zn (0.4 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (32 yr)



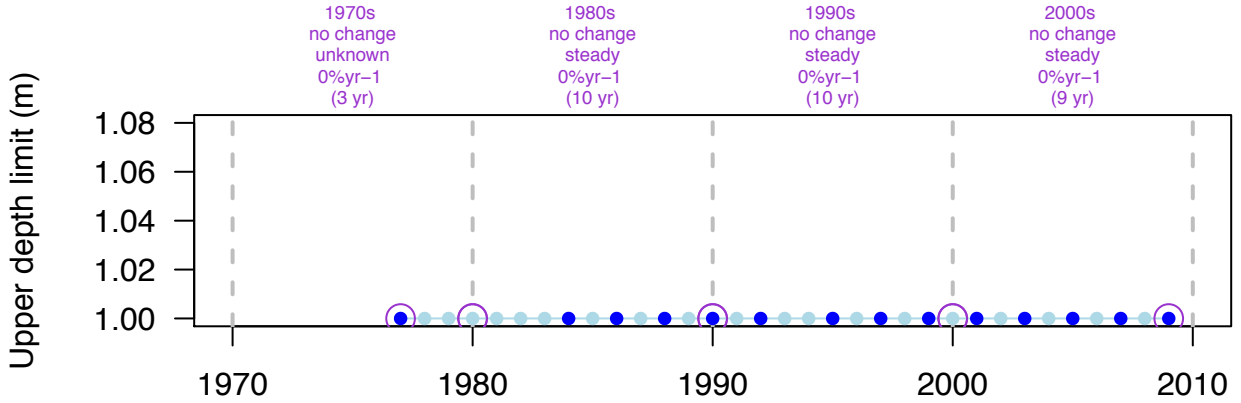
101_upperlimit

de Jong (unpublished)

SITE: Eastern Scheldt (The Netherlands – Atlantic) – Zn (0.4 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (32 yr)



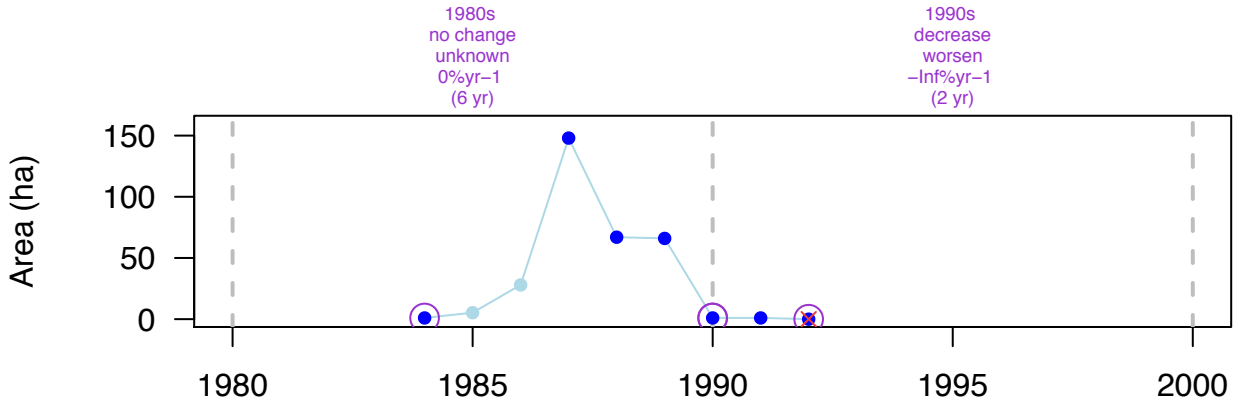
102_area

de Jong (unpublished)

SITE: Eastern Scheldt Galgeplaat (The Netherlands – Atlantic) – Zm (-0.2 m)

OVERALL: Net = -1 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (8 yr)



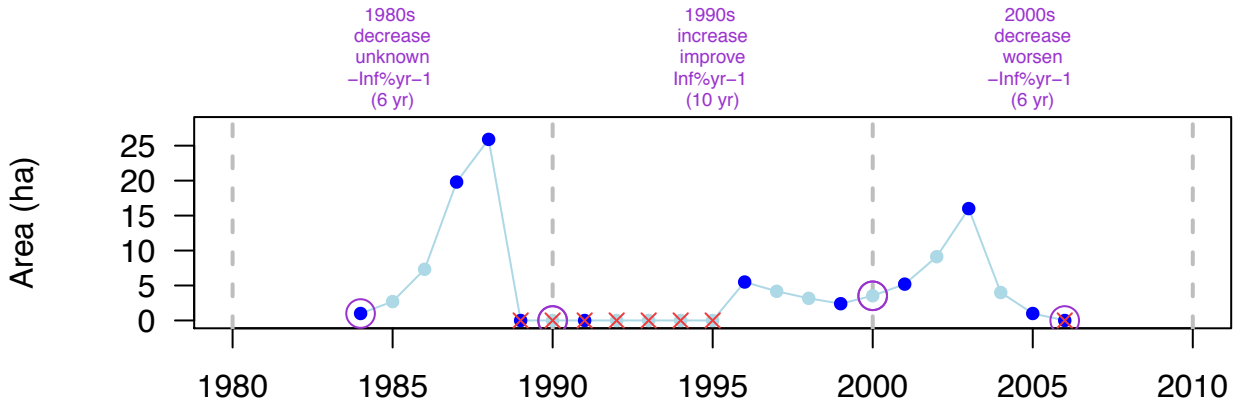
103_area

de Jong (unpublished)

SITE: Eastern Scheldt Roggenplaat (The Netherlands – Atlantic) – Zm (–0.1 m)

OVERALL: Net = –1 ha; Rate = NA % yr–1; Perc Final = NA % > decrease

DECADAL: YES (22 yr)



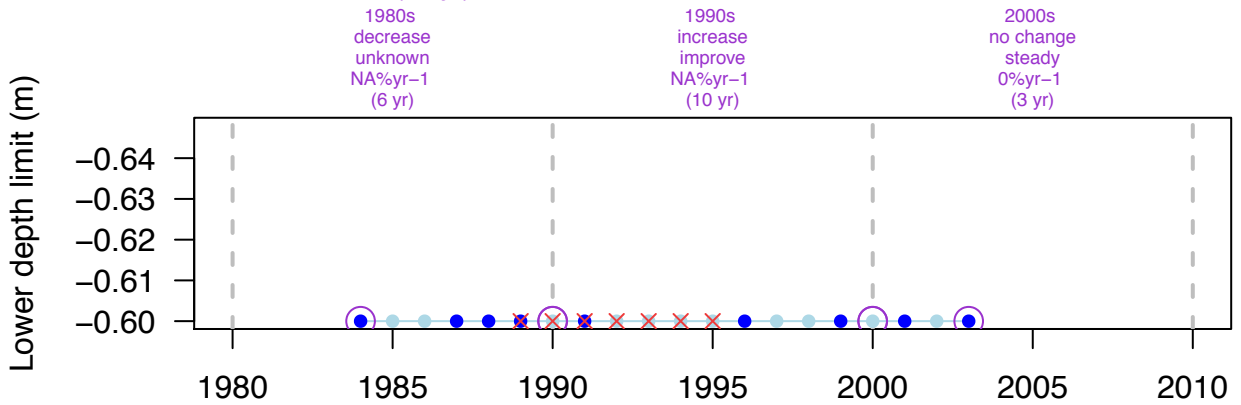
103_lowerlimit

de Jong (unpublished)

SITE: Eastern Scheldt Roggenplaat (The Netherlands – Atlantic) – Zm (–0.1 m)

OVERALL: Net = 0 m; Rate = 0 % yr–1; Perc Final = 100 % > no change

DECADAL: YES (19 yr)



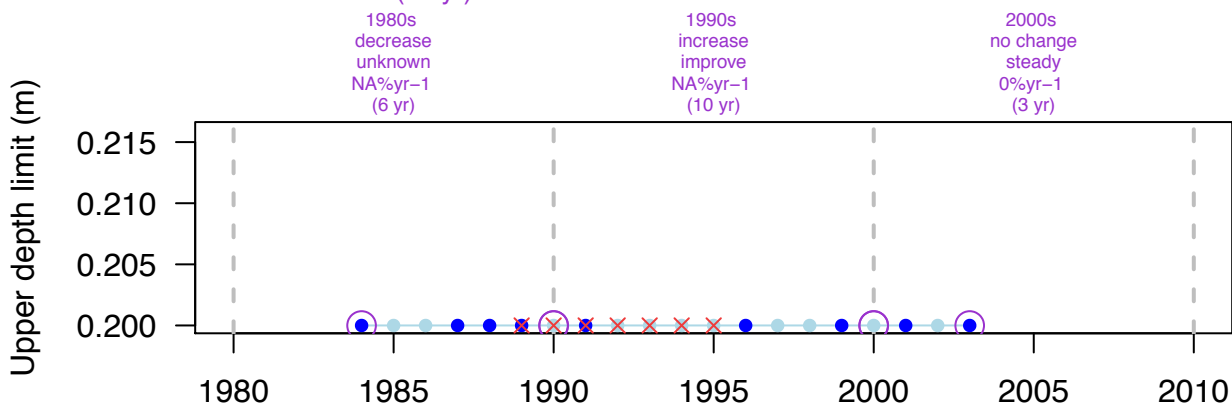
103_upperlimit

de Jong (unpublished)

SITE: Eastern Scheldt Roggenplaat (The Netherlands – Atlantic) – Zm (-0.1 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (19 yr)



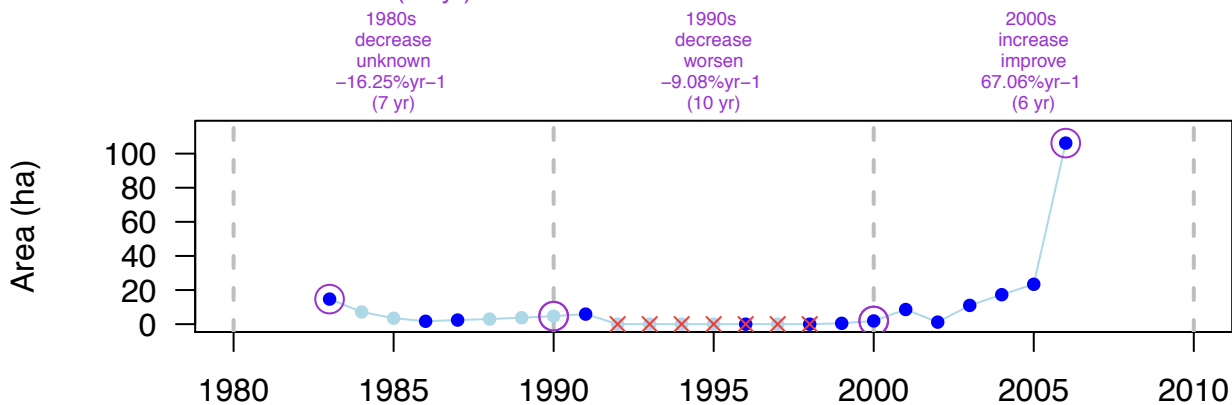
104_area

de Jong (unpublished)

SITE: Groningen kwelderwerken (The Netherlands – Atlantic) – Zn (0 m)

OVERALL: Net = 91.5 ha; Rate = 8.6 % yr⁻¹; Perc Final = 722 % > increase

DECADAL: YES (23 yr)



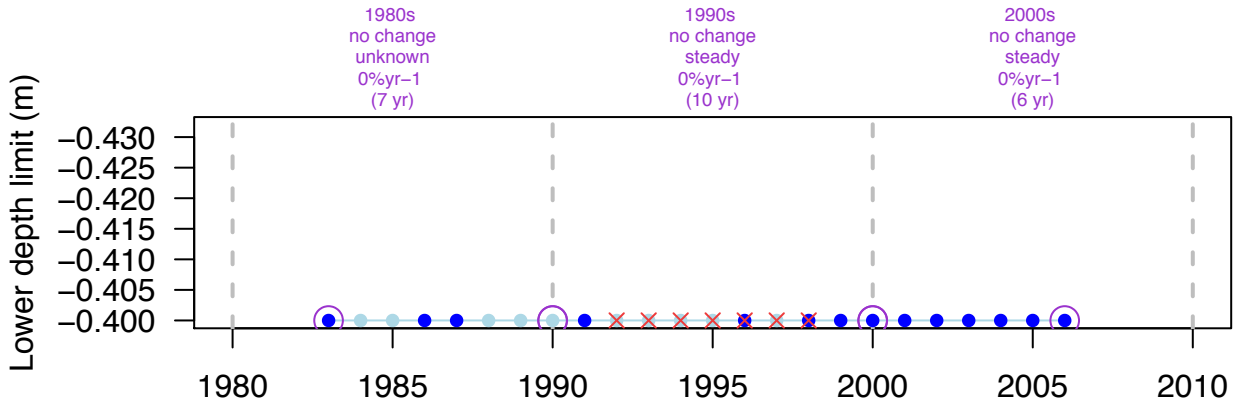
104_lowerlimit

de Jong (unpublished)

SITE: Groningen kwelderwerken (The Netherlands – Atlantic) – Zn (0 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (23 yr)



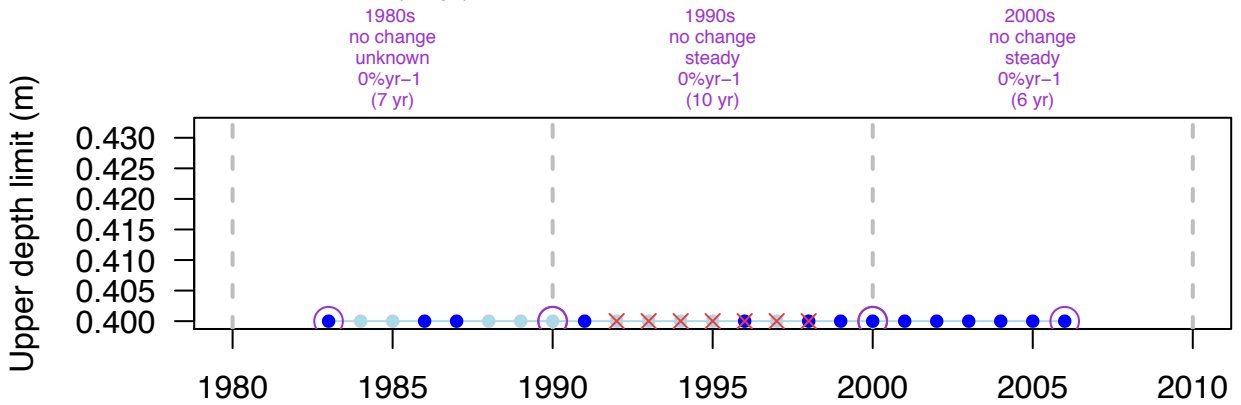
104_upperlimit

de Jong (unpublished)

SITE: Groningen kwelderwerken (The Netherlands – Atlantic) – Zn (0 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (23 yr)



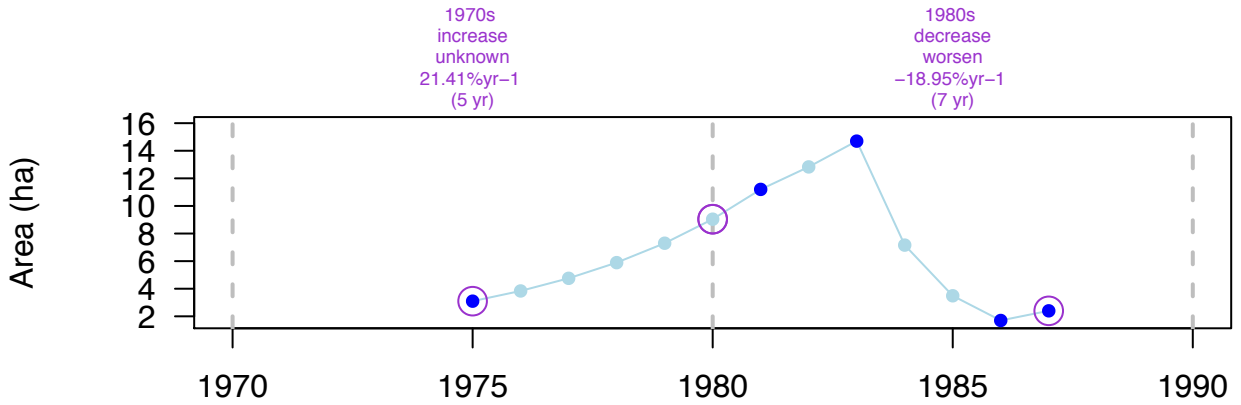
105_area

de Jong (unpublished)

SITE: Groningen kwelderwerken (The Netherlands – Atlantic) – Zm (0 m)

OVERALL: Net = -0.7 ha; Rate = -2.13 % yr⁻¹; Perc Final = 77 % > decrease

DECADAL: YES (12 yr)



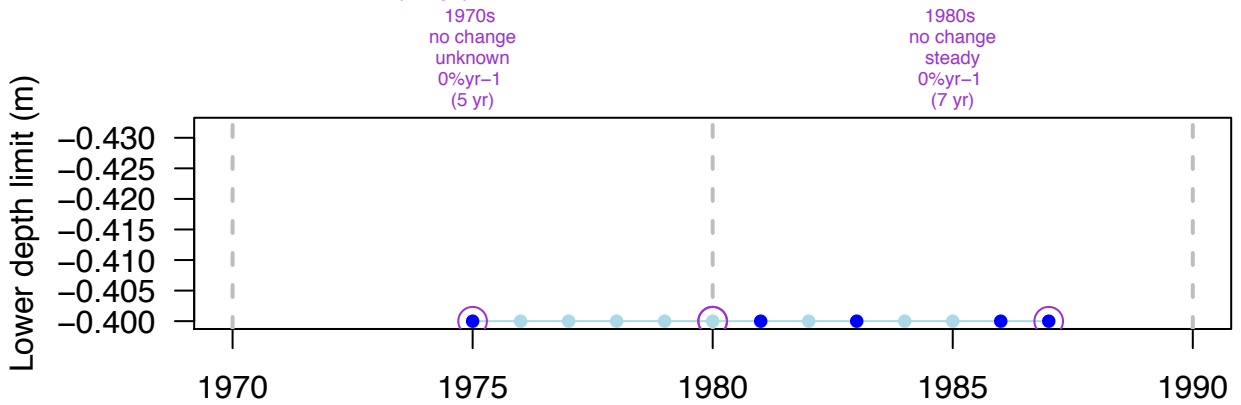
105_lowerlimit

de Jong (unpublished)

SITE: Groningen kwelderwerken (The Netherlands – Atlantic) – Zm (0 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (12 yr)



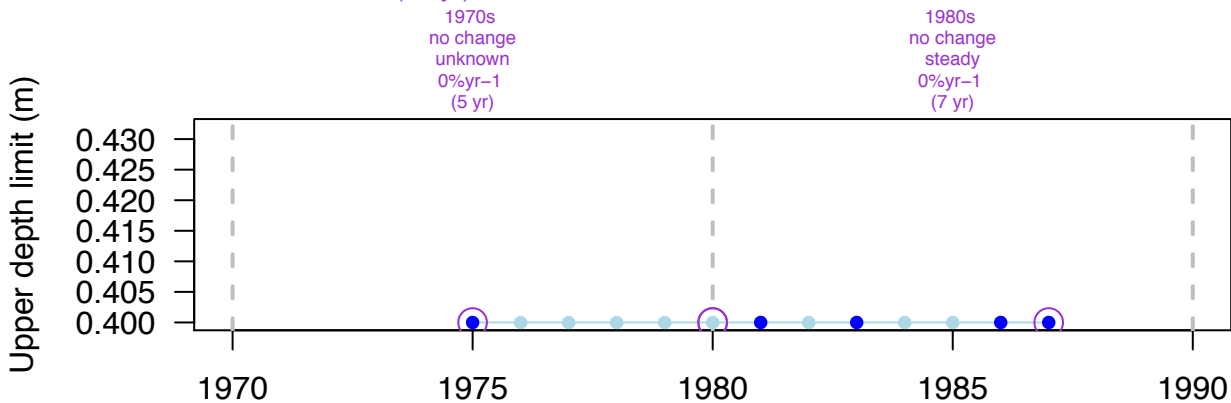
105_upperlimit

de Jong (unpublished)

SITE: Groningen kwelderwerken (The Netherlands – Atlantic) – Zm (0 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (12 yr)



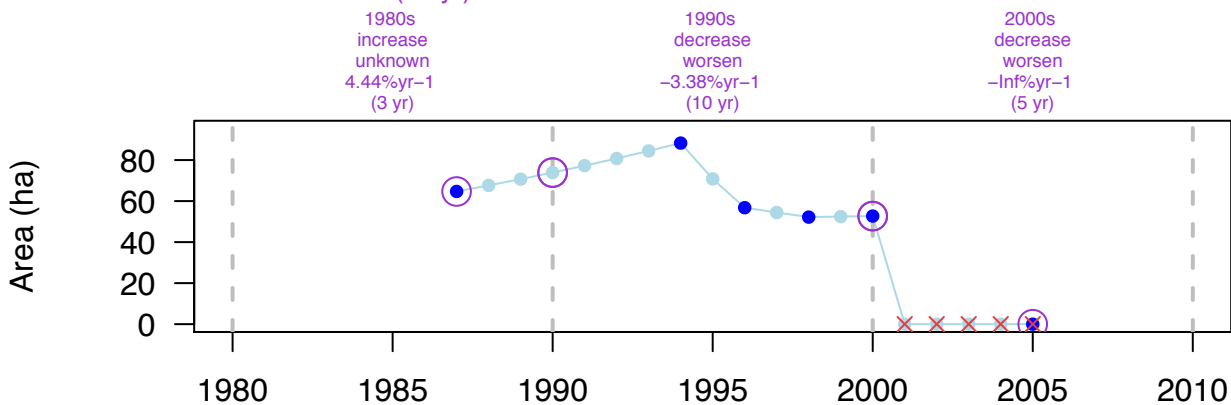
106_area

de Jong (unpublished)

SITE: Lake Veere (The Netherlands – Atlantic) – Zm (-2 m)

OVERALL: Net = -64.7 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (18 yr)



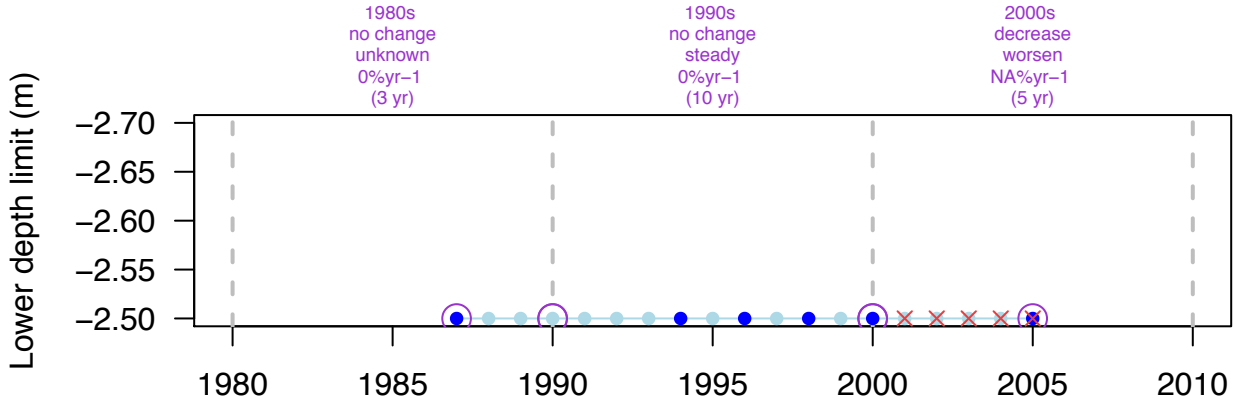
106_lowerlimit

de Jong (unpublished)

SITE: Lake Veere (The Netherlands – Atlantic) – Zm (-2 m)

OVERALL: Net = NA m; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (18 yr)



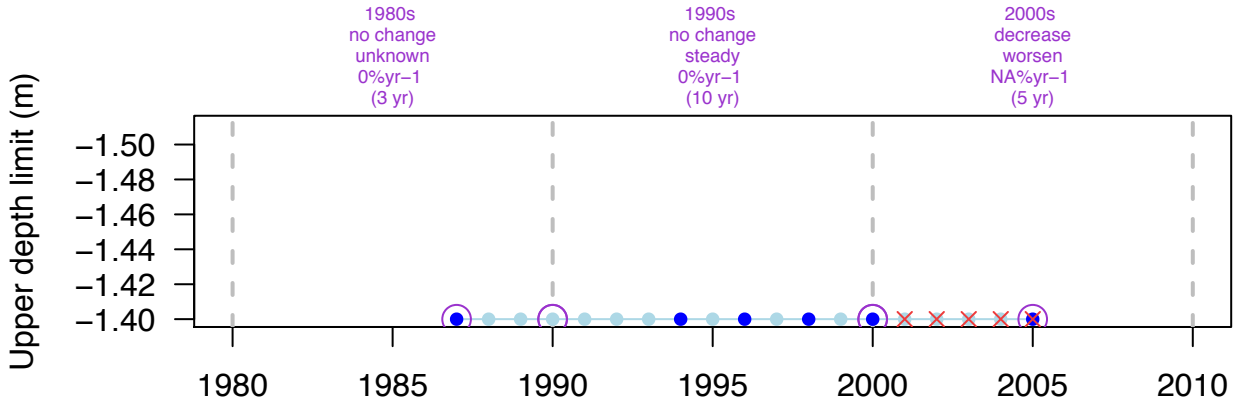
106_upperlimit

de Jong (unpublished)

SITE: Lake Veere (The Netherlands – Atlantic) – Zm (-2 m)

OVERALL: Net = NA m; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (18 yr)



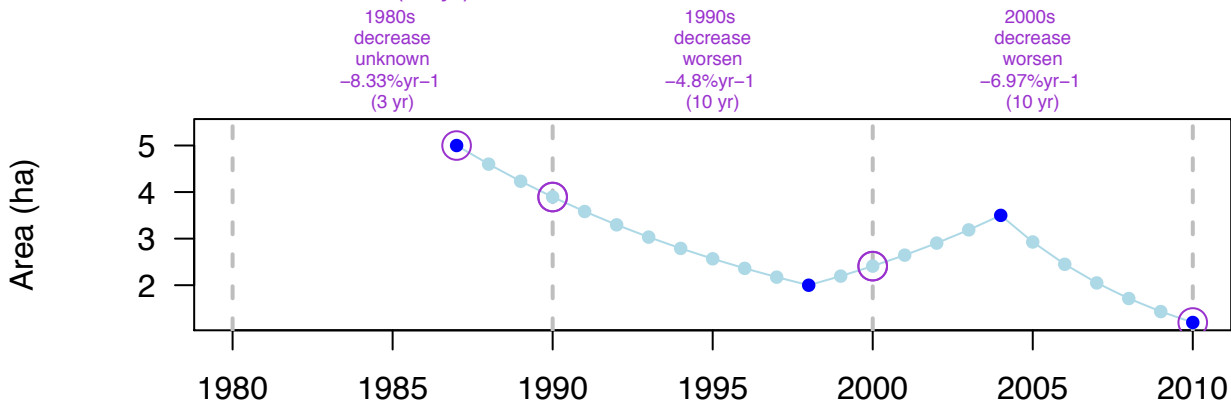
107_area

de Jong (unpublished)

SITE: Westerschelde Sloehaven (The Netherlands – Atlantic) – Zn (0.8 m)

OVERALL: Net = -3.8 ha; Rate = -6.2 % yr⁻¹; Perc Final = 24 % > decrease

DECADAL: YES (23 yr)



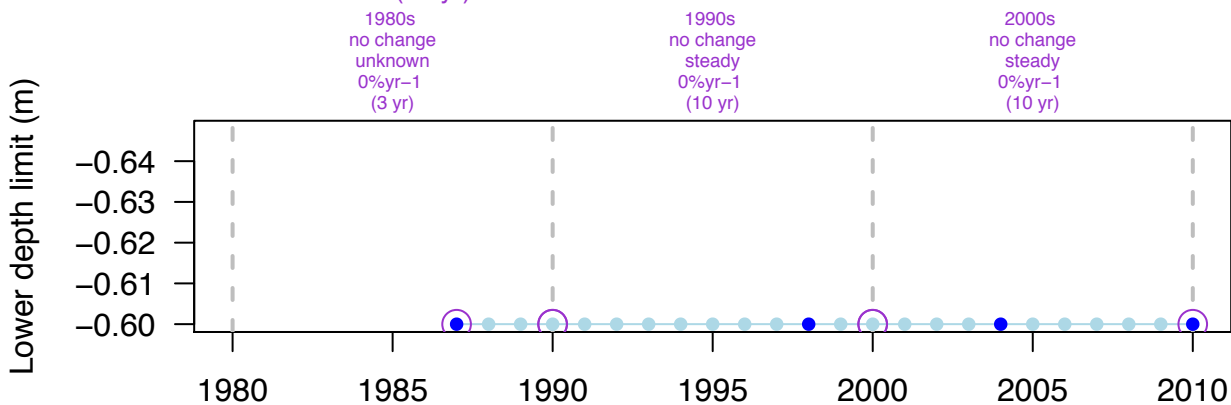
107_lowerlimit

de Jong (unpublished)

SITE: Westerschelde Sloehaven (The Netherlands – Atlantic) – Zn (0.8 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (23 yr)



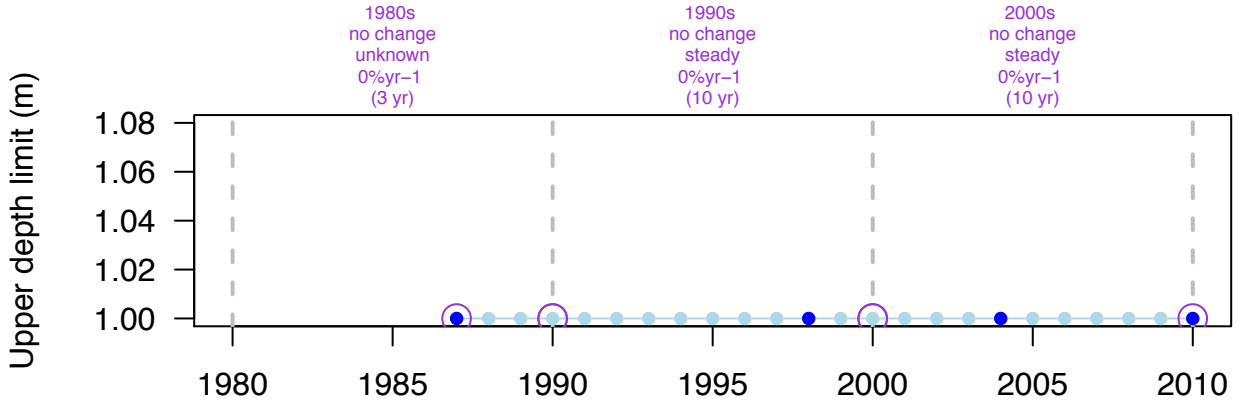
107_upperlimit

de Jong (unpublished)

SITE: Westerschelde Sloehaven (The Netherlands – Atlantic) – Zn (0.8 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (23 yr)



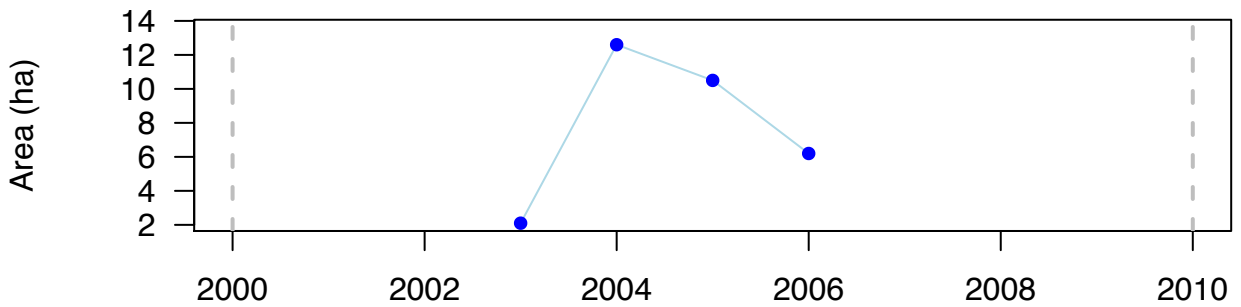
108_area

de Jong (unpublished)

SITE: Voolhok (The Netherlands – Atlantic) – Zm (0 m)

OVERALL: Net = 4.1 ha; Rate = 36.09 % yr⁻¹; Perc Final = 295 % > increase

DECADAL: NO (3 yr)



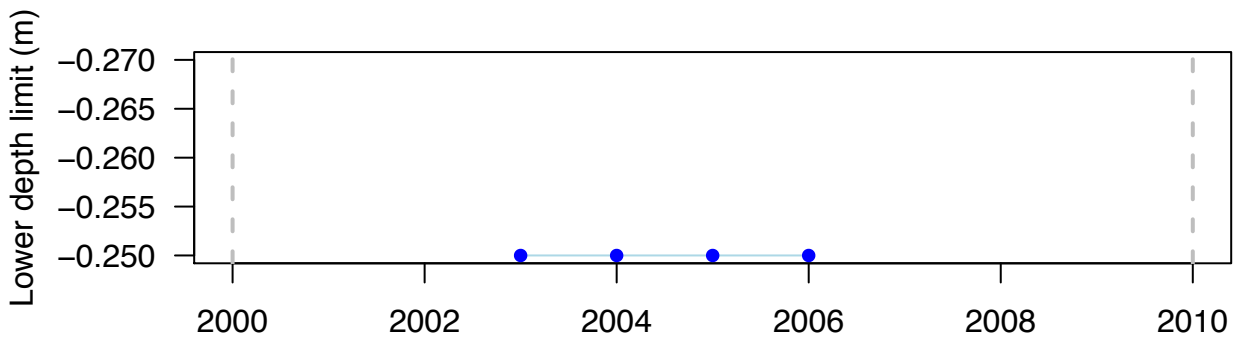
108_lowerlimit

de Jong (unpublished)

SITE: Voolhok (The Netherlands – Atlantic) – Zm (0 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (3 yr)



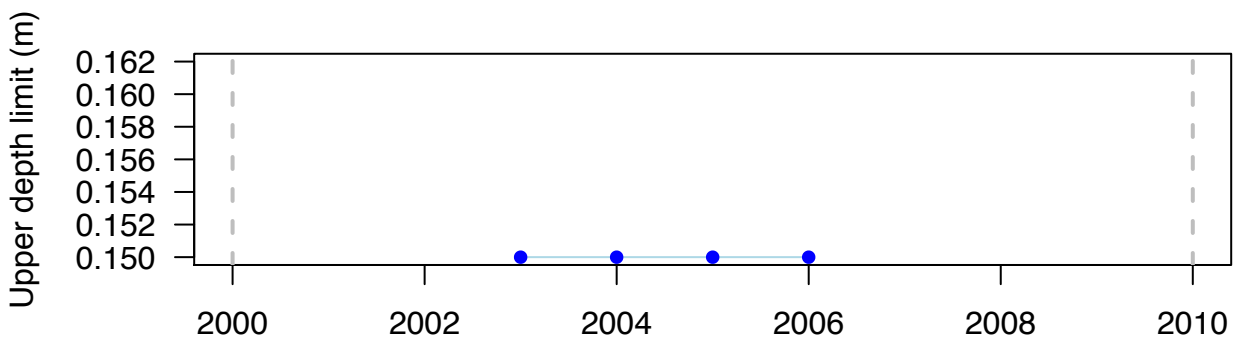
108_upperlimit

de Jong (unpublished)

SITE: Voolhok (The Netherlands – Atlantic) – Zm (0 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (3 yr)



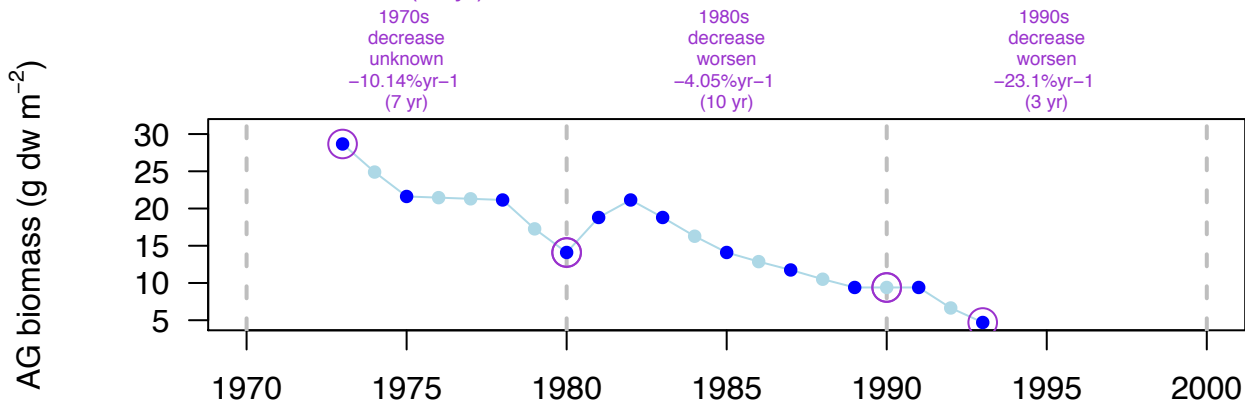
109_abiomass

Nienhuis et al. 1996, Herman et al. 1996, de Jong (unpublished)

SITE: Lake Grevelingen (The Netherlands – Atlantic) – Zm (-2 m)

OVERALL: Net = -23.97 g dw m⁻²; Rate = -9.04 % yr⁻¹; Perc Final = 16 % > decrease

DECADAL: YES (20 yr)



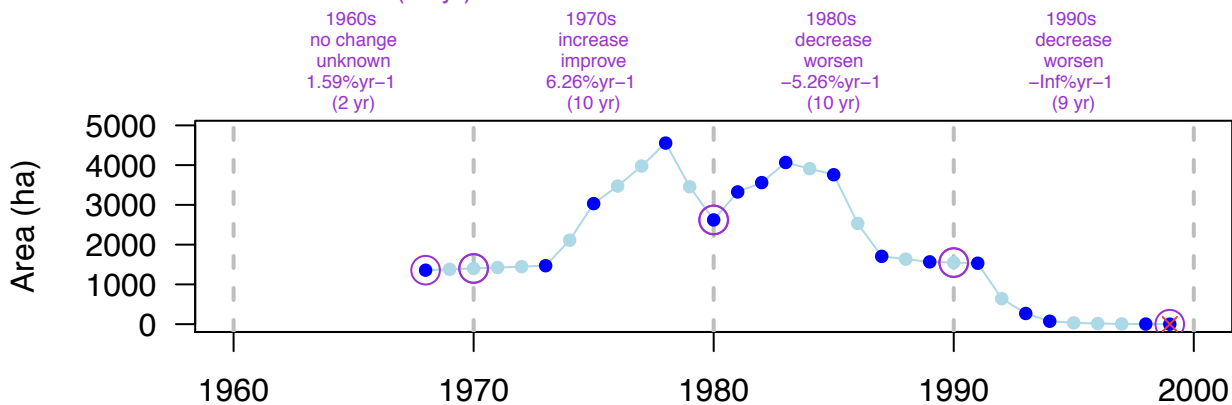
109_area

Nienhuis et al. 1996, Herman et al. 1996, de Jong (unpublished)

SITE: Lake Grevelingen (The Netherlands – Atlantic) – Zm (-2 m)

OVERALL: Net = -1357.9 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (31 yr)



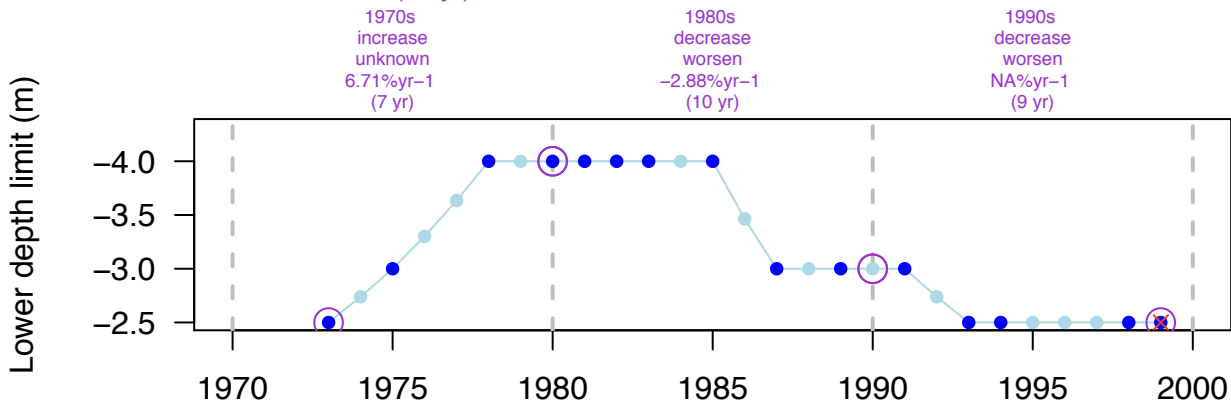
109_lowerlimit

Nienhuis et al. 1996, Herman et al. 1996, de Jong (unpublished)

SITE: Lake Grevelingen (The Netherlands – Atlantic) – Zm (-2 m)

OVERALL: Net = NA m; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (26 yr)



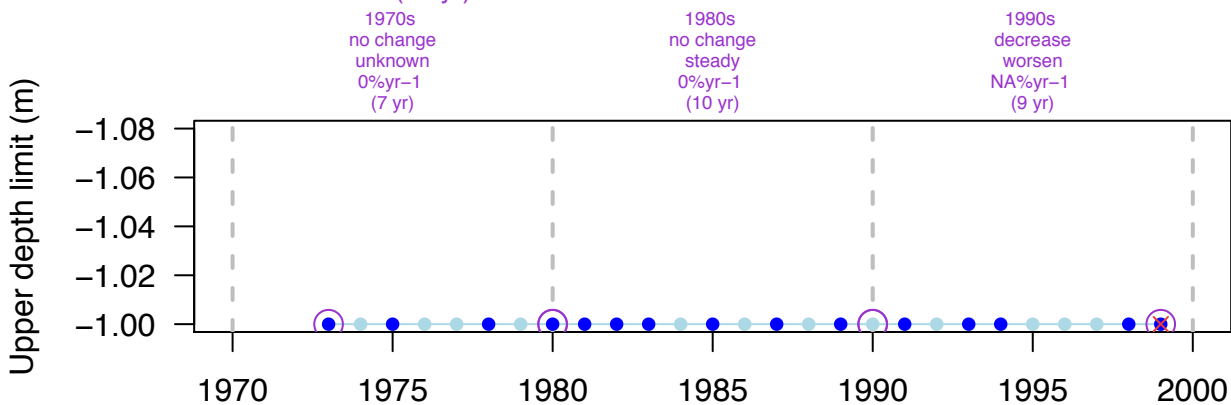
109_upperlimit

Nienhuis et al. 1996, Herman et al. 1996, de Jong (unpublished)

SITE: Lake Grevelingen (The Netherlands – Atlantic) – Zm (-2 m)

OVERALL: Net = NA m; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (26 yr)



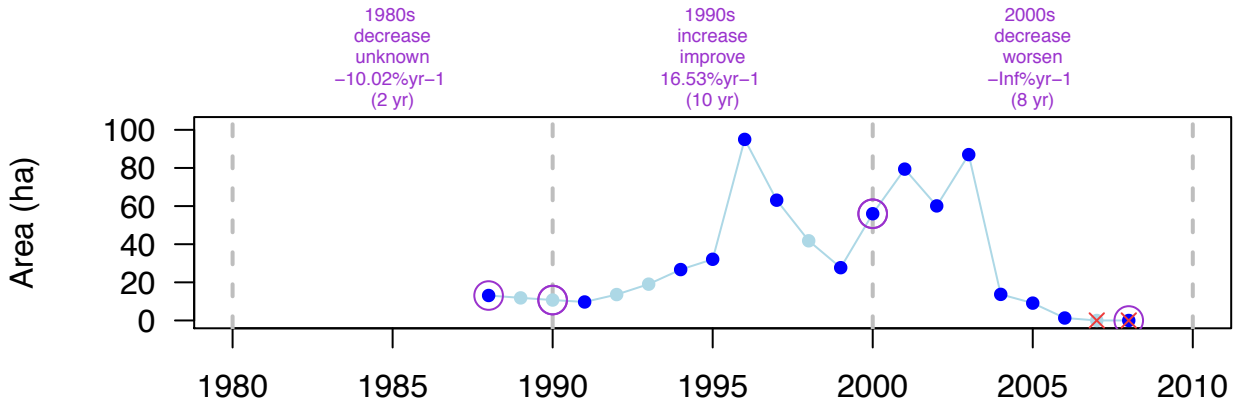
110_area

Valle et al. 2013

SITE: Hond Paap (The Netherlands – Atlantic) – Zm (0 m)

OVERALL: Net = -13.1 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (20 yr)



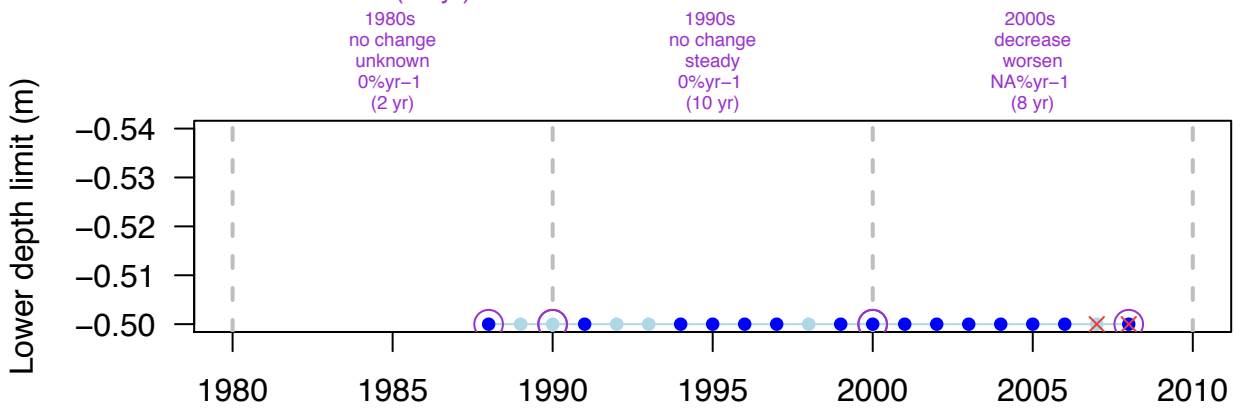
110_lowerlimit

Valle et al. 2013

SITE: Hond Paap (The Netherlands – Atlantic) – Zm (0 m)

OVERALL: Net = NA m; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (20 yr)



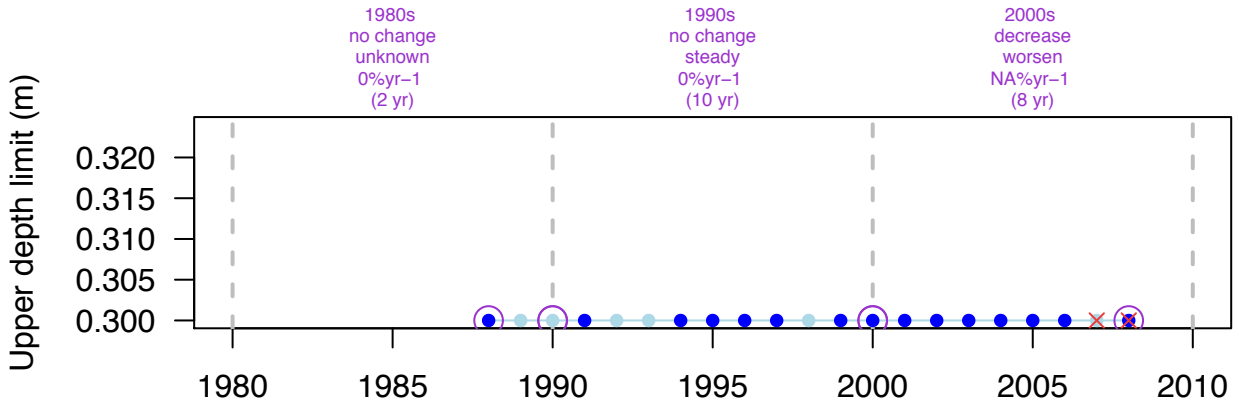
110_upperlimit

Valle et al. 2013

SITE: Hond Paap (The Netherlands – Atlantic) – Zm (0 m)

OVERALL: Net = NA m; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (20 yr)



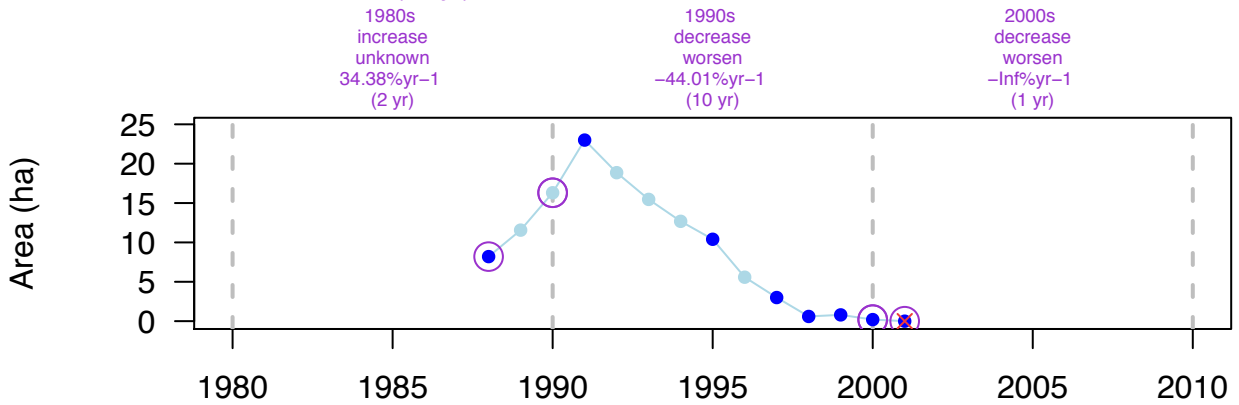
111_area

van Katwijk et al. 2010

SITE: Terschelling Haven (The Netherlands – Atlantic) – Zm (-0.3 m)

OVERALL: Net = -8.2 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (13 yr)



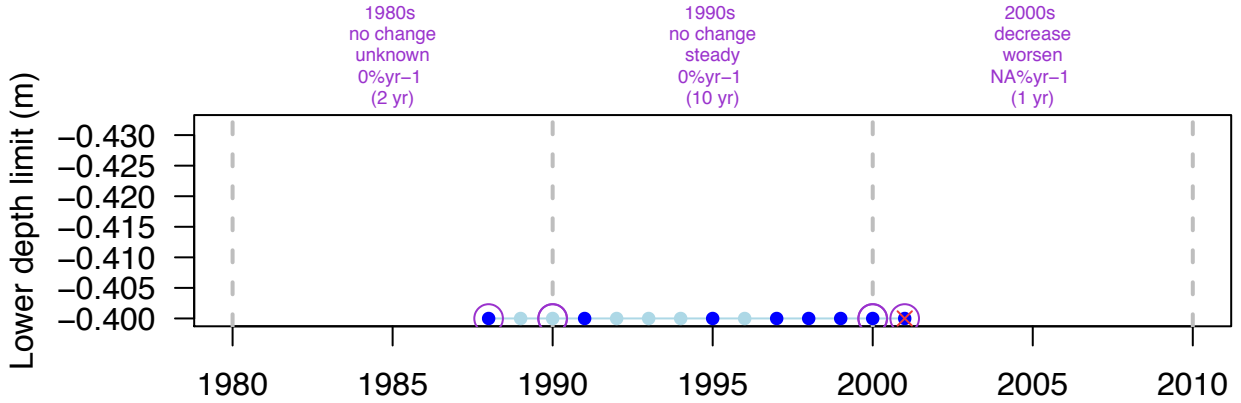
111_lowerlimit

van Katwijk et al. 2010

SITE: Terschelling Haven (The Netherlands – Atlantic) – Zm (-0.3 m)

OVERALL: Net = NA m; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (13 yr)



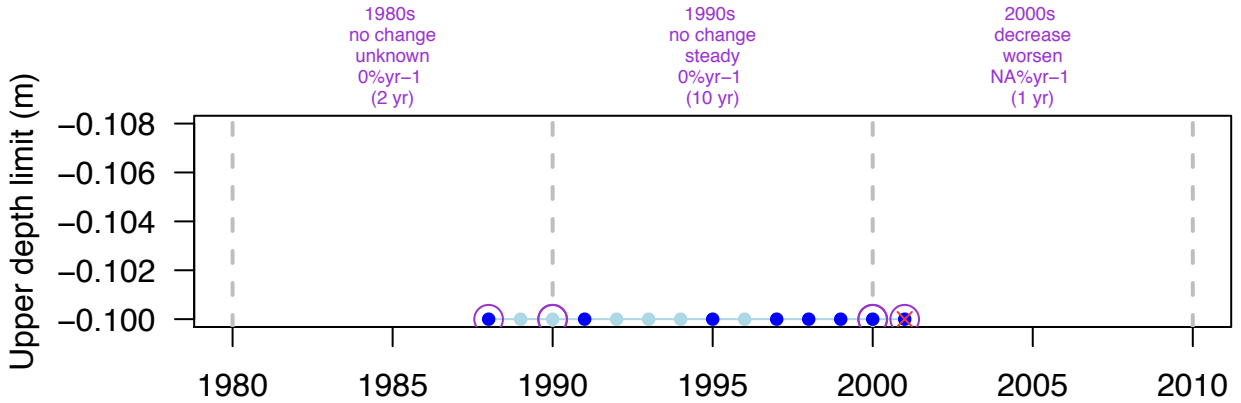
111_upperlimit

van Katwijk et al. 2010

SITE: Terschelling Haven (The Netherlands – Atlantic) – Zm (-0.3 m)

OVERALL: Net = NA m; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (13 yr)



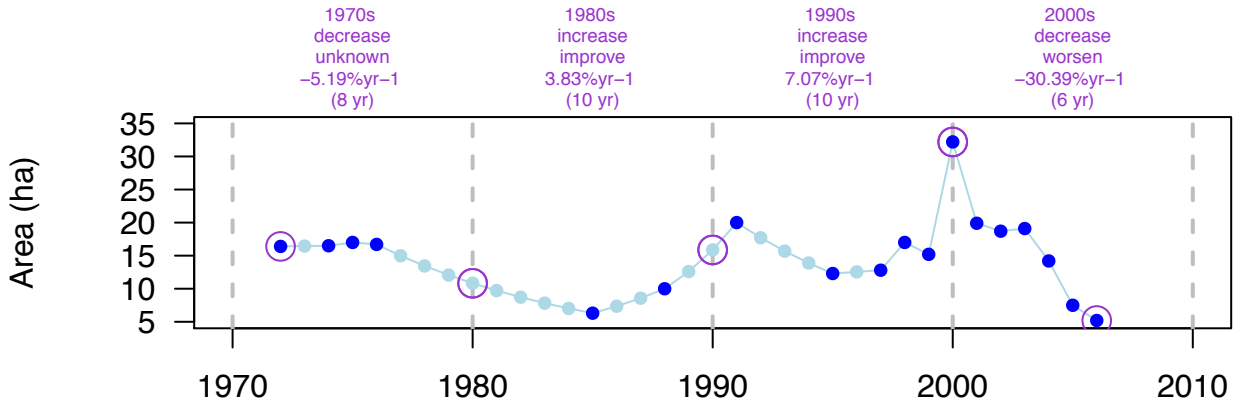
112_area

Polderman and den Hartog 1975, Braster and Carrière 1976, de Jong (unpublished)

SITE: Terschelling Hoorn (The Netherlands – Atlantic) – Zn (0.1 m)

OVERALL: Net = -11.2 ha; Rate = -3.38 % yr⁻¹; Perc Final = 32 % > decrease

DECADAL: YES (34 yr)



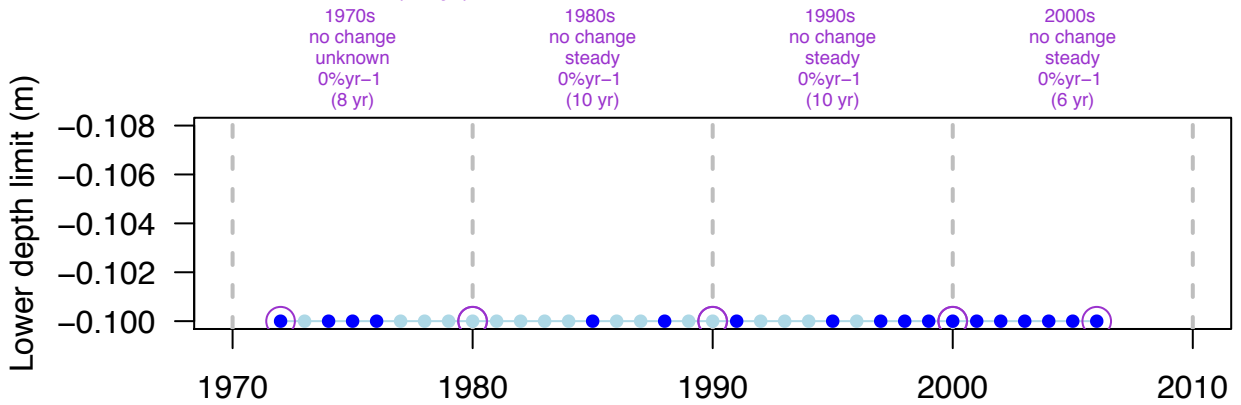
112_lowerlimit

Polderman and den Hartog 1975, Braster and Carrière 1976, de Jong (unpublished)

SITE: Terschelling Hoorn (The Netherlands – Atlantic) – Zn (0.1 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (34 yr)



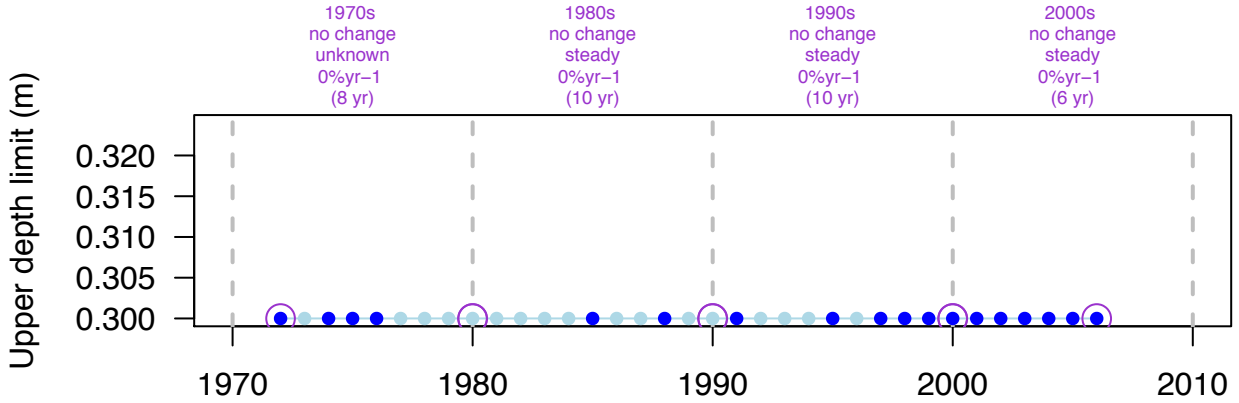
112_upperlimit

Polderman and den Hartog 1975, Braster and Carrière 1976, de Jong (unpublished)

SITE: Terschelling Hoorn (The Netherlands – Atlantic) – Zn (0.1 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (34 yr)



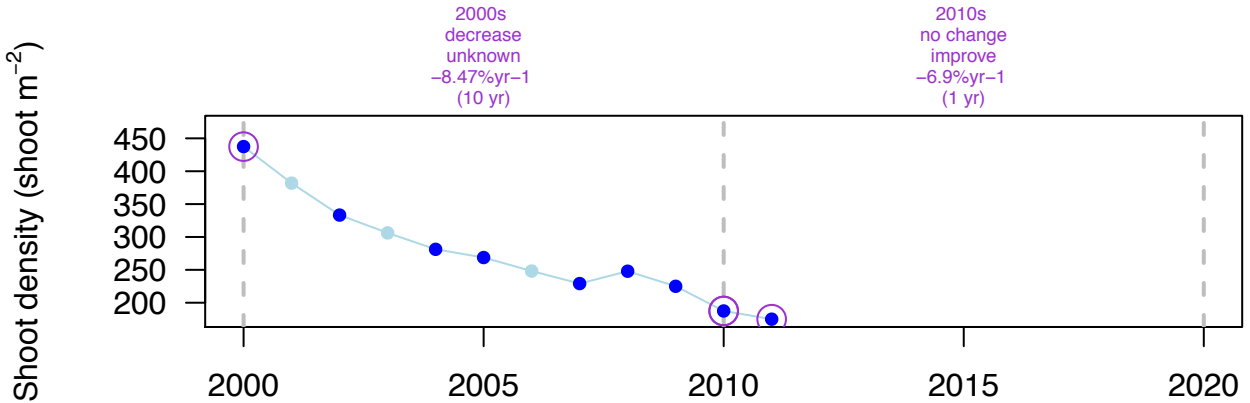
113_density

Marbà and Duarte 2010, Duarte and Marbà (unpublished)

SITE: El Castell (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -262.5 shoot m⁻²; Rate = -8.33 % yr⁻¹; Perc Final = 40 % > decrease

DECADAL: YES (11 yr)



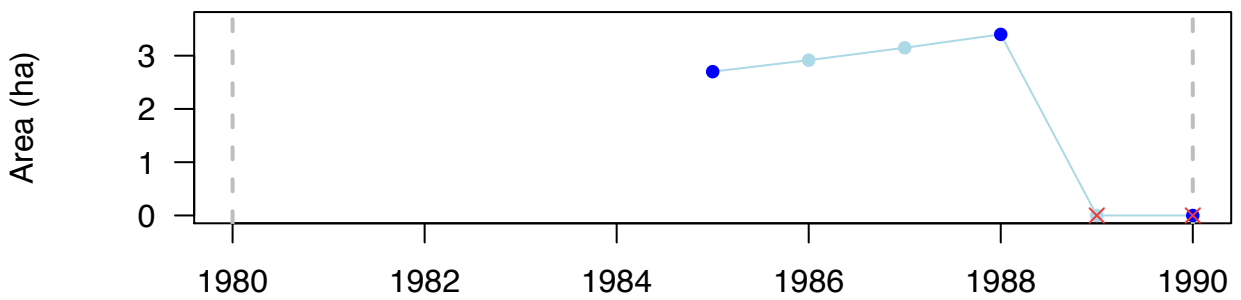
114_area

de Jong (unpublished)

SITE: Terschelling Keeg Ans (The Netherlands – Atlantic) – Zn (0.1 m)

OVERALL: Net = -2.7 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (5 yr)



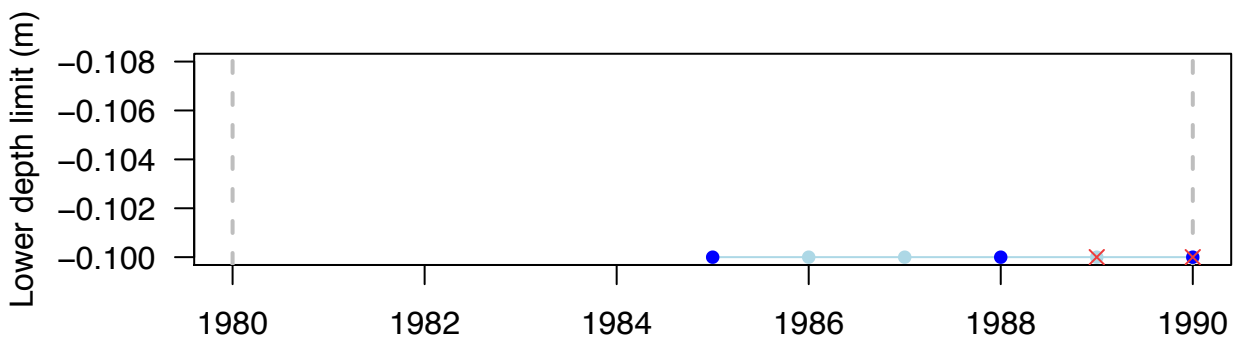
114_lowerlimit

de Jong (unpublished)

SITE: Terschelling Keeg Ans (The Netherlands – Atlantic) – Zn (0.1 m)

OVERALL: Net = NA m; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (5 yr)



114_upperlimit

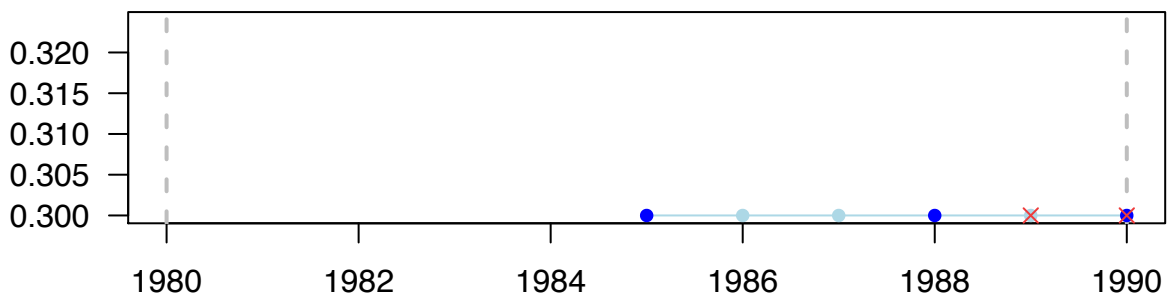
de Jong (unpublished)

SITE: Terschelling Keeg Ans (The Netherlands – Atlantic) – Zn (0.1 m)

OVERALL: Net = NA m; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (5 yr)

Upper depth limit (m)



115_density

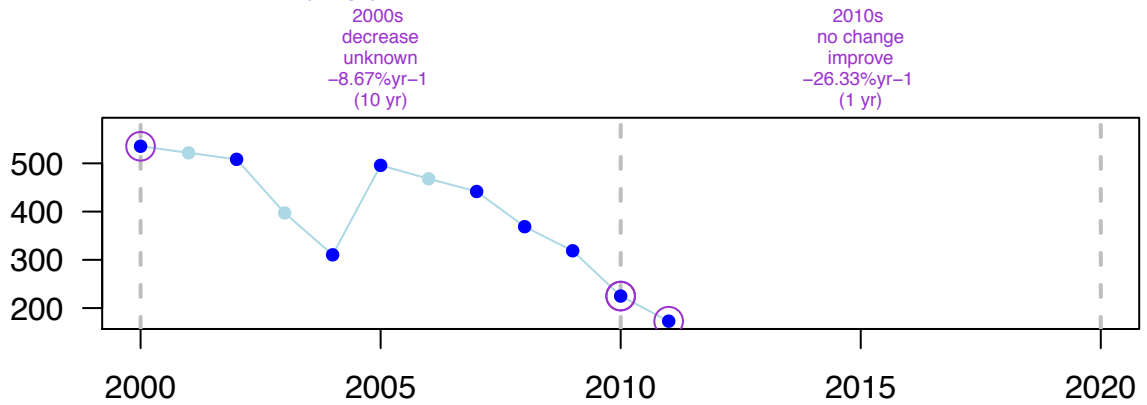
Marbà and Duarte 2010, Duarte and Marbà (unpublished)

SITE: El Castell (Spain – Mediterranean) – Po (–10 m)

OVERALL: Net = –362.5 shoot m⁻²; Rate = –10.27 % yr⁻¹; Perc Final = 32 % > decrease

DECADAL: YES (11 yr)

Shoot density (shoot m⁻²)



116_biomass

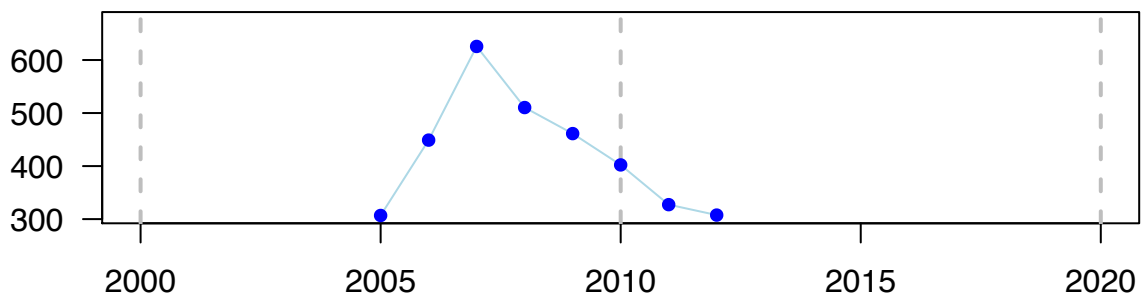
Peralta et al. (unpublished)

SITE: Santibañez (Spain – Atlantic) – Cn (-0.1 m)

OVERALL: Net = 0.73 g dw m⁻²; Rate = 0.03 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (7 yr)

Total biomass (g dw m⁻²)



116_density

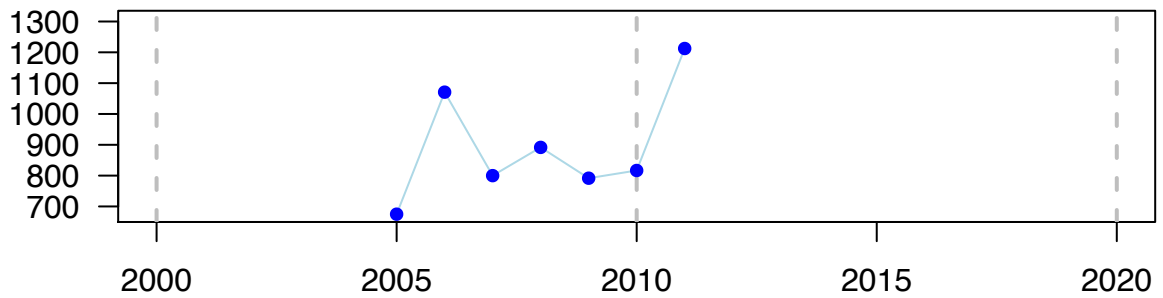
Peralta et al. (unpublished)

SITE: Santibañez (Spain – Atlantic) – Cn (-0.1 m)

OVERALL: Net = 537.5 shoot m⁻²; Rate = 9.76 % yr⁻¹; Perc Final = 180 % > increase

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



117_biomass

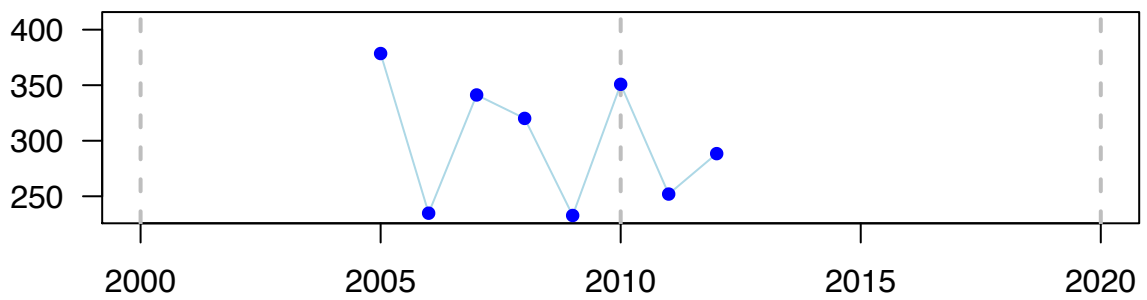
Peralta et al. (unpublished)

SITE: Santibañez (Spain – Atlantic) – Cn (–0.5 m)

OVERALL: Net = –90.12 g dw m⁻²; Rate = –3.88 % yr⁻¹; Perc Final = 76 % > no change

DECADAL: NO (7 yr)

Total biomass (g dw m⁻²)



117_density

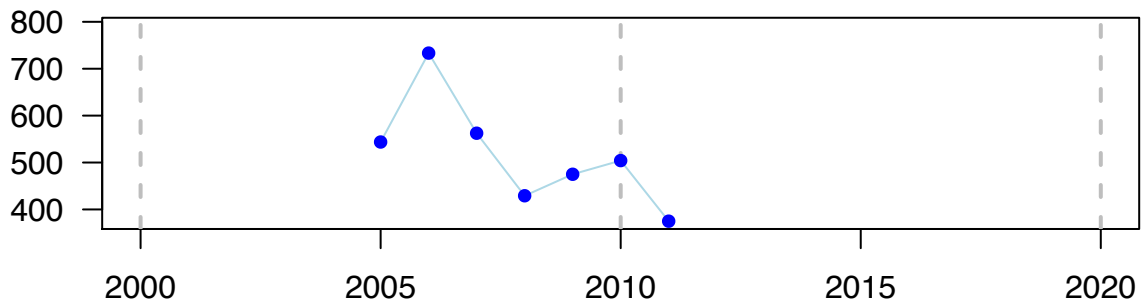
Peralta et al. (unpublished)

SITE: Santibañez (Spain – Atlantic) – Cn (–0.5 m)

OVERALL: Net = –168.75 shoot m⁻²; Rate = –6.19 % yr⁻¹; Perc Final = 69 % > decrease

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



118_biomass

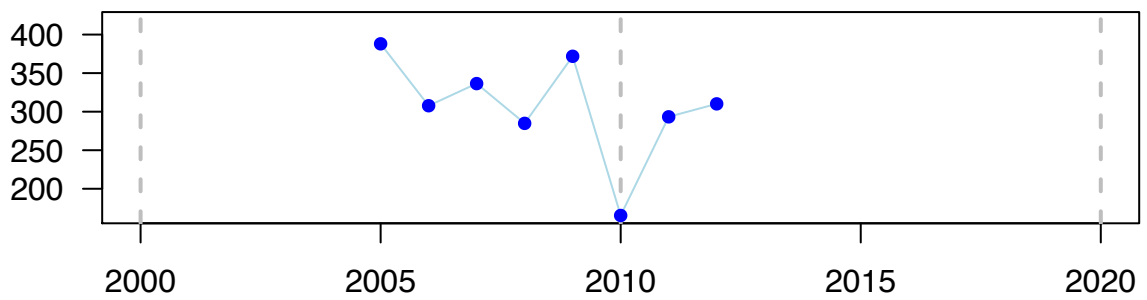
Peralta et al. (unpublished)

SITE: Santibañez (Spain – Atlantic) – Cn (0.4 m)

OVERALL: Net = $-77.88 \text{ g dw m}^{-2}$; Rate = -3.2 \% yr^{-1} ; Perc Final = 80 % > no change

DECADAL: NO (7 yr)

Total biomass (g dw m^{-2})



118_density

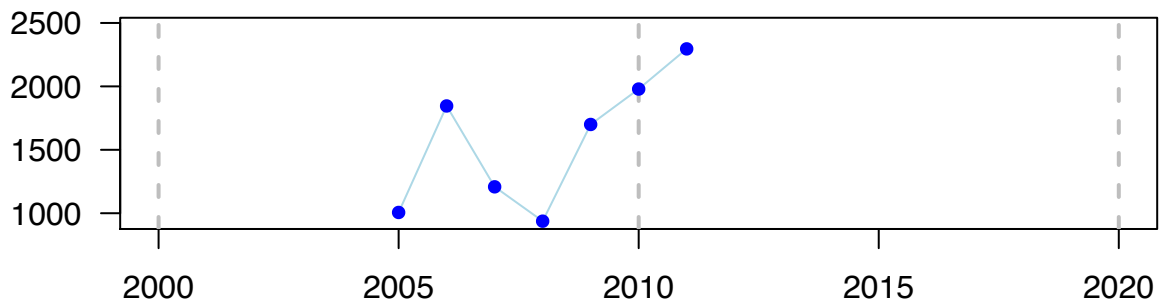
Peralta et al. (unpublished)

SITE: Santibañez (Spain – Atlantic) – Cn (0.4 m)

OVERALL: Net = $1289.58 \text{ shoot m}^{-2}$; Rate = 13.75 \% yr^{-1} ; Perc Final = 228 % > increase

DECADAL: NO (6 yr)

Shoot density (shoot m^{-2})



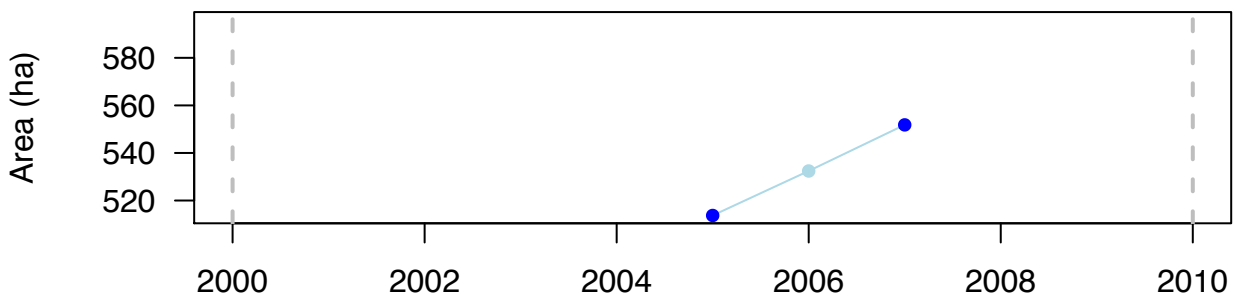
119_area

del Rei 2009

SITE: Inner Cádiz Bay (Spain – Atlantic) – Zn (? m)

OVERALL: Net = 38.1 ha; Rate = 3.58 % yr⁻¹; Perc Final = 107 % > no change

DECADAL: NO (2 yr)



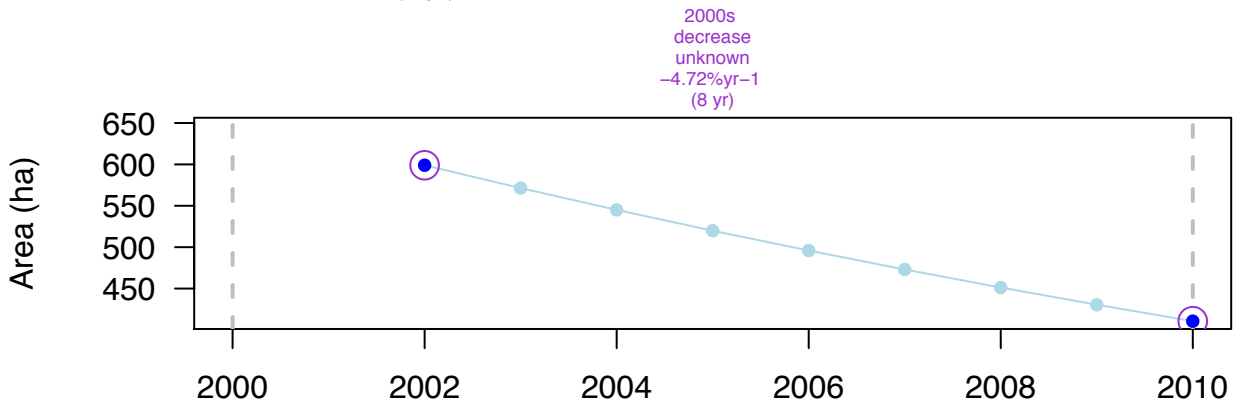
120_area

Muñoz-Ramos and Seglar (unpublished)

SITE: Mataró (Spain – Mediterranean) – Po (-16.2 m)

OVERALL: Net = -188.4 ha; Rate = -4.72 % yr⁻¹; Perc Final = 69 % > decrease

DECADAL: YES (8 yr)



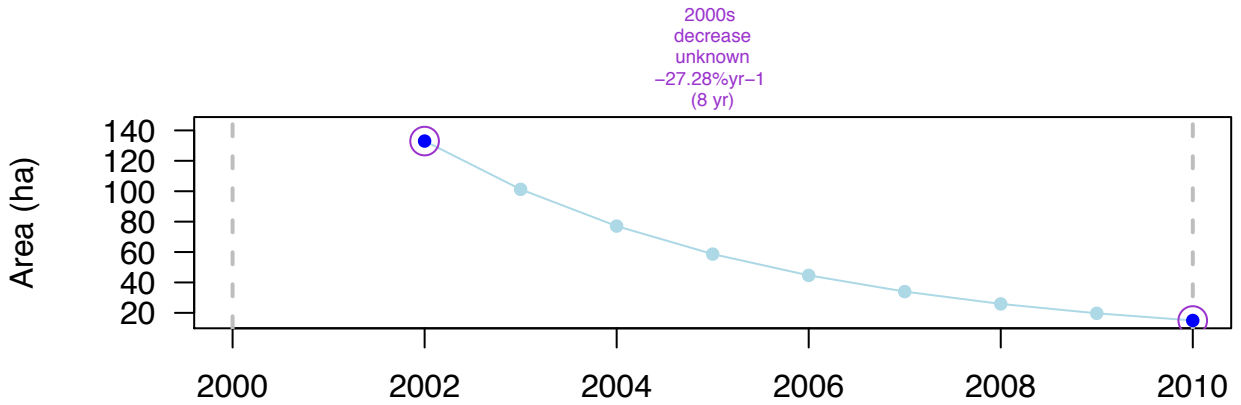
121_area

Muñoz-Ramos and Seglar (unpublished)

SITE: Mataró (Spain – Mediterranean) – Cn (-16.2 m)

OVERALL: Net = -118 ha; Rate = -27.28 % yr⁻¹; Perc Final = 11 % > decrease

DECADAL: YES (8 yr)



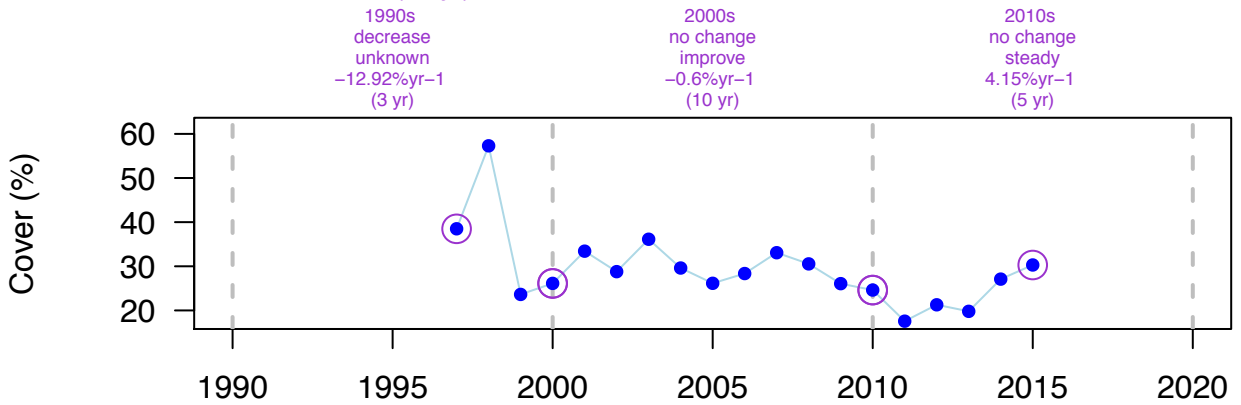
122_cover

Muñoz-Ramos and Seglar 2015

SITE: Estació Mataró I (Spain – Mediterranean) – Po (-12.5 m)

OVERALL: Net = -8.2 %; Rate = -1.33 % yr⁻¹; Perc Final = 79 % > no change

DECADAL: YES (18 yr)



122_density

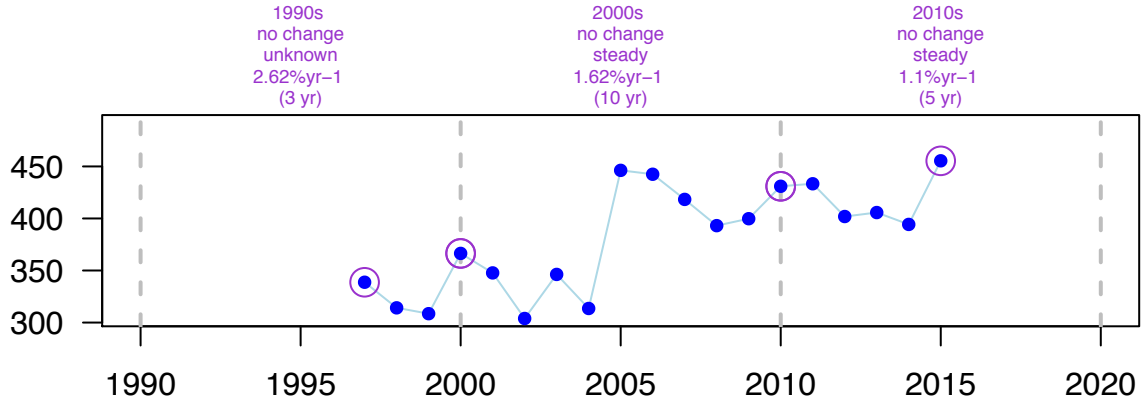
Muñoz-Ramos and Seglar 2015

SITE: Estació Mataró I (Spain – Mediterranean) – Po (-12.5 m)

OVERALL: Net = 116.65 shoot m⁻²; Rate = 1.64 % yr⁻¹; Perc Final = 134 % > increase

DECADAL: YES (18 yr)

Shoot density (shoot m⁻²)



123_cover

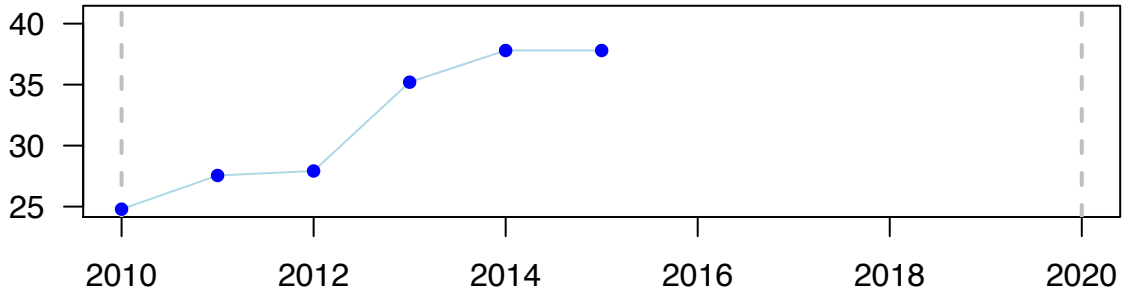
Muñoz-Ramos and Seglar 2015

SITE: Estació Mataró III (Spain – Mediterranean) – Po (-17 m)

OVERALL: Net = 13.01 %; Rate = 8.44 % yr⁻¹; Perc Final = 152 % > increase

DECADAL: NO (5 yr)

Cover (%)



123_density

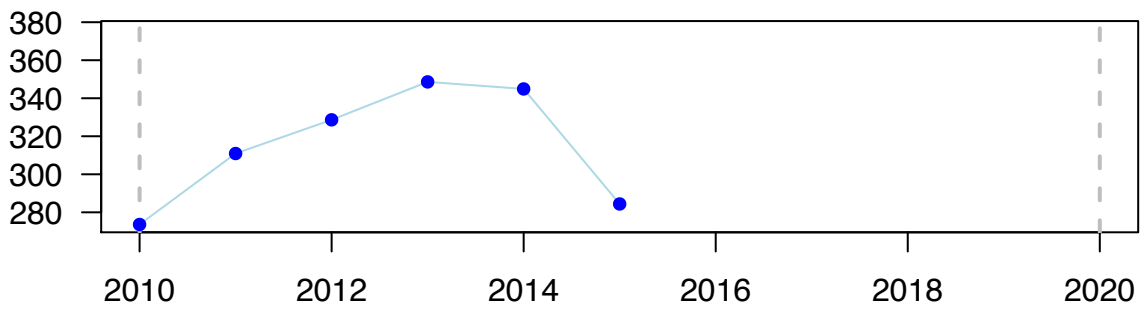
Muñoz-Ramos and Seglar 2015

SITE: Estació Mataró III (Spain – Mediterranean) – Po (-17 m)

OVERALL: Net = 10.79 shoot m⁻²; Rate = 0.77 % yr⁻¹; Perc Final = 104 % > no change

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



124_cover

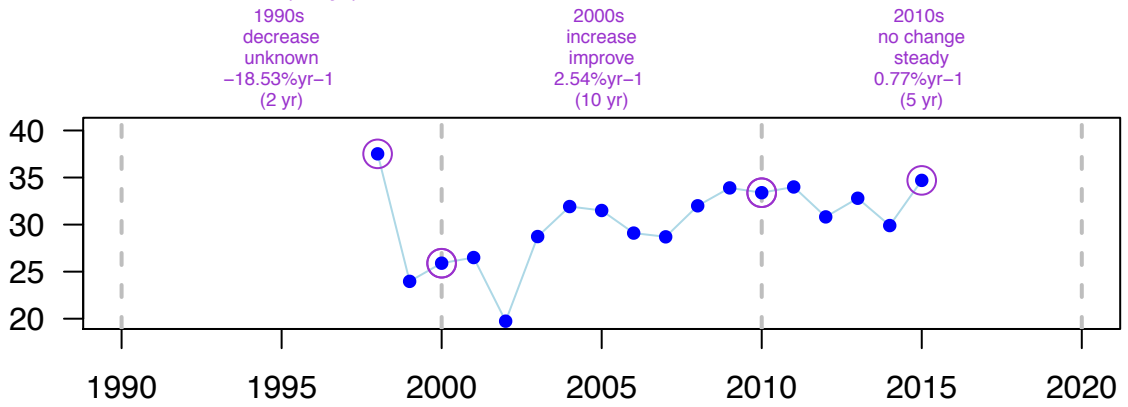
Muñoz-Ramos and Seglar 2015

SITE: Estació Mataró III (Spain – Mediterranean) – Po (-19 m)

OVERALL: Net = -2.82 %; Rate = -0.46 % yr⁻¹; Perc Final = 92 % > no change

DECADAL: YES (17 yr)

Cover (%)



124_density

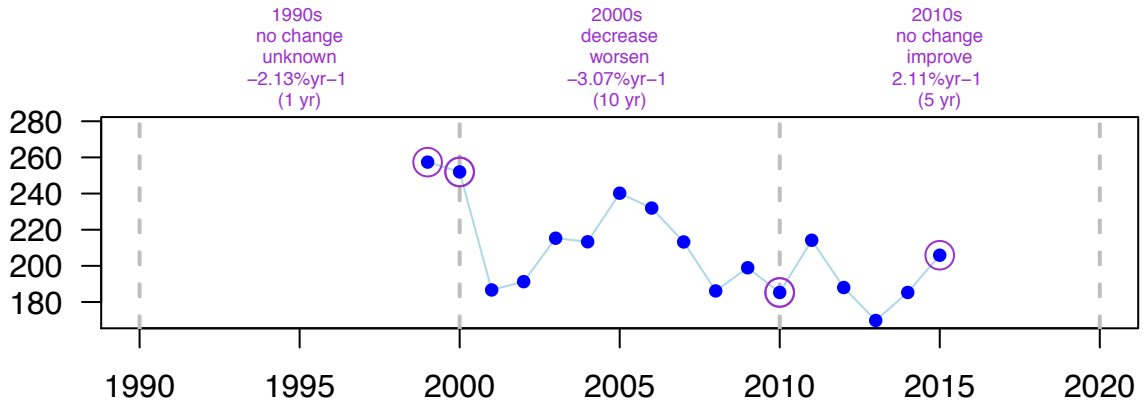
Muñoz-Ramos and Seglar 2015

SITE: Estació Mataró III (Spain – Mediterranean) – Po (-19 m)

OVERALL: Net = -51.5 shoot m⁻²; Rate = -1.4 % yr⁻¹; Perc Final = 80 % > no change

DECADAL: YES (16 yr)

Shoot density (shoot m⁻²)



125_density

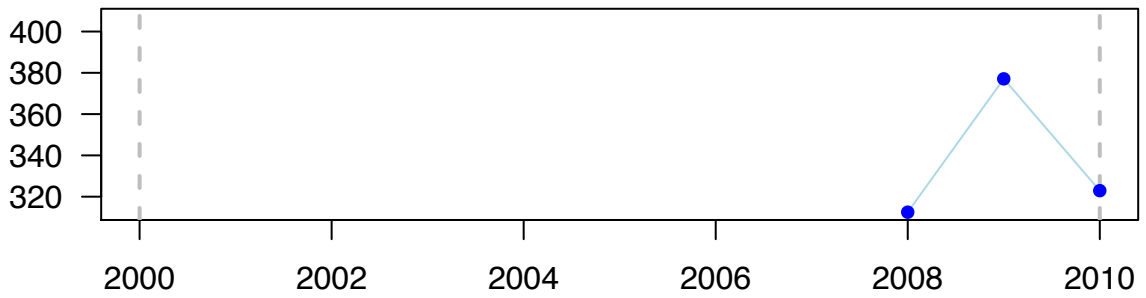
Roca et al. 2014

SITE: Marimurtra (control) (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = 10.42 shoot m⁻²; Rate = 1.64 % yr⁻¹; Perc Final = 103 % > no change

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



126_density

Roca et al. 2014

SITE: Port Blanes (impacted) (Spain – Mediterranean) – Po (–14 m)

OVERALL: Net = –152.09 shoot m⁻²; Rate = –26.79 % yr⁻¹; Perc Final = 59 % > decrease

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



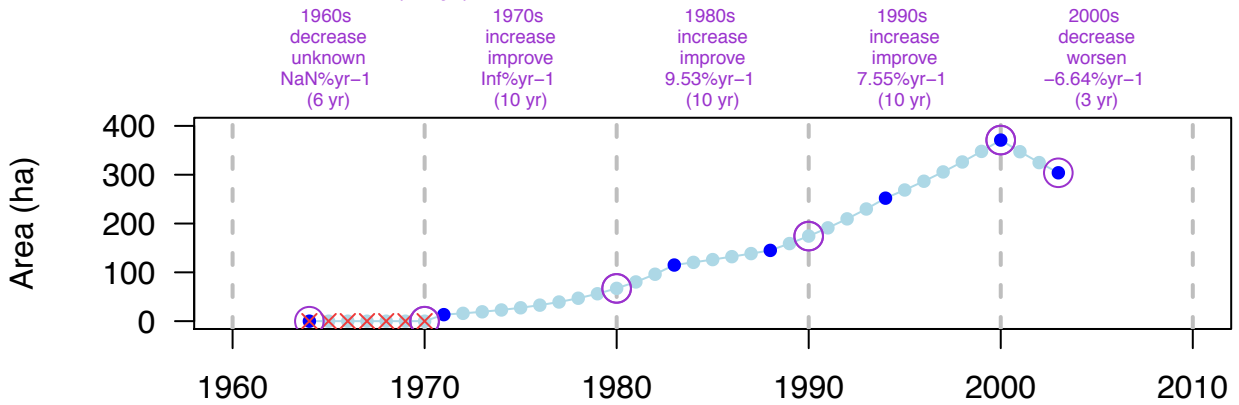
127_area

Mascaró 2011

SITE: Alfacs Bay (Spain – Mediterranean) – Cn (–1 m)

OVERALL: Net = 304 ha; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: YES (39 yr)



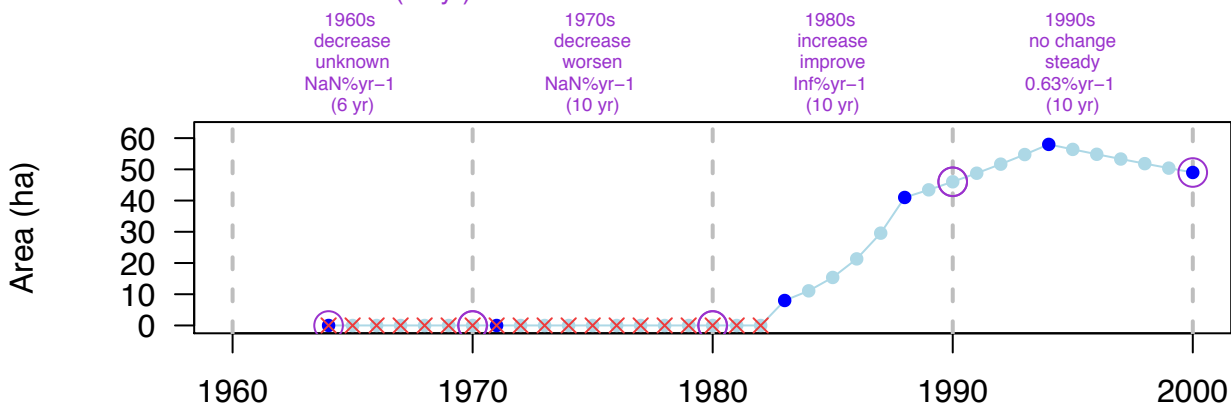
128_area

Mascaró 2011

SITE: Fangar Bay (Spain – Mediterranean) – Cn (-1 m)

OVERALL: Net = 49 ha; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: YES (36 yr)



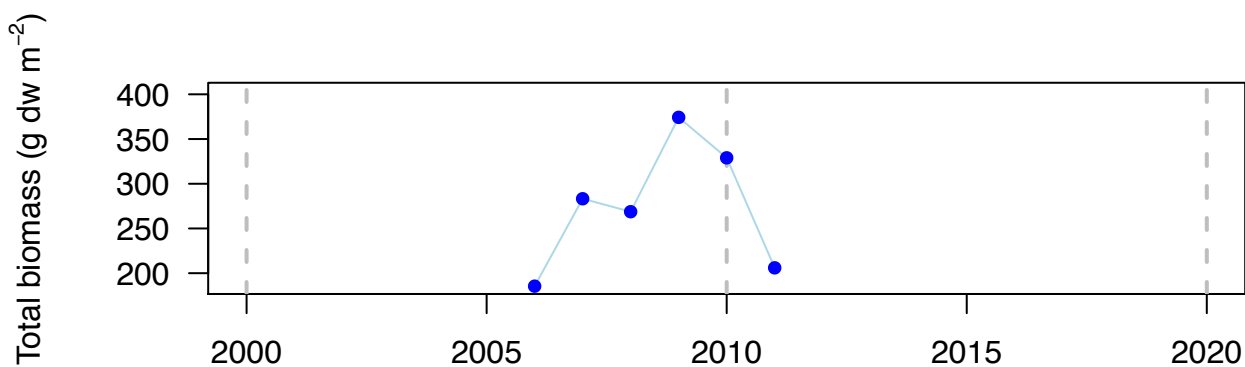
129_biomass

Romero et al. 2010 (b)

SITE: Alfacs (eutrophic) (Spain – Mediterranean) – Cn (-1 m)

OVERALL: Net = 20.5 g dw m⁻²; Rate = 2.1 % yr⁻¹; Perc Final = 111 % > no change

DECADAL: NO (5 yr)



129_density

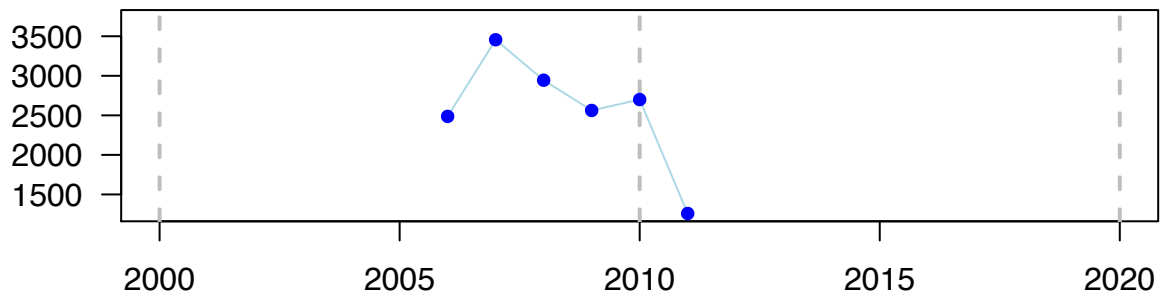
Romero et al. 2010 (b)

SITE: Alfacs (eutrophic) (Spain – Mediterranean) – Cn (-1 m)

OVERALL: Net = -1227.75 shoot m⁻²; Rate = -13.61 % yr⁻¹; Perc Final = 51 % > decrease

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



130_biomass

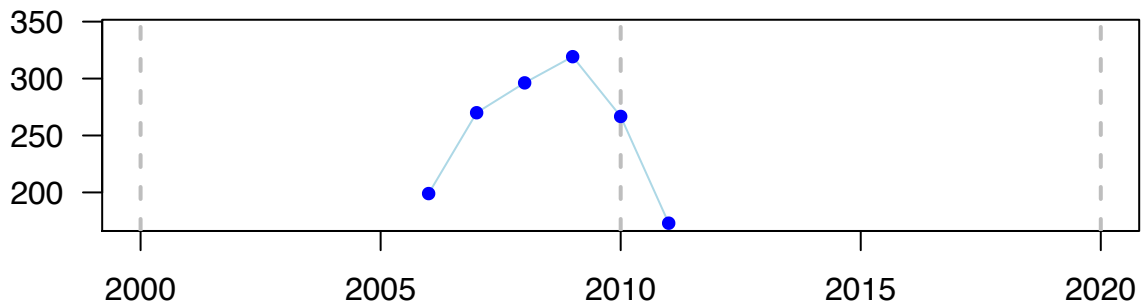
Romero et al. 2010 (b)

SITE: Alfacs (marine) (Spain – Mediterranean) – Cn (-1 m)

OVERALL: Net = -26 g dw m⁻²; Rate = -2.8 % yr⁻¹; Perc Final = 87 % > no change

DECADAL: NO (5 yr)

Total biomass (g dw m⁻²)



130_density

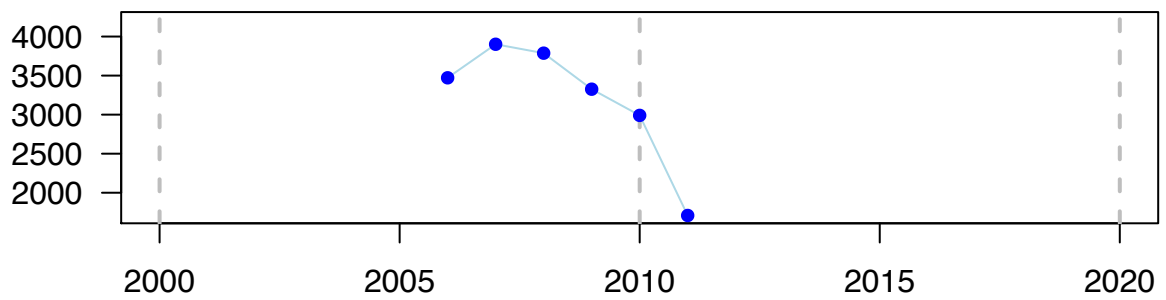
Romero et al. 2010 (b)

SITE: Alfacs (marine) (Spain – Mediterranean) – Cn (-1 m)

OVERALL: Net = -1763.32 shoot m⁻²; Rate = -14.18 % yr⁻¹; Perc Final = 49 % > decrease

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



131_biomass

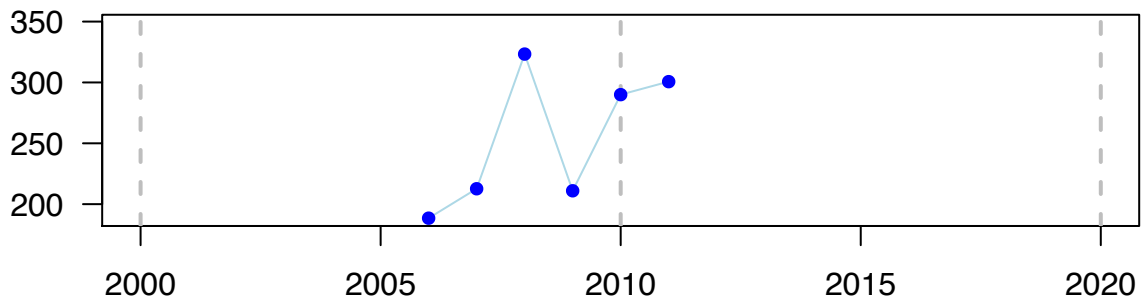
Romero et al. 2010 (b)

SITE: Fangar (eutrophic) (Spain – Mediterranean) – Cn (-1 m)

OVERALL: Net = 112.17 g dw m⁻²; Rate = 9.34 % yr⁻¹; Perc Final = 160 % > increase

DECADAL: NO (5 yr)

Total biomass (g dw m⁻²)



131_density

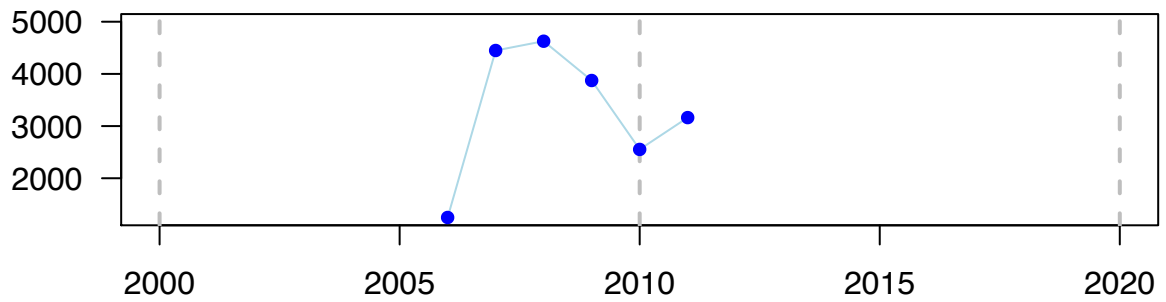
Romero et al. 2010 (b)

SITE: Fangar (eutrophic) (Spain – Mediterranean) – Cn (-1 m)

OVERALL: Net = 1914.35 shoot m⁻²; Rate = 18.59 % yr⁻¹; Perc Final = 253 % > increase

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



132_biomass

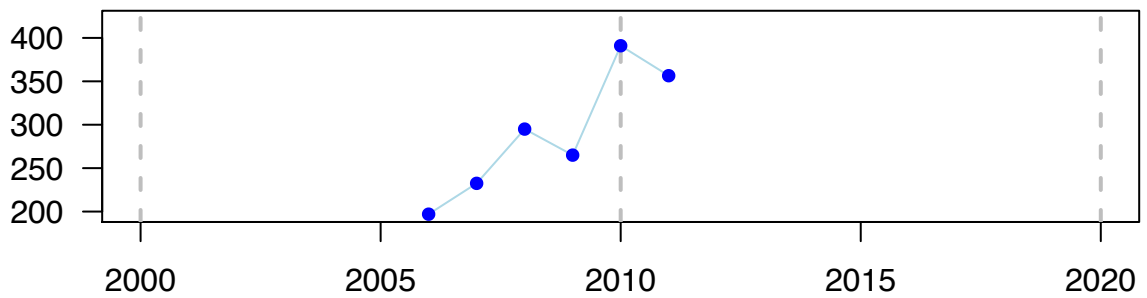
Romero et al. 2010 (b)

SITE: Fangar (marine) (Spain – Mediterranean) – Cn (-1 m)

OVERALL: Net = 159.5 g dw m⁻²; Rate = 11.86 % yr⁻¹; Perc Final = 181 % > increase

DECADAL: NO (5 yr)

Total biomass (g dw m⁻²)



132_density

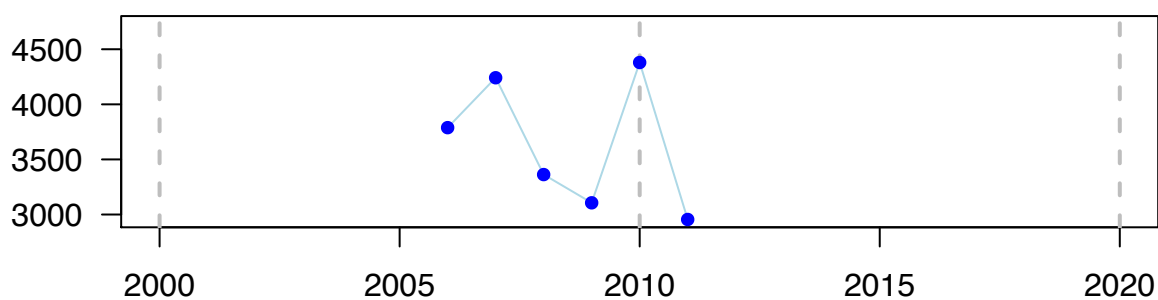
Romero et al. 2010 (b)

SITE: Fangar (marine) (Spain – Mediterranean) – Cn (-1 m)

OVERALL: Net = -833.24 shoot m⁻²; Rate = -4.97 % yr⁻¹; Perc Final = 78 % > no change

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



133_cover

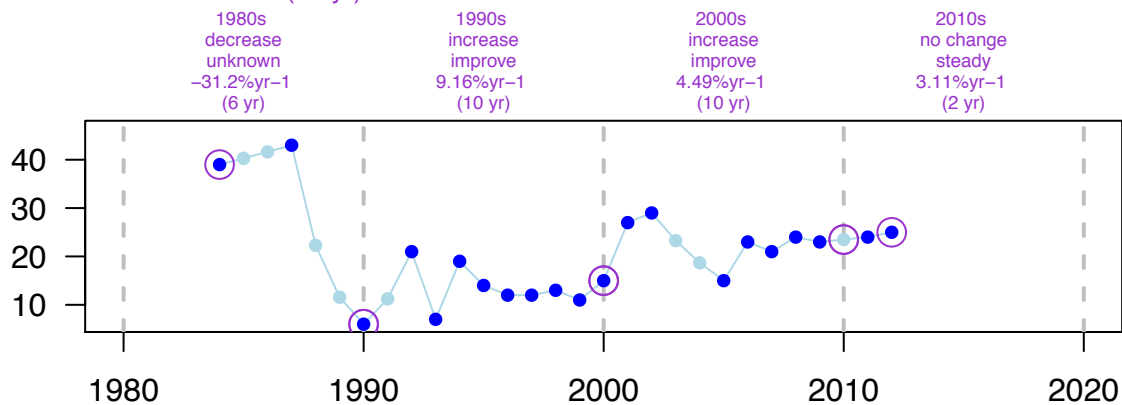
Romero et al. 2012

SITE: Islas Medas (station) (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -14 %; Rate = -1.59 % yr⁻¹; Perc Final = 64 % > decrease

DECADAL: YES (28 yr)

Cover (%)



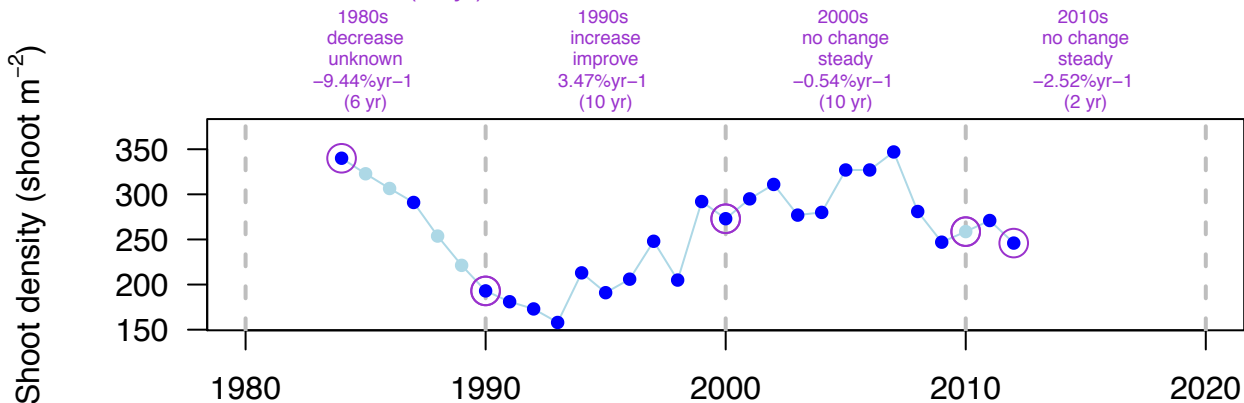
133_density

Romero et al. 2012

SITE: Islas Medas (station) (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -94 shoot m⁻²; Rate = -1.16 % yr⁻¹; Perc Final = 72 % > decrease

DECADAL: YES (28 yr)



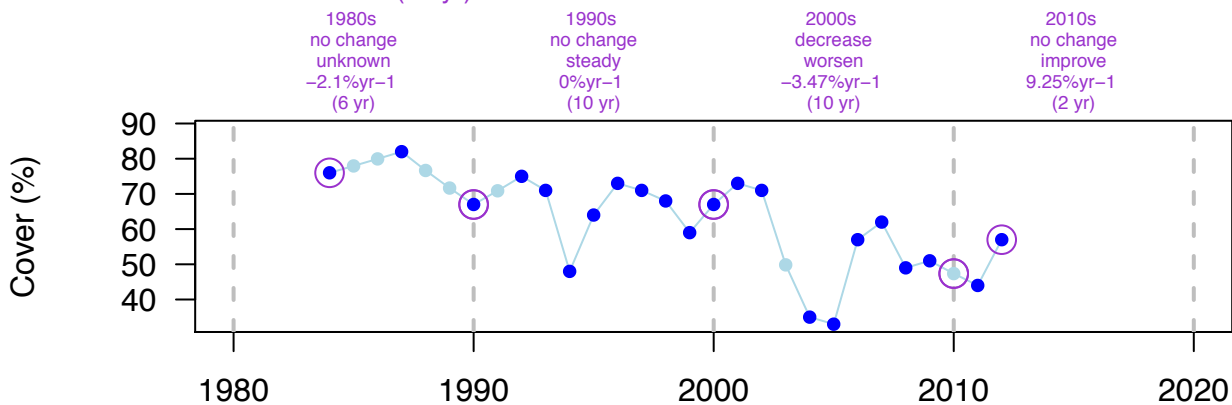
134_cover

Romero et al. 2012

SITE: Islas Medas (station) (Spain – Mediterranean) – Po (-5 m)

OVERALL: Net = -19 %; Rate = -1.03 % yr⁻¹; Perc Final = 75 % > decrease

DECADAL: YES (28 yr)



134_density

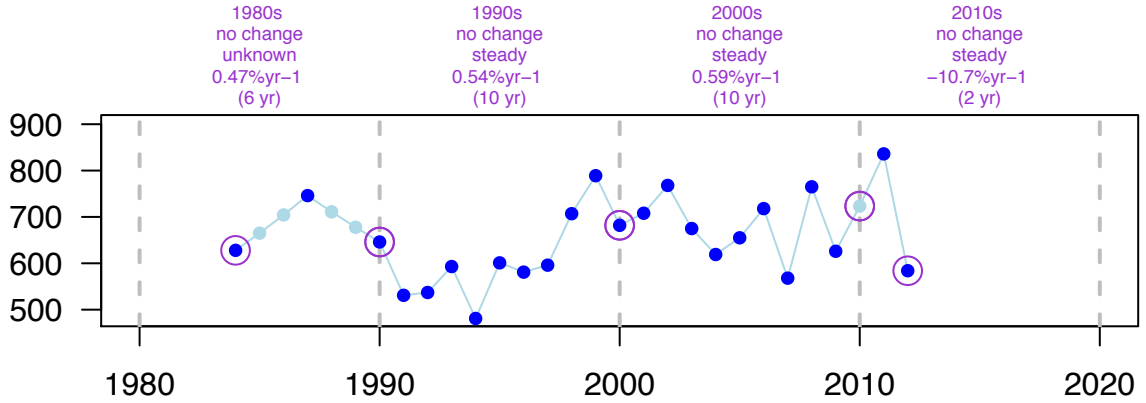
Romero et al. 2012

SITE: Islas Medas (station) (Spain – Mediterranean) – Po (-5 m)

OVERALL: Net = -44 shoot m⁻²; Rate = -0.26 % yr⁻¹; Perc Final = 93 % > no change

DECADAL: YES (28 yr)

Shoot density (shoot m⁻²)



135_cover

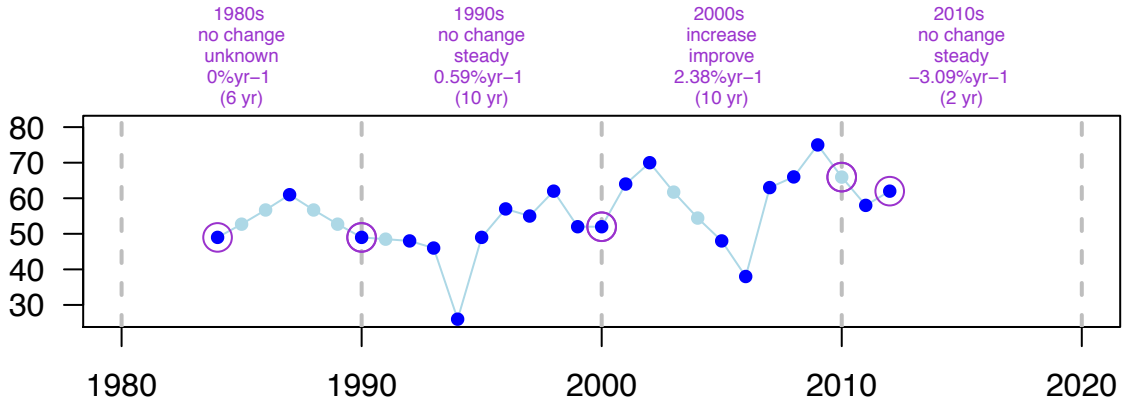
Romero et al. 2012

SITE: Islas Medas (station) (Spain – Mediterranean) – Po (-6.5 m)

OVERALL: Net = 13 %; Rate = 0.84 % yr⁻¹; Perc Final = 127 % > increase

DECADAL: YES (28 yr)

Cover (%)



135_density

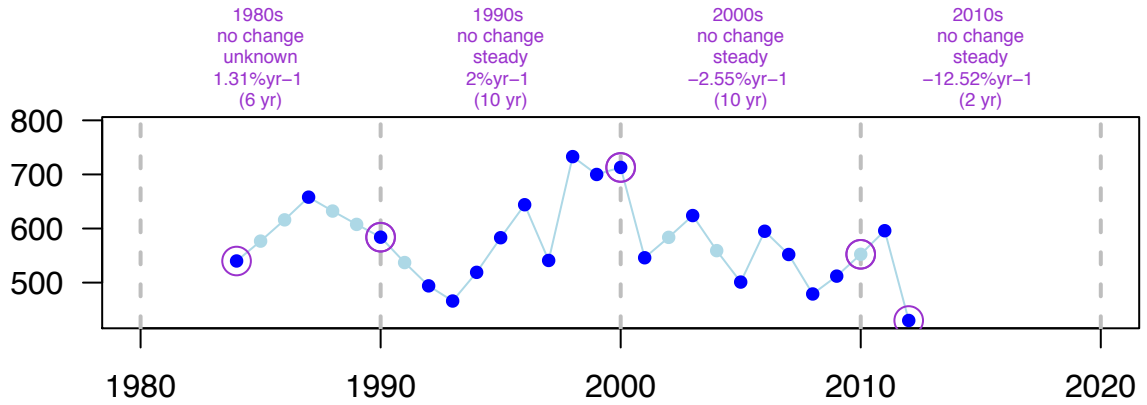
Romero et al. 2012

SITE: Islas Medas (station) (Spain – Mediterranean) – Po (-6.5 m)

OVERALL: Net = -110 shoot m⁻²; Rate = -0.81 % yr⁻¹; Perc Final = 80 % > no change

DECADAL: YES (28 yr)

Shoot density (shoot m⁻²)



136_cover

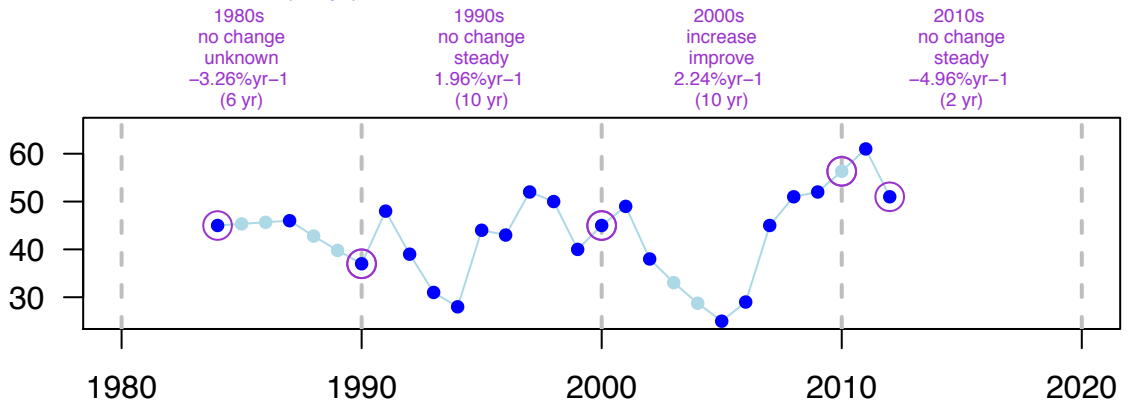
Romero et al. 2012

SITE: Islas Medas (station) (Spain – Mediterranean) – Po (-8.5 m)

OVERALL: Net = 6 %; Rate = 0.45 % yr⁻¹; Perc Final = 113 % > no change

DECADAL: YES (28 yr)

Cover (%)



136_density

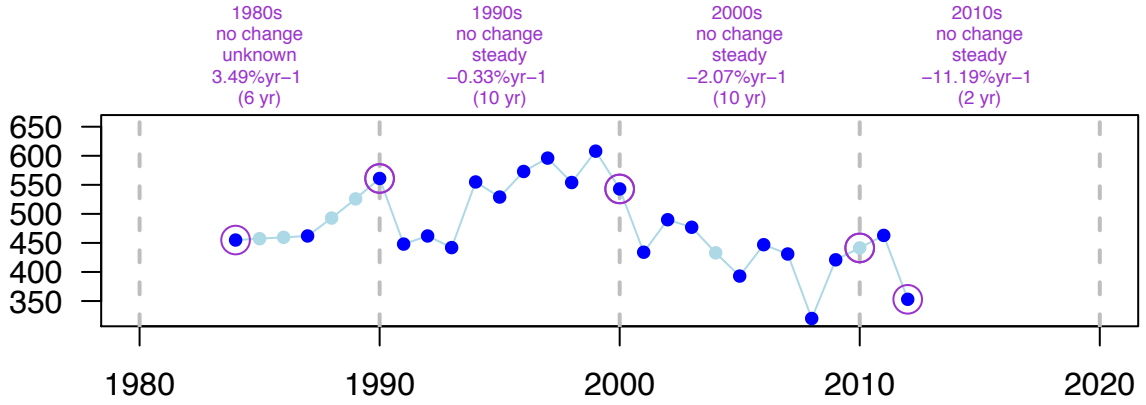
Romero et al. 2012

SITE: Islas Medas (station) (Spain – Mediterranean) – Po (-8.5 m)

OVERALL: Net = -102 shoot m⁻²; Rate = -0.91 % yr⁻¹; Perc Final = 78 % > no change

DECADAL: YES (28 yr)

Shoot density (shoot m⁻²)



137_cover

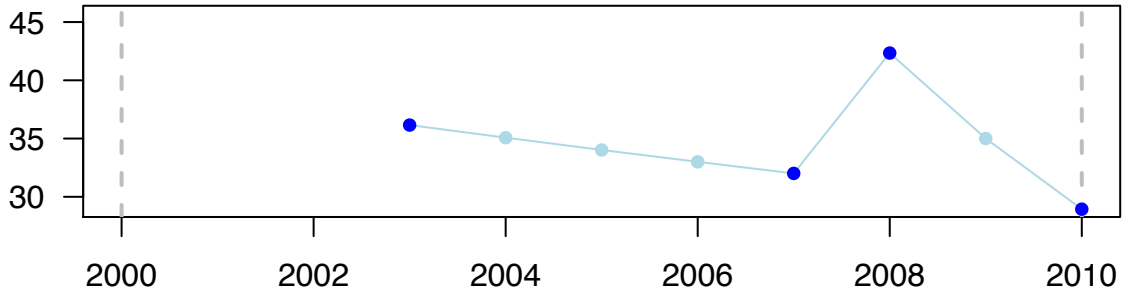
Romero et al. 2010 (a)

SITE: Balís (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -7.22 %; Rate = -3.18 % yr⁻¹; Perc Final = 80 % > no change

DECADAL: NO (7 yr)

Cover (%)



137_density

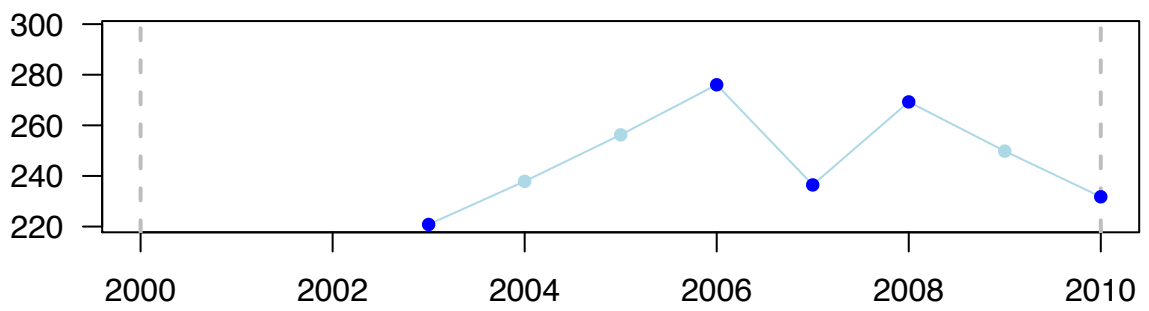
Romero et al. 2010 (a)

SITE: Balís (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 10.94 shoot m⁻²; Rate = 0.69 % yr⁻¹; Perc Final = 105 % > no change

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



138_cover

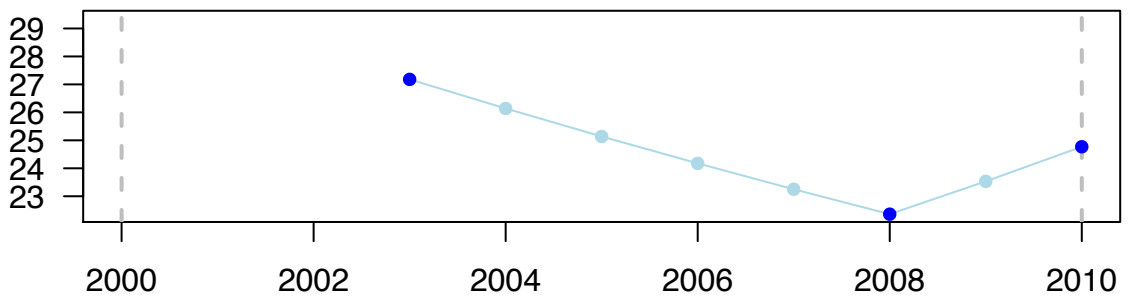
Romero et al. 2010 (a)

SITE: Calafat (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -2.41 %; Rate = -1.33 % yr⁻¹; Perc Final = 91 % > no change

DECADAL: NO (7 yr)

Cover (%)



138_density

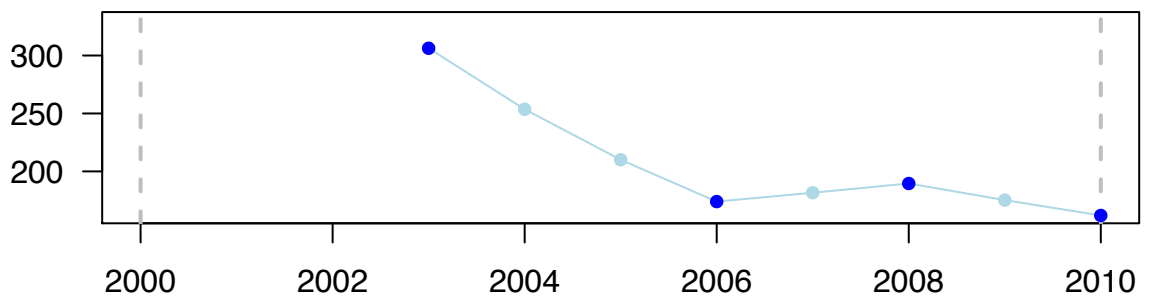
Romero et al. 2010 (a)

SITE: Calafat (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -144.27 shoot m⁻²; Rate = -9.1 % yr⁻¹; Perc Final = 53 % > decrease

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



139_cover

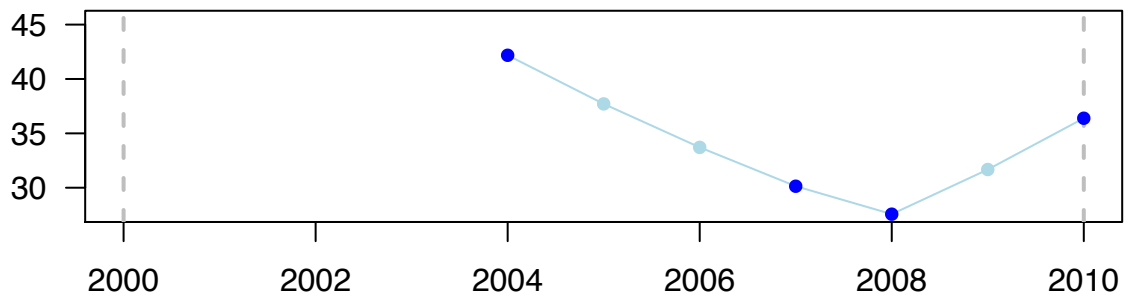
Romero et al. 2010 (a), Gera et al. 2014

SITE: Canyelles (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -5.79 %; Rate = -2.46 % yr⁻¹; Perc Final = 86 % > no change

DECADAL: NO (6 yr)

Cover (%)



139_density

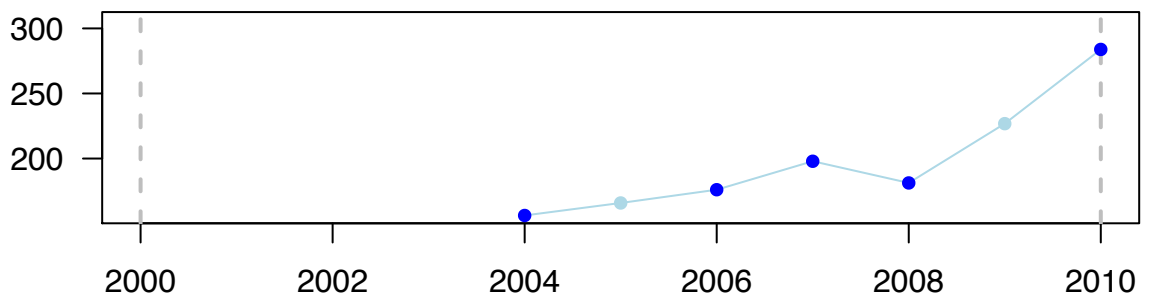
Romero et al. 2010 (a), Gera et al. 2014

SITE: Canyelles (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 127.6 shoot m⁻²; Rate = 9.95 % yr⁻¹; Perc Final = 182 % > increase

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



140_cover

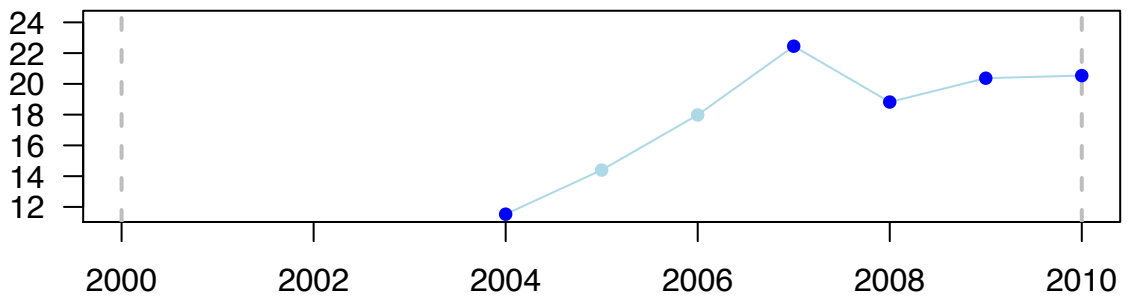
Romero et al. 2010 (a)

SITE: Cap Roig (Spain – Mediterranean) – Po (-9 m)

OVERALL: Net = 9.01 %; Rate = 9.62 % yr⁻¹; Perc Final = 178 % > increase

DECADAL: NO (6 yr)

Cover (%)



140_density

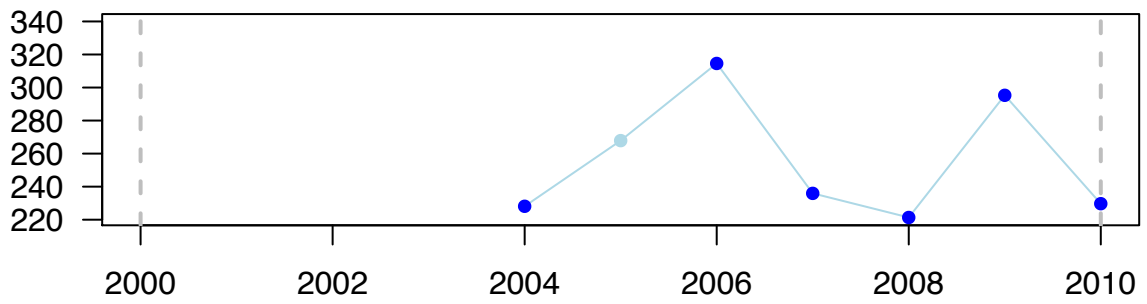
Romero et al. 2010 (a)

SITE: Cap Roig (Spain – Mediterranean) – Po (-9 m)

OVERALL: Net = 1.57 shoot m⁻²; Rate = 0.11 % yr⁻¹; Perc Final = 101 % > no change

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



141_cover

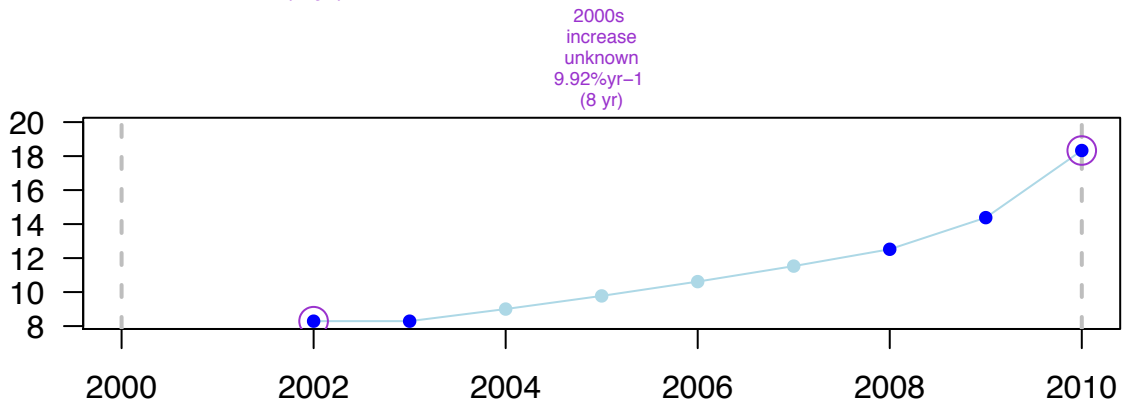
Romero et al. 2010 (a)

SITE: Coma-ruga (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 10.04 %; Rate = 9.92 % yr⁻¹; Perc Final = 221 % > increase

DECADAL: YES (8 yr)

Cover (%)



141_density

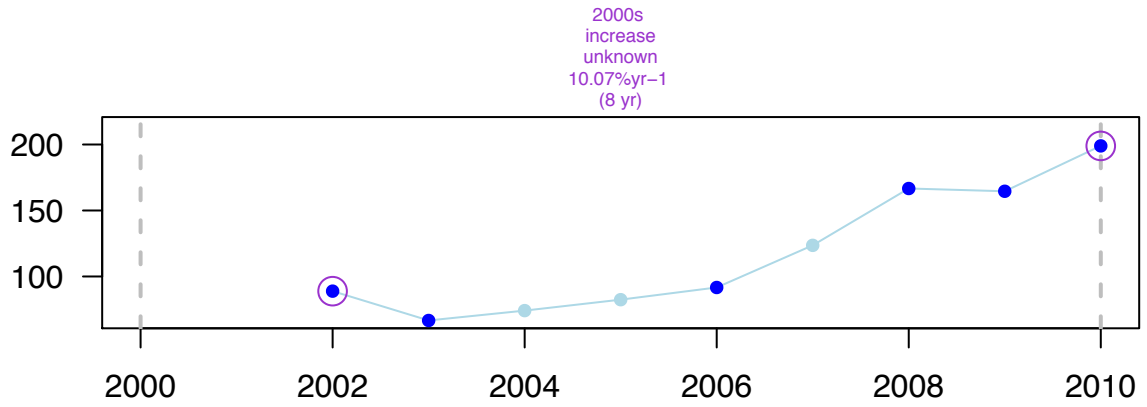
Romero et al. 2010 (a)

SITE: Coma-ruga (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 110.07 shoot m⁻²; Rate = 10.07 % yr⁻¹; Perc Final = 224 % > increase

DECADAL: YES (8 yr)

Shoot density (shoot m⁻²)



142_cover

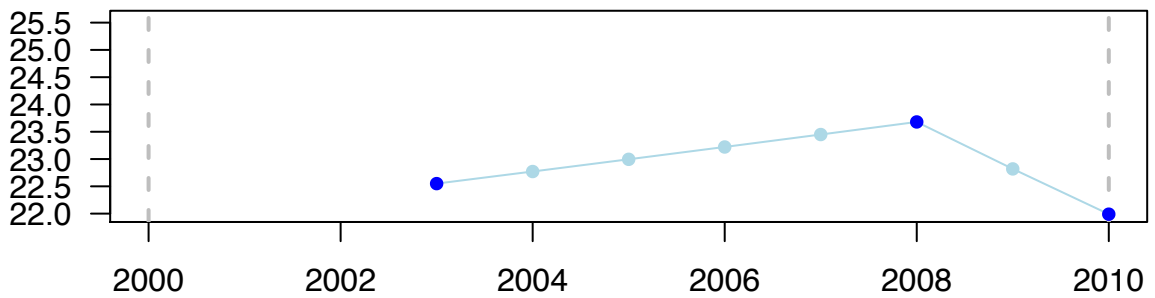
Romero et al. 2010 (a)

SITE: Culip (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -0.56 %; Rate = -0.36 % yr⁻¹; Perc Final = 98 % > no change

DECADAL: NO (7 yr)

Cover (%)



142_density

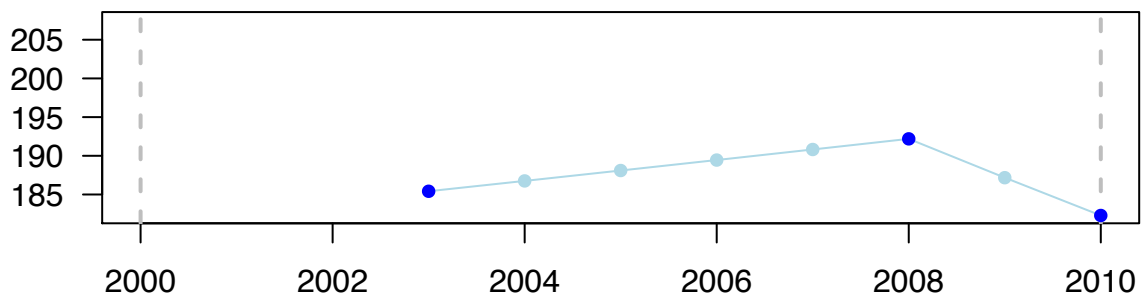
Romero et al. 2010 (a)

SITE: Culip (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -3.13 shoot m⁻²; Rate = -0.24 % yr⁻¹; Perc Final = 98 % > no change

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



143_cover

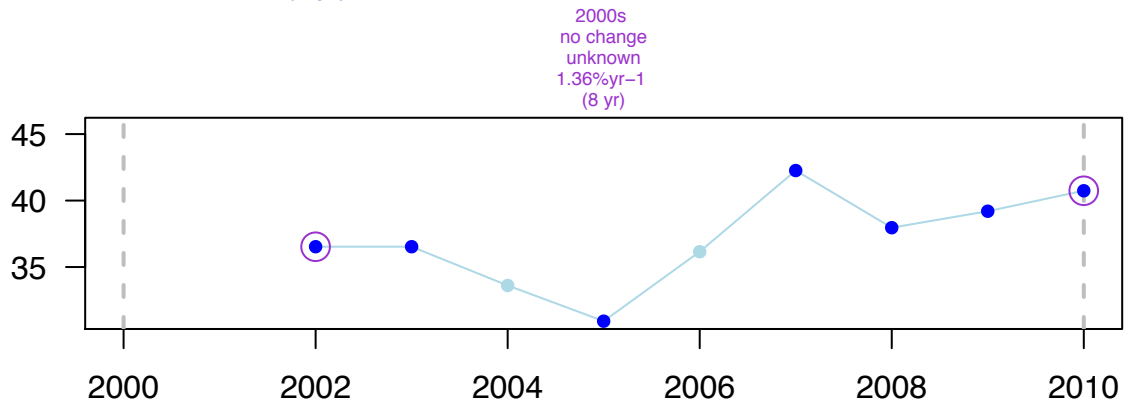
Romero et al. 2010 (a), Gera et al. 2014

SITE: Fenals (Spain – Mediterranean) – Po (-16.2 m)

OVERALL: Net = 4.21 %; Rate = 1.36 % yr⁻¹; Perc Final = 112 % > no change

DECADAL: YES (8 yr)

Cover (%)



143_density

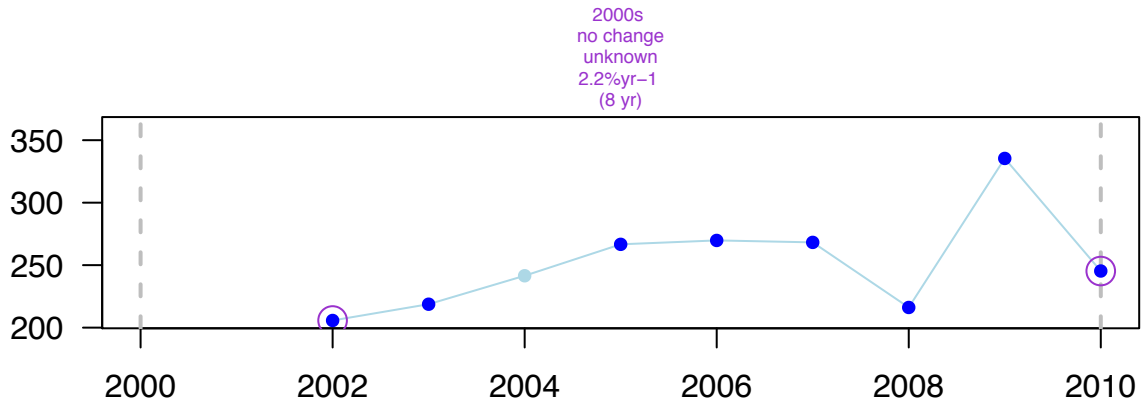
Romero et al. 2010 (a), Gera et al. 2014

SITE: Fenals (Spain – Mediterranean) – Po (-16.2 m)

OVERALL: Net = 39.58 shoot m⁻²; Rate = 2.2 % yr⁻¹; Perc Final = 119 % > no change

DECADAL: YES (8 yr)

Shoot density (shoot m⁻²)



144_cover

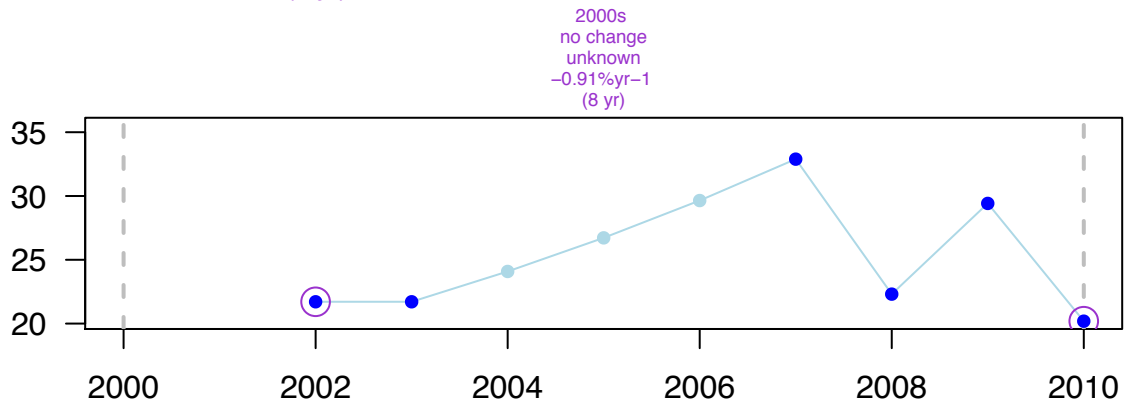
Romero et al. 2010 (a)

SITE: Jugadora (Spain – Mediterranean) – Po (-16 m)

OVERALL: Net = -1.52 %; Rate = -0.91 % yr⁻¹; Perc Final = 93 % > no change

DECADAL: YES (8 yr)

Cover (%)



144_density

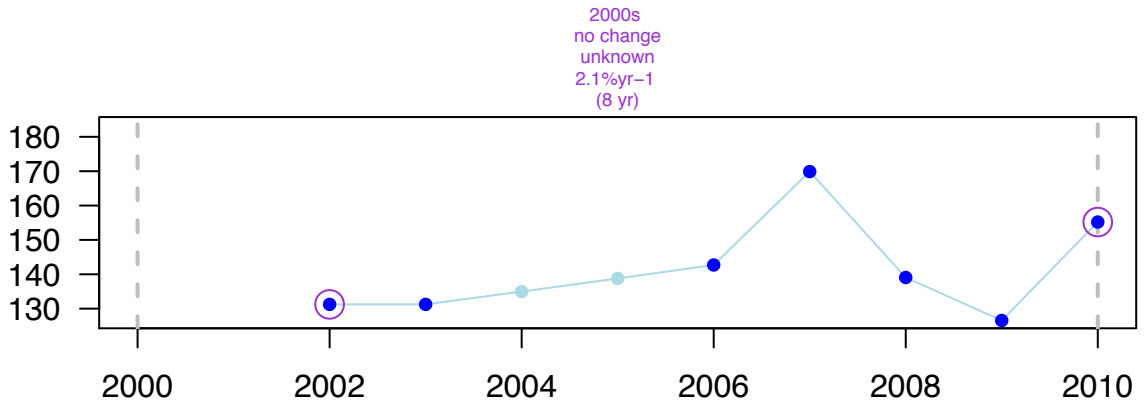
Romero et al. 2010 (a)

SITE: Jugadora (Spain – Mediterranean) – Po (-16 m)

OVERALL: Net = 23.96 shoot m⁻²; Rate = 2.1 % yr⁻¹; Perc Final = 118 % > no change

DECADAL: YES (8 yr)

Shoot density (shoot m⁻²)



145_cover

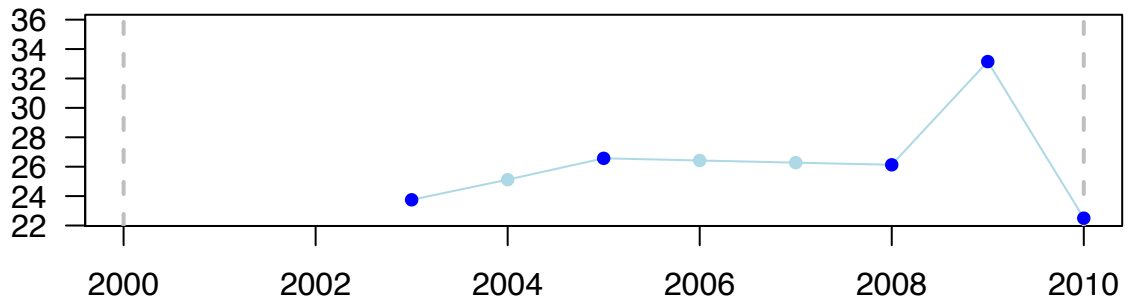
Romero et al. 2010 (a)

SITE: L'Ametlla de Mar (Spain – Mediterranean) – Po (-14.8 m)

OVERALL: Net = -1.25 %; Rate = -0.77 % yr⁻¹; Perc Final = 95 % > no change

DECADAL: NO (7 yr)

Cover (%)



145_density

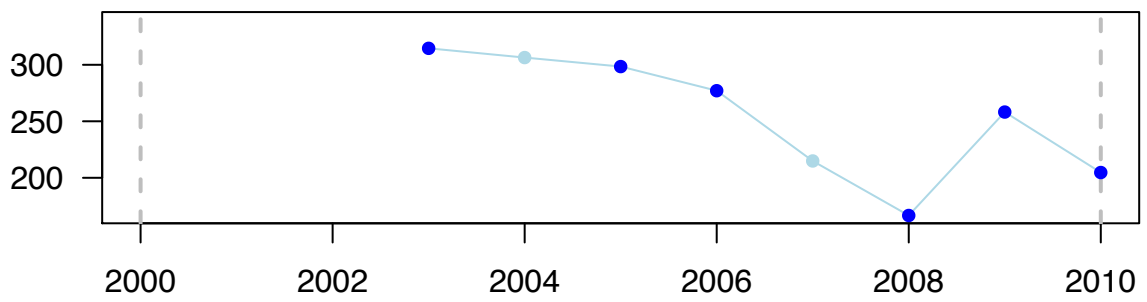
Romero et al. 2010 (a)

SITE: L'Ametlla de Mar (Spain – Mediterranean) – Po (-14.8 m)

OVERALL: Net = -109.89 shoot m⁻²; Rate = -6.14 % yr⁻¹; Perc Final = 65 % > decrease

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



146_cover

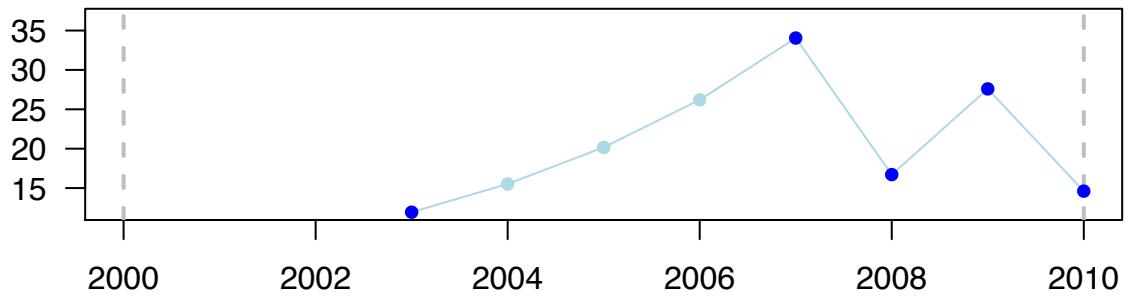
Romero et al. 2010 (a)

SITE: L'Hospitalet (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 2.67 %; Rate = 2.88 % yr⁻¹; Perc Final = 122 % > no change

DECADAL: NO (7 yr)

Cover (%)



146_density

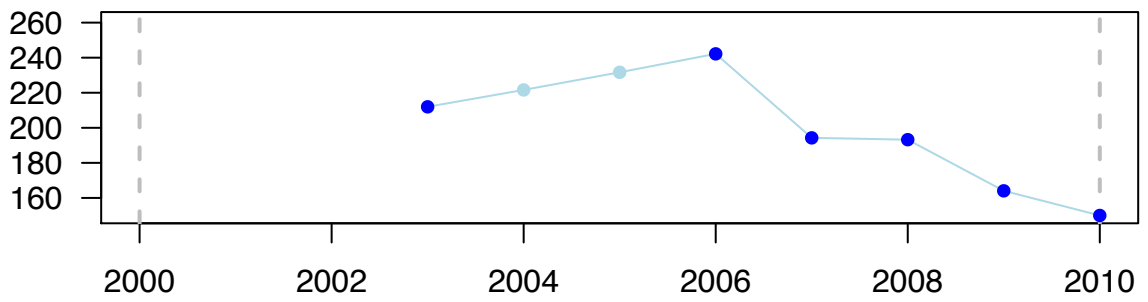
Romero et al. 2010 (a)

SITE: L'Hospitalet (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -61.98 shoot m⁻²; Rate = -4.94 % yr⁻¹; Perc Final = 71 % > decrease

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



147_cover

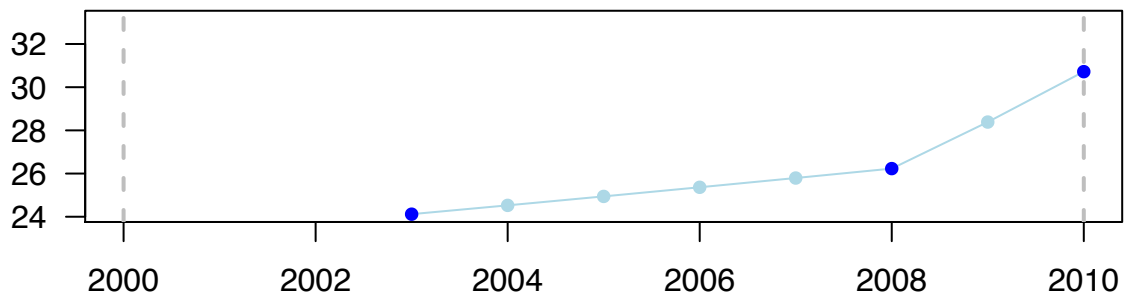
Romero et al. 2010 (a)

SITE: Llafranc (Spain – Mediterranean) – Po (-15.5 m)

OVERALL: Net = 6.6 %; Rate = 3.46 % yr⁻¹; Perc Final = 127 % > increase

DECADAL: NO (7 yr)

Cover (%)



147_density

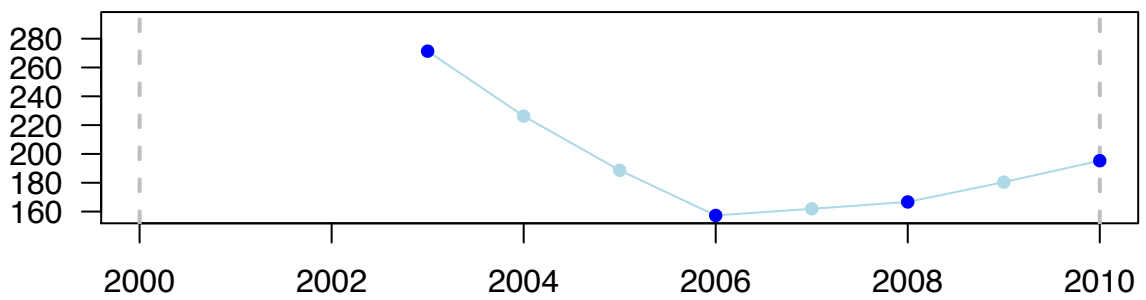
Romero et al. 2010 (a)

SITE: Llafranc (Spain – Mediterranean) – Po (-15.5 m)

OVERALL: Net = -76.04 shoot m⁻²; Rate = -4.7 % yr⁻¹; Perc Final = 72 % > decrease

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



148_abiomass

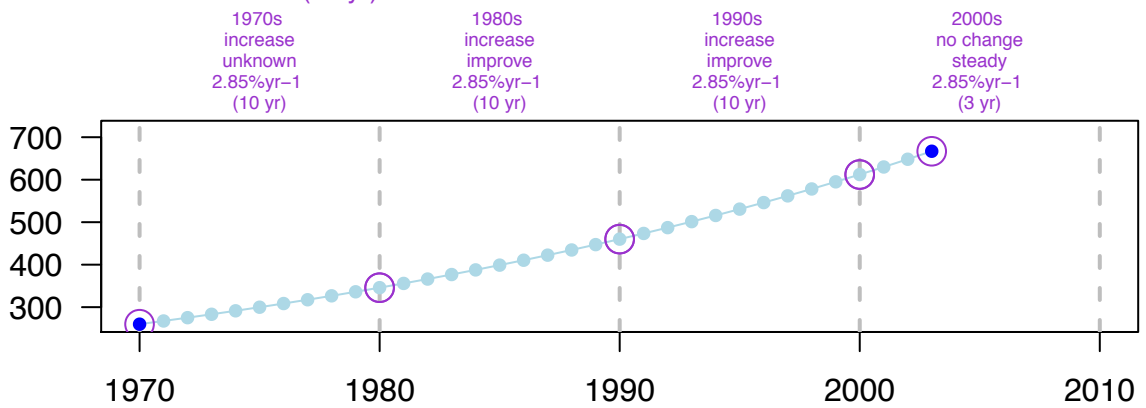
Milchakova 2003

SITE: Utiyuk Salt Lake (Ukraine – Mediterranean) – Zn (? m)

OVERALL: Net = 407 g dw m⁻²; Rate = 2.85 % yr⁻¹; Perc Final = 257 % > increase

DECADAL: YES (33 yr)

AG biomass (g dw m⁻²)



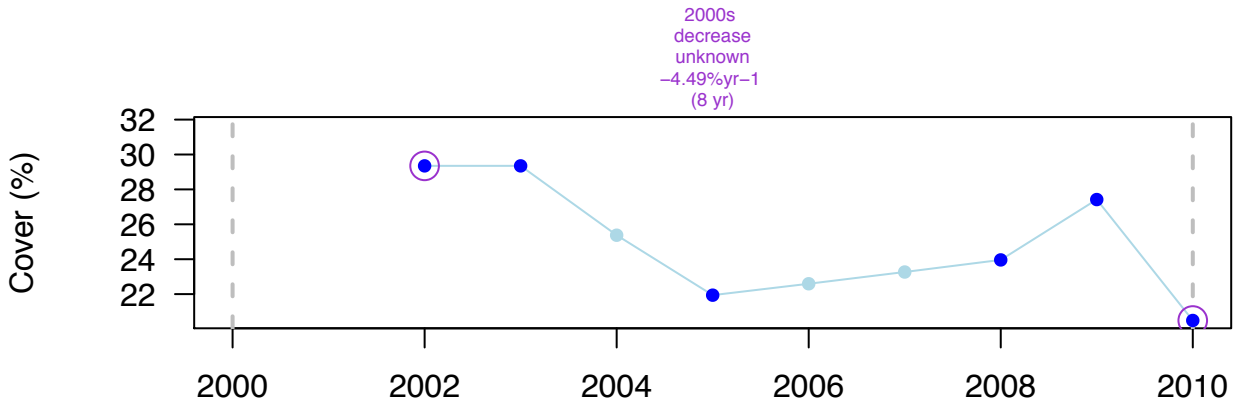
149_cover

Romero et al. 2010 (a)

SITE: Montgó (Spain – Mediterranean) – Po (-12.5 m)

OVERALL: Net = -8.86 %; Rate = -4.49 % yr⁻¹; Perc Final = 70 % > decrease

DECADAL: YES (8 yr)



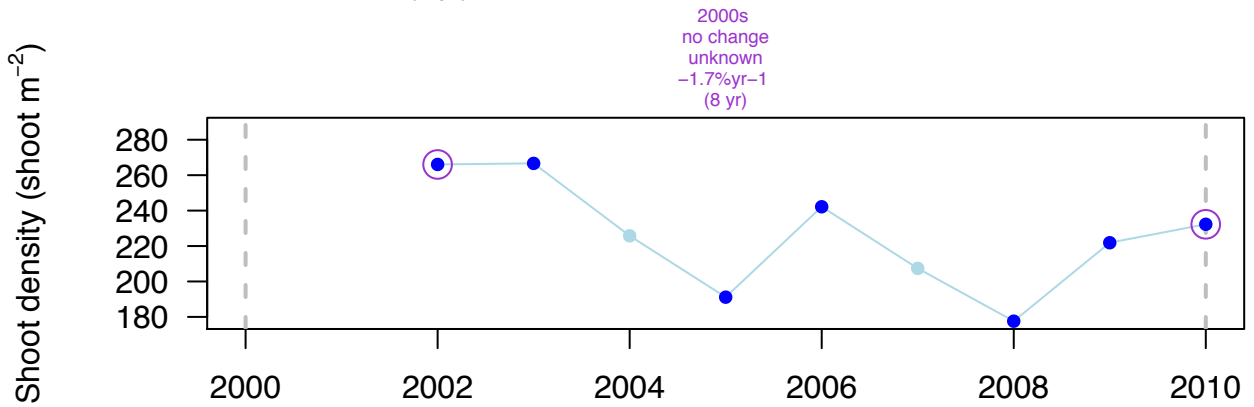
149_density

Romero et al. 2010 (a)

SITE: Montgó (Spain – Mediterranean) – Po (-12.5 m)

OVERALL: Net = -33.78 shoot m⁻²; Rate = -1.7 % yr⁻¹; Perc Final = 87 % > no change

DECADAL: YES (8 yr)



150_cover

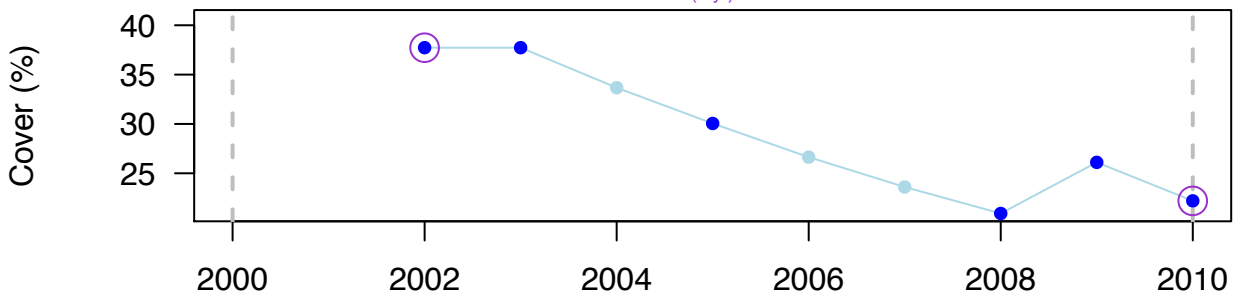
Romero et al. 2010 (a)

SITE: Montjoi (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -15.52 %; Rate = -6.62 % yr⁻¹; Perc Final = 59 % > decrease

DECADAL: YES (8 yr)

2000s
decrease
unknown
-6.62%yr⁻¹
(8 yr)



150_density

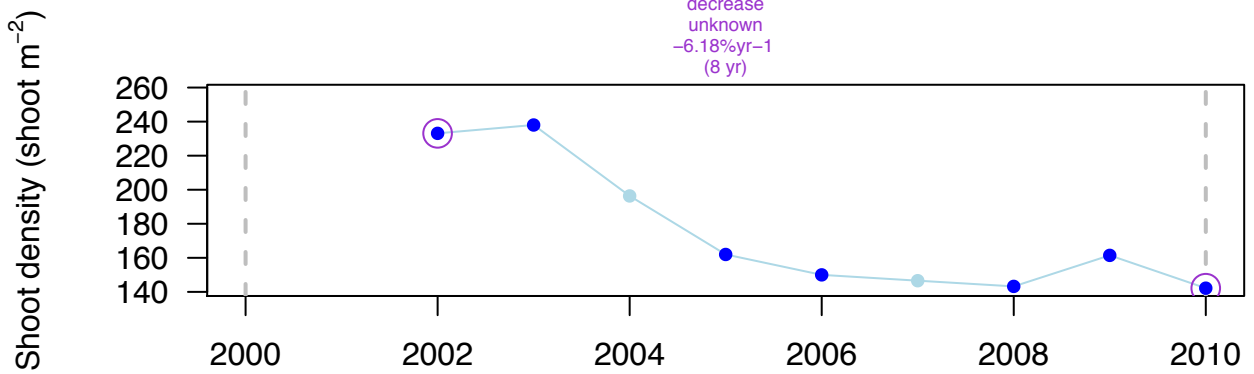
Romero et al. 2010 (a)

SITE: Montjoi (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -90.93 shoot m⁻²; Rate = -6.18 % yr⁻¹; Perc Final = 61 % > decrease

DECADAL: YES (8 yr)

2000s
decrease
unknown
-6.18%yr⁻¹
(8 yr)



151_cover

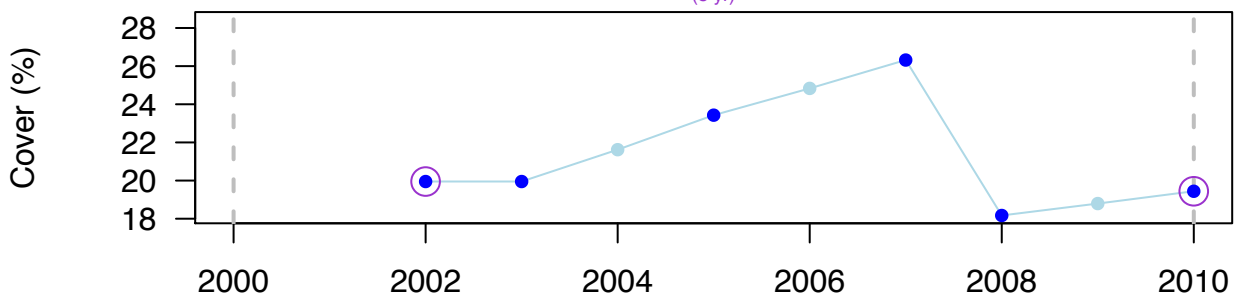
Romero et al. 2010 (a)

SITE: Montroig del Camp (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -0.51 %; Rate = -0.32 % yr⁻¹; Perc Final = 97 % > no change

DECADAL: YES (8 yr)

2000s
no change
unknown
-0.32%yr⁻¹
(8 yr)



151_density

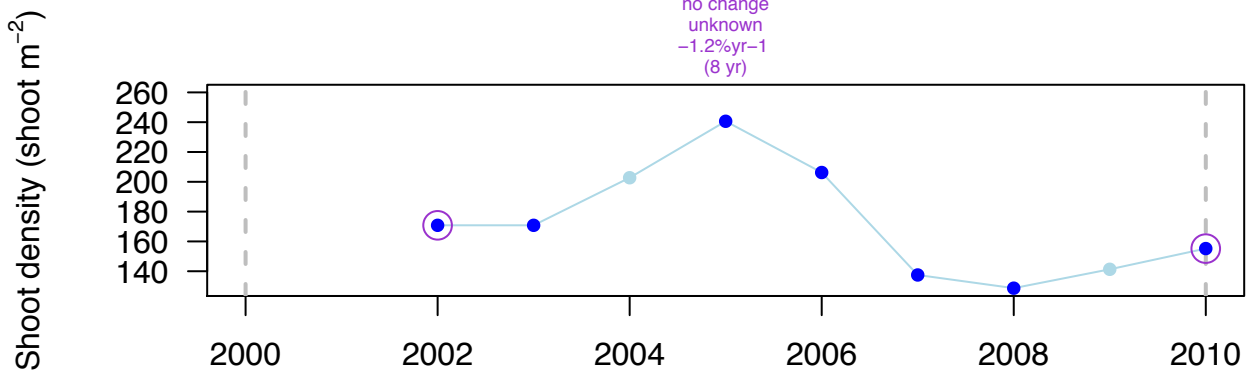
Romero et al. 2010 (a)

SITE: Montroig del Camp (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -15.62 shoot m⁻²; Rate = -1.2 % yr⁻¹; Perc Final = 91 % > no change

DECADAL: YES (8 yr)

2000s
no change
unknown
-1.2%yr⁻¹
(8 yr)



152_cover

Romero et al. 2010 (a), Gera et al. 2014

SITE: Palamós (Spain – Mediterranean) – Po (-14.2 m)

OVERALL: Net = -10.14 %; Rate = -5.49 % yr⁻¹; Perc Final = 68 % > decrease

DECADAL: NO (7 yr)



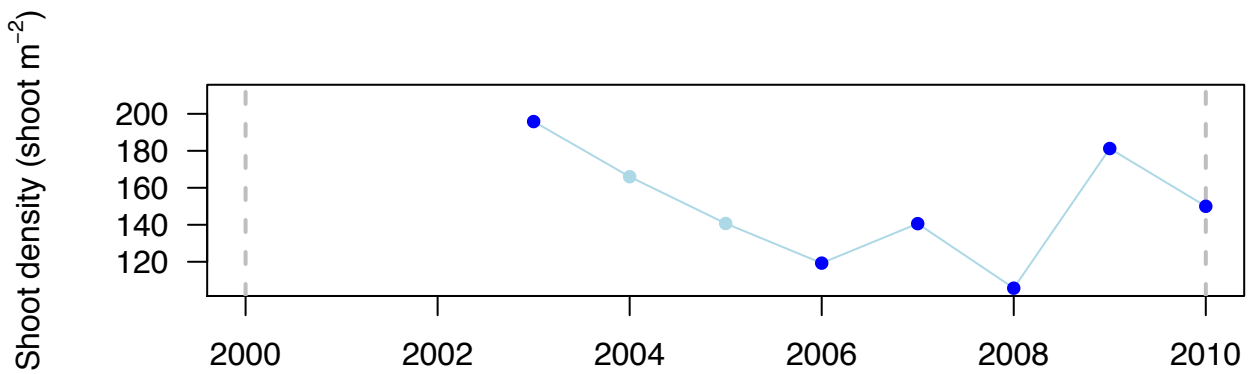
152_density

Romero et al. 2010 (a), Gera et al. 2014

SITE: Palamós (Spain – Mediterranean) – Po (-14.2 m)

OVERALL: Net = -45.83 shoot m⁻²; Rate = -3.81 % yr⁻¹; Perc Final = 77 % > no change

DECADAL: NO (7 yr)



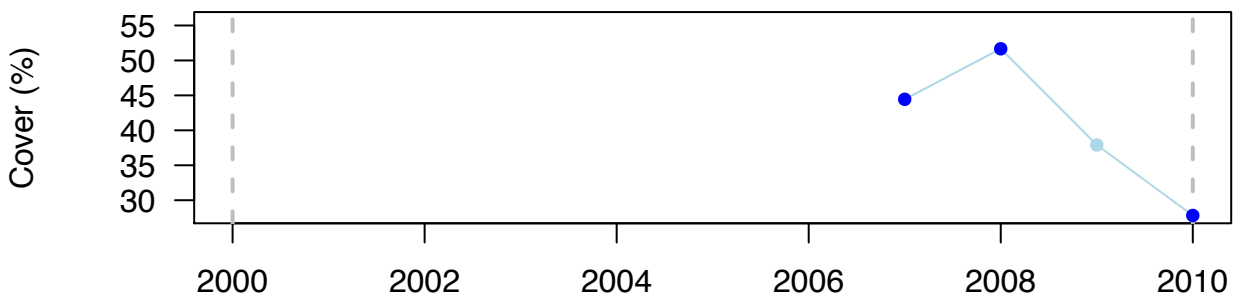
153_cover

Romero et al. 2010 (a)

SITE: Port de la Selva (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -16.62 %; Rate = -15.61 % yr⁻¹; Perc Final = 63 % > decrease

DECADAL: NO (3 yr)



153_density

Romero et al. 2010 (a)

SITE: Port de la Selva (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = 16.67 shoot m⁻²; Rate = 1.73 % yr⁻¹; Perc Final = 107 % > no change

DECADAL: NO (4 yr)



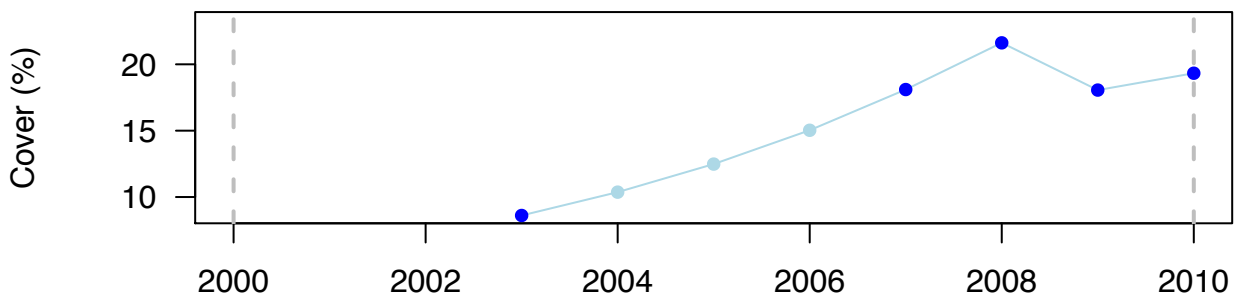
154_cover

Romero et al. 2010 (a)

SITE: Roses (near port) (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = 10.72 %; Rate = 11.55 % yr⁻¹; Perc Final = 225 % > increase

DECADAL: NO (7 yr)



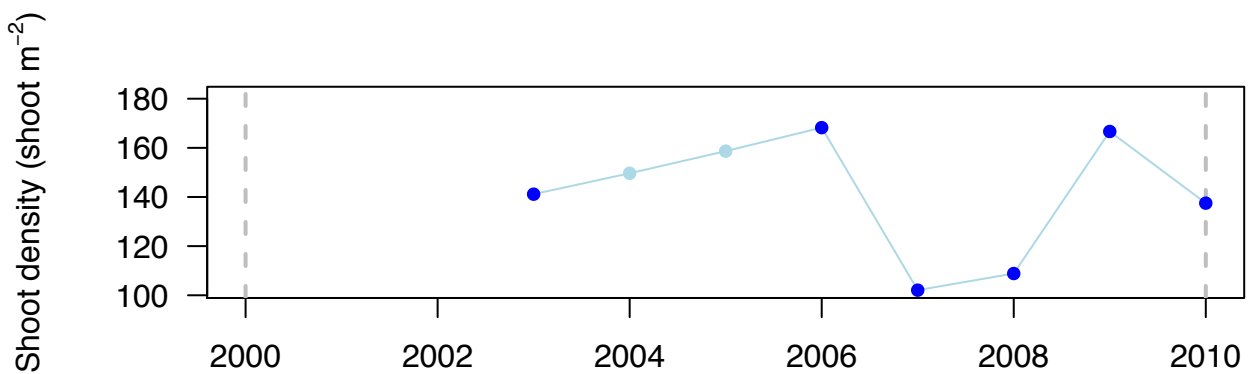
154_density

Romero et al. 2010 (a)

SITE: Roses (near port) (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = -3.65 shoot m⁻²; Rate = -0.37 % yr⁻¹; Perc Final = 97 % > no change

DECADAL: NO (7 yr)



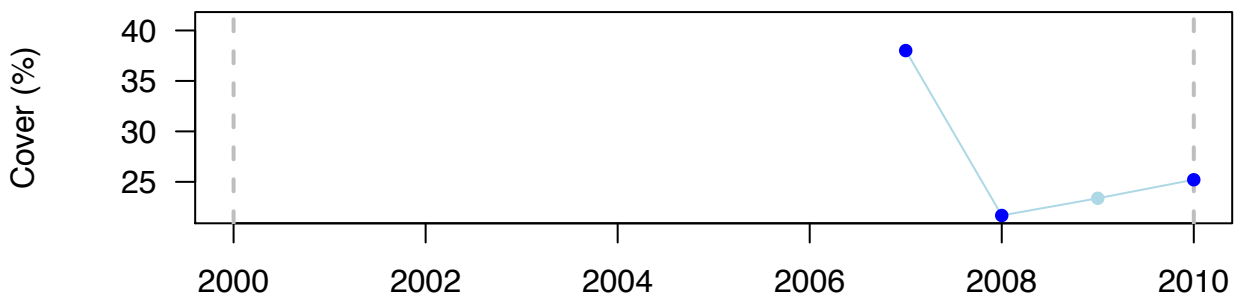
155_cover

Romero et al. 2010 (a)

SITE: Roses (Playa Almadraba) (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = -12.8 %; Rate = -13.69 % yr⁻¹; Perc Final = 66 % > decrease

DECADAL: NO (3 yr)



155_density

Romero et al. 2010 (a)

SITE: Roses (Playa Almadraba) (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = 9.38 shoot m⁻²; Rate = 1.79 % yr⁻¹; Perc Final = 106 % > no change

DECADAL: NO (3 yr)



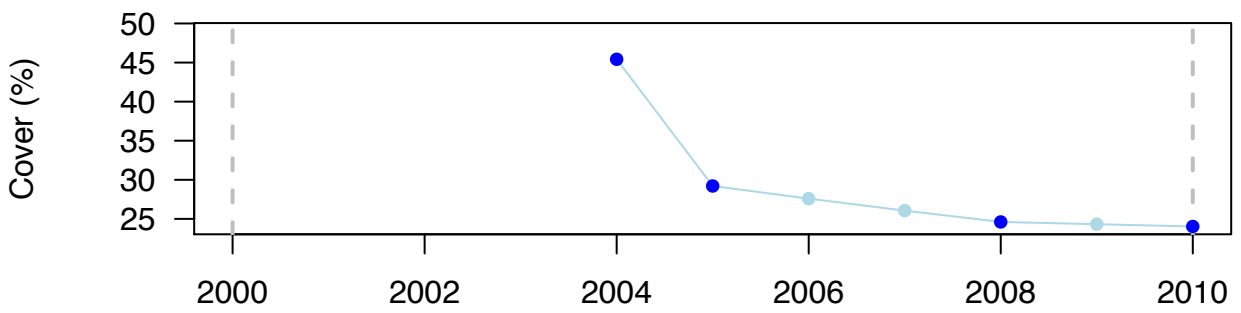
156_cover

Romero et al. 2010 (a)

SITE: Rovellada (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -21.39 %; Rate = -10.61 % yr⁻¹; Perc Final = 53 % > decrease

DECADAL: NO (6 yr)



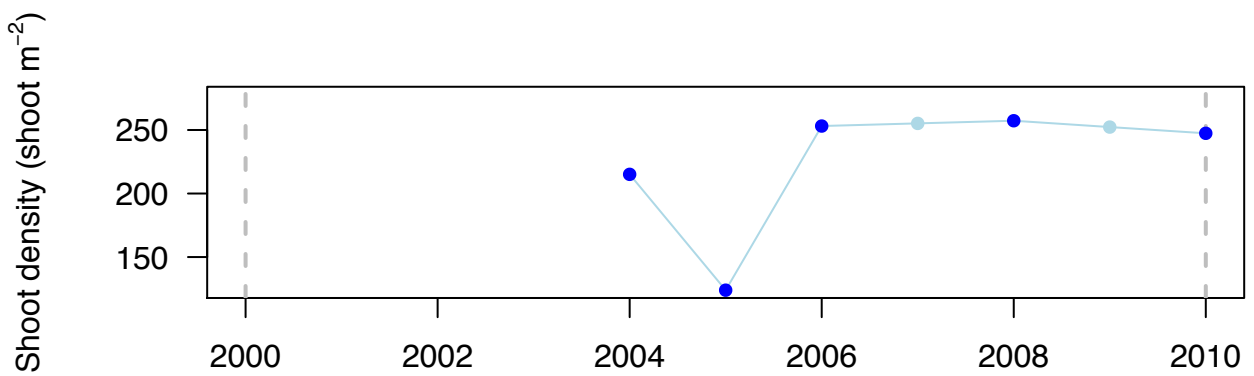
156_density

Romero et al. 2010 (a)

SITE: Rovellada (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = 32.3 shoot m⁻²; Rate = 2.33 % yr⁻¹; Perc Final = 115 % > no change

DECADAL: NO (6 yr)



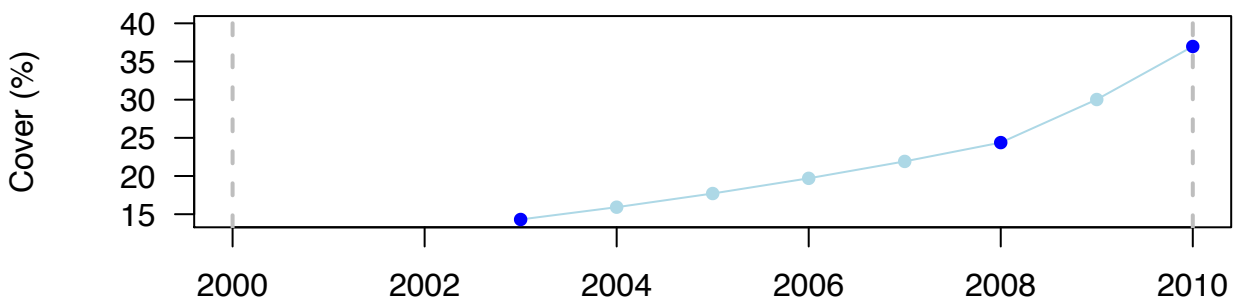
157_cover

Romero et al. 2010 (a)

SITE: Sa Tuna (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = 22.66 %; Rate = 13.56 % yr⁻¹; Perc Final = 258 % > increase

DECADAL: NO (7 yr)



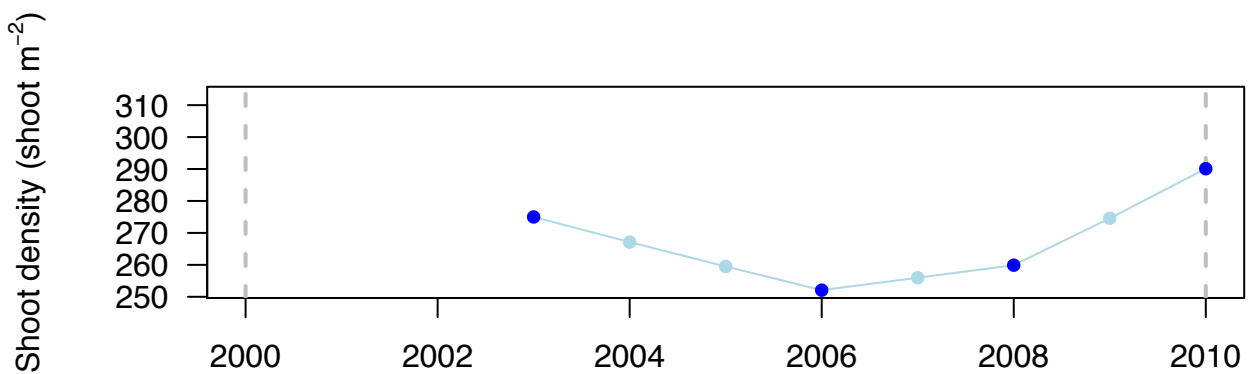
157_density

Romero et al. 2010 (a)

SITE: Sa Tuna (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = 15.1 shoot m⁻²; Rate = 0.76 % yr⁻¹; Perc Final = 105 % > no change

DECADAL: NO (7 yr)



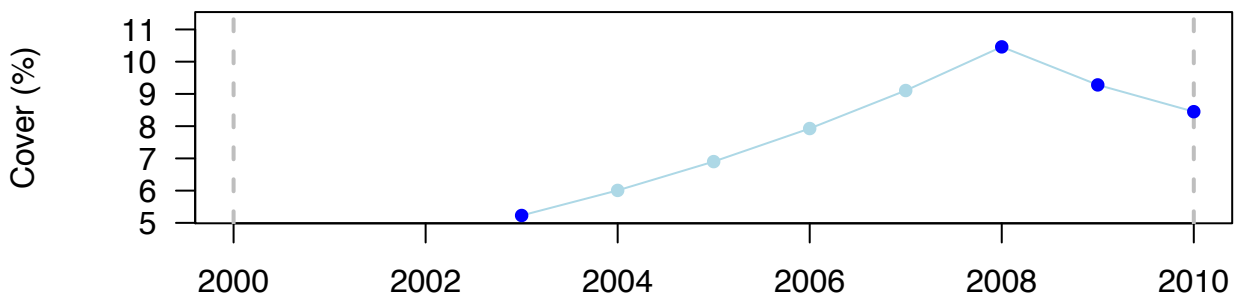
158_cover

Romero et al. 2010 (a)

SITE: Salou (Spain – Mediterranean) – Po (-14.5 m)

OVERALL: Net = 3.22 %; Rate = 6.85 % yr⁻¹; Perc Final = 162 % > increase

DECADAL: NO (7 yr)



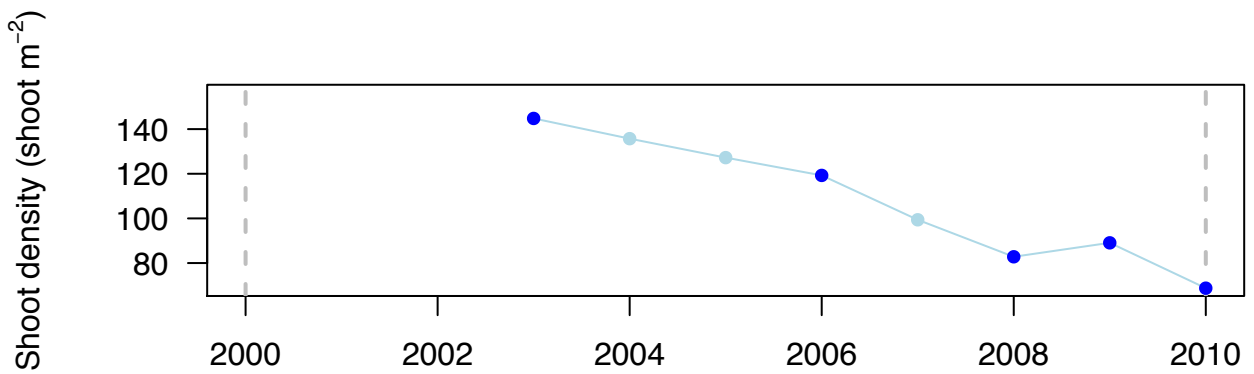
158_density

Romero et al. 2010 (a)

SITE: Salou (Spain – Mediterranean) – Po (-14.5 m)

OVERALL: Net = -76.04 shoot m⁻²; Rate = -10.64 % yr⁻¹; Perc Final = 47 % > decrease

DECADAL: NO (7 yr)



159_cover

Romero et al. 2010 (a)

SITE: Sant Feliu (Spain – Mediterranean) – Po (-14.5 m)

OVERALL: Net = 1.14 %; Rate = 0.44 % yr⁻¹; Perc Final = 103 % > no change

DECADAL: NO (7 yr)



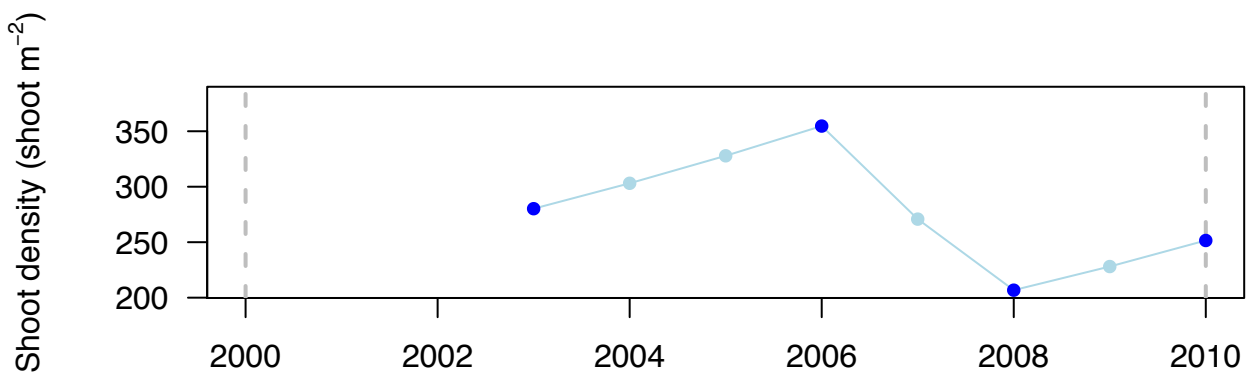
159_density

Romero et al. 2010 (a)

SITE: Sant Feliu (Spain – Mediterranean) – Po (-14.5 m)

OVERALL: Net = -28.65 shoot m⁻²; Rate = -1.54 % yr⁻¹; Perc Final = 90 % > no change

DECADAL: NO (7 yr)



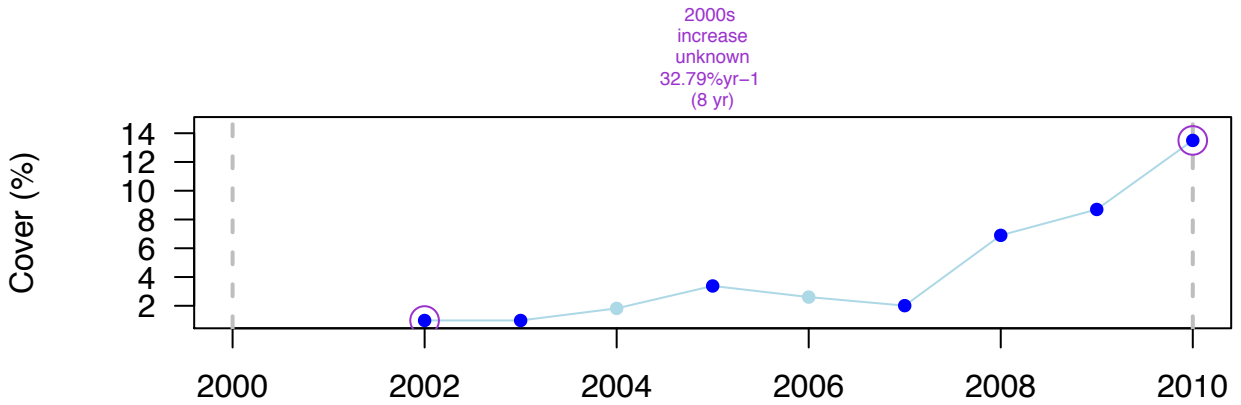
160_cover

Romero et al. 2010 (a)

SITE: Sitges (Spain – Mediterranean) – Po (-16.5 m)

OVERALL: Net = 12.52 %; Rate = 32.79 % yr⁻¹; Perc Final = 1378 % > increase

DECADAL: YES (8 yr)



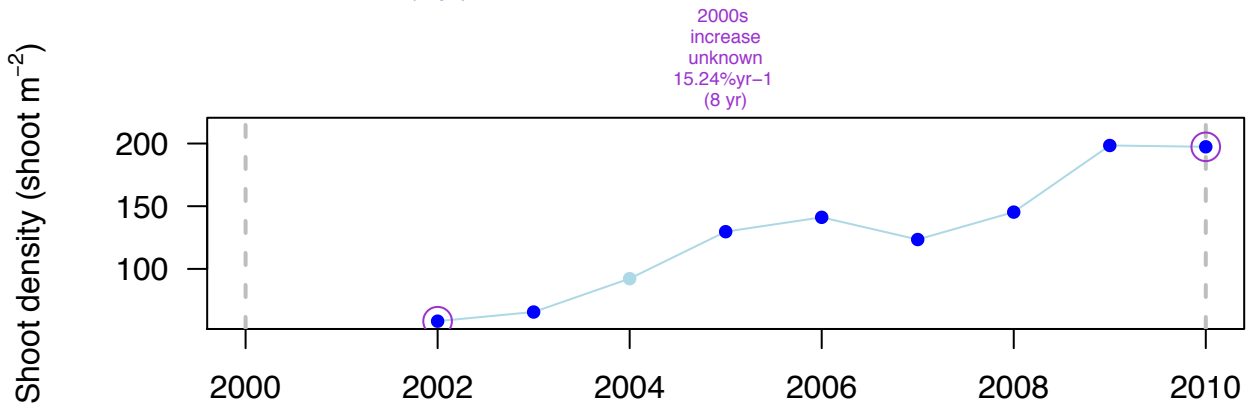
160_density

Romero et al. 2010 (a)

SITE: Sitges (Spain – Mediterranean) – Po (-16.5 m)

OVERALL: Net = 139.07 shoot m⁻²; Rate = 15.24 % yr⁻¹; Perc Final = 338 % > increase

DECADAL: YES (8 yr)



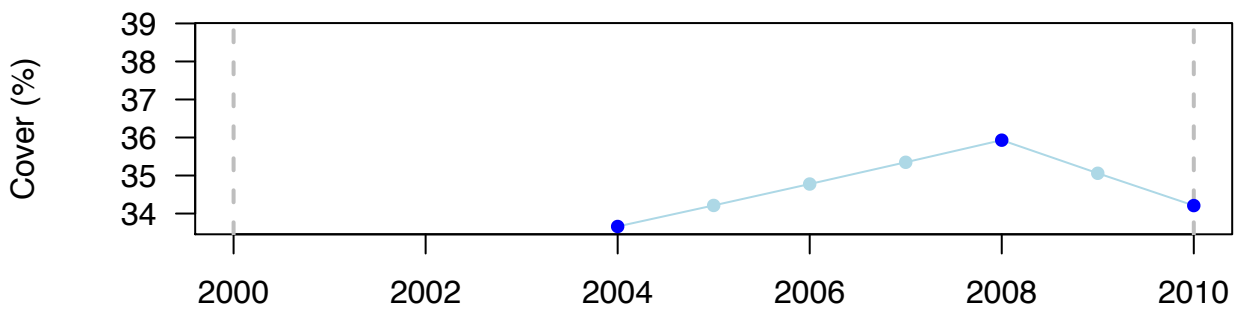
161_cover

Romero et al. 2010 (a)

SITE: Tamariua (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 0.55 %; Rate = 0.27 % yr⁻¹; Perc Final = 102 % > no change

DECADAL: NO (6 yr)



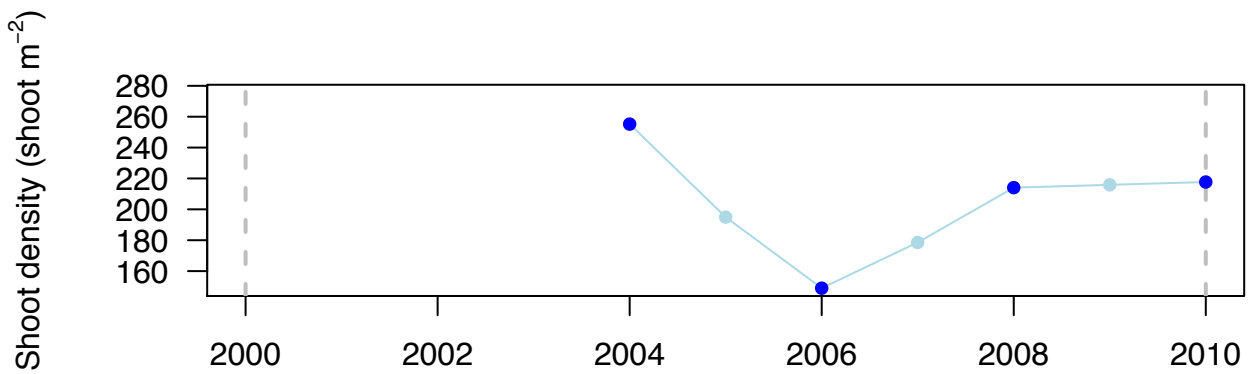
161_density

Romero et al. 2010 (a)

SITE: Tamariua (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -37.5 shoot m⁻²; Rate = -2.65 % yr⁻¹; Perc Final = 85 % > no change

DECADAL: NO (6 yr)



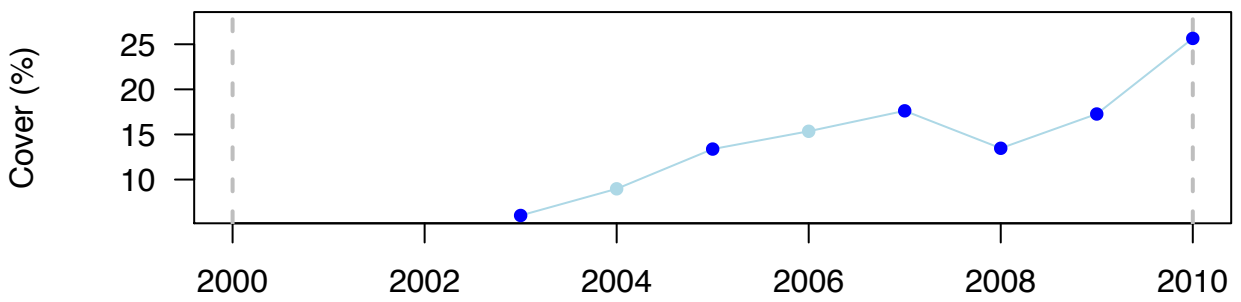
162_cover

Romero et al. 2010 (a)

SITE: Torredembarra (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 19.63 %; Rate = 20.71 % yr⁻¹; Perc Final = 426 % > increase

DECADAL: NO (7 yr)



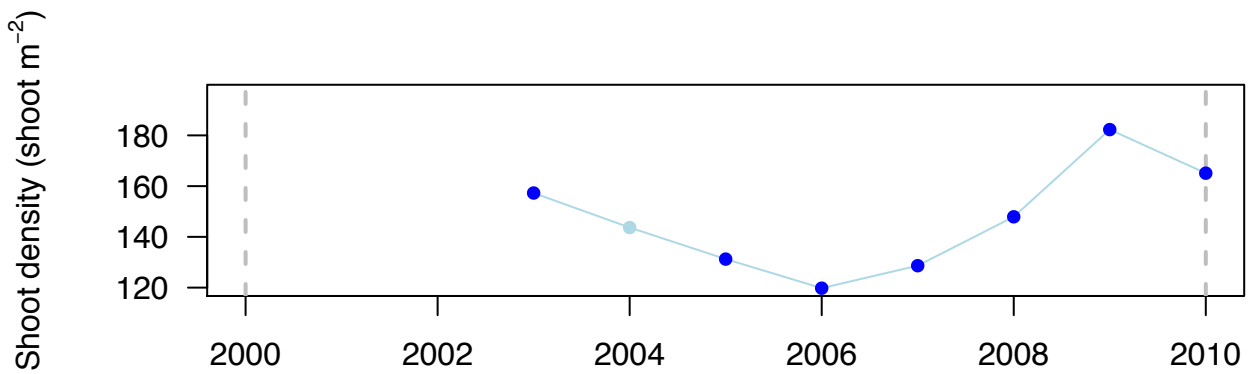
162_density

Romero et al. 2010 (a)

SITE: Torredembarra (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 7.81 shoot m⁻²; Rate = 0.69 % yr⁻¹; Perc Final = 105 % > no change

DECADAL: NO (7 yr)



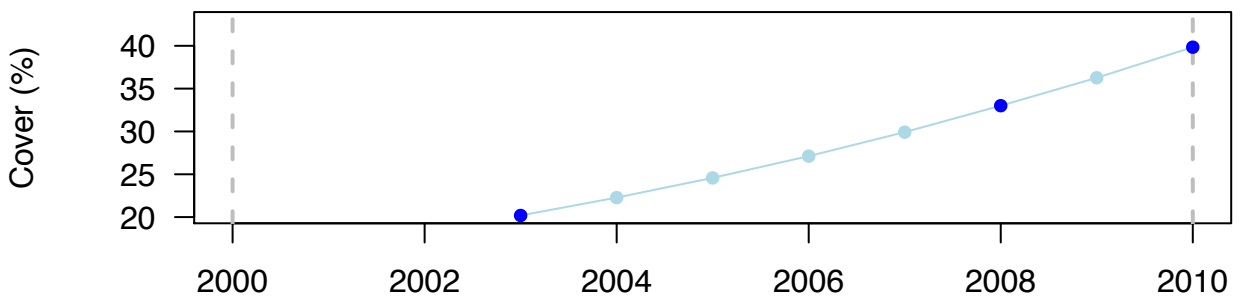
163_cover

Romero et al. 2010 (a)

SITE: Tossa de Mar (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = 19.65 %; Rate = 9.71 % yr⁻¹; Perc Final = 197 % > increase

DECADAL: NO (7 yr)



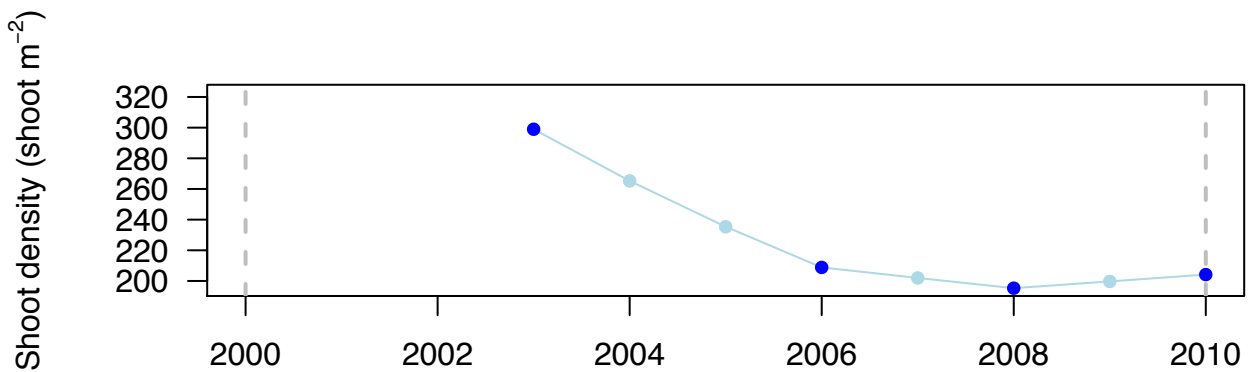
163_density

Romero et al. 2010 (a)

SITE: Tossa de Mar (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -94.79 shoot m⁻²; Rate = -5.45 % yr⁻¹; Perc Final = 68 % > decrease

DECADAL: NO (7 yr)



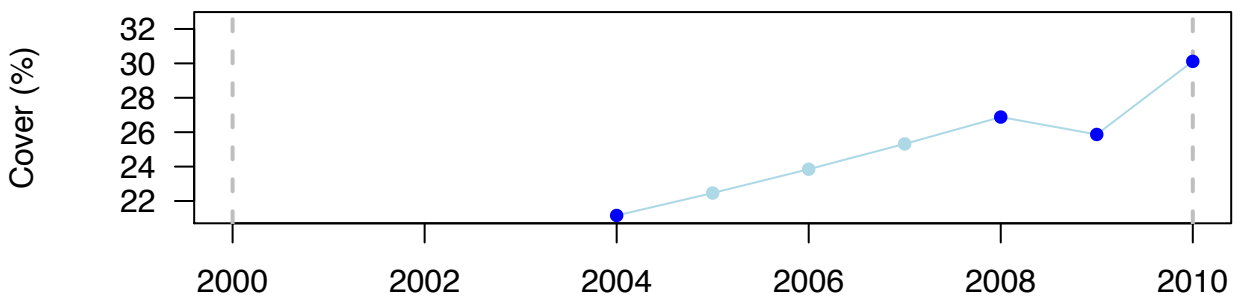
164_cover

Romero et al. 2010 (a)

SITE: Vilanova (Spain – Mediterranean) – Po (-17.5 m)

OVERALL: Net = 8.96 %; Rate = 5.88 % yr⁻¹; Perc Final = 142 % > increase

DECADAL: NO (6 yr)



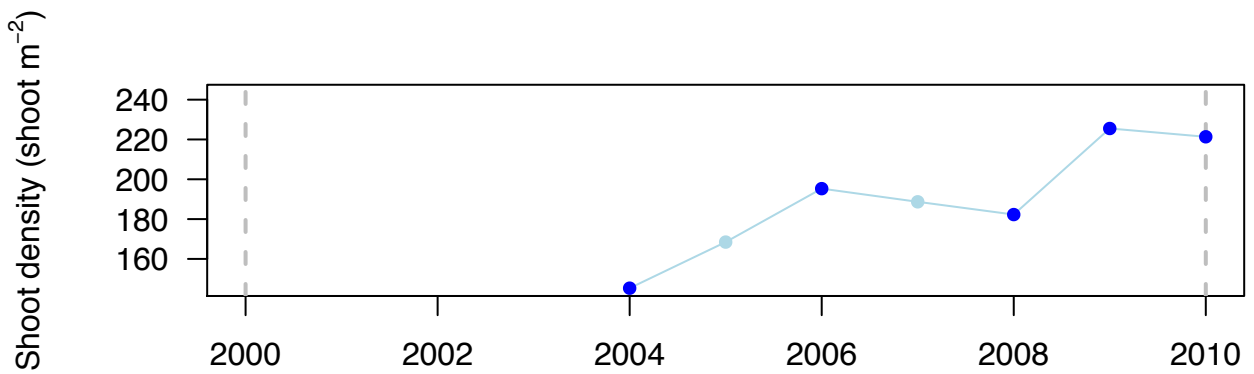
164_density

Romero et al. 2010 (a)

SITE: Vilanova (Spain – Mediterranean) – Po (-17.5 m)

OVERALL: Net = 76.04 shoot m⁻²; Rate = 7.01 % yr⁻¹; Perc Final = 152 % > increase

DECADAL: NO (6 yr)



165_cover

Romero et al. 2010 (a)

SITE: Cadaqués (Spain – Mediterranean) – Po (-13.8 m)

OVERALL: Net = 0.71 %; Rate = 1.4 % yr⁻¹; Perc Final = 103 % > no change

DECADAL: NO (2 yr)



165_density

Romero et al. 2010 (a)

SITE: Cadaqués (Spain – Mediterranean) – Po (-13.8 m)

OVERALL: Net = 93.23 shoot m⁻²; Rate = 34.11 % yr⁻¹; Perc Final = 198 % > increase

DECADAL: NO (2 yr)



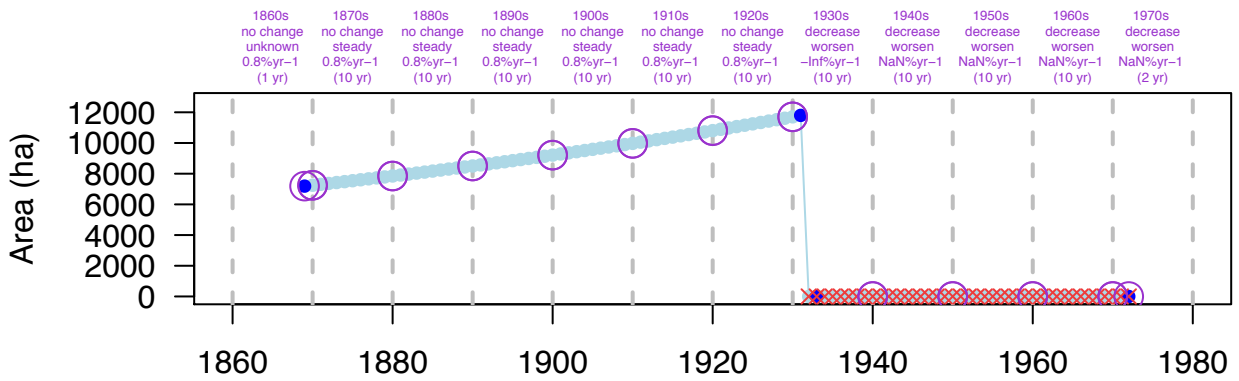
166_area

den Hartog and Polderman 1975

SITE: Western Dutch Wadden Sea (The Netherlands – Atlantic) – Zm (-2 m)

OVERALL: Net = -7190 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (103 yr)



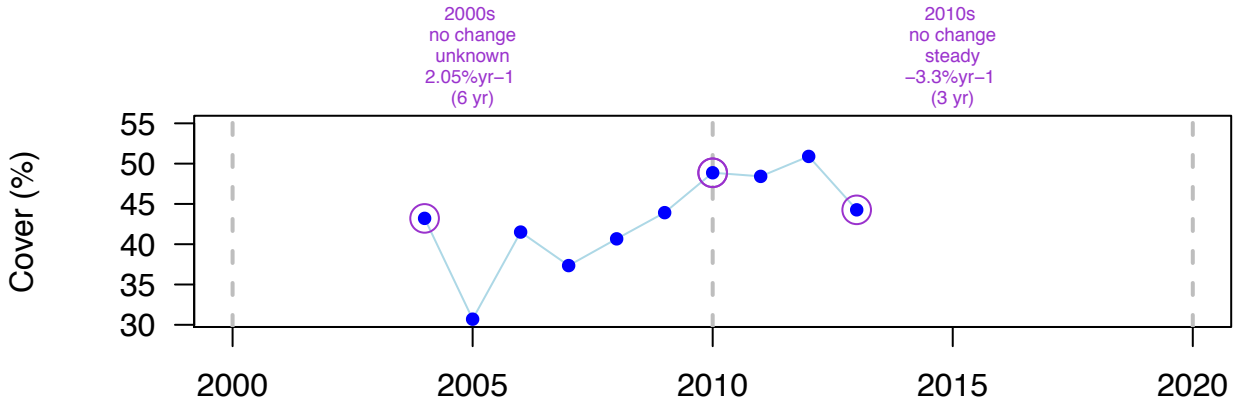
167_cover

Ruiz et al. 2013

SITE: Cala Túnez (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = 1.06 %; Rate = 0.27 % yr⁻¹; Perc Final = 102 % > no change

DECADAL: YES (9 yr)



167_density

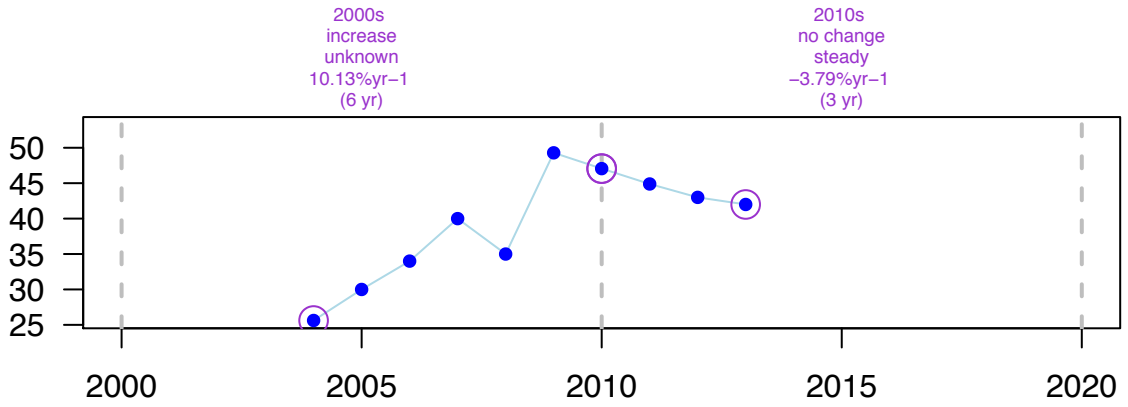
Ruiz et al. 2013

SITE: Cala Túnez (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = 16.38 shoot m⁻²; Rate = 5.49 % yr⁻¹; Perc Final = 164 % > increase

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



168_cover

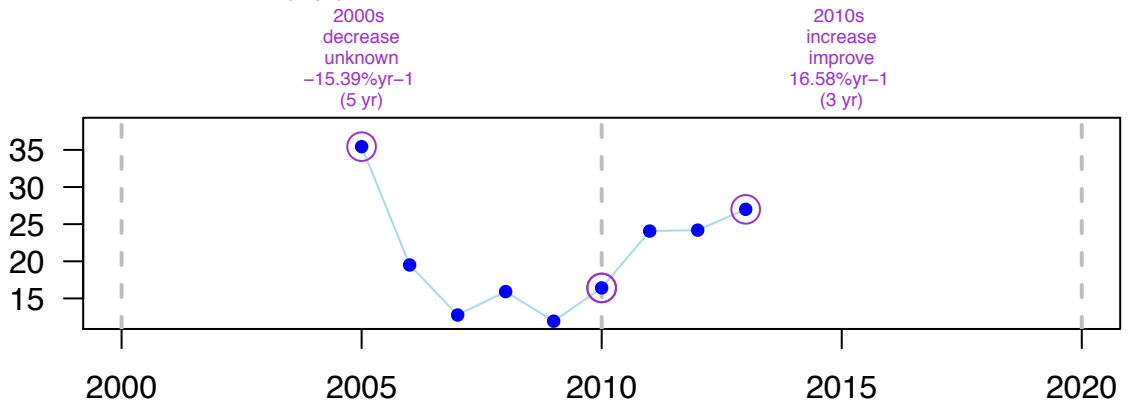
Ruiz et al. 2013

SITE: Cala Escalera (Spain – Mediterranean) – Po (-17 m)

OVERALL: Net = -8.44 %; Rate = -3.4 % yr⁻¹; Perc Final = 76 % > no change

DECADAL: YES (8 yr)

Cover (%)



168_density

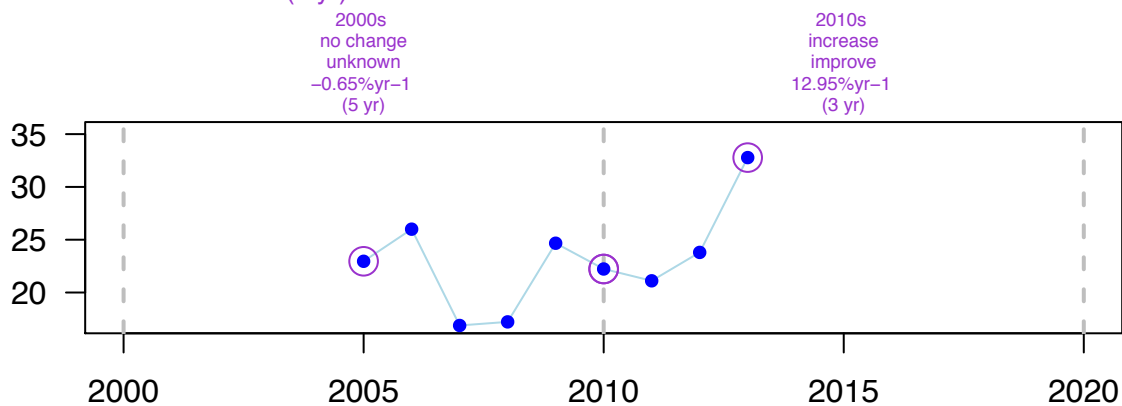
Ruiz et al. 2013

SITE: Cala Escalera (Spain – Mediterranean) – Po (-17 m)

OVERALL: Net = 9.82 shoot m⁻²; Rate = 4.45 % yr⁻¹; Perc Final = 143 % > increase

DECADAL: YES (8 yr)

Shoot density (shoot m⁻²)



169_cover

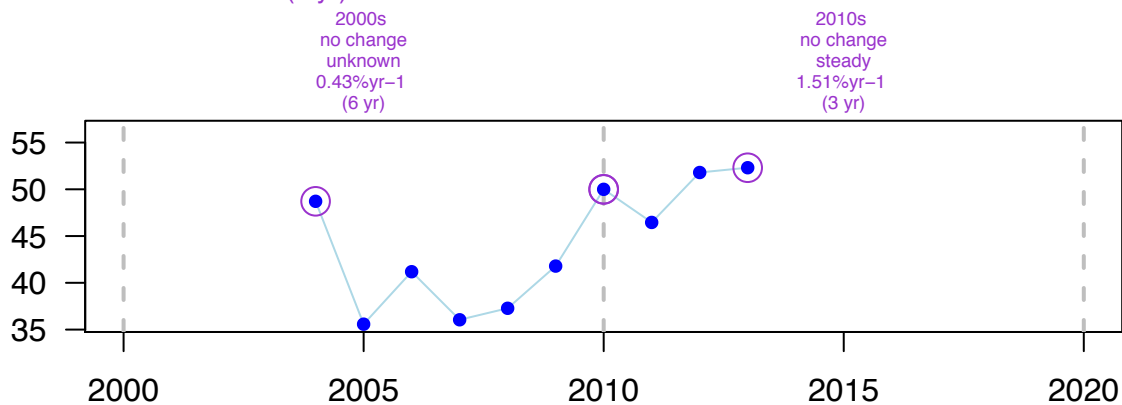
Ruiz et al. 2013

SITE: Cala Escalera (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = 3.59 %; Rate = 0.79 % yr⁻¹; Perc Final = 107 % > no change

DECADAL: YES (9 yr)

Cover (%)



169_density

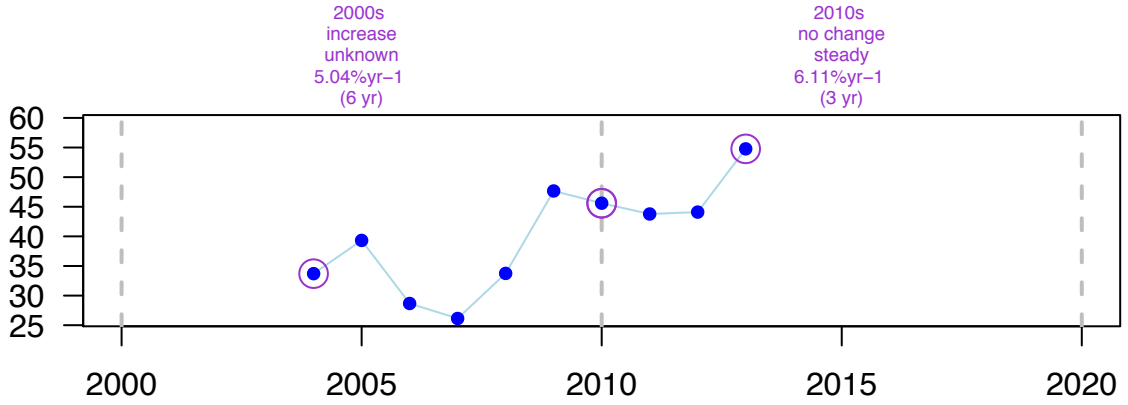
Ruiz et al. 2013

SITE: Cala Escalera (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = 21.07 shoot m⁻²; Rate = 5.39 % yr⁻¹; Perc Final = 163 % > increase

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



170_cover

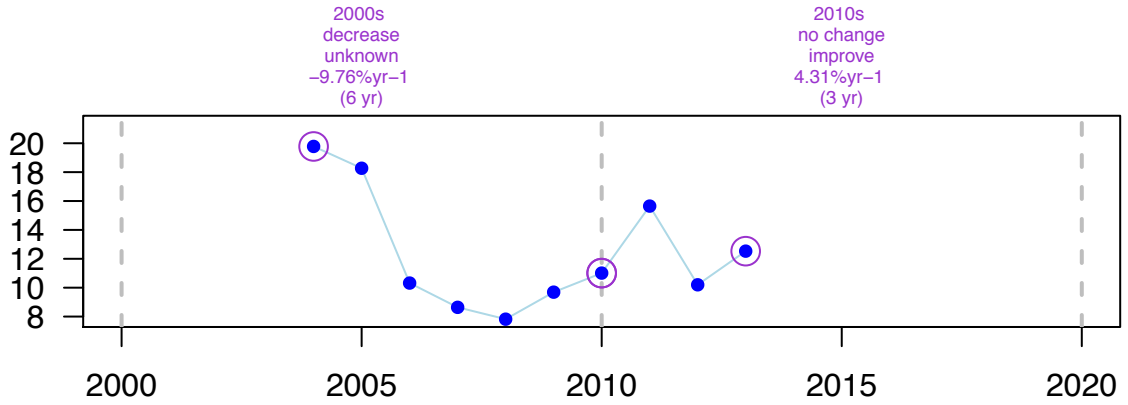
Ruiz et al. 2013

SITE: Cala Cerrada (Spain – Mediterranean) – Po (-22 m)

OVERALL: Net = -7.25 %; Rate = -5.07 % yr⁻¹; Perc Final = 63 % > decrease

DECADAL: YES (9 yr)

Cover (%)



170_density

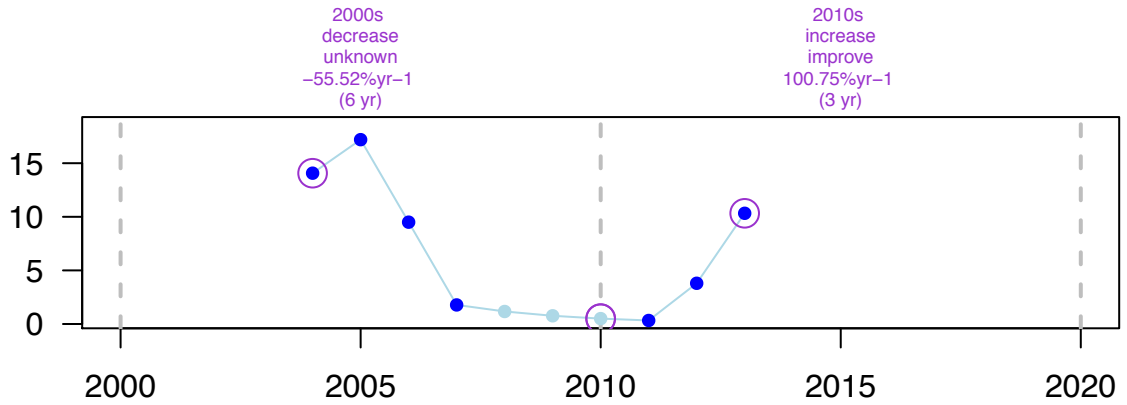
Ruiz et al. 2013

SITE: Cala Cerrada (Spain – Mediterranean) – Po (-22 m)

OVERALL: Net = -3.74 shoot m⁻²; Rate = -3.43 % yr⁻¹; Perc Final = 73 % > decrease

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



171_cover

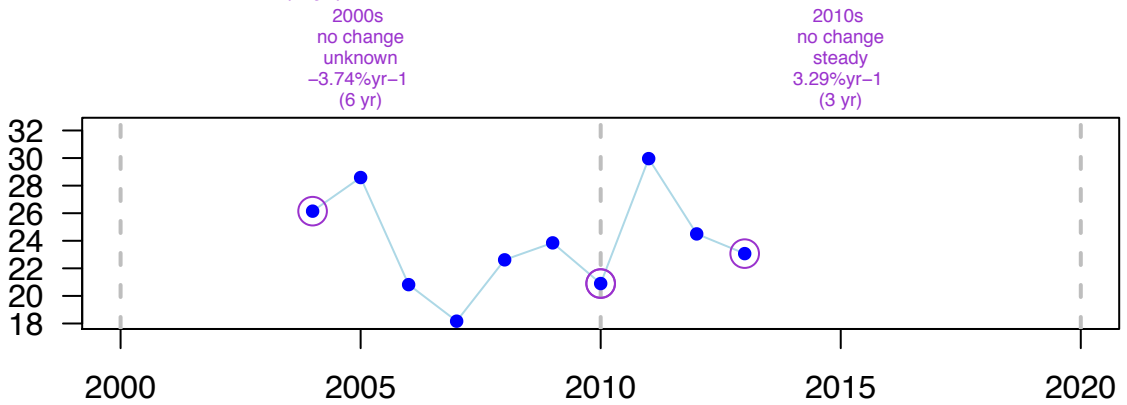
Ruiz et al. 2013

SITE: Cala Cerrada (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = -3.08 %; Rate = -1.39 % yr⁻¹; Perc Final = 88 % > no change

DECADAL: YES (9 yr)

Cover (%)



171_density

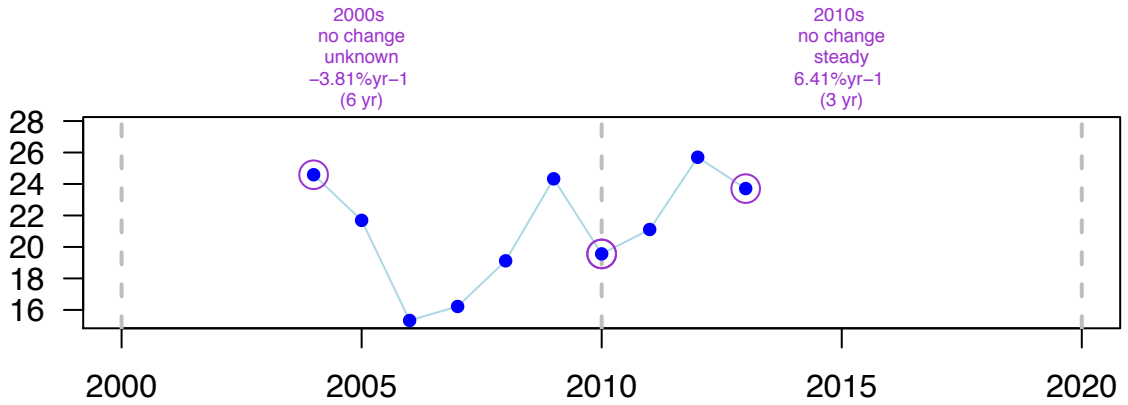
Ruiz et al. 2013

SITE: Cala Cerrada (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = -0.88 shoot m⁻²; Rate = -0.4 % yr⁻¹; Perc Final = 96 % > no change

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



172_cover

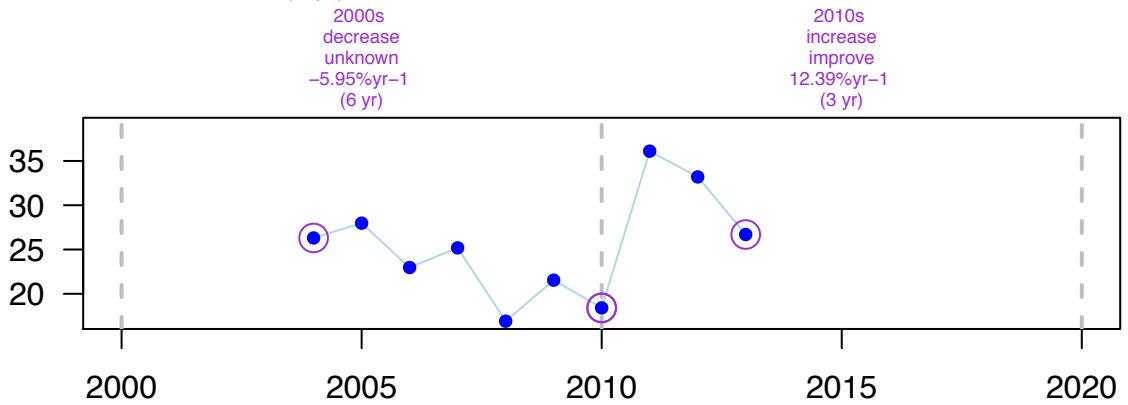
Ruiz et al. 2013

SITE: La Azohía (Spain – Mediterranean) – Po (-17 m)

OVERALL: Net = 0.39 %; Rate = 0.16 % yr⁻¹; Perc Final = 101 % > no change

DECADAL: YES (9 yr)

Cover (%)



172_density

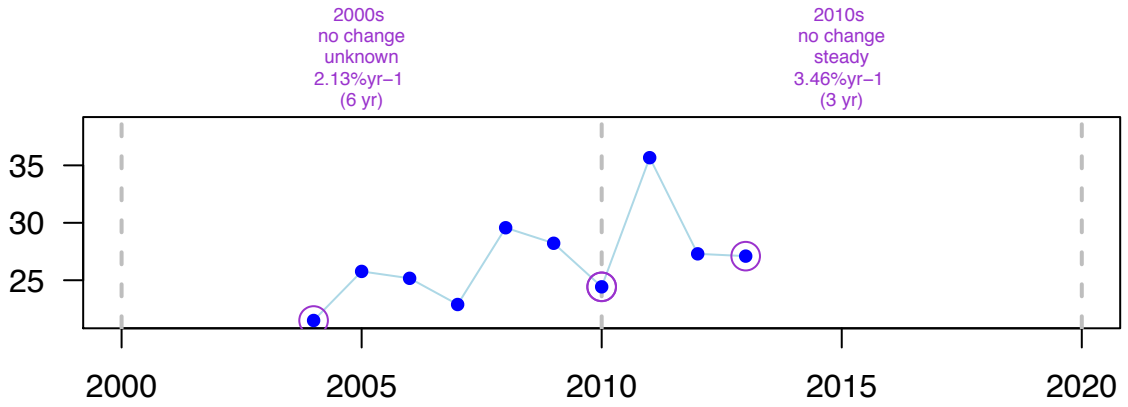
Ruiz et al. 2013

SITE: La Azohía (Spain – Mediterranean) – Po (-17 m)

OVERALL: Net = 5.6 shoot m⁻²; Rate = 2.57 % yr⁻¹; Perc Final = 126 % > increase

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



173_cover

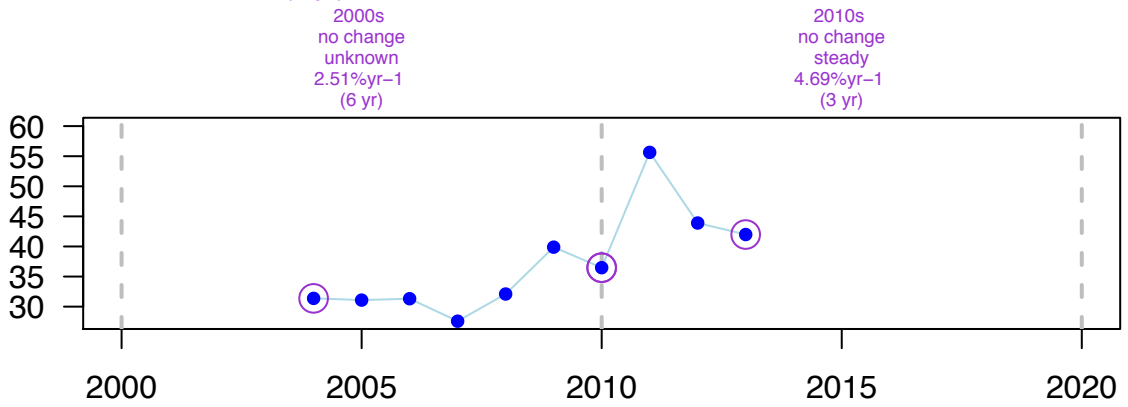
Ruiz et al. 2013

SITE: Isla Plana (levante) (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 10.61 %; Rate = 3.24 % yr⁻¹; Perc Final = 134 % > increase

DECADAL: YES (9 yr)

Cover (%)



173_density

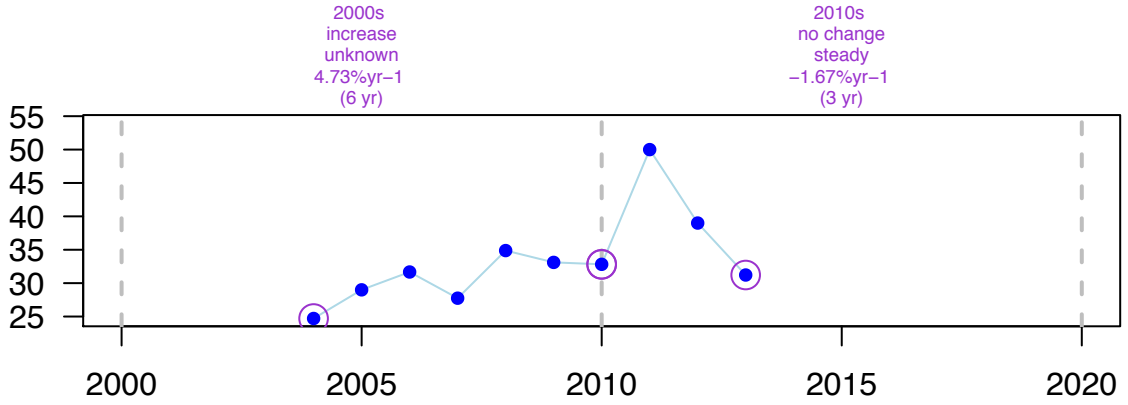
Ruiz et al. 2013

SITE: Isla Plana (levante) (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 6.51 shoot m⁻²; Rate = 2.6 % yr⁻¹; Perc Final = 126 % > increase

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



174_cover

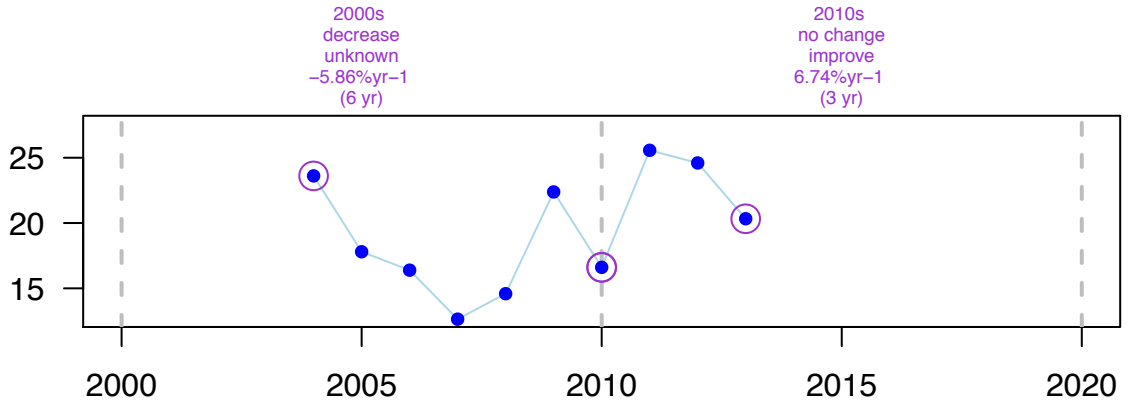
Ruiz et al. 2013

SITE: Calabardina (Cueva de la Virgen) (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -3.28 %; Rate = -1.66 % yr⁻¹; Perc Final = 86 % > no change

DECADAL: YES (9 yr)

Cover (%)



174_density

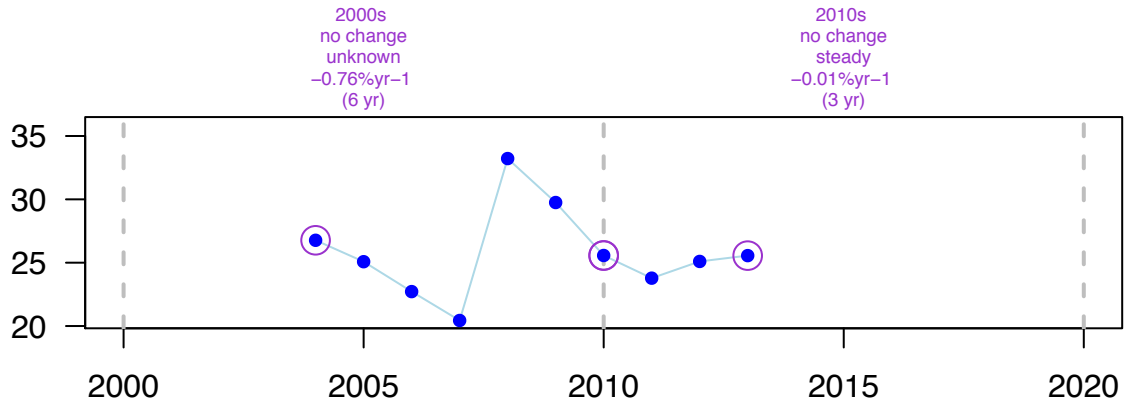
Ruiz et al. 2013

SITE: Calabardina (Cueva de la Virgen) (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -1.21 shoot m⁻²; Rate = -0.51 % yr⁻¹; Perc Final = 95 % > no change

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



175_cover

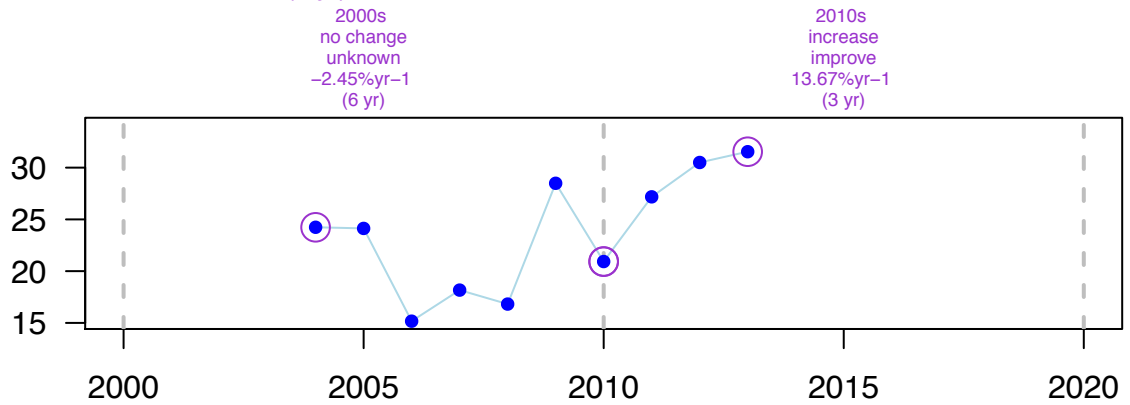
Ruiz et al. 2013

SITE: Isla del Fraile (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = 7.3 %; Rate = 2.93 % yr⁻¹; Perc Final = 130 % > increase

DECADAL: YES (9 yr)

Cover (%)



175_density

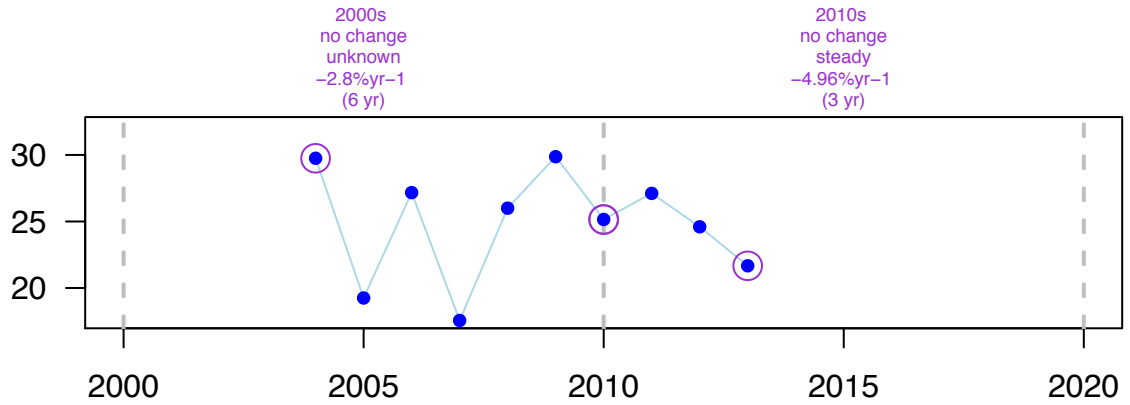
Ruiz et al. 2013

SITE: Isla del Fraile (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -8.08 shoot m⁻²; Rate = -3.52 % yr⁻¹; Perc Final = 73 % > decrease

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



176_cover

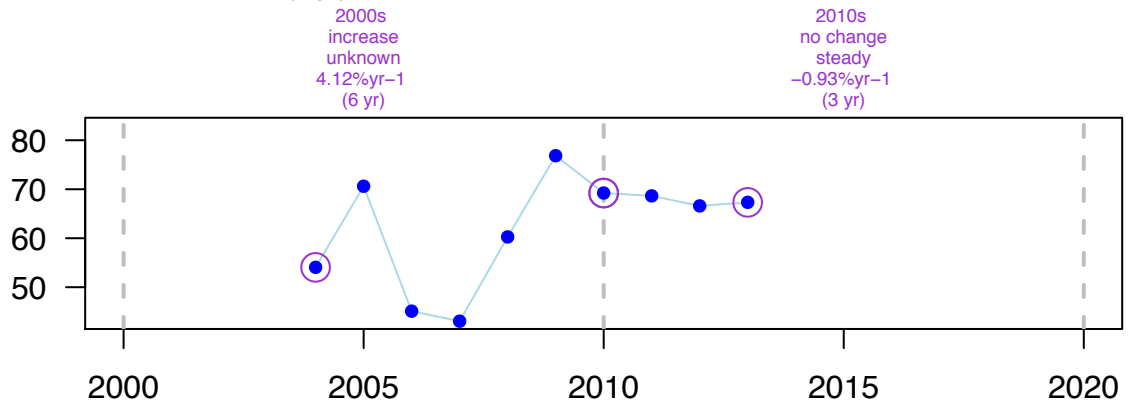
Ruiz et al. 2013

SITE: Isla Plana (poniente) (Spain – Mediterranean) – Po (-2 m)

OVERALL: Net = 13.27 %; Rate = 2.44 % yr⁻¹; Perc Final = 125 % > no change

DECADAL: YES (9 yr)

Cover (%)



176_density

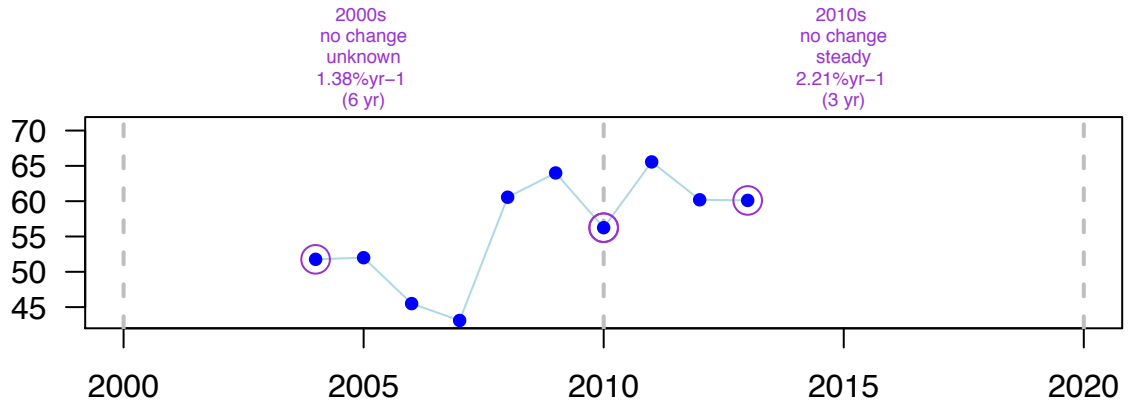
Ruiz et al. 2013

SITE: Isla Plana (poniente) (Spain – Mediterranean) – Po (-2 m)

OVERALL: Net = 8.34 shoot m⁻²; Rate = 1.66 % yr⁻¹; Perc Final = 116 % > no change

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



177_cover

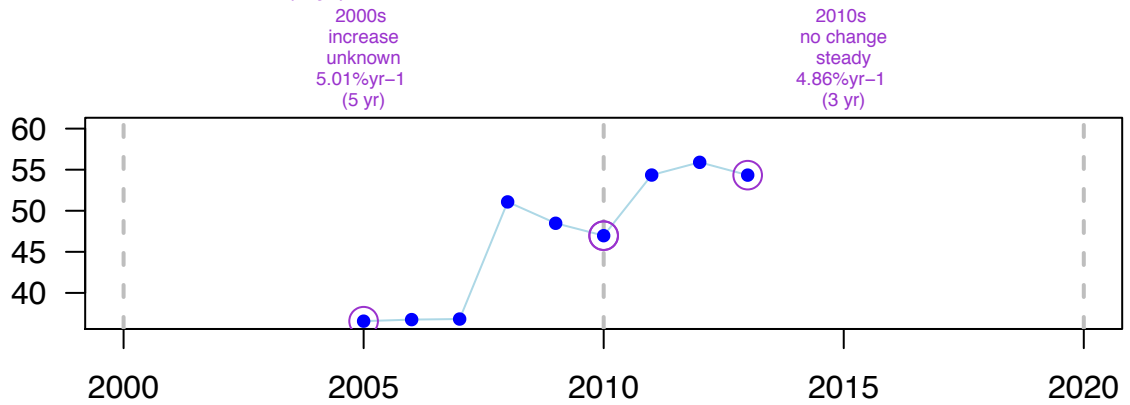
Ruiz et al. 2013

SITE: Isla Grosa (Spain – Mediterranean) – Po (-4 m)

OVERALL: Net = 17.78 %; Rate = 4.95 % yr⁻¹; Perc Final = 149 % > increase

DECADAL: YES (8 yr)

Cover (%)



177_density

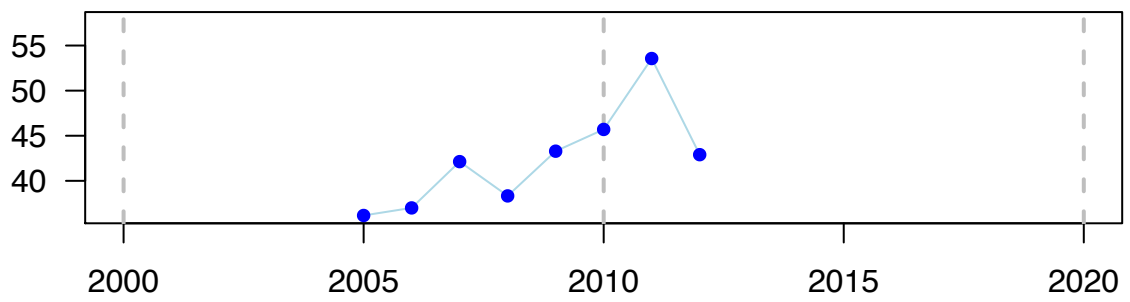
Ruiz et al. 2013

SITE: Isla Grosa (Spain – Mediterranean) – Po (-4 m)

OVERALL: Net = 6.74 shoot m⁻²; Rate = 2.44 % yr⁻¹; Perc Final = 119 % > no change

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



178_cover

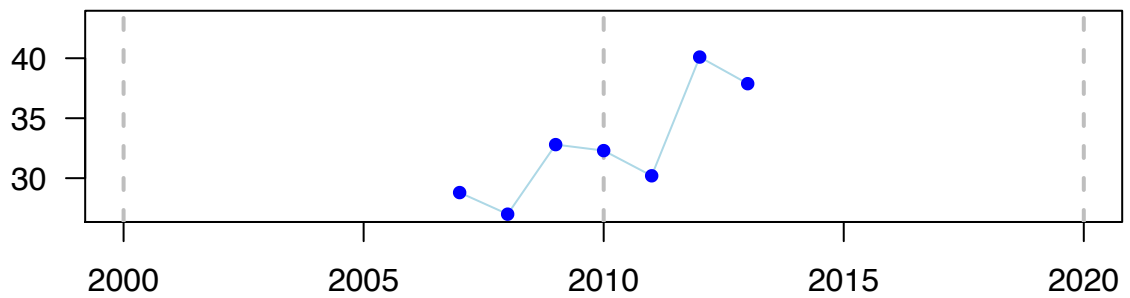
Ruiz et al. 2013

SITE: Isla Grosa (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = 9.08 %; Rate = 4.57 % yr⁻¹; Perc Final = 132 % > increase

DECADAL: NO (6 yr)

Cover (%)



178_density

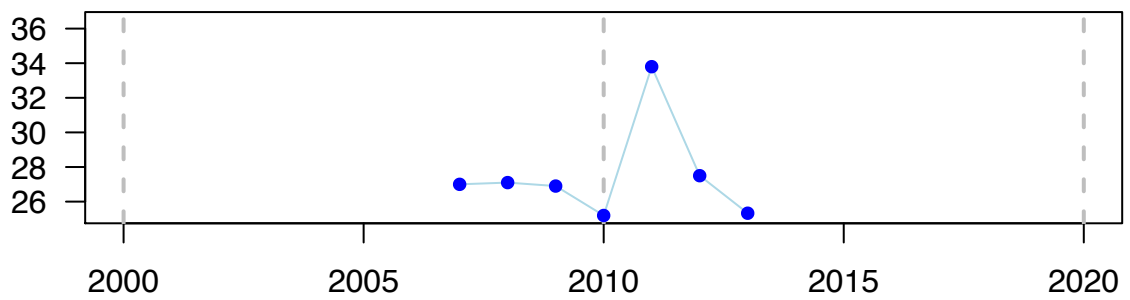
Ruiz et al. 2013

SITE: Isla Grosa (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = -1.67 shoot m⁻²; Rate = -1.06 % yr⁻¹; Perc Final = 94 % > no change

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



179_cover

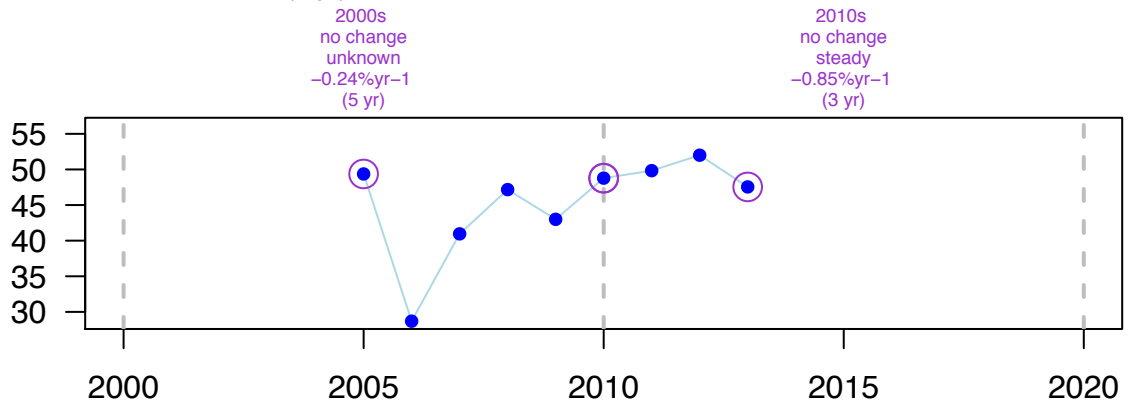
Ruiz et al. 2013

SITE: Puerto de Tomás Maestre (Spain – Mediterranean) – Po (-4 m)

OVERALL: Net = -1.82 %; Rate = -0.47 % yr⁻¹; Perc Final = 96 % > no change

DECADAL: YES (8 yr)

Cover (%)



179_density

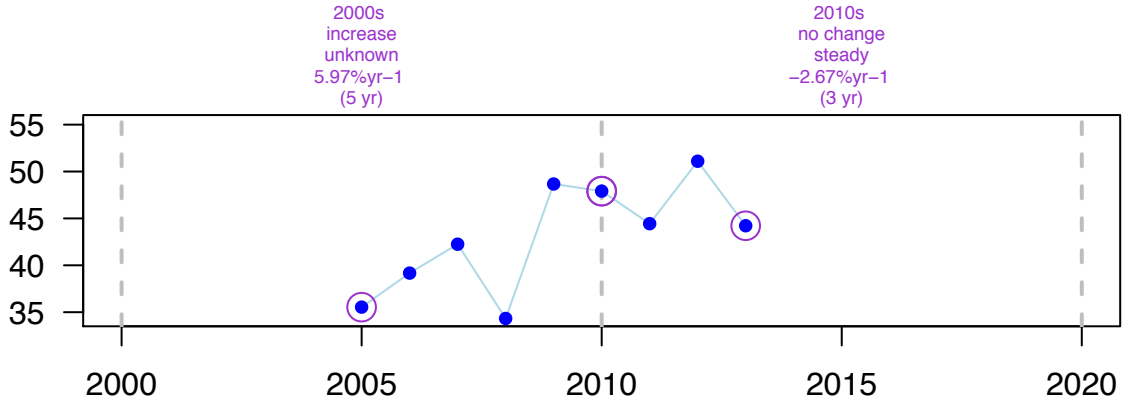
Ruiz et al. 2013

SITE: Puerto de Tomás Maestre (Spain – Mediterranean) – Po (-4 m)

OVERALL: Net = 8.68 shoot m⁻²; Rate = 2.73 % yr⁻¹; Perc Final = 124 % > no change

DECADAL: YES (8 yr)

Shoot density (shoot m⁻²)



180_cover

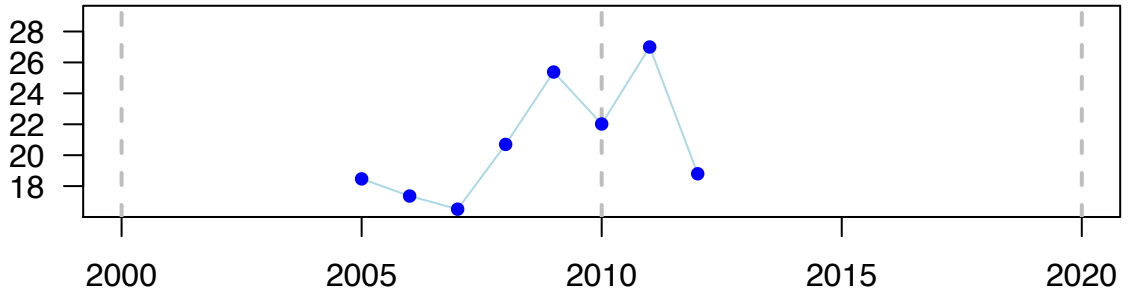
Ruiz et al. 2013

SITE: Isla de las Palomas (Spain – Mediterranean) – Po (-17 m)

OVERALL: Net = 0.33 %; Rate = 0.25 % yr⁻¹; Perc Final = 102 % > no change

DECADAL: NO (7 yr)

Cover (%)



180_density

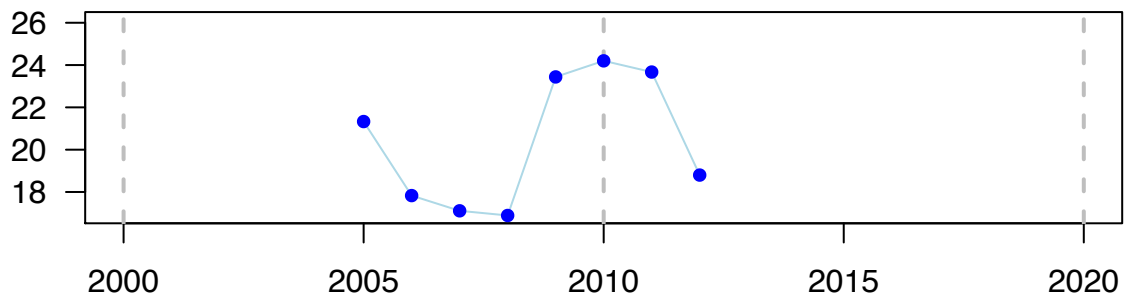
Ruiz et al. 2013

SITE: Isla de las Palomas (Spain – Mediterranean) – Po (-17 m)

OVERALL: Net = -2.53 shoot m⁻²; Rate = -1.8 % yr⁻¹; Perc Final = 88 % > no change

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



181_cover

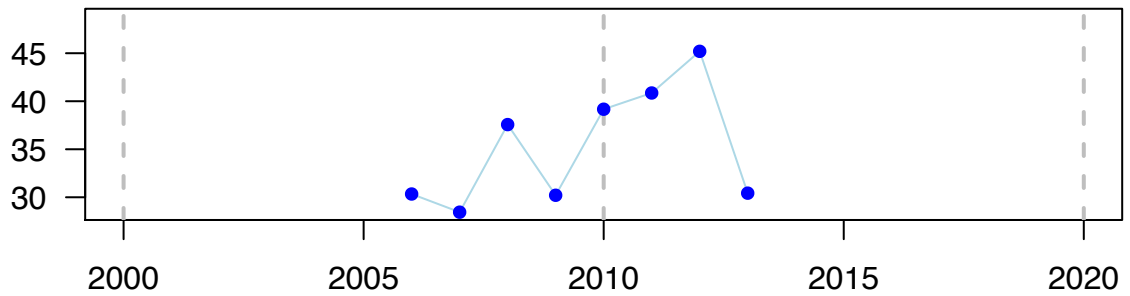
Ruiz et al. 2013

SITE: Cala Reona (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 0.09 %; Rate = 0.04 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (7 yr)

Cover (%)



181_density

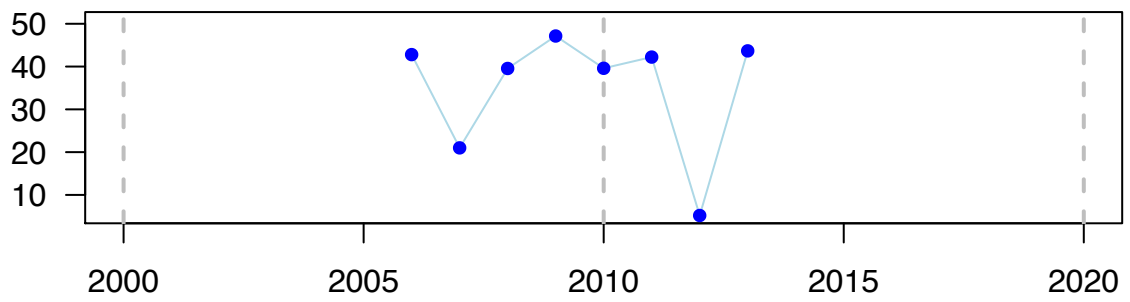
Ruiz et al. 2013

SITE: Cala Reona (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 0.87 shoot m⁻²; Rate = 0.29 % yr⁻¹; Perc Final = 102 % > no change

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



182_cover

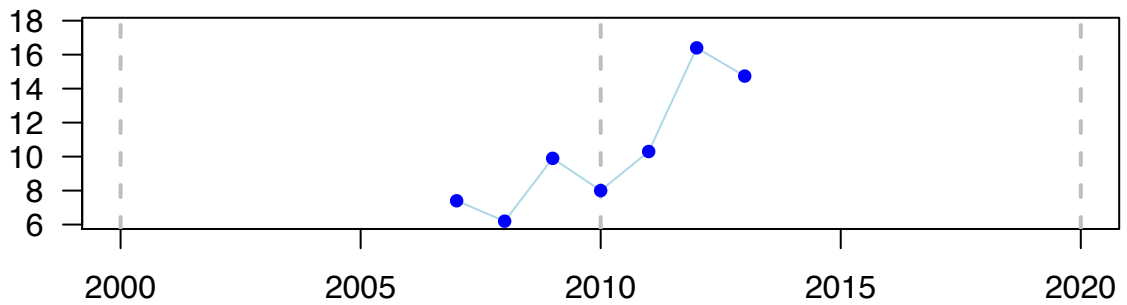
Ruiz et al. 2013

SITE: Calblanque (Spain – Mediterranean) – Po (-26 m)

OVERALL: Net = 7.34 %; Rate = 11.48 % yr⁻¹; Perc Final = 199 % > increase

DECADAL: NO (6 yr)

Cover (%)



182_density

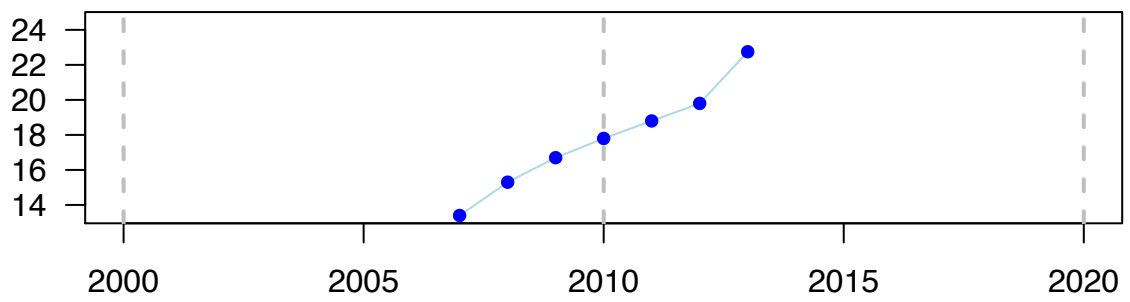
Ruiz et al. 2013

SITE: Calblanque (Spain – Mediterranean) – Po (-26 m)

OVERALL: Net = 9.35 shoot m⁻²; Rate = 8.82 % yr⁻¹; Perc Final = 170 % > increase

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



183_cover

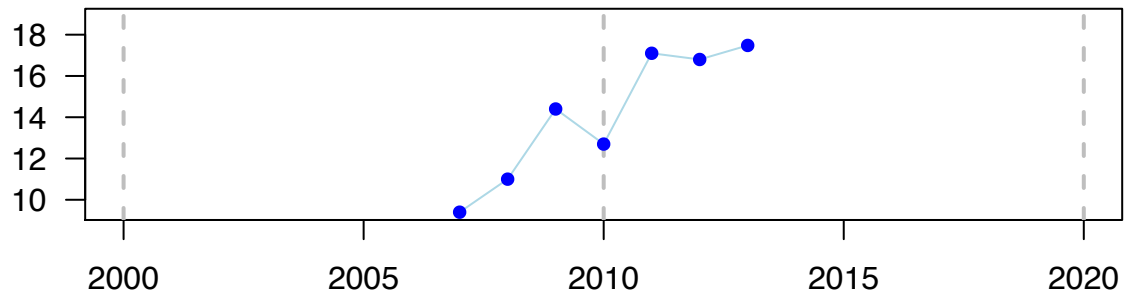
Ruiz et al. 2013

SITE: El Muellecico (Cabo Tiñoso) (Spain – Mediterranean) – Po (-22 m)

OVERALL: Net = 8.08 %; Rate = 10.34 % yr⁻¹; Perc Final = 186 % > increase

DECADAL: NO (6 yr)

Cover (%)



183_density

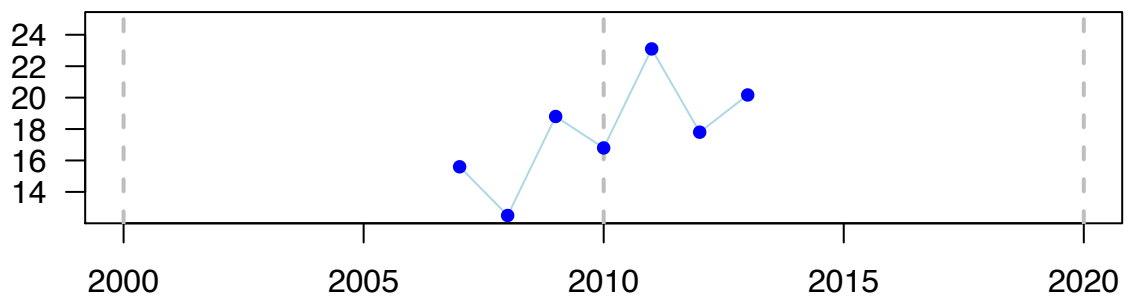
Ruiz et al. 2013

SITE: El Muellecico (Cabo Tiñoso) (Spain – Mediterranean) – Po (-22 m)

OVERALL: Net = 4.57 shoot m⁻²; Rate = 4.28 % yr⁻¹; Perc Final = 129 % > increase

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



184_density

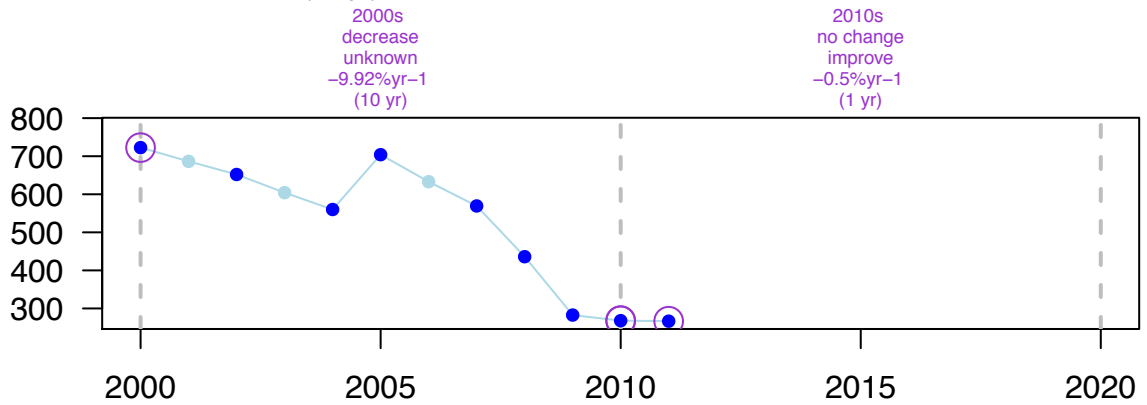
Marbà and Duarte 2010, Duarte and Marbà (unpublished)

SITE: El Castell (Spain – Mediterranean) – Po (-5 m)

OVERALL: Net = -456 shoot m⁻²; Rate = -9.06 % yr⁻¹; Perc Final = 37 % > decrease

DECADAL: YES (11 yr)

Shoot density (shoot m⁻²)



185_density

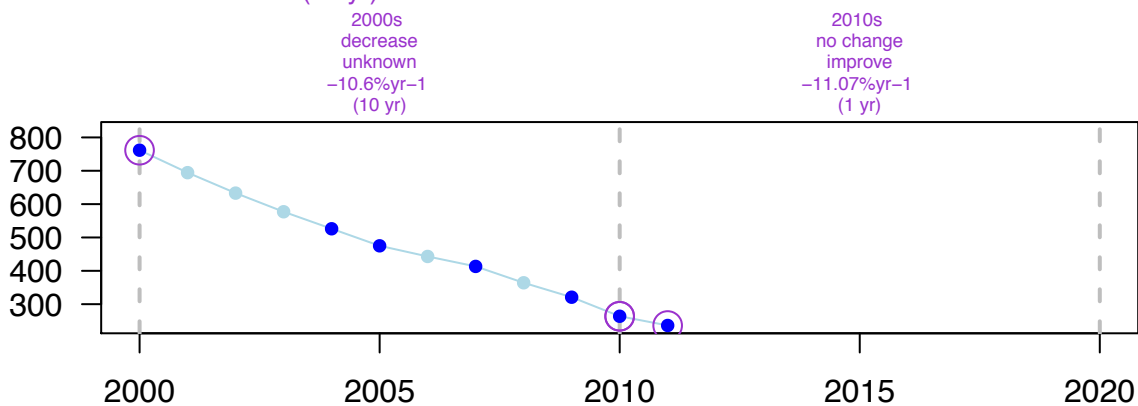
Marbà and Duarte 2010, Duarte and Marbà (unpublished)

SITE: Cala Santa María (Spain – Mediterranean) – Po (-13.1 m)

OVERALL: Net = -525.47 shoot m⁻²; Rate = -10.64 % yr⁻¹; Perc Final = 31 % > decrease

DECADAL: YES (11 yr)

Shoot density (shoot m⁻²)



186_density

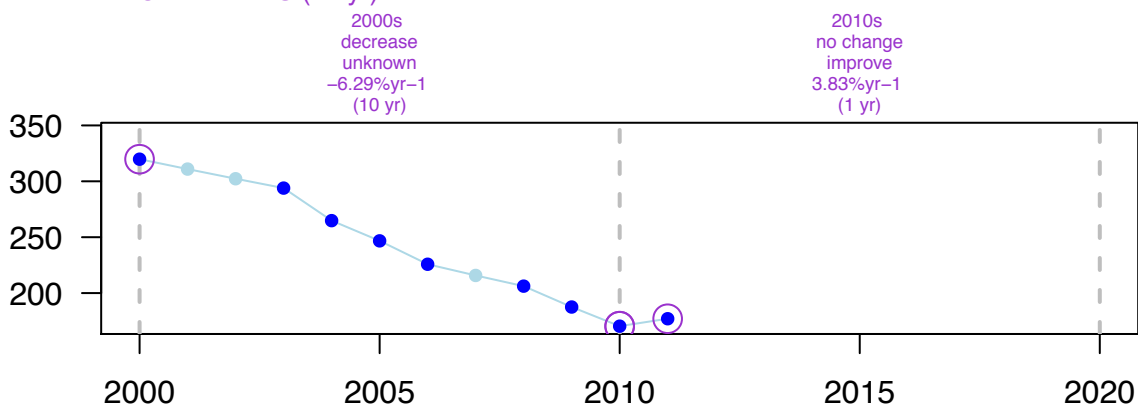
Duarte and Marbà (unpublished)

SITE: Mooring 22 (Spain – Mediterranean) – Po (-17 m)

OVERALL: Net = -142.73 shoot m⁻²; Rate = -5.37 % yr⁻¹; Perc Final = 55 % > decrease

DECADAL: YES (11 yr)

Shoot density (shoot m⁻²)



187_density

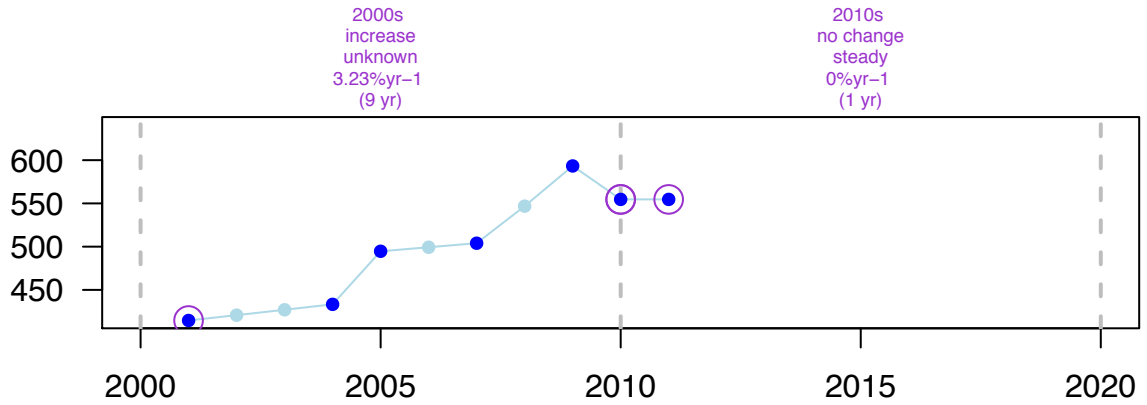
Duarte and Marbà (unpublished)

SITE: Porto Colom (Spain – Mediterranean) – Po (-6.4 m)

OVERALL: Net = 140 shoot m⁻²; Rate = 2.91 % yr⁻¹; Perc Final = 134 % > increase

DECADAL: YES (10 yr)

Shoot density (shoot m⁻²)



188_density

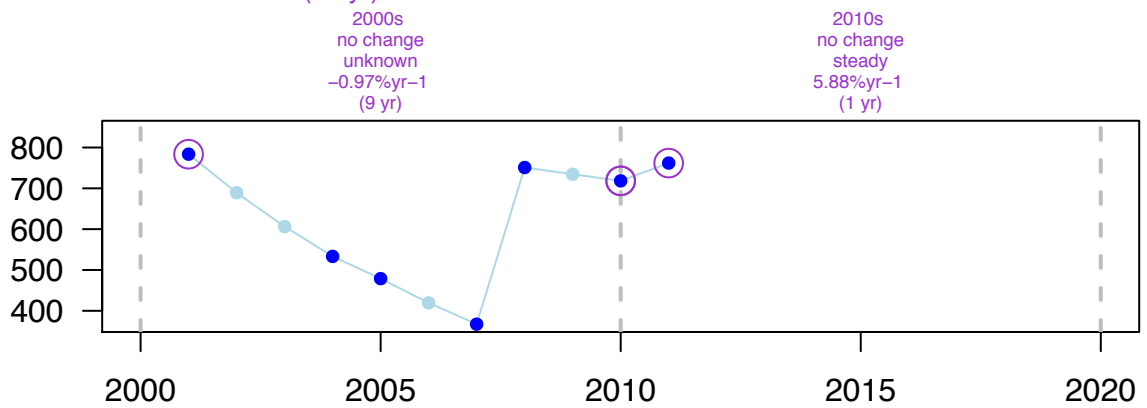
Duarte and Marbà (unpublished)

SITE: Pollença (Spain – Mediterranean) – Po (-4.1 m)

OVERALL: Net = -21.77 shoot m⁻²; Rate = -0.28 % yr⁻¹; Perc Final = 97 % > no change

DECADAL: YES (10 yr)

Shoot density (shoot m⁻²)



189_density

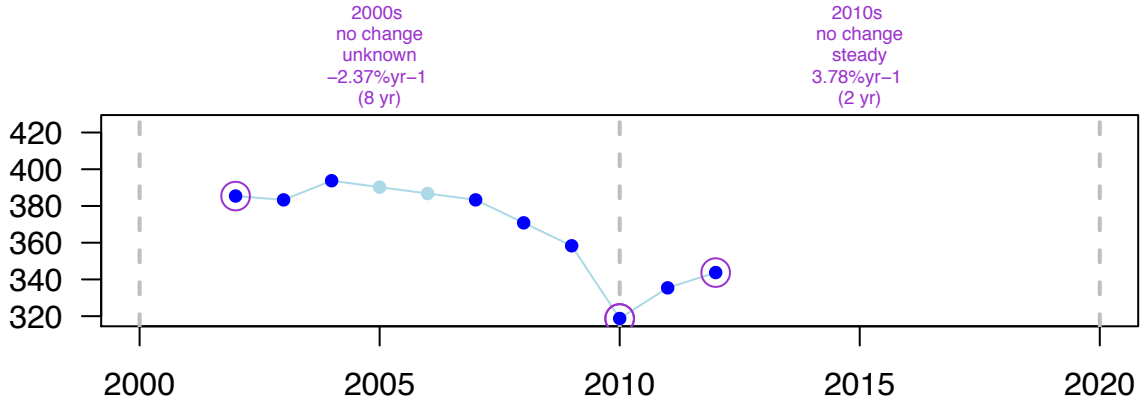
Duarte and Marbà (unpublished)

SITE: Cap Salines (Spain – Mediterranean) – Po (-25.5 m)

OVERALL: Net = -41.67 shoot m⁻²; Rate = -1.14 % yr⁻¹; Perc Final = 89 % > no change

DECADAL: YES (10 yr)

Shoot density (shoot m⁻²)



190_density

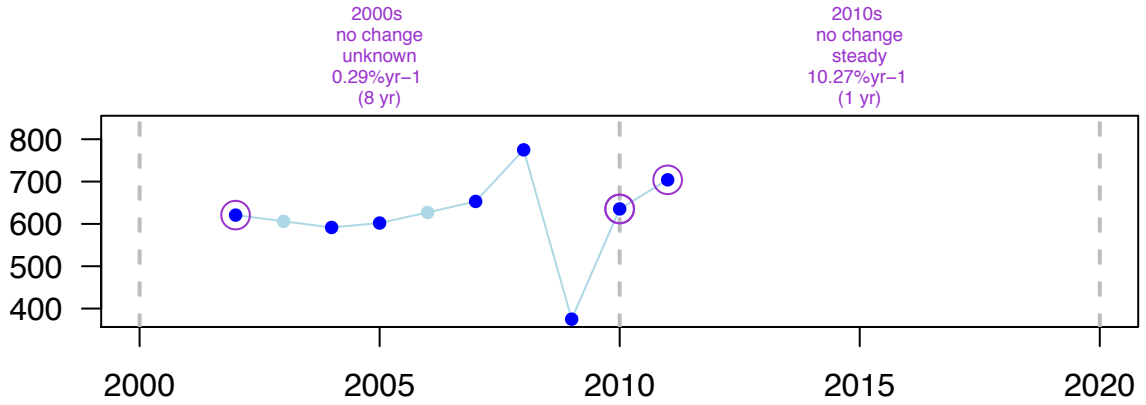
Duarte and Marbà (unpublished)

SITE: Cala Millor (Spain – Mediterranean) – Po (-6.5 m)

OVERALL: Net = 83.34 shoot m⁻²; Rate = 1.4 % yr⁻¹; Perc Final = 113 % > no change

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



191_density

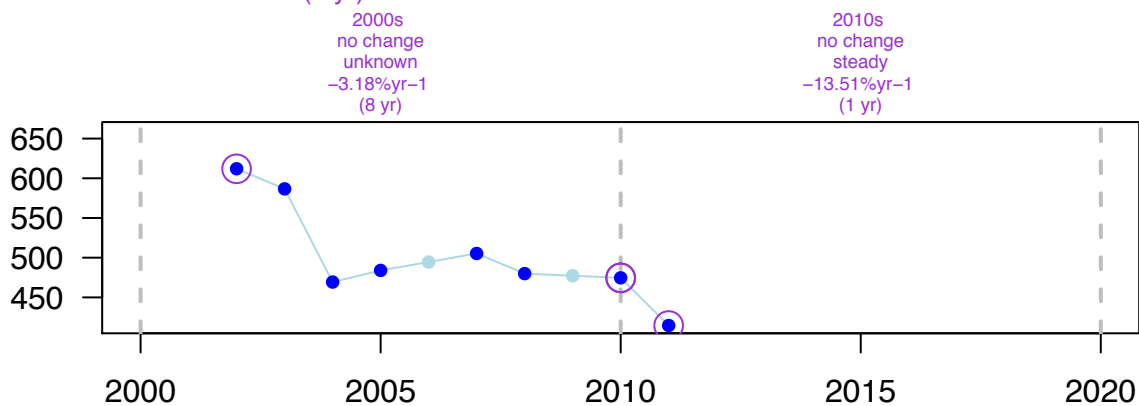
Duarte and Marbà (unpublished)

SITE: Can Picafort (Spain – Mediterranean) – Po (-10 m)

OVERALL: Net = -197.33 shoot m⁻²; Rate = -4.32 % yr⁻¹; Perc Final = 68 % > decrease

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



192_density

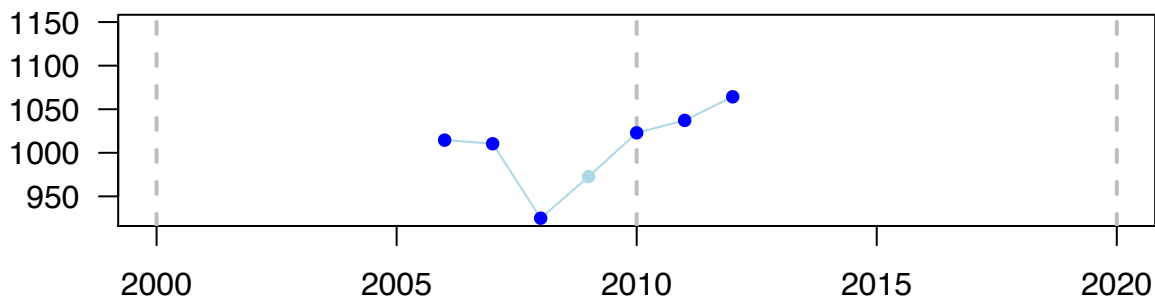
Duarte and Marbà (unpublished)

SITE: Es Cargol (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 49.71 shoot m⁻²; Rate = 0.8 % yr⁻¹; Perc Final = 105 % > no change

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



193_density

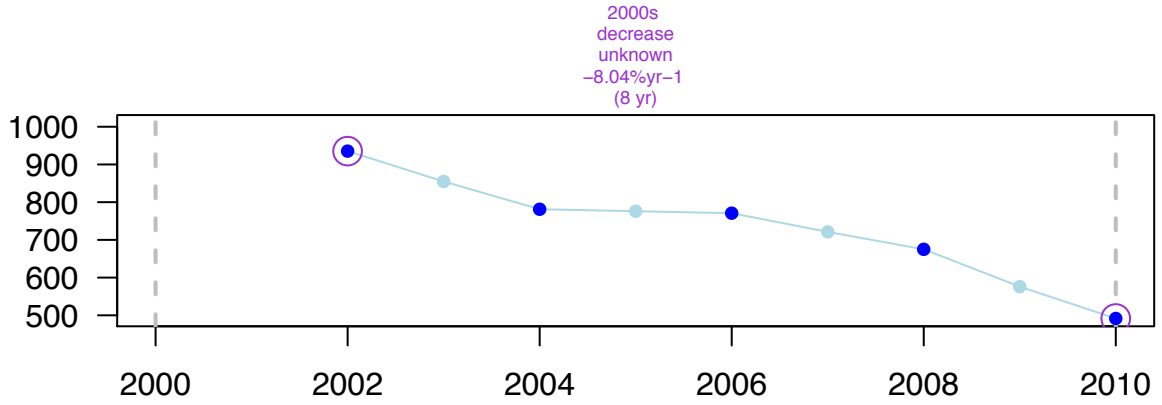
Duarte and Marbà (unpublished)

SITE: Fornells (Spain – Mediterranean) – Po (-6.8 m)

OVERALL: Net = -443.75 shoot m⁻²; Rate = -8.04 % yr⁻¹; Perc Final = 53 % > decrease

DECADAL: YES (8 yr)

Shoot density (shoot m⁻²)



194_density

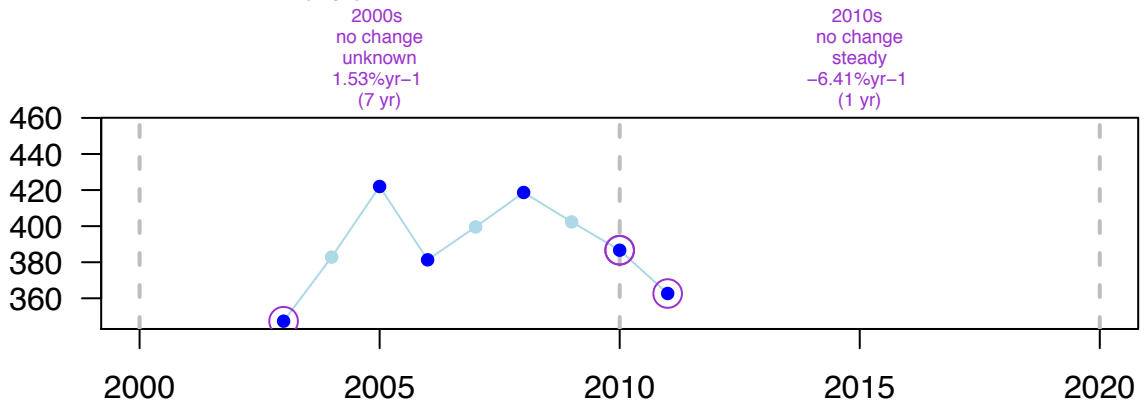
Duarte and Marbà (unpublished)

SITE: Cala d'Or (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = 15.34 shoot m⁻²; Rate = 0.54 % yr⁻¹; Perc Final = 104 % > no change

DECADAL: YES (8 yr)

Shoot density (shoot m⁻²)



195_density

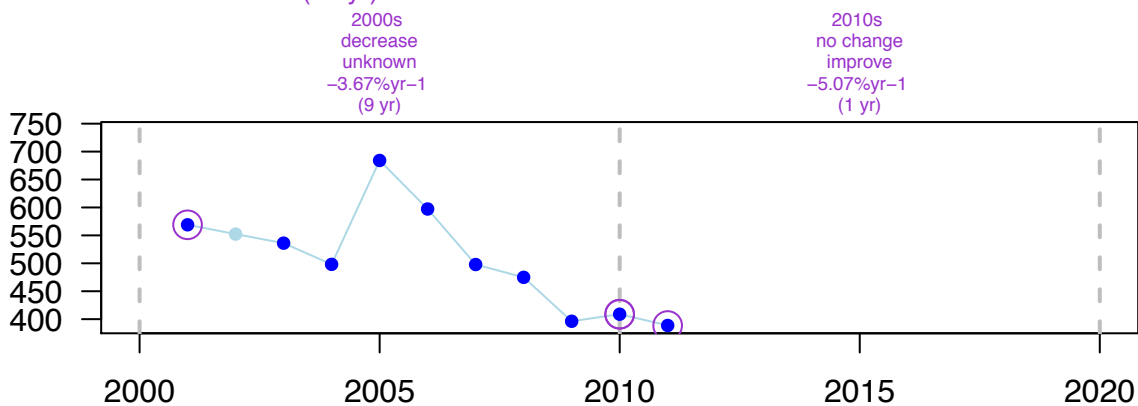
Duarte and Marbà (unpublished)

SITE: Cala Torreta (Spain – Mediterranean) – Po (-7.6 m)

OVERALL: Net = -180.24 shoot m⁻²; Rate = -3.81 % yr⁻¹; Perc Final = 68 % > decrease

DECADAL: YES (10 yr)

Shoot density (shoot m⁻²)



196_density

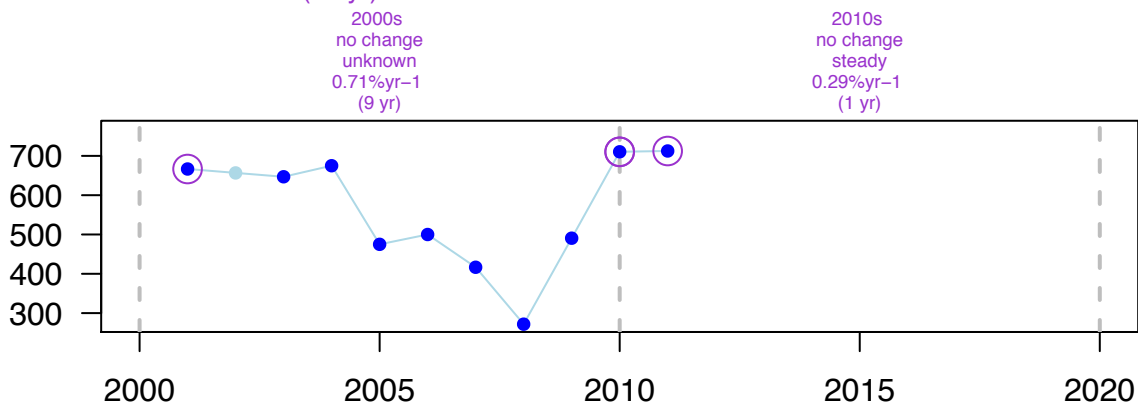
Duarte and Marbà (unpublished)

SITE: Illetes (Spain – Mediterranean) – Po (-5 m)

OVERALL: Net = 45.83 shoot m⁻²; Rate = 0.66 % yr⁻¹; Perc Final = 107 % > no change

DECADAL: YES (10 yr)

Shoot density (shoot m⁻²)



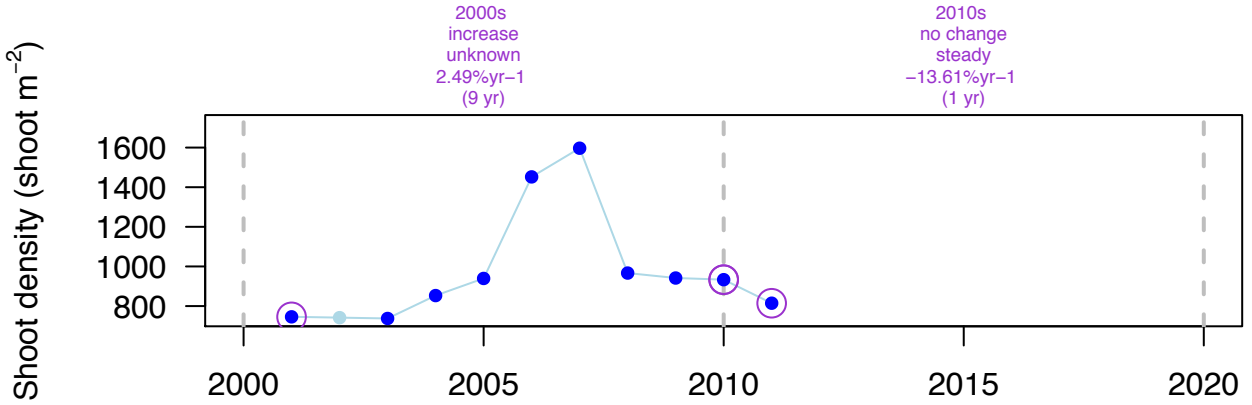
197_density

Duarte and Marbà (unpublished)

SITE: Els Pujols (Spain – Mediterranean) – Po (-4 m)

OVERALL: Net = 68.75 shoot m⁻²; Rate = 0.88 % yr⁻¹; Perc Final = 109 % > no change

DECADAL: YES (10 yr)



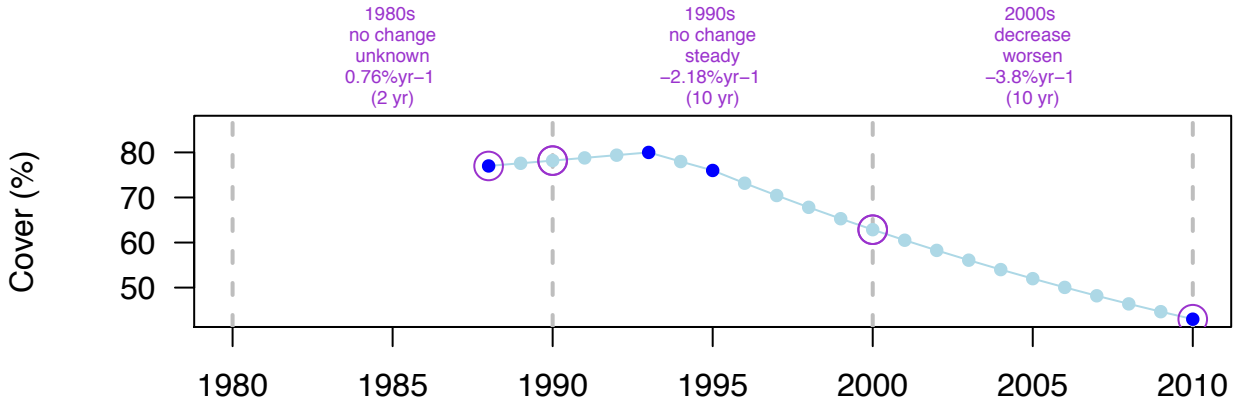
198_cover

González-Correa et al. 2015

SITE: Isla de Tabarca (Spain – Mediterranean) – Po (-4 m)

OVERALL: Net = -34 %; Rate = -2.65 % yr⁻¹; Perc Final = 56 % > decrease

DECADAL: YES (22 yr)



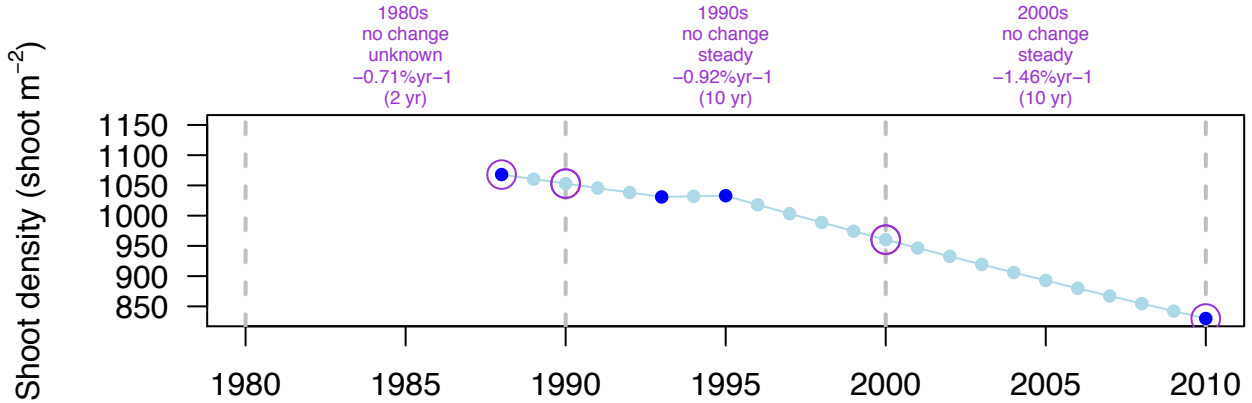
198_density

González-Correa et al. 2015

SITE: Isla de Tabarca (Spain – Mediterranean) – Po (-4 m)

OVERALL: Net = -238 shoot m⁻²; Rate = -1.15 % yr⁻¹; Perc Final = 78 % > no change

DECADAL: YES (22 yr)



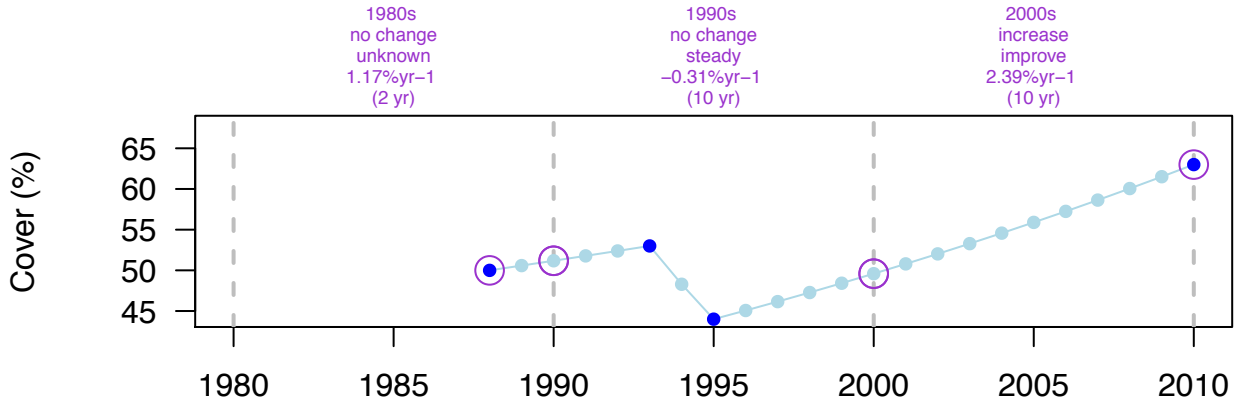
199_cover

González-Correa et al. 2015

SITE: Isla de Tabarca (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = 13 %; Rate = 1.05 % yr⁻¹; Perc Final = 126 % > increase

DECADAL: YES (22 yr)



199_density

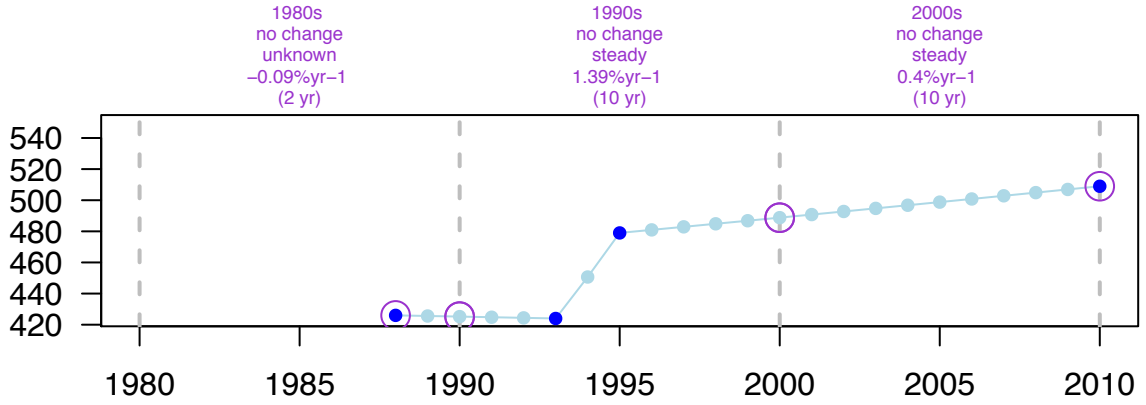
González-Correa et al. 2015

SITE: Isla de Tabarca (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = 83 shoot m⁻²; Rate = 0.81 % yr⁻¹; Perc Final = 119 % > no change

DECADAL: YES (22 yr)

Shoot density (shoot m⁻²)



200_cover

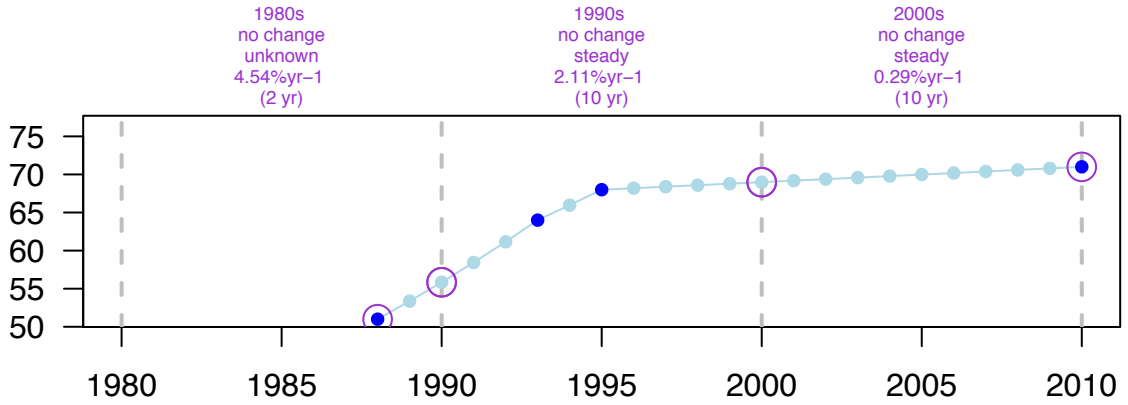
González-Correa et al. 2015

SITE: Isla de Tabarca (Spain – Mediterranean) – Po (-20 m)

OVERALL: Net = 20 %; Rate = 1.5 % yr⁻¹; Perc Final = 139 % > increase

DECADAL: YES (22 yr)

Cover (%)



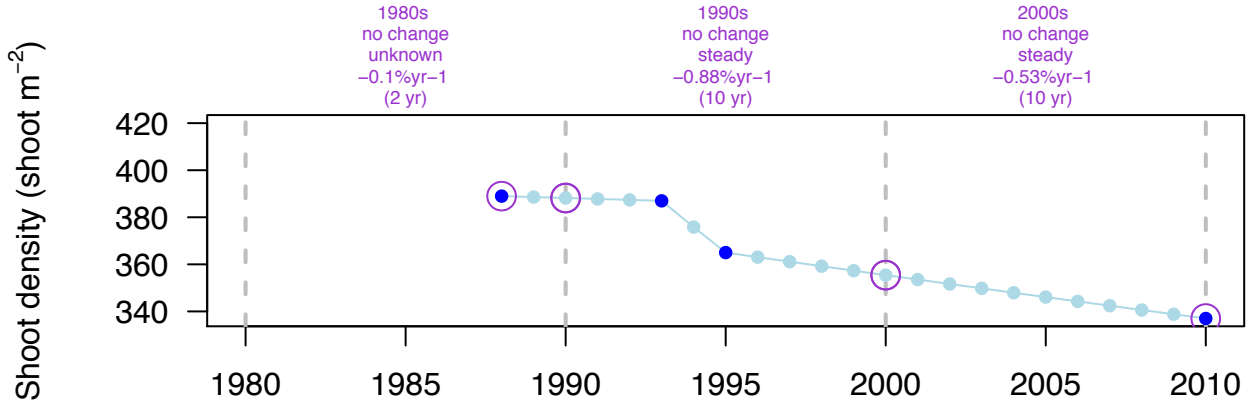
200_density

González-Correa et al. 2015

SITE: Isla de Tabarca (Spain – Mediterranean) – Po (-20 m)

OVERALL: Net = -52 shoot m⁻²; Rate = -0.65 % yr⁻¹; Perc Final = 87 % > no change

DECADAL: YES (22 yr)



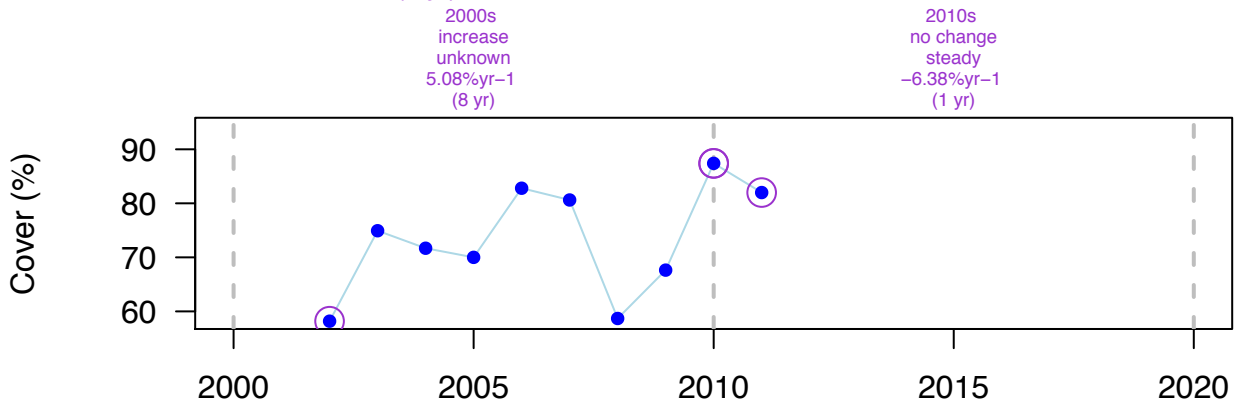
201_cover

Guillén et al. 2013

SITE: Altea (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 23.81 %; Rate = 3.81 % yr⁻¹; Perc Final = 141 % > increase

DECADAL: YES (9 yr)



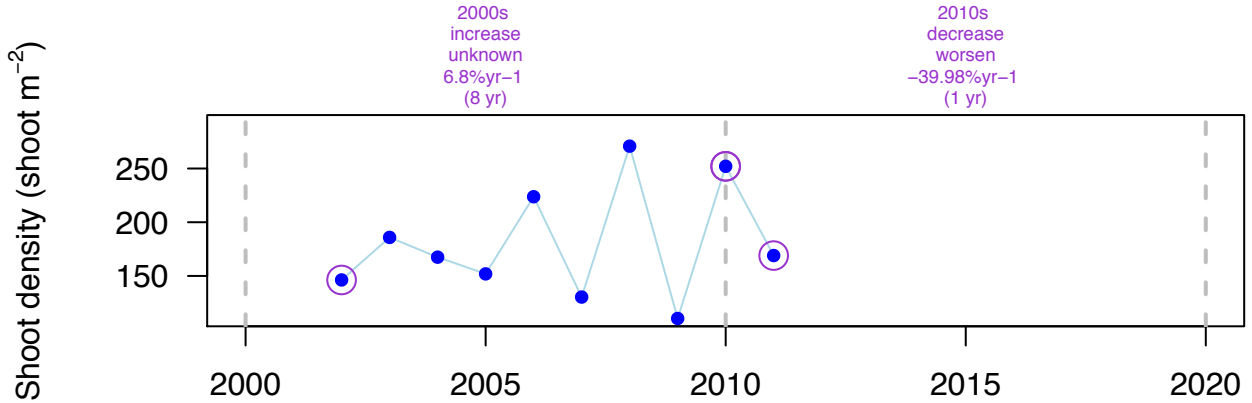
201_density

Guillén et al. 2013

SITE: Altea (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 22.71 shoot m⁻²; Rate = 1.6 % yr⁻¹; Perc Final = 116 % > no change

DECADAL: YES (9 yr)



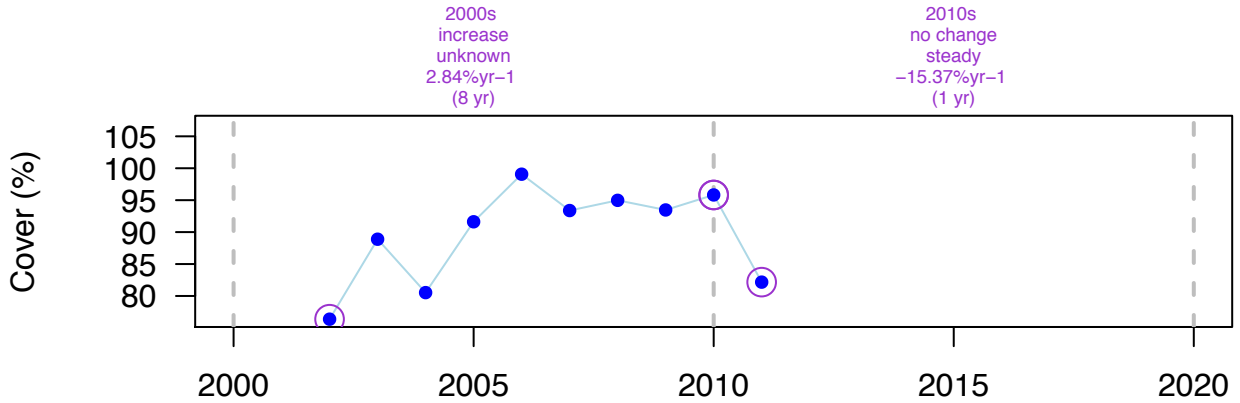
202_cover

Guillén et al. 2013

SITE: Altea (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = 5.8 %; Rate = 0.81 % yr⁻¹; Perc Final = 108 % > no change

DECADAL: YES (9 yr)



202_density

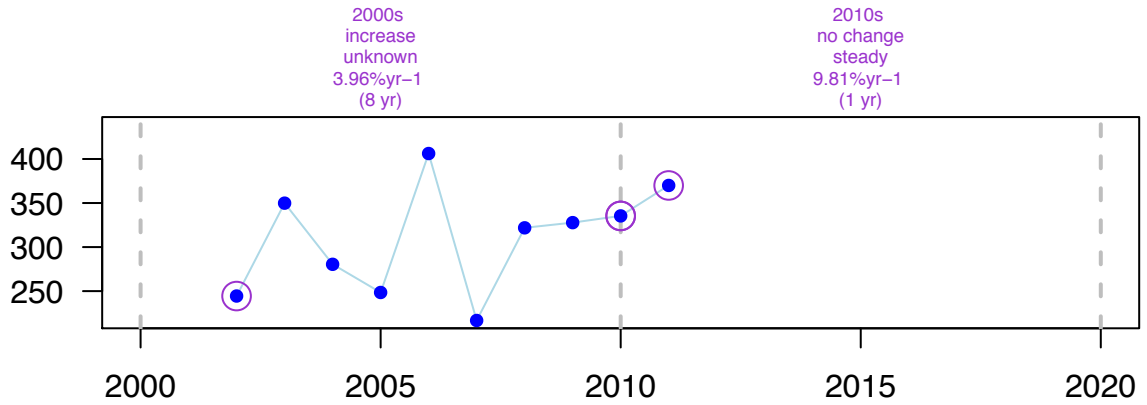
Guillén et al. 2013

SITE: Altea (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = 125.58 shoot m⁻²; Rate = 4.61 % yr⁻¹; Perc Final = 151 % > increase

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



203_cover

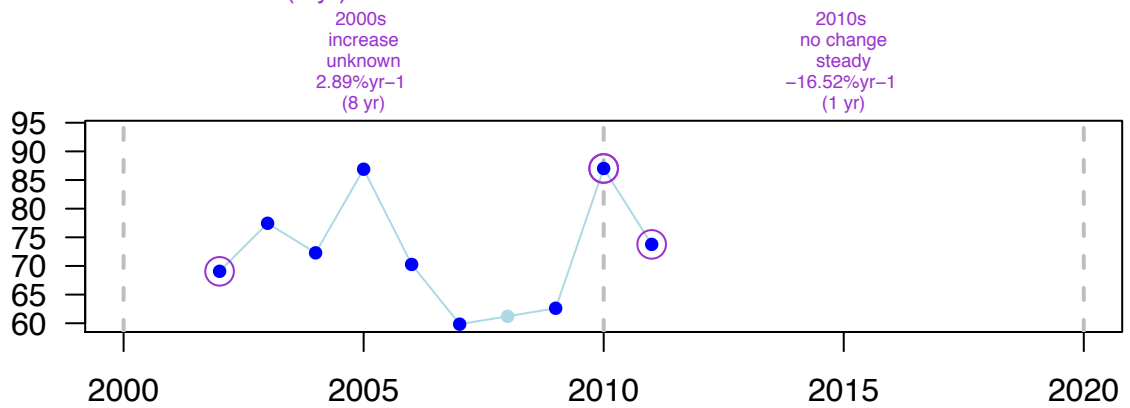
Guillén et al. 2013

SITE: Benidorm (Spain – Mediterranean) – Po (-11 m)

OVERALL: Net = 4.7 %; Rate = 0.73 % yr⁻¹; Perc Final = 107 % > no change

DECADAL: YES (9 yr)

Cover (%)



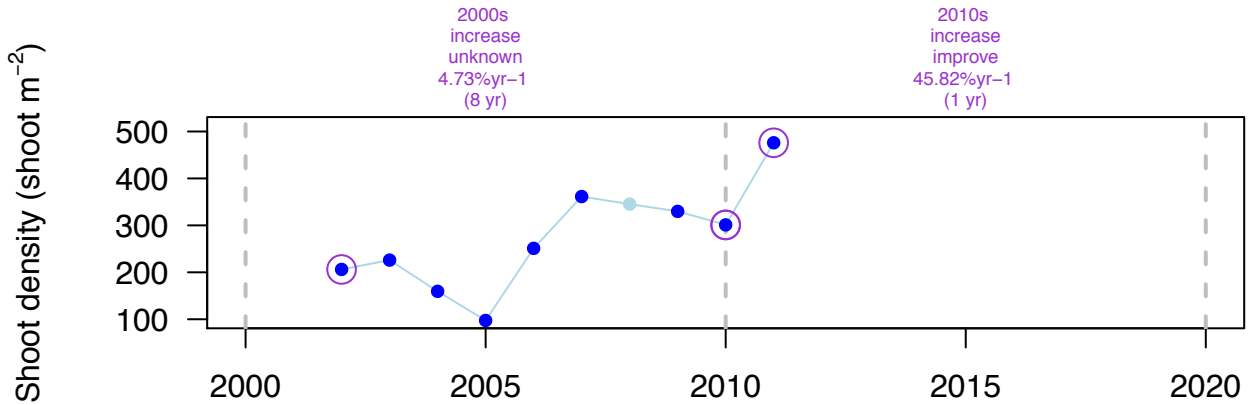
203_density

Guillén et al. 2013

SITE: Benidorm (Spain – Mediterranean) – Po (-11 m)

OVERALL: Net = 269.83 shoot m⁻²; Rate = 9.3 % yr⁻¹; Perc Final = 231 % > increase

DECADAL: YES (9 yr)



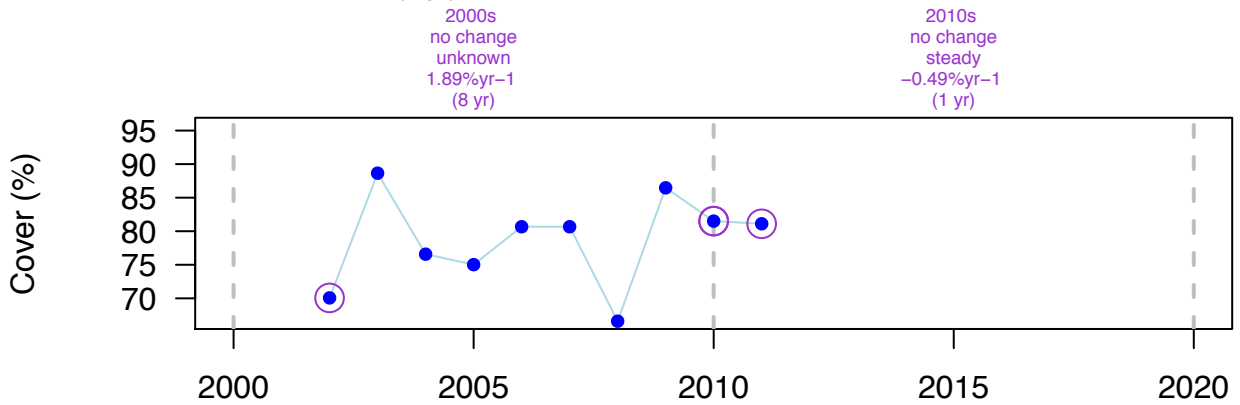
204_cover

Guillén et al. 2013

SITE: Benidorm (Spain – Mediterranean) – Po (-5 m)

OVERALL: Net = 11.04 %; Rate = 1.63 % yr⁻¹; Perc Final = 116 % > no change

DECADAL: YES (9 yr)



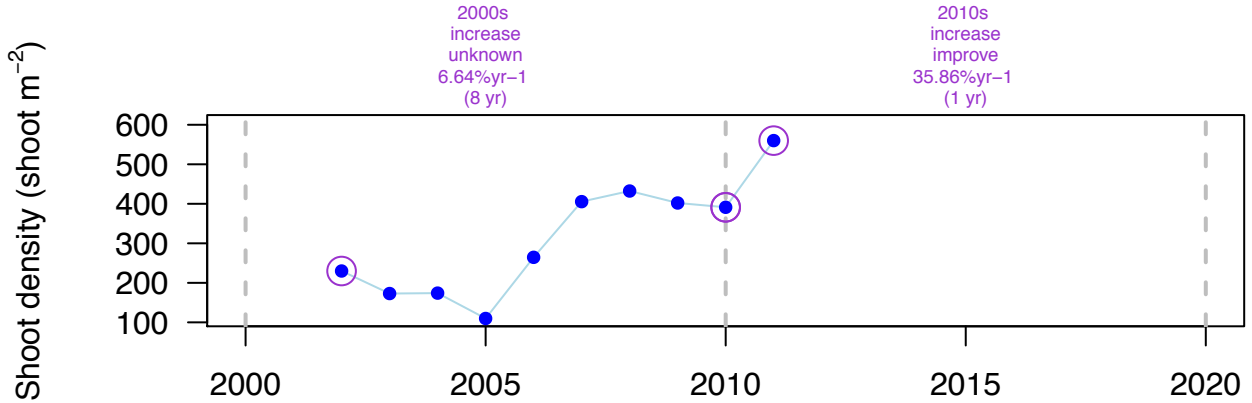
204_density

Guillén et al. 2013

SITE: Benidorm (Spain – Mediterranean) – Po (-5 m)

OVERALL: Net = 330 shoot m⁻²; Rate = 9.89 % yr⁻¹; Perc Final = 243 % > increase

DECADAL: YES (9 yr)



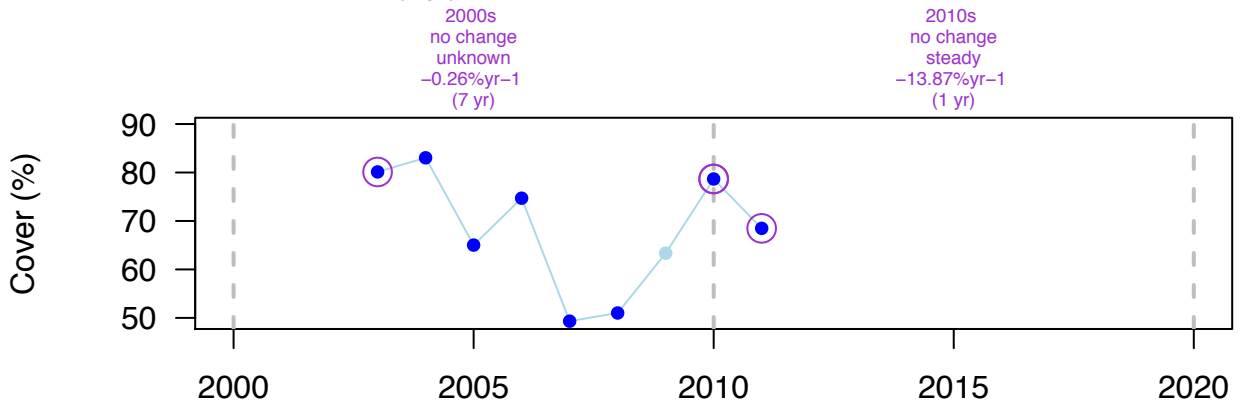
205_cover

Guillén et al. 2013

SITE: Cabo Huertas (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = -11.64 %; Rate = -1.96 % yr⁻¹; Perc Final = 85 % > no change

DECADAL: YES (8 yr)



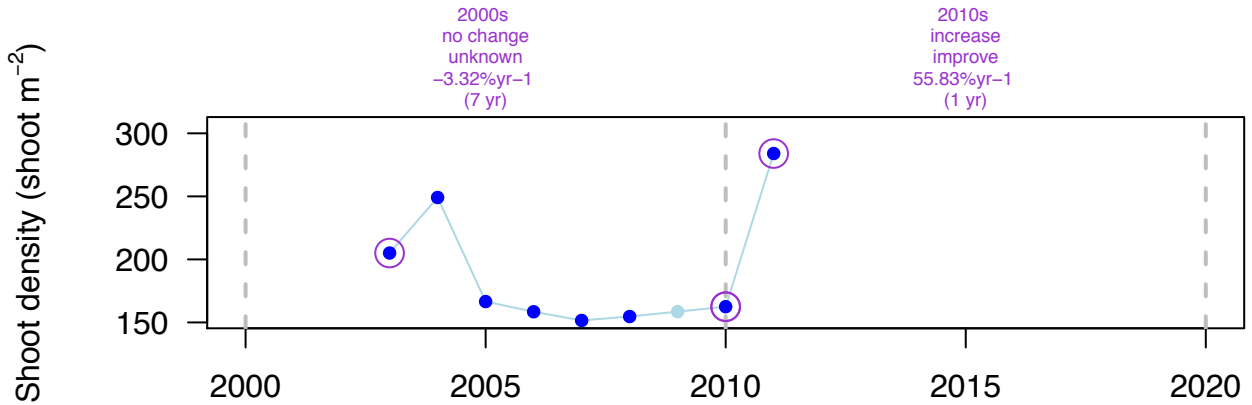
205_density

Guillén et al. 2013

SITE: Cabo Huertas (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = 78.93 shoot m⁻²; Rate = 4.07 % yr⁻¹; Perc Final = 138 % > increase

DECADAL: YES (8 yr)



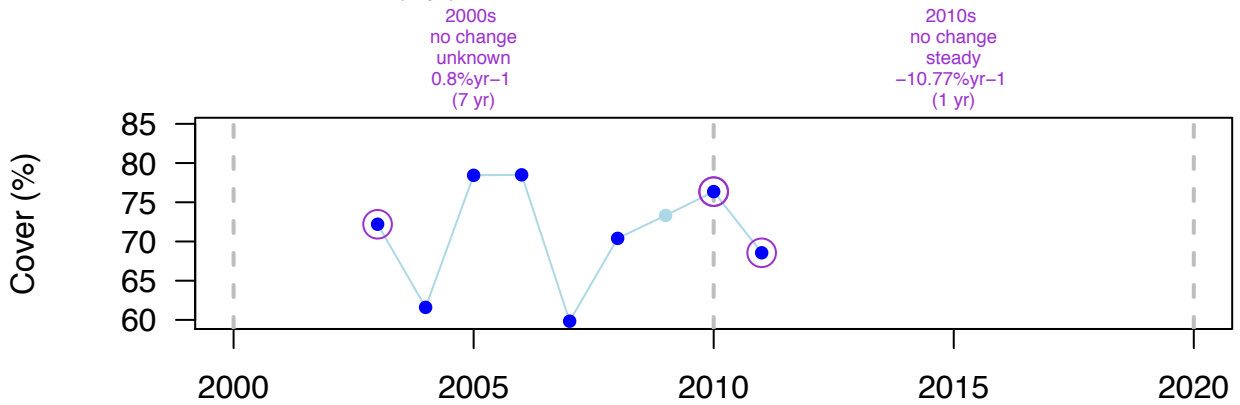
206_cover

Guillén et al. 2013

SITE: Cabo Huertas (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = -3.64 %; Rate = -0.65 % yr⁻¹; Perc Final = 95 % > no change

DECADAL: YES (8 yr)



206_density

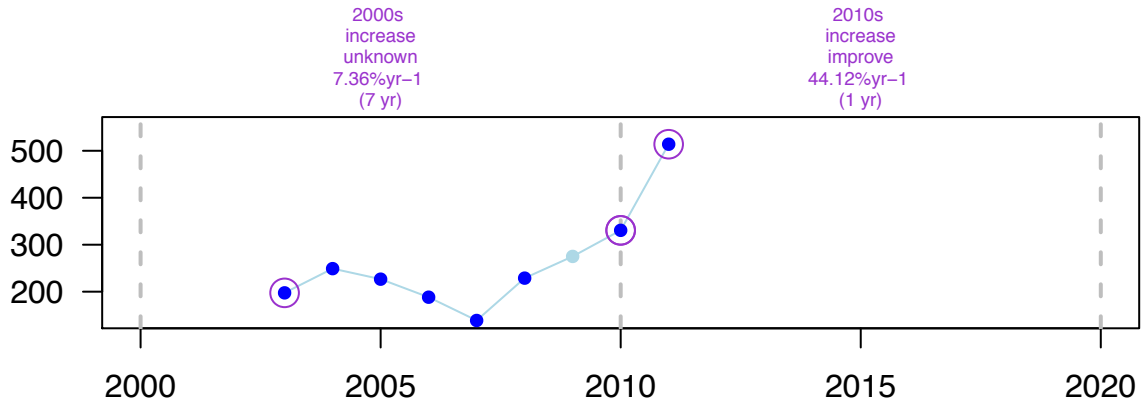
Guillén et al. 2013

SITE: Cabo Huertas (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 316.43 shoot m⁻²; Rate = 11.95 % yr⁻¹; Perc Final = 260 % > increase

DECADAL: YES (8 yr)

Shoot density (shoot m⁻²)



207_cover

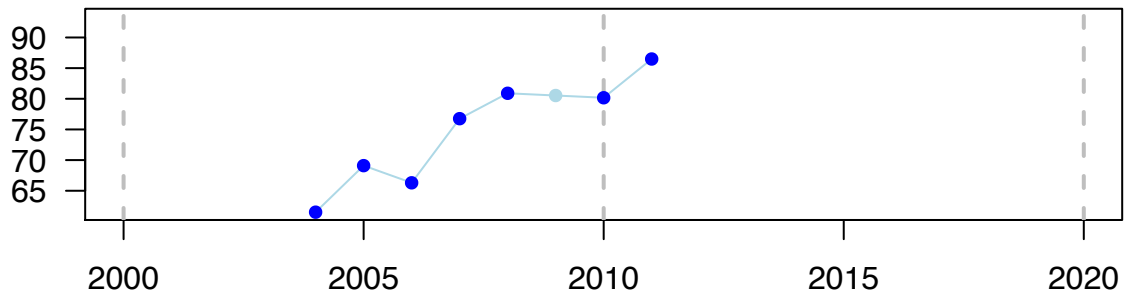
Guillén et al. 2013

SITE: Cala Mina (Spain – Mediterranean) – Po (-10 m)

OVERALL: Net = 24.98 %; Rate = 4.87 % yr⁻¹; Perc Final = 141 % > increase

DECADAL: NO (7 yr)

Cover (%)



207_density

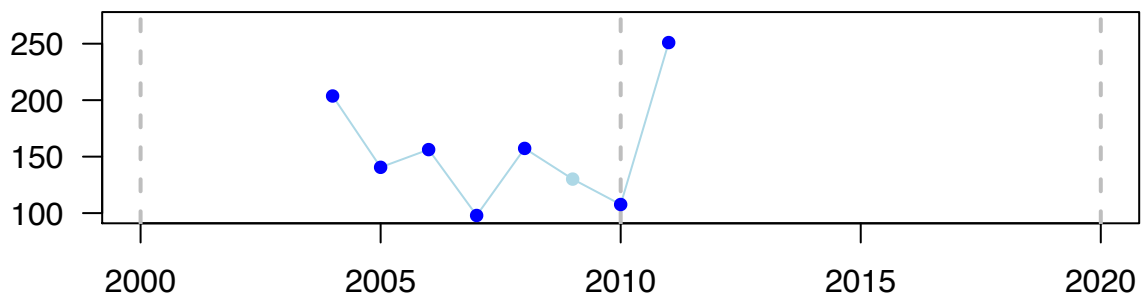
Guillén et al. 2013

SITE: Cala Mina (Spain – Mediterranean) – Po (-10 m)

OVERALL: Net = 47.29 shoot m⁻²; Rate = 2.98 % yr⁻¹; Perc Final = 123 % > no change

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



208_cover

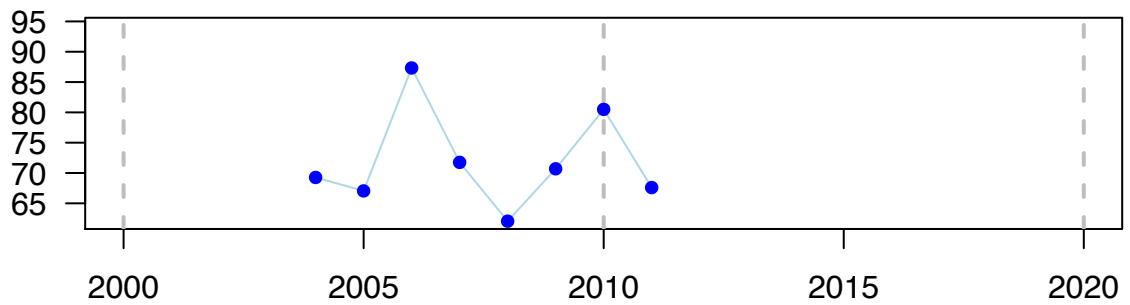
Guillén et al. 2013

SITE: Cala Mina (Spain – Mediterranean) – Po (-5 m)

OVERALL: Net = -1.67 %; Rate = -0.35 % yr⁻¹; Perc Final = 98 % > no change

DECADAL: NO (7 yr)

Cover (%)



208_density

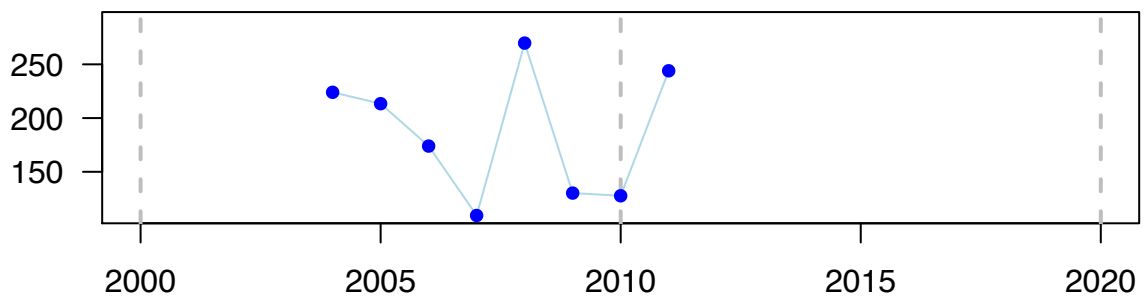
Guillén et al. 2013

SITE: Cala Mina (Spain – Mediterranean) – Po (-5 m)

OVERALL: Net = 20 shoot m⁻²; Rate = 1.22 % yr⁻¹; Perc Final = 109 % > no change

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



209_cover

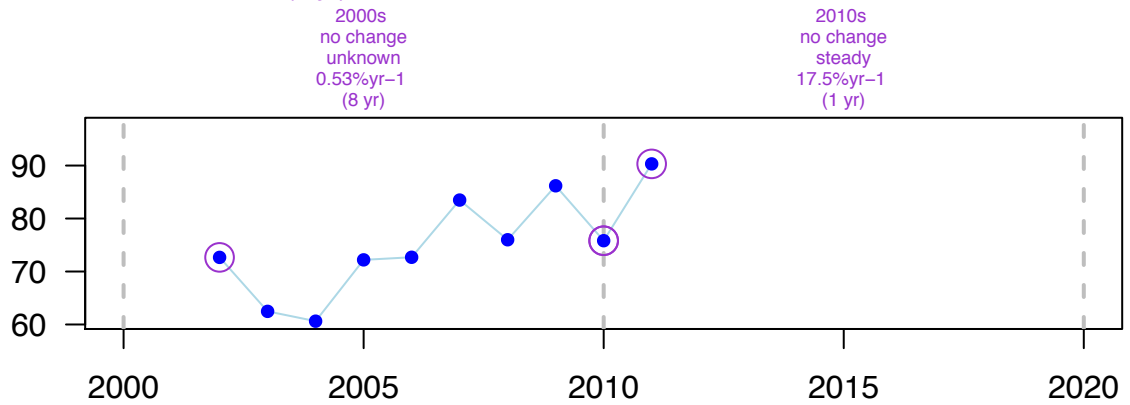
Guillén et al. 2013

SITE: Calpe (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = 17.65 %; Rate = 2.42 % yr⁻¹; Perc Final = 124 % > no change

DECADAL: YES (9 yr)

Cover (%)



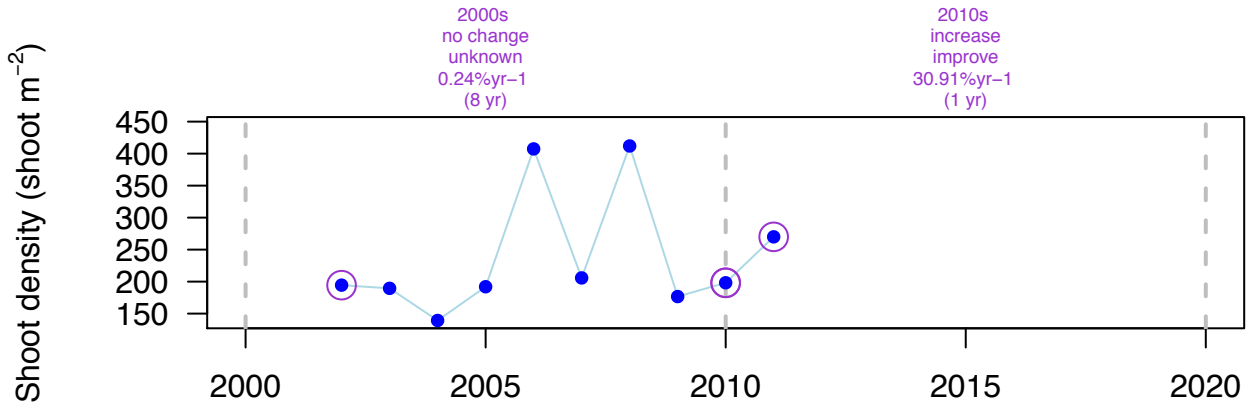
209_density

Guillén et al. 2013

SITE: Calpe (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = 75.5 shoot m⁻²; Rate = 3.64 % yr⁻¹; Perc Final = 139 % > increase

DECADAL: YES (9 yr)



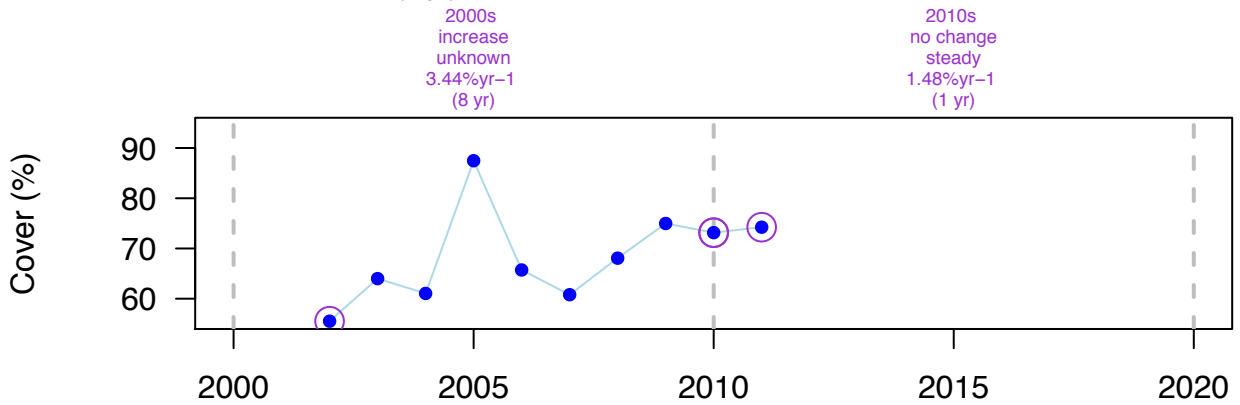
210_cover

Guillén et al. 2013

SITE: Calpe (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 18.71 %; Rate = 3.23 % yr⁻¹; Perc Final = 134 % > increase

DECADAL: YES (9 yr)



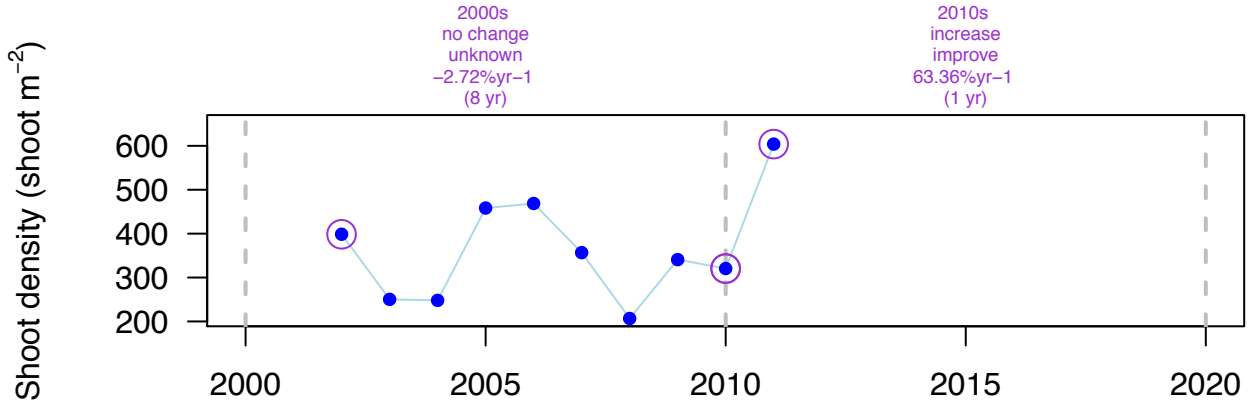
210_density

Guillén et al. 2013

SITE: Calpe (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 205.4 shoot m⁻²; Rate = 4.62 % yr⁻¹; Perc Final = 152 % > increase

DECADAL: YES (9 yr)



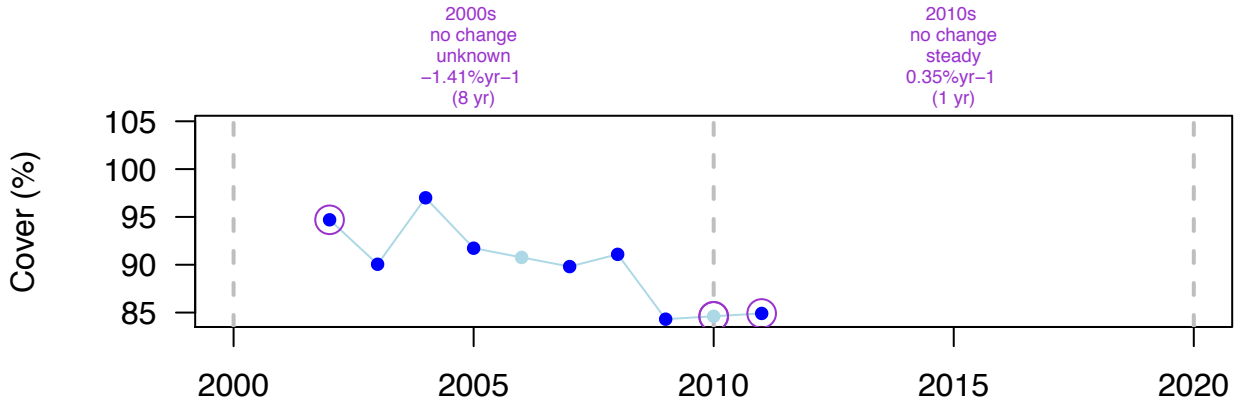
211_cover

Guillén et al. 2013

SITE: El Campello (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = -9.79 %; Rate = -1.21 % yr⁻¹; Perc Final = 90 % > no change

DECADAL: YES (9 yr)



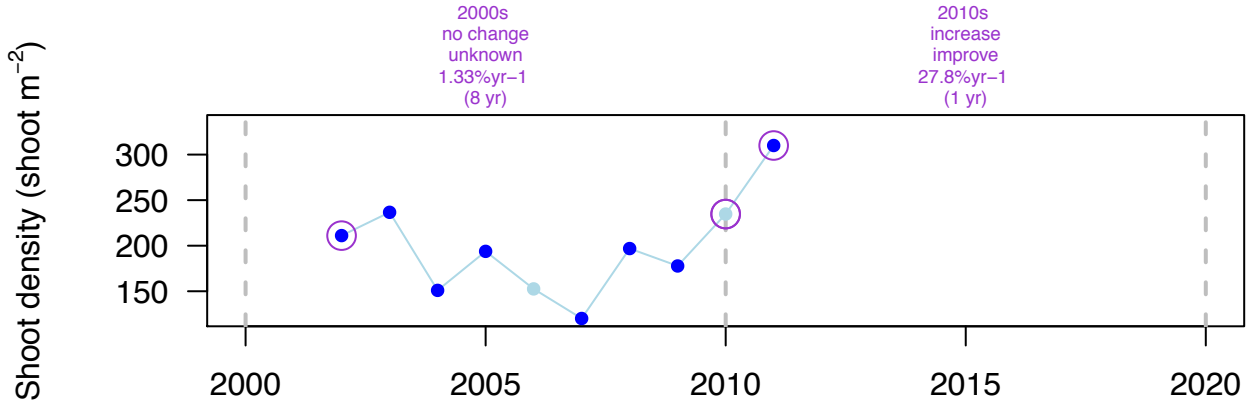
211_density

Guillén et al. 2013

SITE: El Campello (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = 98.9 shoot m⁻²; Rate = 4.27 % yr⁻¹; Perc Final = 147 % > increase

DECADAL: YES (9 yr)



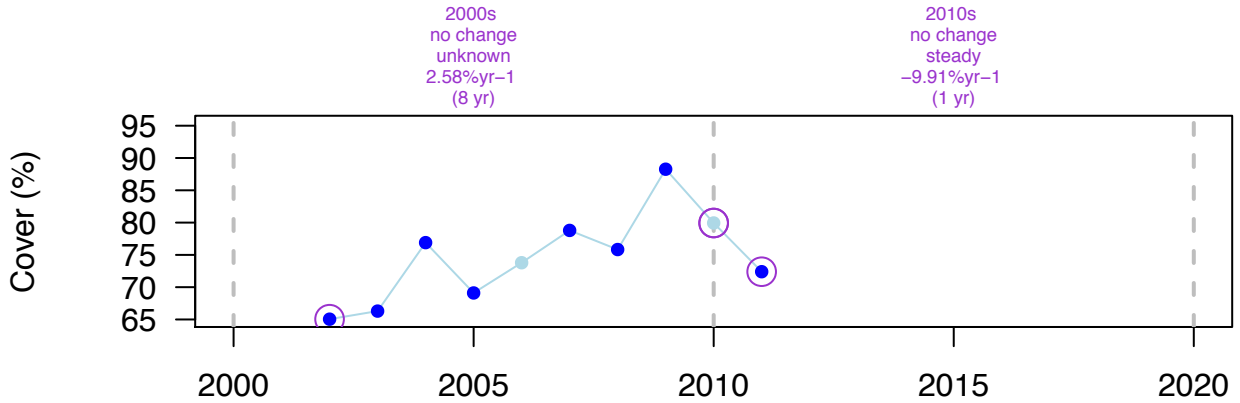
212_cover

Guillén et al. 2013

SITE: El Campello (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = 7.35 %; Rate = 1.19 % yr⁻¹; Perc Final = 111 % > no change

DECADAL: YES (9 yr)



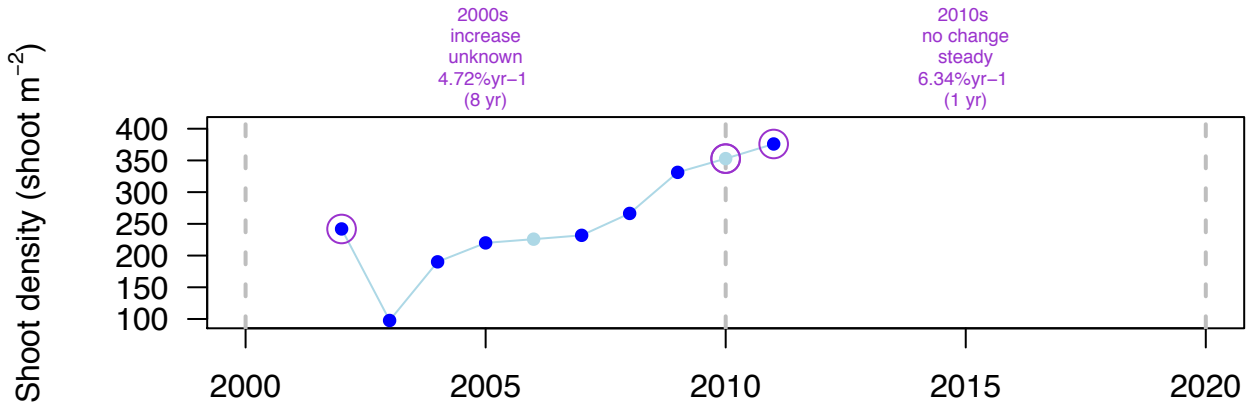
212_density

Guillén et al. 2013

SITE: El Campello (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = 134 shoot m⁻²; Rate = 4.9 % yr⁻¹; Perc Final = 155 % > increase

DECADAL: YES (9 yr)



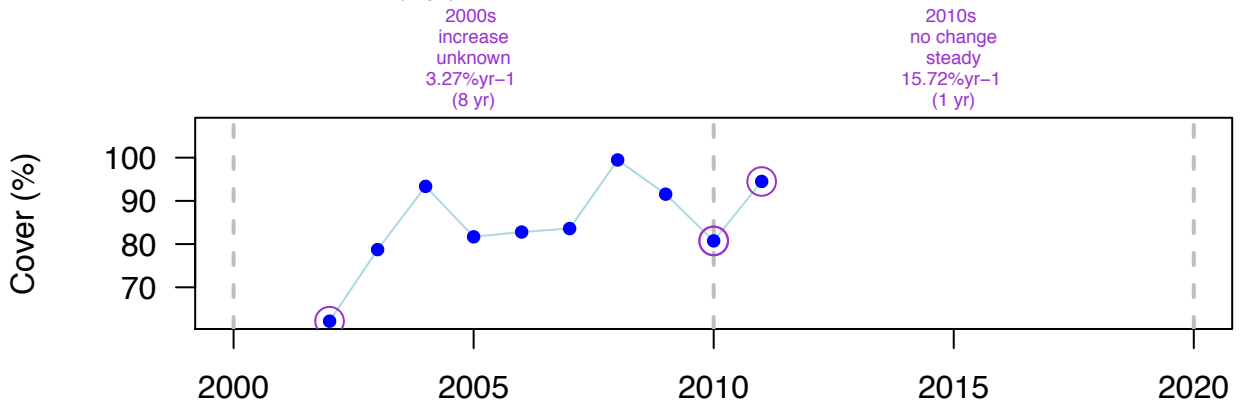
213_cover

Guillén et al. 2013

SITE: Carabassí (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = 32.33 %; Rate = 4.65 % yr⁻¹; Perc Final = 152 % > increase

DECADAL: YES (9 yr)



213_density

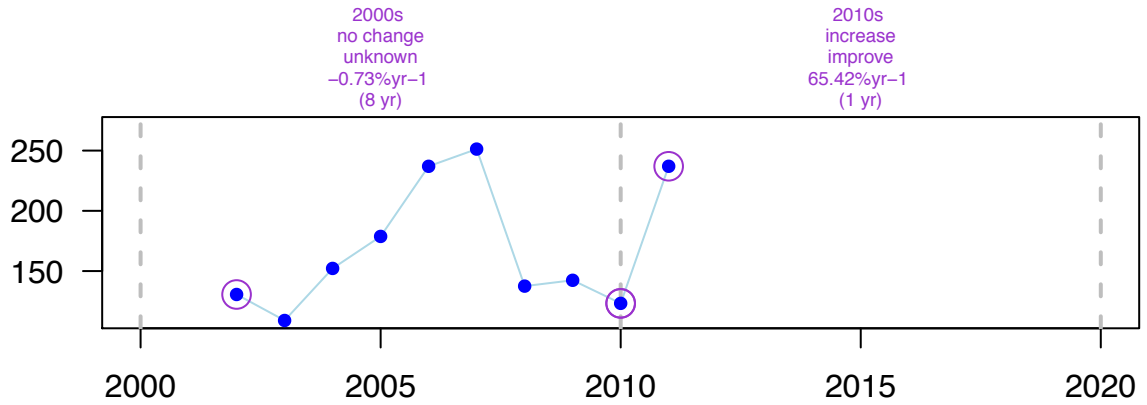
Guillén et al. 2013

SITE: Carabassí (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = 106.42 shoot m⁻²; Rate = 6.62 % yr⁻¹; Perc Final = 181 % > increase

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



214_cover

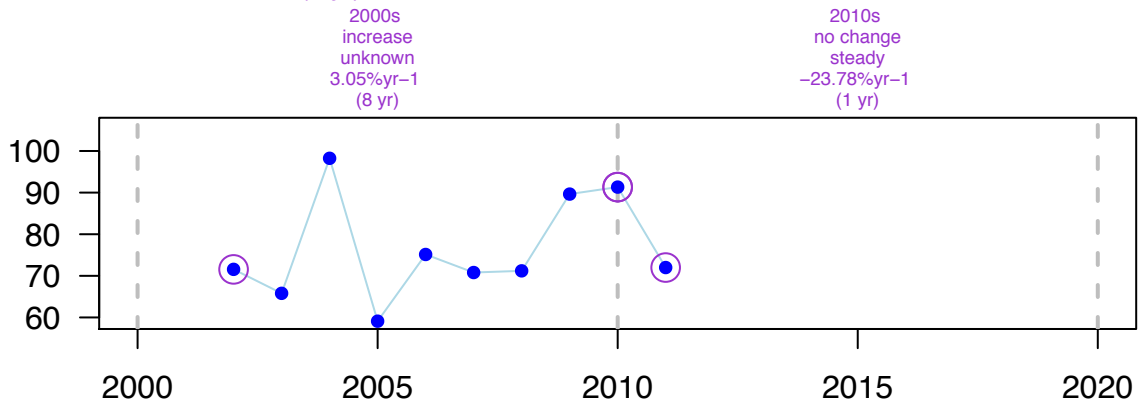
Guillén et al. 2013

SITE: Carabassí (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 0.44 %; Rate = 0.07 % yr⁻¹; Perc Final = 101 % > no change

DECADAL: YES (9 yr)

Cover (%)



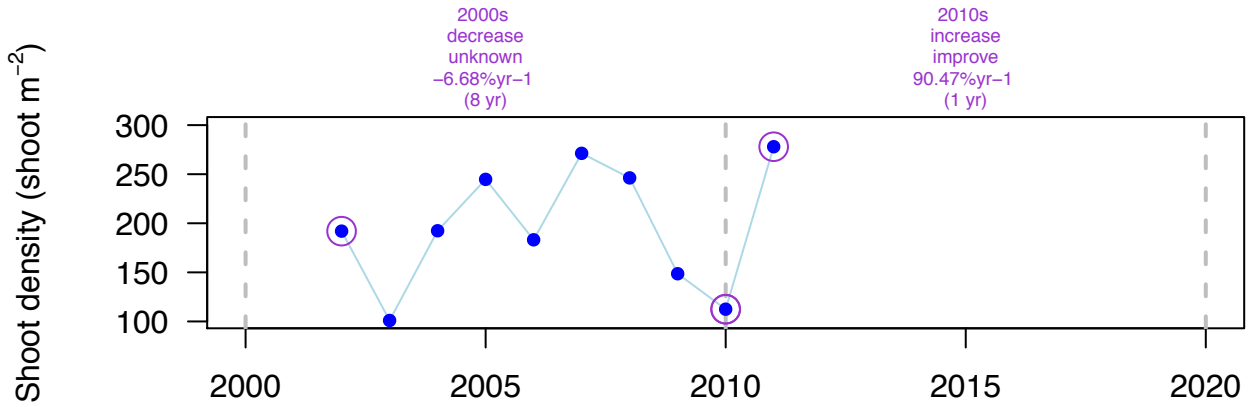
214_density

Guillén et al. 2013

SITE: Carabassí (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 86 shoot m⁻²; Rate = 4.11 % yr⁻¹; Perc Final = 145 % > increase

DECADAL: YES (9 yr)



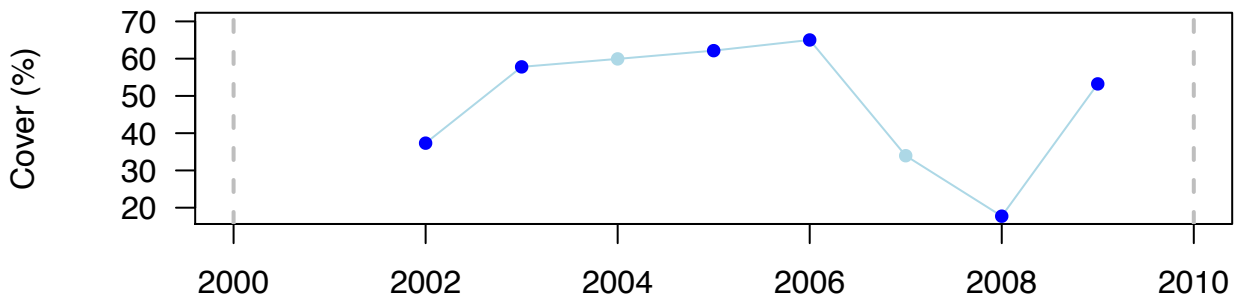
215_cover

Guillén et al. 2013

SITE: Denia (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = 15.9 %; Rate = 5.07 % yr⁻¹; Perc Final = 143 % > increase

DECADAL: NO (7 yr)



215_density

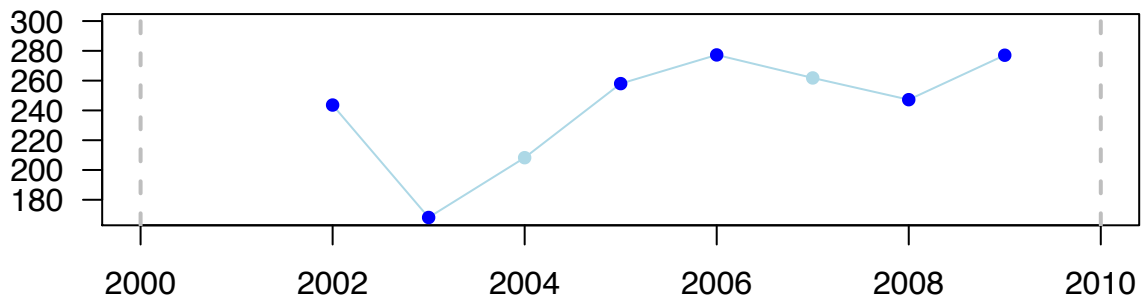
Guillén et al. 2013

SITE: Denia (Spain – Mediterranean) – Po (-13 m)

OVERALL: Net = 33.46 shoot m⁻²; Rate = 1.84 % yr⁻¹; Perc Final = 114 % > no change

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



216_cover

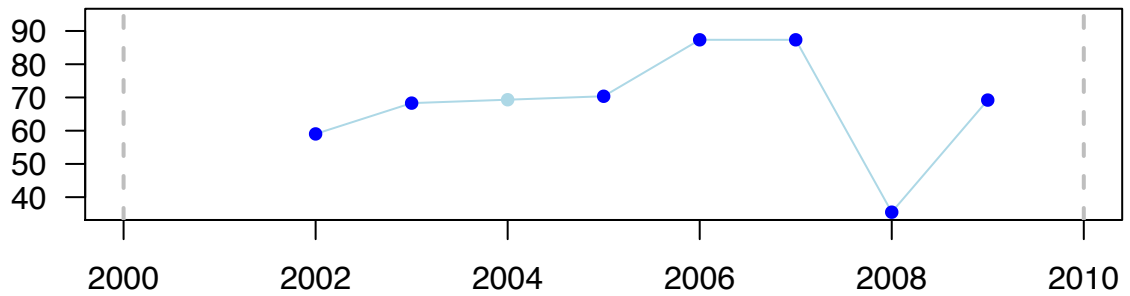
Guillén et al. 2013

SITE: Denia (Spain – Mediterranean) – Po (-5 m)

OVERALL: Net = 10.19 %; Rate = 2.27 % yr⁻¹; Perc Final = 117 % > no change

DECADAL: NO (7 yr)

Cover (%)



216_density

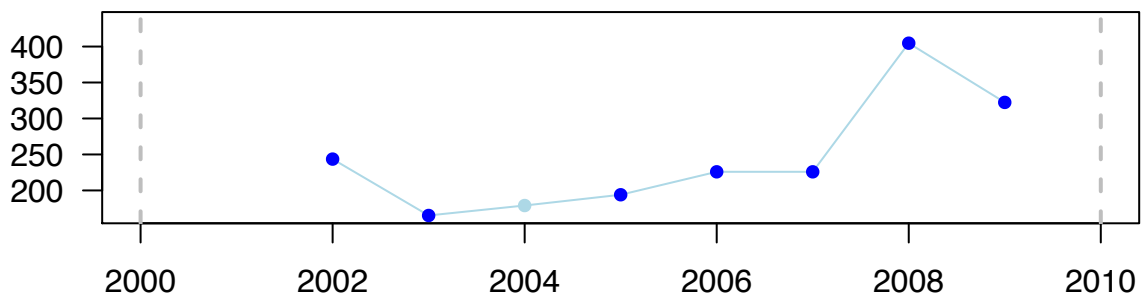
Guillén et al. 2013

SITE: Denia (Spain – Mediterranean) – Po (-5 m)

OVERALL: Net = 78.84 shoot m⁻²; Rate = 4.01 % yr⁻¹; Perc Final = 132 % > increase

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



217_cover

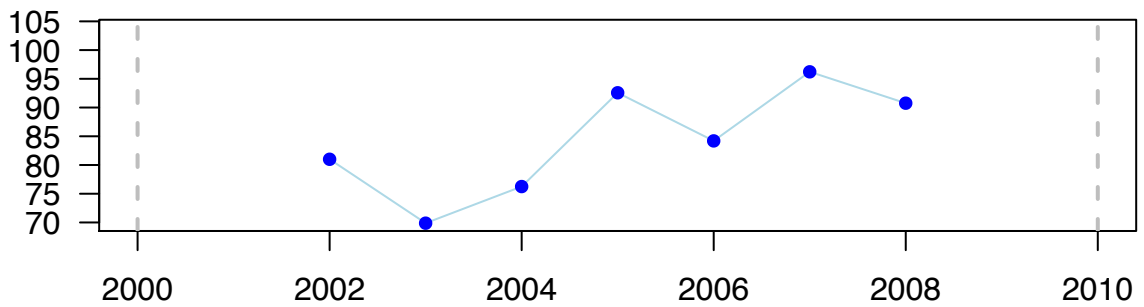
Guillén et al. 2013

SITE: Moraira (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = 9.76 %; Rate = 1.9 % yr⁻¹; Perc Final = 112 % > no change

DECADAL: NO (6 yr)

Cover (%)



217_density

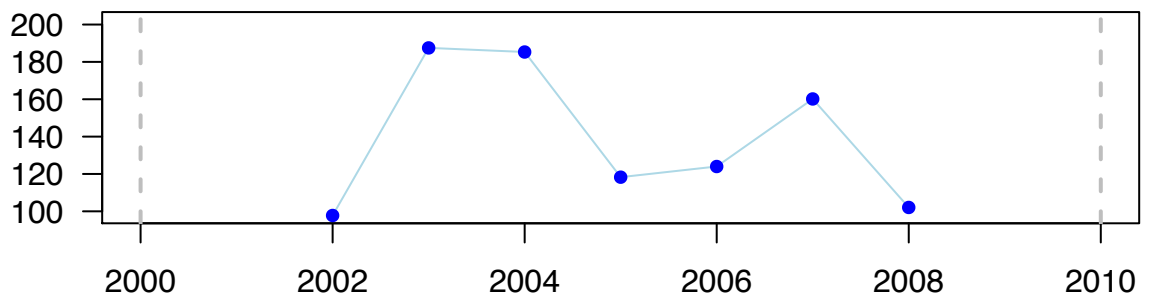
Guillén et al. 2013

SITE: Moraira (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = 4.3 shoot m⁻²; Rate = 0.72 % yr⁻¹; Perc Final = 104 % > no change

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



218_cover

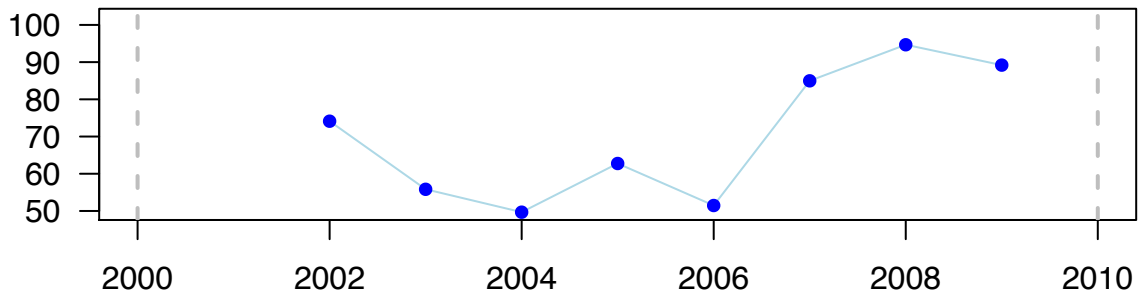
Guillén et al. 2013

SITE: Moraira (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = 15.07 %; Rate = 2.64 % yr⁻¹; Perc Final = 120 % > no change

DECADAL: NO (7 yr)

Cover (%)



218_density

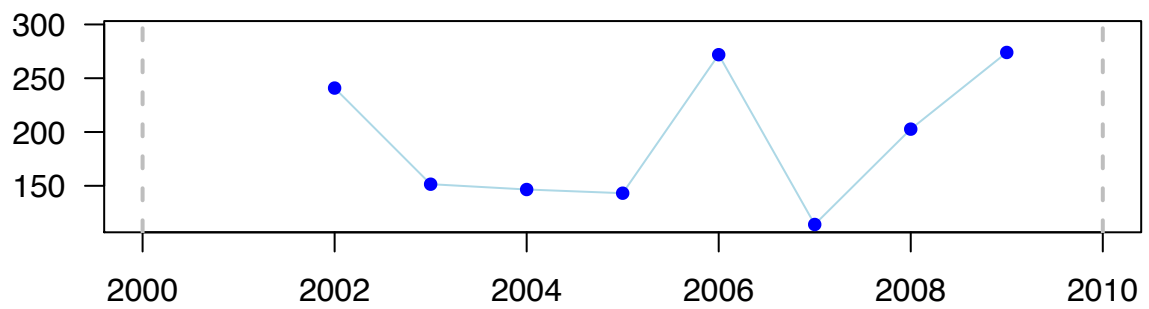
Guillén et al. 2013

SITE: Moraira (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = 33.1 shoot m⁻²; Rate = 1.84 % yr⁻¹; Perc Final = 114 % > no change

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



219_cover

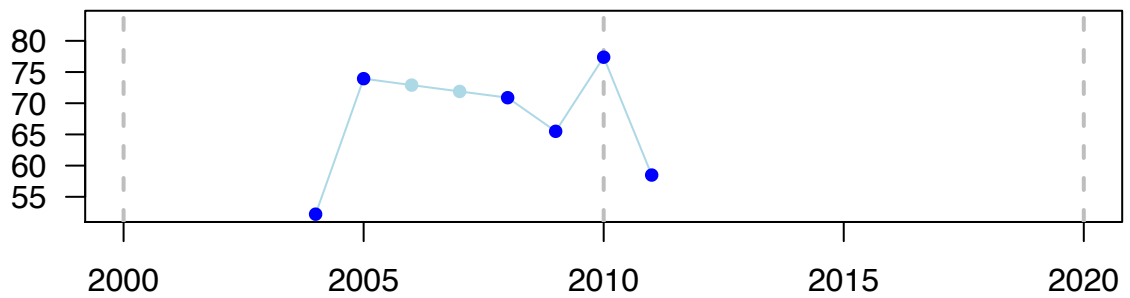
Guillén et al. 2013

SITE: Racó Conill (Spain – Mediterranean) – Po (-10 m)

OVERALL: Net = 6.27 %; Rate = 1.62 % yr⁻¹; Perc Final = 112 % > no change

DECADAL: NO (7 yr)

Cover (%)



219_density

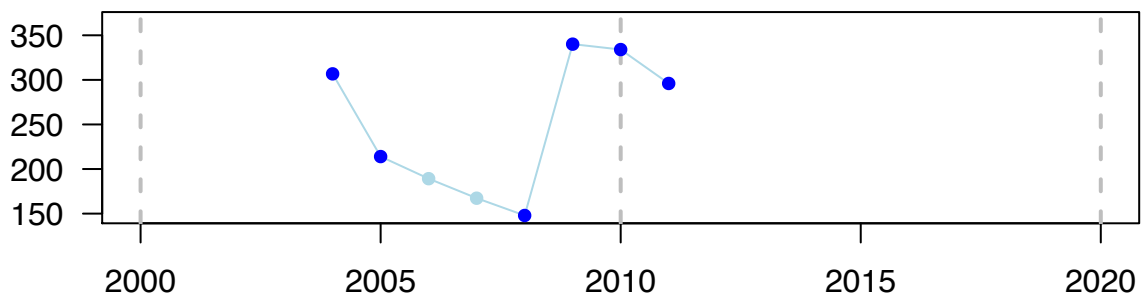
Guillén et al. 2013

SITE: Racó Conill (Spain – Mediterranean) – Po (-10 m)

OVERALL: Net = -10.78 shoot m⁻²; Rate = -0.51 % yr⁻¹; Perc Final = 96 % > no change

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



220_cover

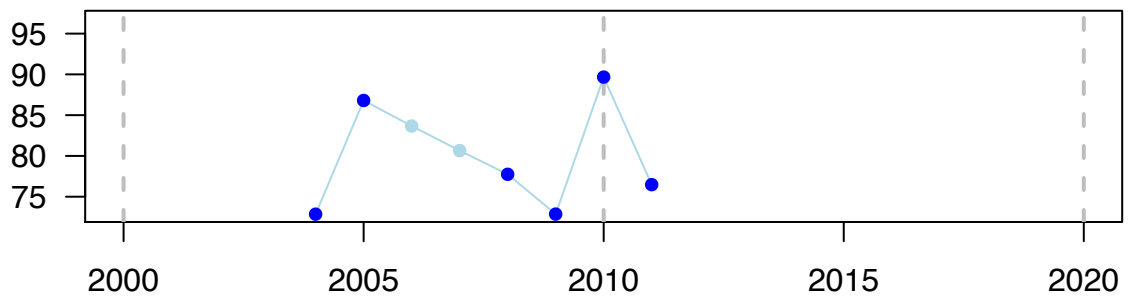
Guillén et al. 2013

SITE: Racó Conill (Spain – Mediterranean) – Po (-5 m)

OVERALL: Net = 3.62 %; Rate = 0.69 % yr⁻¹; Perc Final = 105 % > no change

DECADAL: NO (7 yr)

Cover (%)



220_density

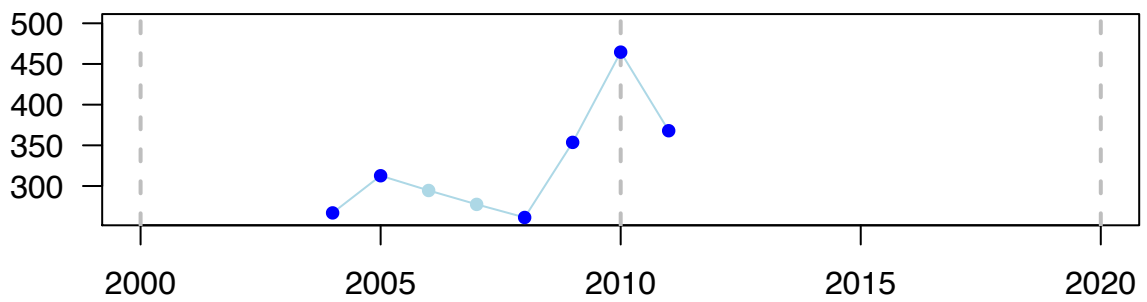
Guillén et al. 2013

SITE: Racó Conill (Spain – Mediterranean) – Po (-5 m)

OVERALL: Net = 101 shoot m⁻²; Rate = 4.58 % yr⁻¹; Perc Final = 138 % > increase

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



221_cover

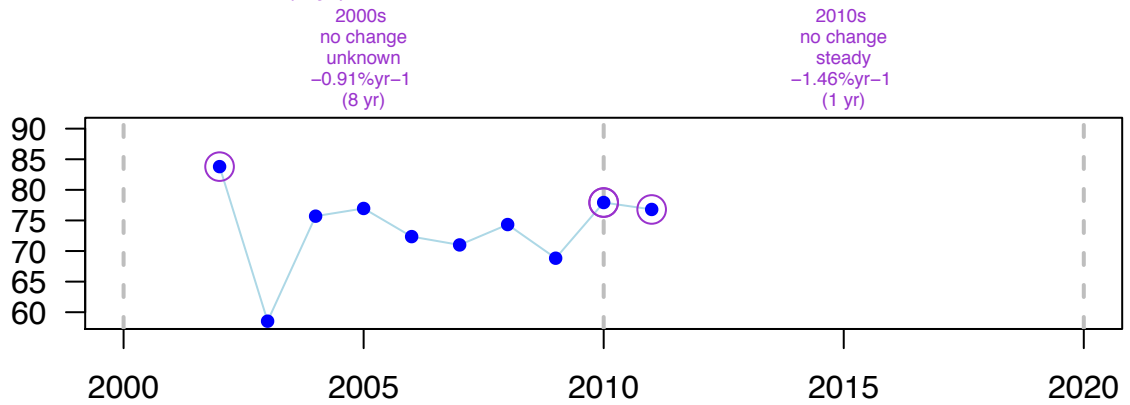
Guillén et al. 2013

SITE: Tabarca Escull Negre (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = -7 %; Rate = -0.97 % yr⁻¹; Perc Final = 92 % > no change

DECADAL: YES (9 yr)

Cover (%)



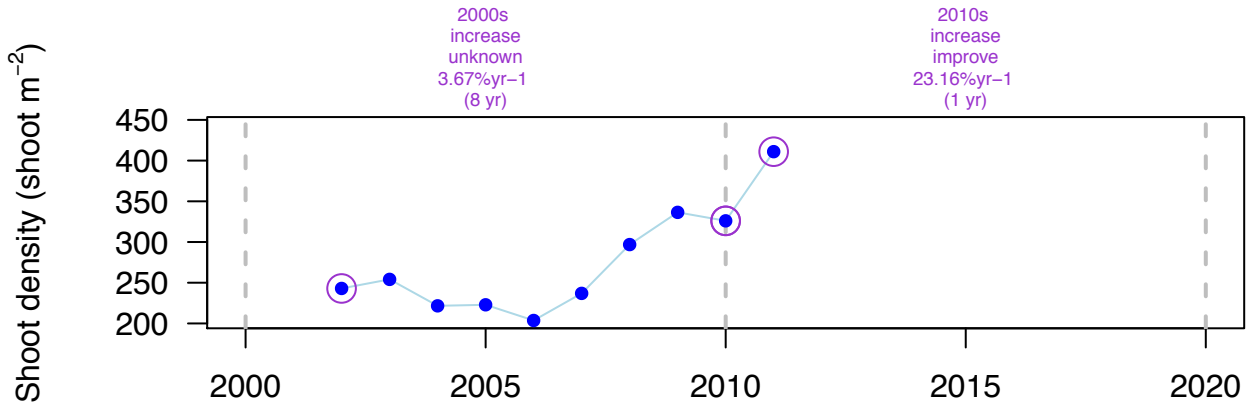
221_density

Guillén et al. 2013

SITE: Tabarca Escull Negre (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = 168 shoot m⁻²; Rate = 5.84 % yr⁻¹; Perc Final = 169 % > increase

DECADAL: YES (9 yr)



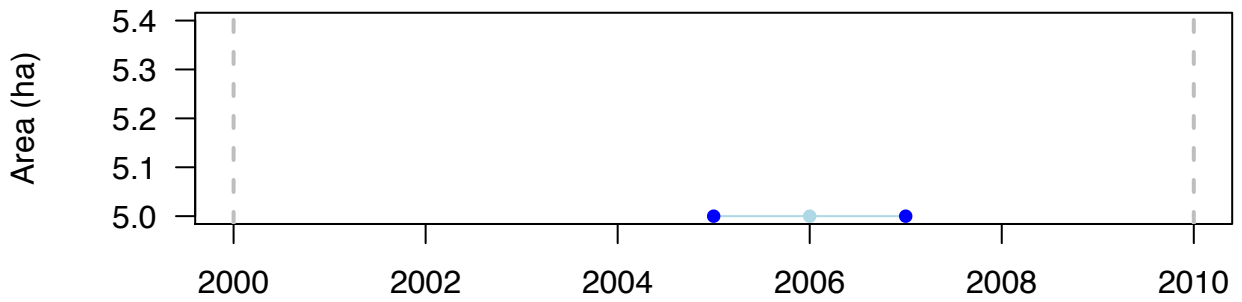
222_area

Plus et al. 2010

SITE: Arguin Bank (France – Atlantic) – Zn (0 m)

OVERALL: Net = 0 ha; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (2 yr)



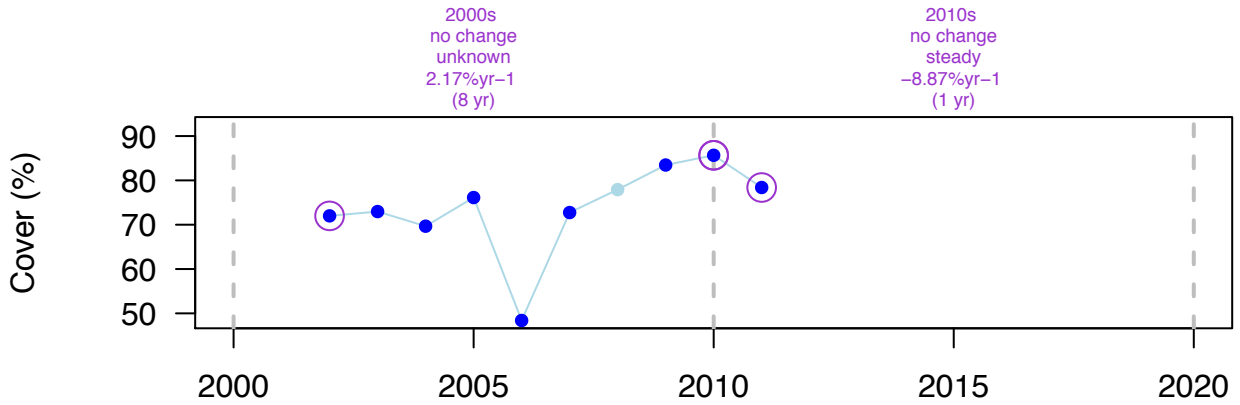
223_cover

Guillén et al. 2013

SITE: Tabarca Escull Negre (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 6.4 %; Rate = 0.95 % yr⁻¹; Perc Final = 109 % > no change

DECADAL: YES (9 yr)



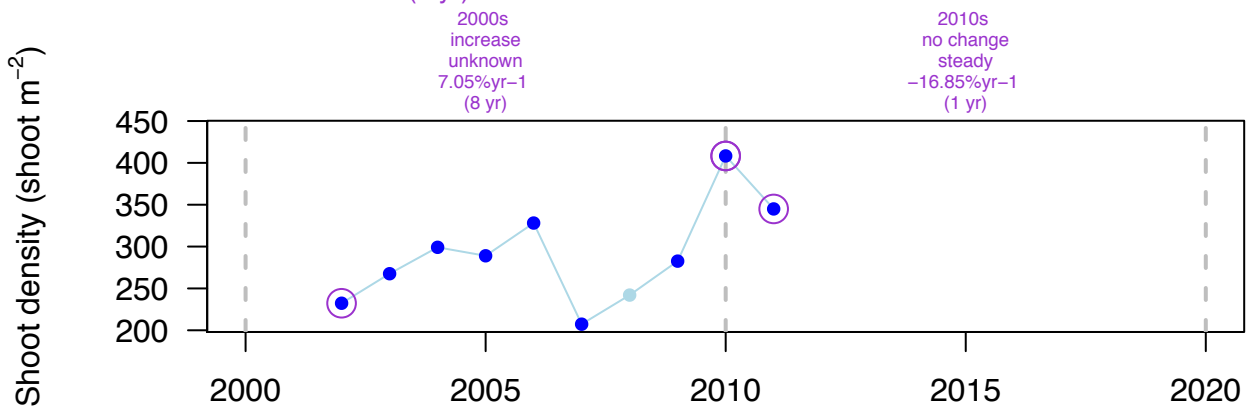
223_density

Guillén et al. 2013

SITE: Tabarca Escull Negre (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 112.67 shoot m⁻²; Rate = 4.39 % yr⁻¹; Perc Final = 148 % > increase

DECADAL: YES (9 yr)



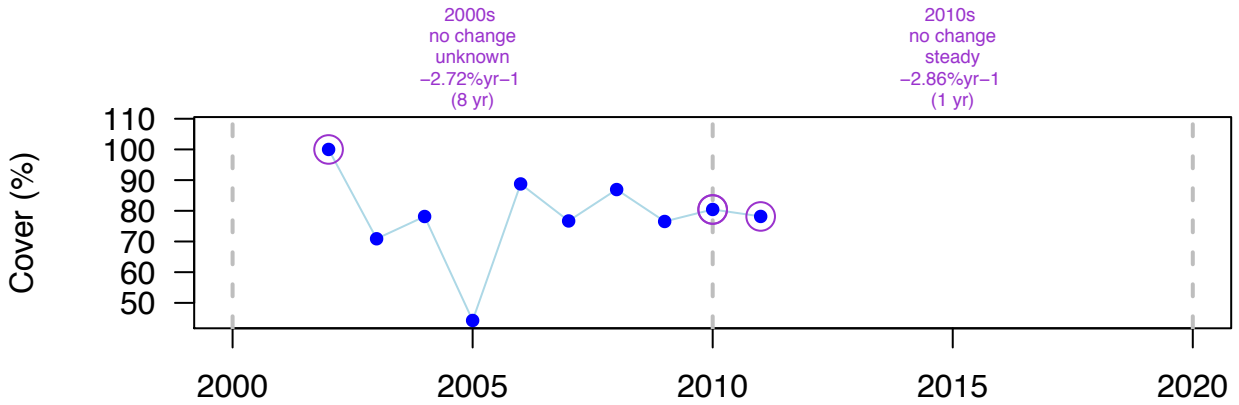
224_cover

Guillén et al. 2013

SITE: Tabarca La Nao (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = -21.83 %; Rate = -2.74 % yr⁻¹; Perc Final = 78 % > no change

DECADAL: YES (9 yr)



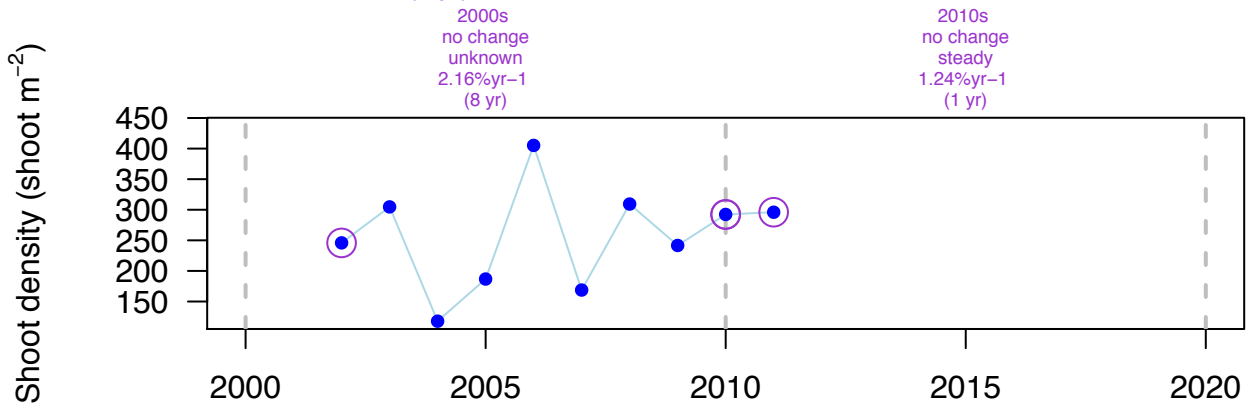
224_density

Guillén et al. 2013

SITE: Tabarca La Nao (Spain – Mediterranean) – Po (-12 m)

OVERALL: Net = 50.12 shoot m⁻²; Rate = 2.06 % yr⁻¹; Perc Final = 120 % > no change

DECADAL: YES (9 yr)



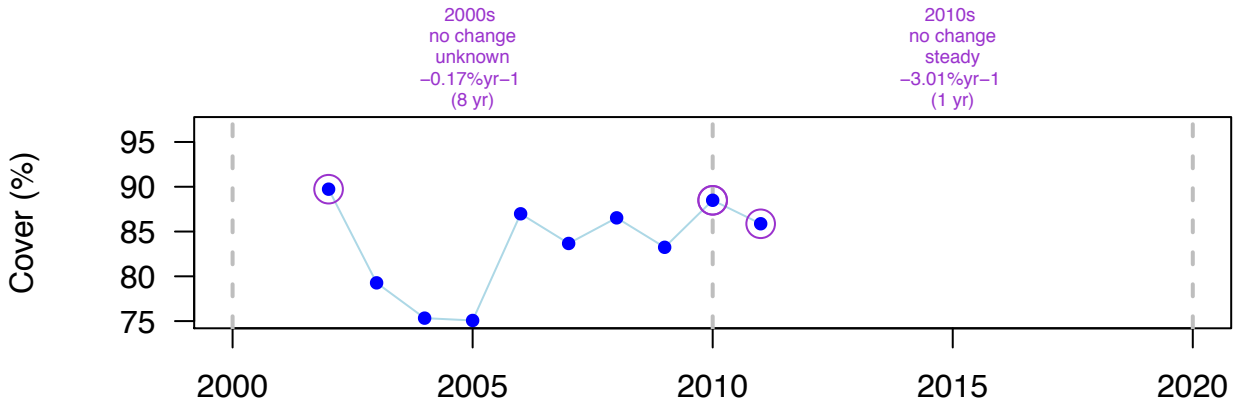
225_cover

Guillén et al. 2013

SITE: Tabarca La Nao (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = -3.86 %; Rate = -0.49 % yr⁻¹; Perc Final = 96 % > no change

DECADAL: YES (9 yr)



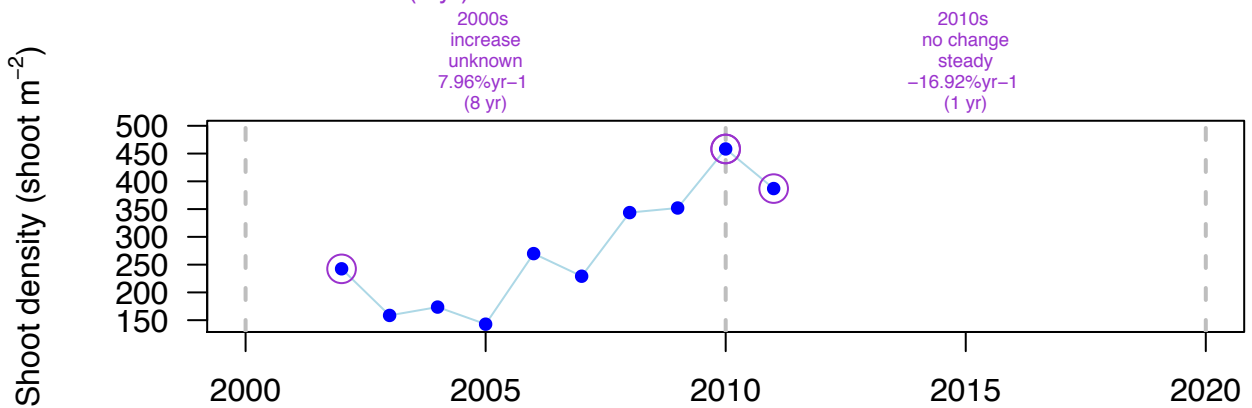
225_density

Guillén et al. 2013

SITE: Tabarca La Nao (Spain – Mediterranean) – Po (-6 m)

OVERALL: Net = 144.5 shoot m⁻²; Rate = 5.19 % yr⁻¹; Perc Final = 160 % > increase

DECADAL: YES (9 yr)



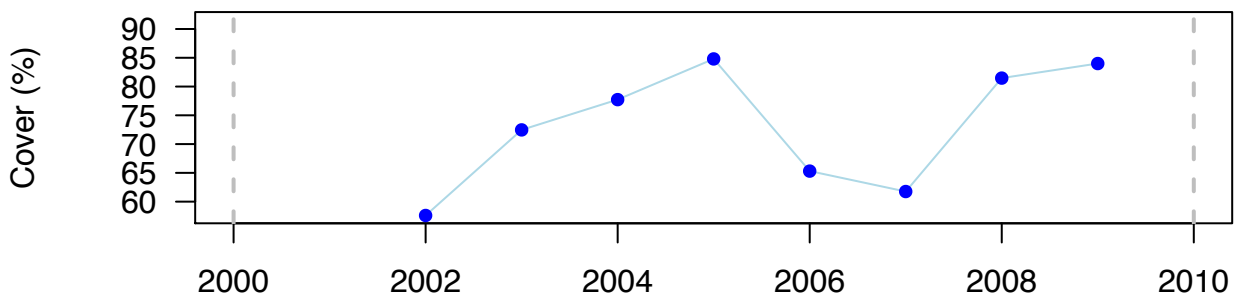
226_cover

Guillén et al. 2013

SITE: Torrevieja (Spain – Mediterranean) – Po (-11 m)

OVERALL: Net = 26.4 %; Rate = 5.39 % yr⁻¹; Perc Final = 146 % > increase

DECADAL: NO (7 yr)



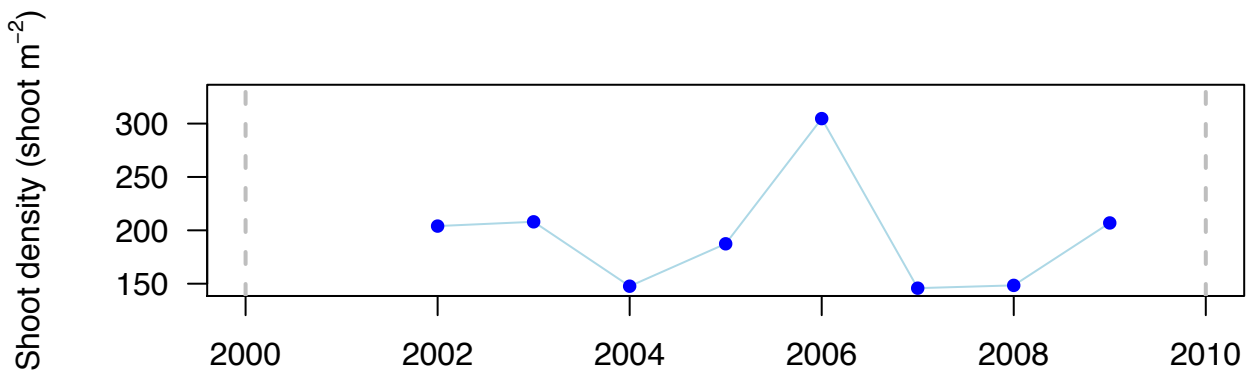
226_density

Guillén et al. 2013

SITE: Torrevieja (Spain – Mediterranean) – Po (-11 m)

OVERALL: Net = 2.94 shoot m⁻²; Rate = 0.2 % yr⁻¹; Perc Final = 101 % > no change

DECADAL: NO (7 yr)



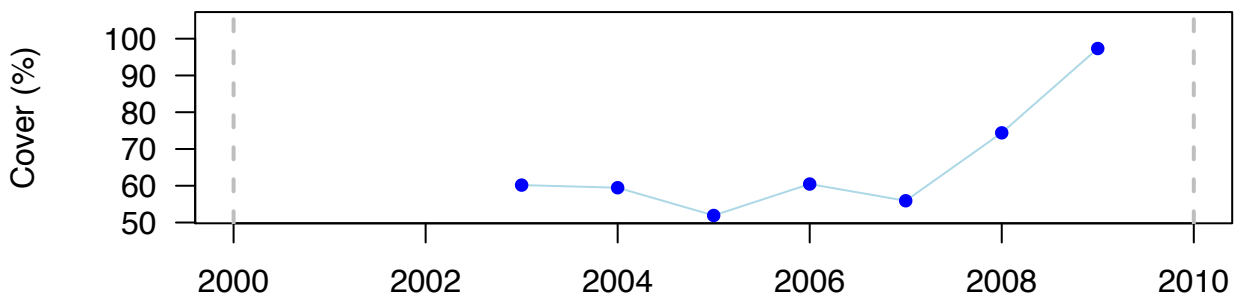
227_cover

Guillén et al. 2013

SITE: Torrevieja (Spain – Mediterranean) – Po (–6 m)

OVERALL: Net = 37.15 %; Rate = 8.01 % yr⁻¹; Perc Final = 162 % > increase

DECADAL: NO (6 yr)



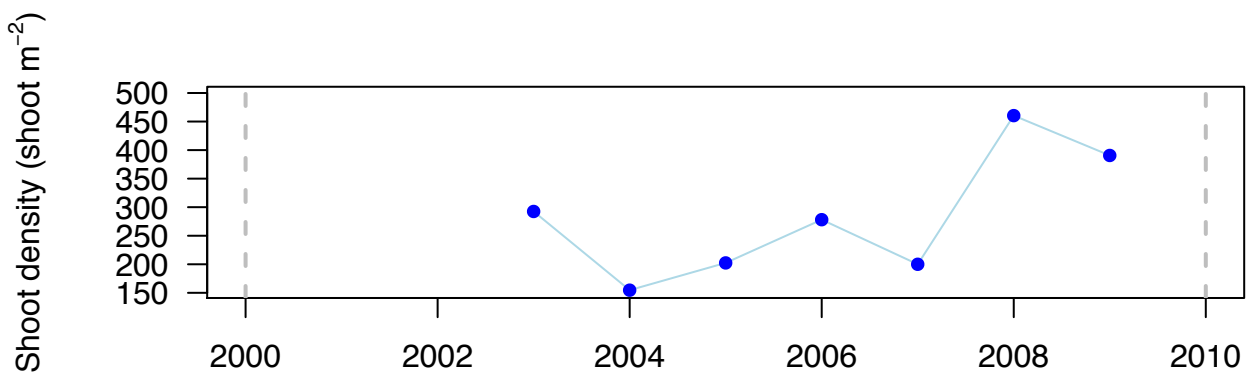
227_density

Guillén et al. 2013

SITE: Torrevieja (Spain – Mediterranean) – Po (–6 m)

OVERALL: Net = 98.13 shoot m⁻²; Rate = 4.82 % yr⁻¹; Perc Final = 134 % > increase

DECADAL: NO (6 yr)



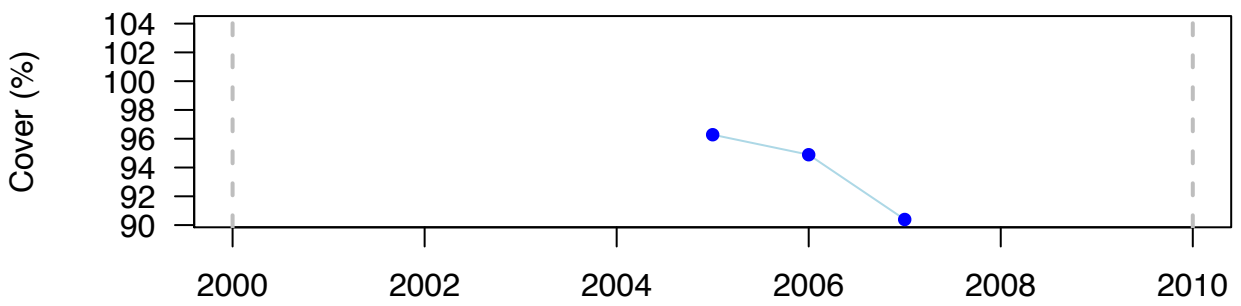
228_cover

Ramos-Esplá et al. 2006, 2007

SITE: Pilar de la Horadada (Spain – Mediterranean) – Po (-15.5 m)

OVERALL: Net = -5.89 %; Rate = -3.16 % yr⁻¹; Perc Final = 94 % > no change

DECADAL: NO (2 yr)



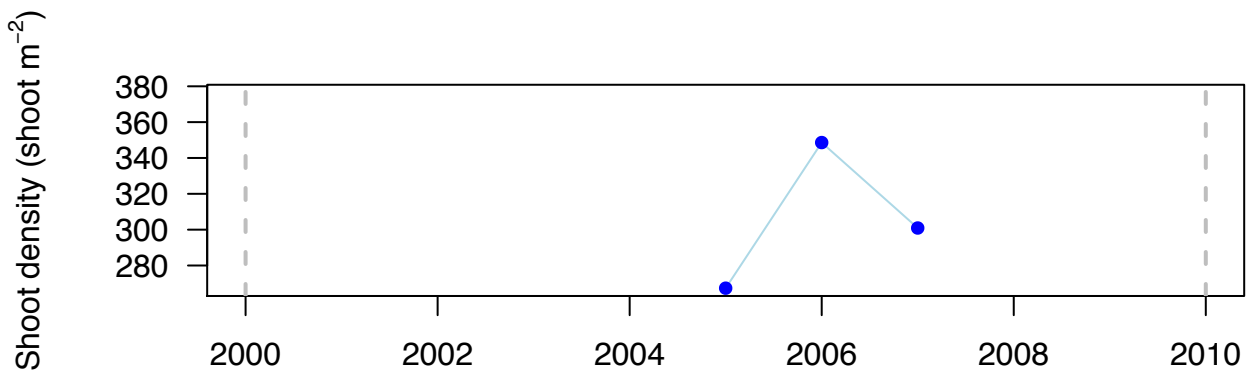
228_density

Ramos-Esplá et al. 2006, 2007

SITE: Pilar de la Horadada (Spain – Mediterranean) – Po (-15.5 m)

OVERALL: Net = 33.57 shoot m⁻²; Rate = 5.91 % yr⁻¹; Perc Final = 113 % > no change

DECADAL: NO (2 yr)



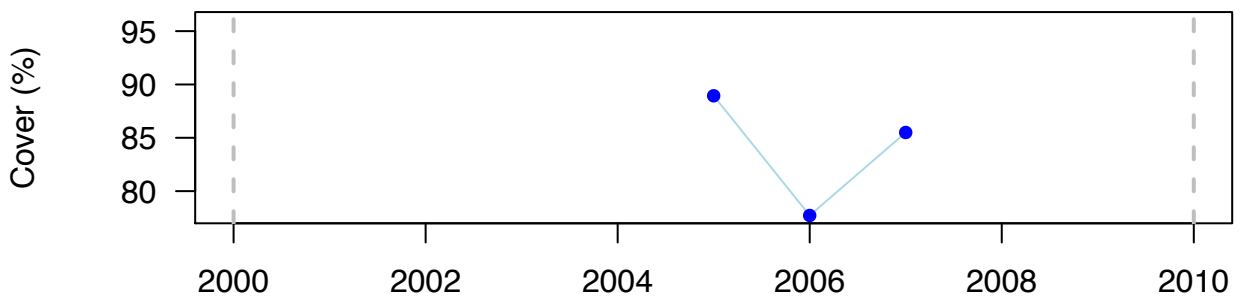
229_cover

Ramos-Esplá et al. 2006, 2007

SITE: Cabo Roig (Spain – Mediterranean) – Po (-13.8 m)

OVERALL: Net = -3.44 %; Rate = -1.97 % yr⁻¹; Perc Final = 96 % > no change

DECADAL: NO (2 yr)



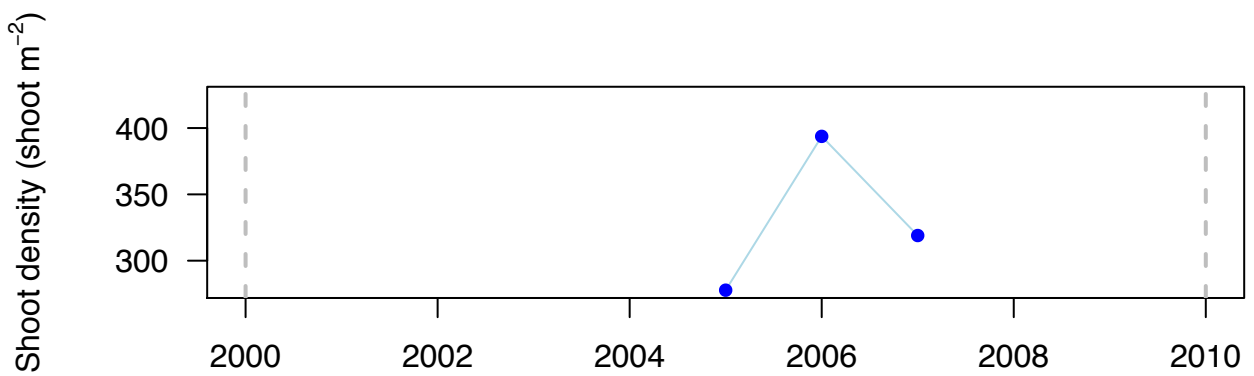
229_density

Ramos-Esplá et al. 2006, 2007

SITE: Cabo Roig (Spain – Mediterranean) – Po (-13.8 m)

OVERALL: Net = 41.2 shoot m⁻²; Rate = 6.91 % yr⁻¹; Perc Final = 115 % > no change

DECADAL: NO (2 yr)



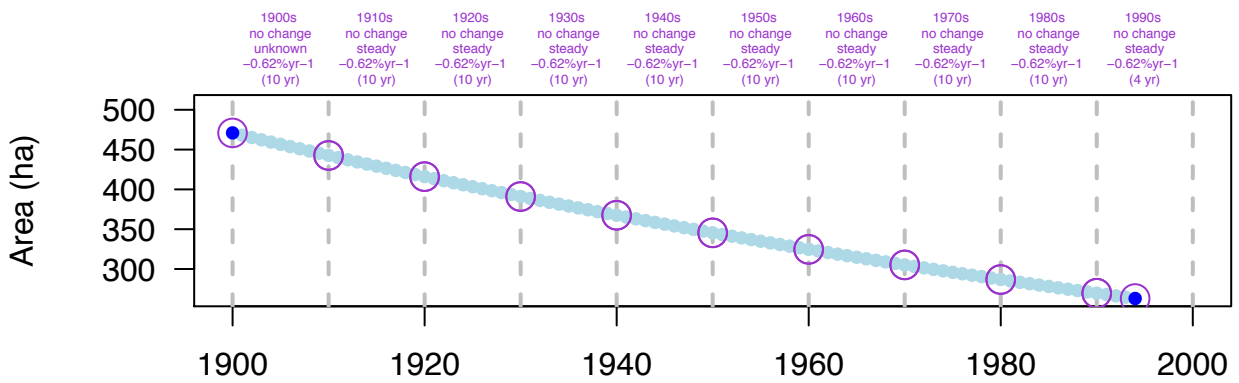
230_area

Boudouresque et al. 2006

SITE: Marseilles (entire) (France – Mediterranean) – Po (? m)

OVERALL: Net = -208 ha; Rate = -0.62 % yr⁻¹; Perc Final = 56 % > decrease

DECADAL: YES (94 yr)



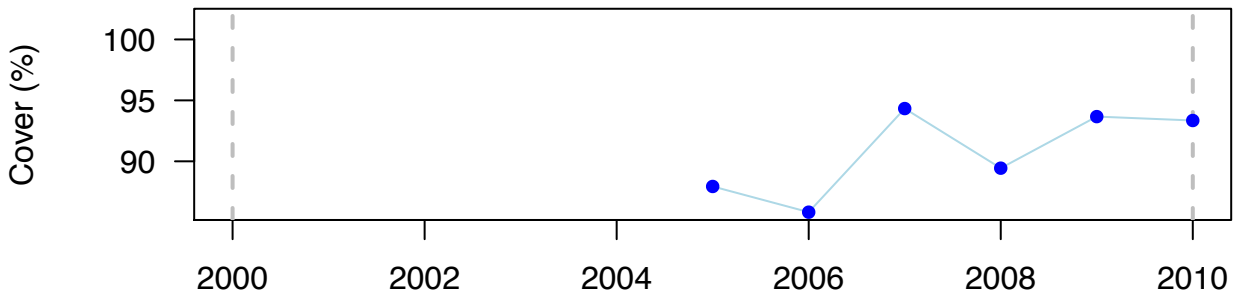
231_cover

Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010

SITE: Cabo de Santa Pola (Spain – Mediterranean) – Po (-14.5 m)

OVERALL: Net = 5.41 %; Rate = 1.19 % yr⁻¹; Perc Final = 106 % > no change

DECADAL: NO (5 yr)



231_density

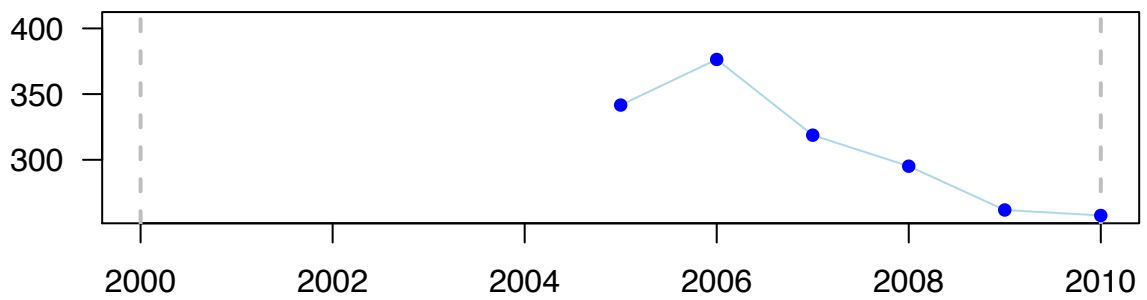
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010

SITE: Cabo de Santa Pola (Spain – Mediterranean) – Po (-14.5 m)

OVERALL: Net = -84.03 shoot m⁻²; Rate = -5.65 % yr⁻¹; Perc Final = 75 % > no change

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



232_cover

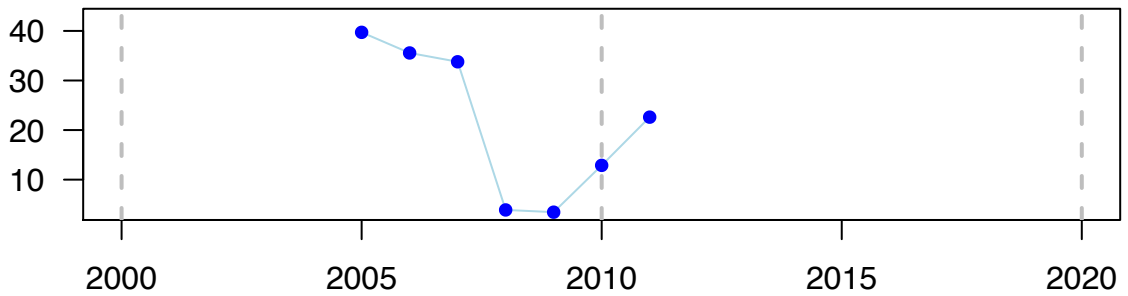
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010, 2011

SITE: Alicante (Spain – Mediterranean) – Po (-16.8 m)

OVERALL: Net = -17.11 %; Rate = -9.39 % yr⁻¹; Perc Final = 57 % > decrease

DECADAL: NO (6 yr)

Cover (%)



232_density

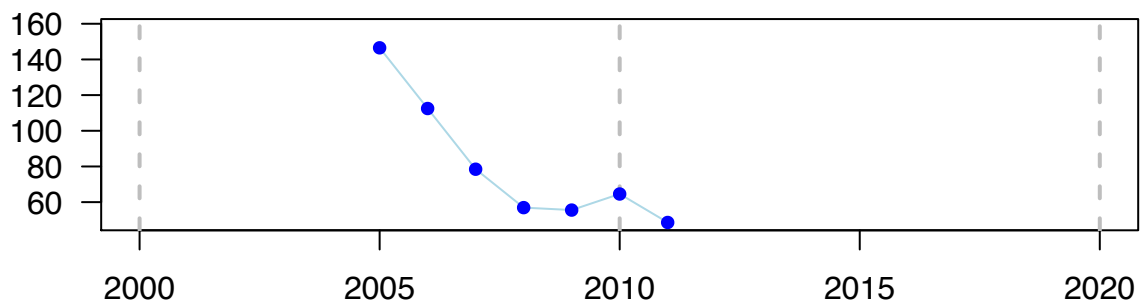
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010, 2011

SITE: Alicante (Spain – Mediterranean) – Po (-16.8 m)

OVERALL: Net = -97.92 shoot m⁻²; Rate = -18.39 % yr⁻¹; Perc Final = 33 % > decrease

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



233_cover

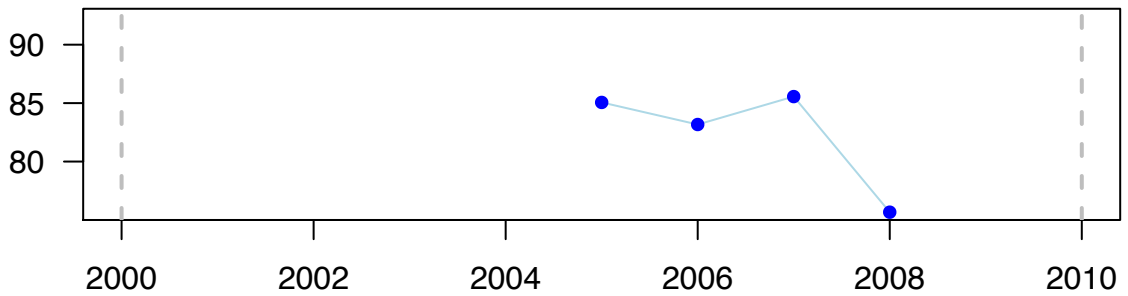
Ramos-Esplá et al. 2006, 2007, 2008

SITE: Cabo Huertas (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -9.39 %; Rate = -3.9 % yr⁻¹; Perc Final = 89 % > no change

DECADAL: NO (3 yr)

Cover (%)



233_density

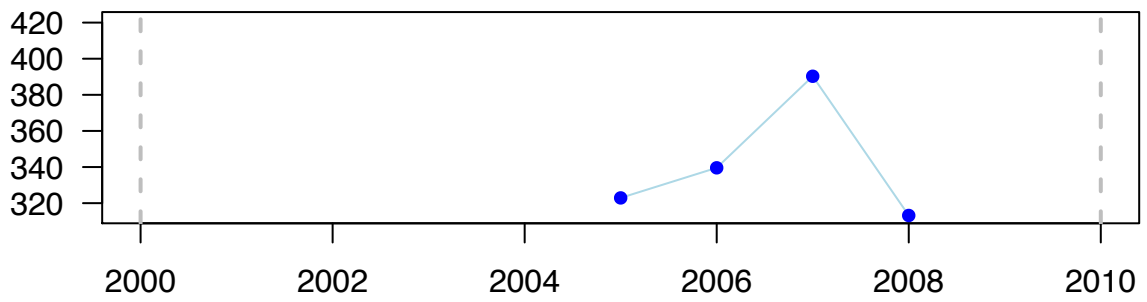
Ramos-Esplá et al. 2006, 2007, 2008

SITE: Cabo Huertas (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -9.73 shoot m⁻²; Rate = -1.02 % yr⁻¹; Perc Final = 97 % > no change

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



235_cover

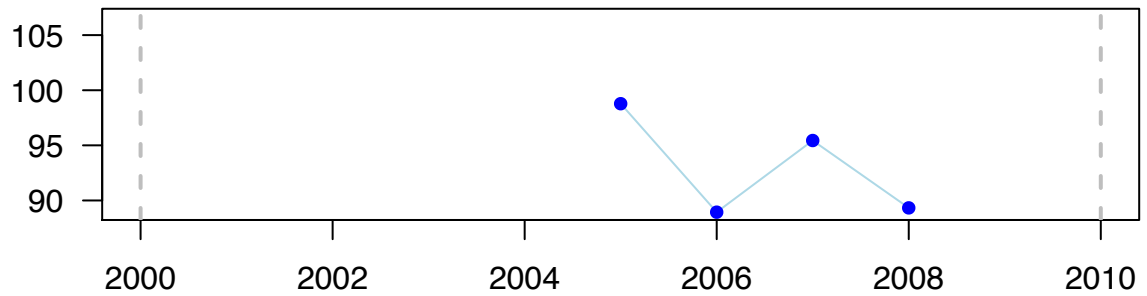
Ramos-Esplá et al. 2006, 2007, 2008

SITE: Benidorm (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -9.45 %; Rate = -3.35 % yr⁻¹; Perc Final = 90 % > no change

DECADAL: NO (3 yr)

Cover (%)



235_density

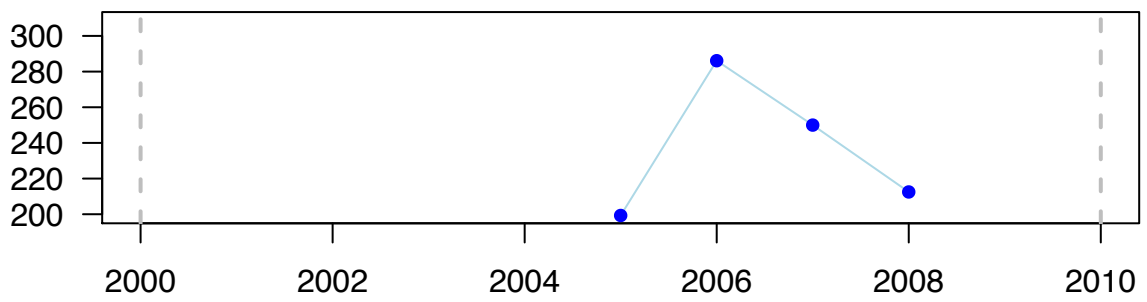
Ramos-Esplá et al. 2006, 2007, 2008

SITE: Benidorm (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = 13.19 shoot m⁻²; Rate = 2.14 % yr⁻¹; Perc Final = 107 % > no change

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



236_cover

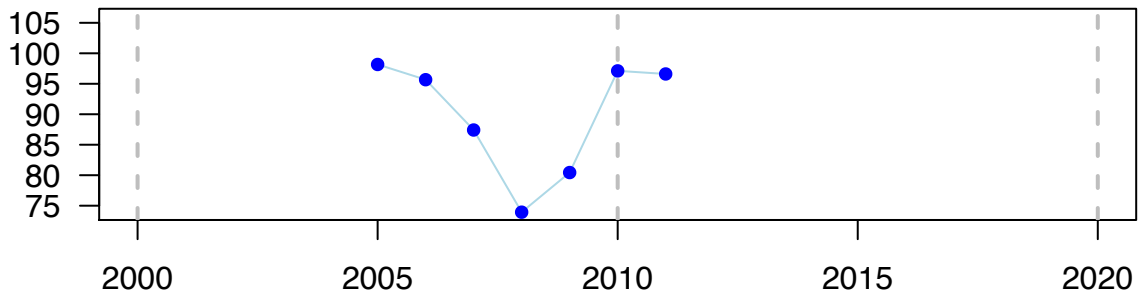
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010, 2011

SITE: Altea (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -1.56 %; Rate = -0.27 % yr⁻¹; Perc Final = 98 % > no change

DECADAL: NO (6 yr)

Cover (%)



236_density

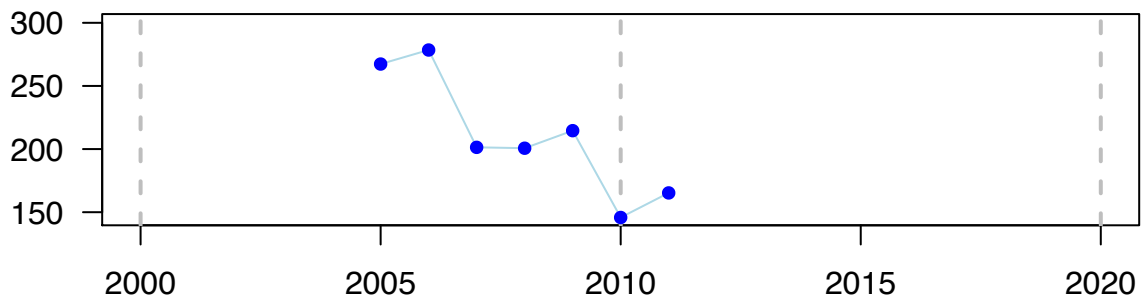
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010, 2011

SITE: Altea (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -102.08 shoot m⁻²; Rate = -8.02 % yr⁻¹; Perc Final = 62 % > decrease

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



237_cover

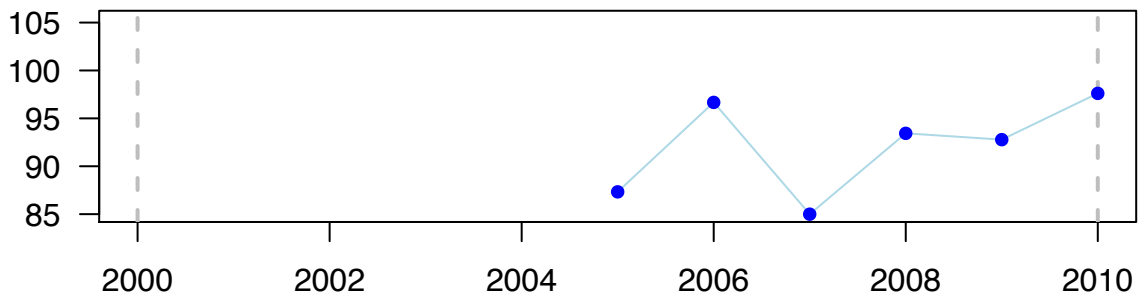
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010

SITE: Calpe (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = 10.28 %; Rate = 2.23 % yr⁻¹; Perc Final = 112 % > no change

DECADAL: NO (5 yr)

Cover (%)



237_density

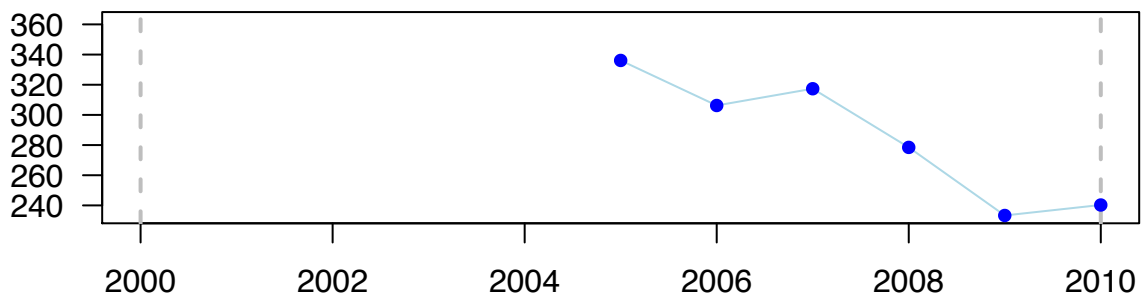
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010

SITE: Calpe (Spain – Mediterranean) – Po (-14 m)

OVERALL: Net = -95.83 shoot m⁻²; Rate = -6.71 % yr⁻¹; Perc Final = 71 % > decrease

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



238_cover

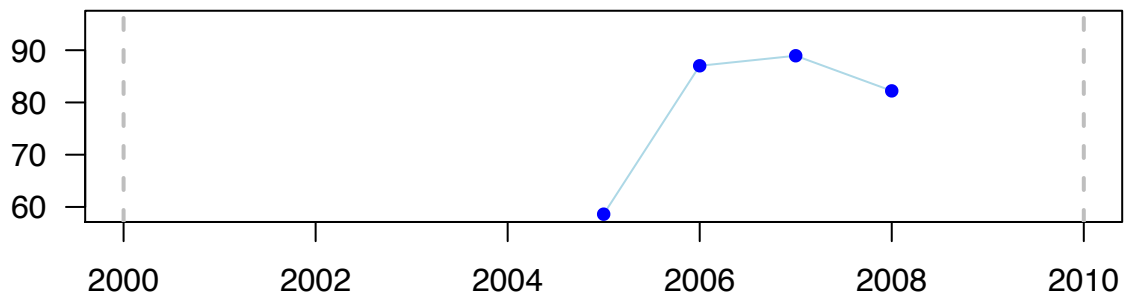
Ramos-Esplá et al. 2006, 2007, 2008

SITE: Jávea (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 23.6 %; Rate = 11.28 % yr⁻¹; Perc Final = 140 % > increase

DECADAL: NO (3 yr)

Cover (%)



238_density

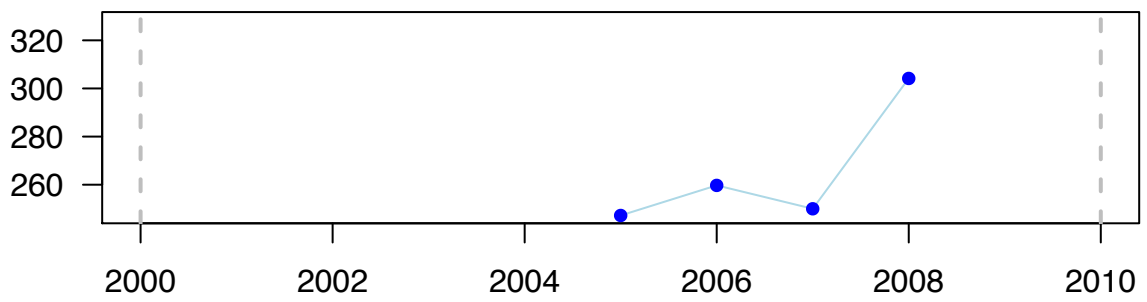
Ramos-Esplá et al. 2006, 2007, 2008

SITE: Jávea (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 56.95 shoot m⁻²; Rate = 6.91 % yr⁻¹; Perc Final = 123 % > no change

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



239_cover

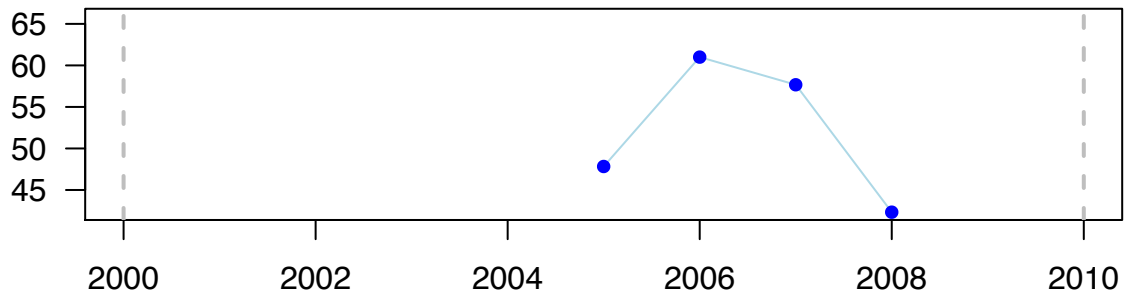
Ramos-Esplá et al. 2006, 2007, 2008

SITE: Denia (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -5.5 %; Rate = -4.07 % yr⁻¹; Perc Final = 89 % > no change

DECADAL: NO (3 yr)

Cover (%)



239_density

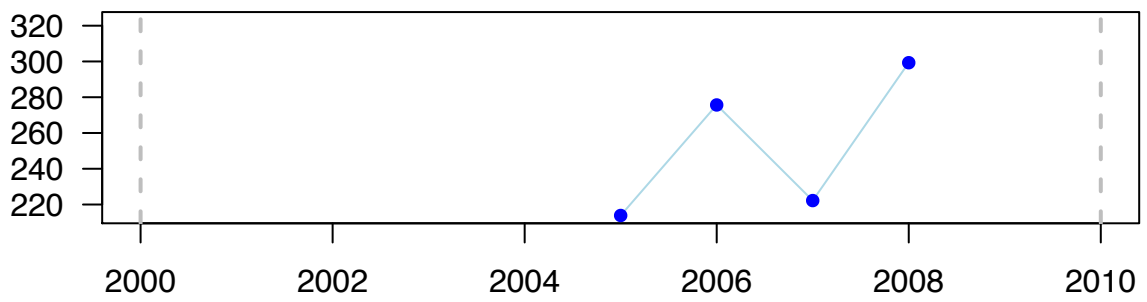
Ramos-Esplá et al. 2006, 2007, 2008

SITE: Denia (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 85.42 shoot m⁻²; Rate = 11.2 % yr⁻¹; Perc Final = 140 % > increase

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



240_cover

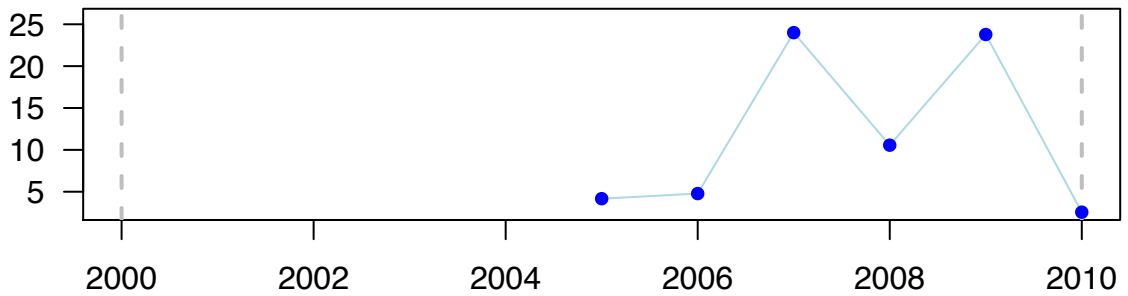
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010

SITE: Castellón (Spain – Mediterranean) – Po (-15.5 m)

OVERALL: Net = -1.61 %; Rate = -9.76 % yr⁻¹; Perc Final = 61 % > decrease

DECADAL: NO (5 yr)

Cover (%)



240_density

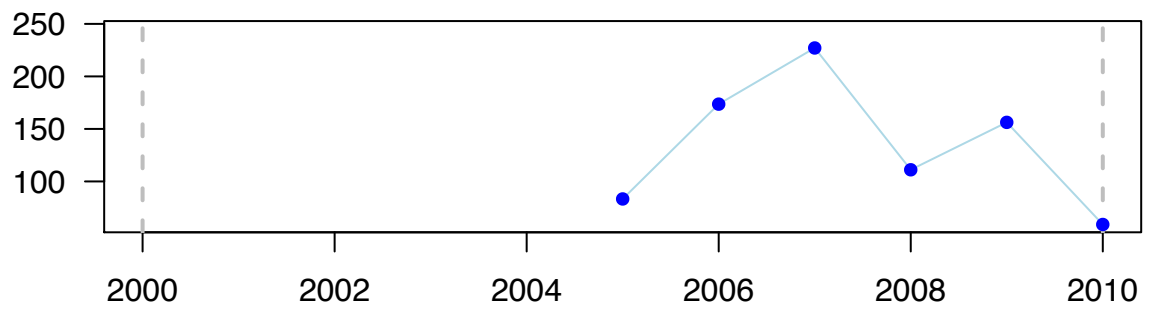
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010

SITE: Castellón (Spain – Mediterranean) – Po (-15.5 m)

OVERALL: Net = -24.3 shoot m⁻²; Rate = -6.9 % yr⁻¹; Perc Final = 71 % > decrease

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



241_cover

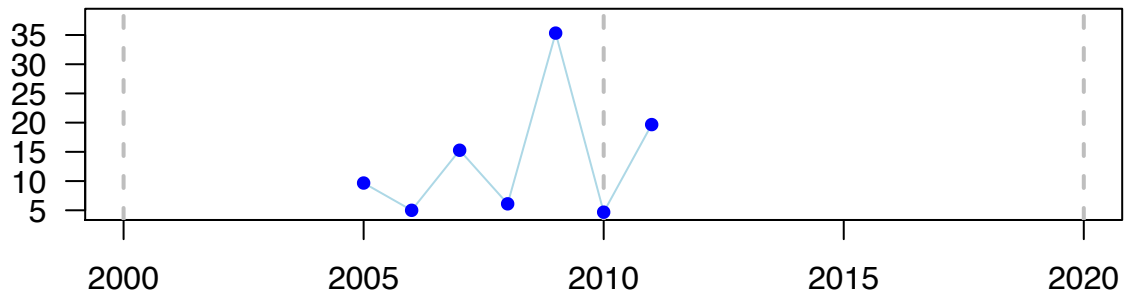
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010, 2011

SITE: Benicassim (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = 10 %; Rate = 11.83 % yr⁻¹; Perc Final = 203 % > increase

DECADAL: NO (6 yr)

Cover (%)



241_density

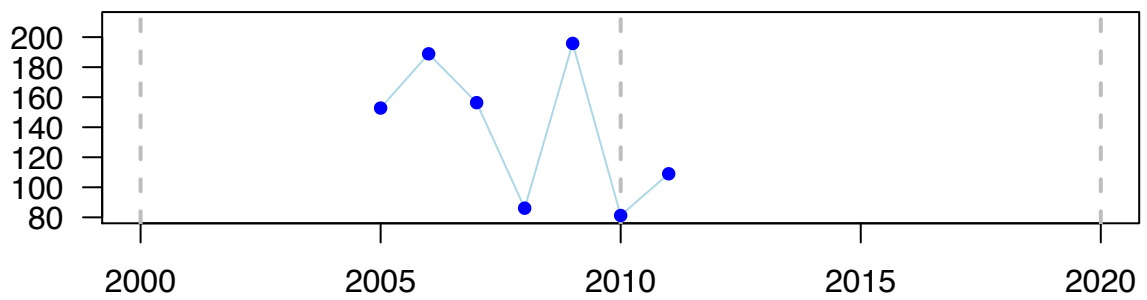
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010, 2011

SITE: Benicassim (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -43.75 shoot m⁻²; Rate = -5.62 % yr⁻¹; Perc Final = 71 % > decrease

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



242_cover

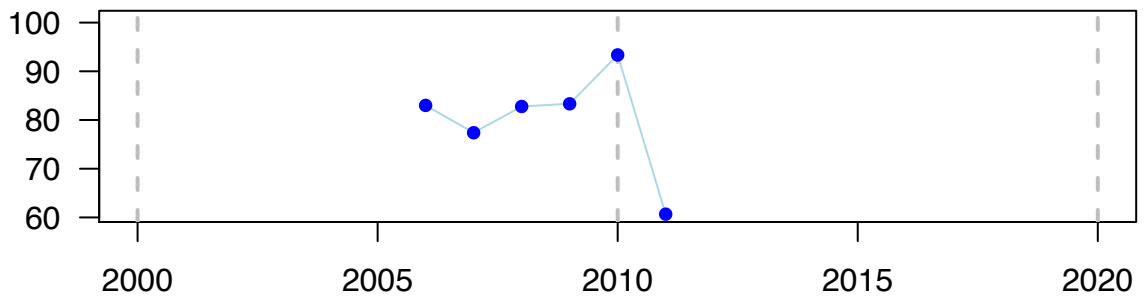
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010, 2011

SITE: Oropesa (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -22.33 %; Rate = -6.27 % yr⁻¹; Perc Final = 73 % > decrease

DECADAL: NO (5 yr)

Cover (%)



242_density

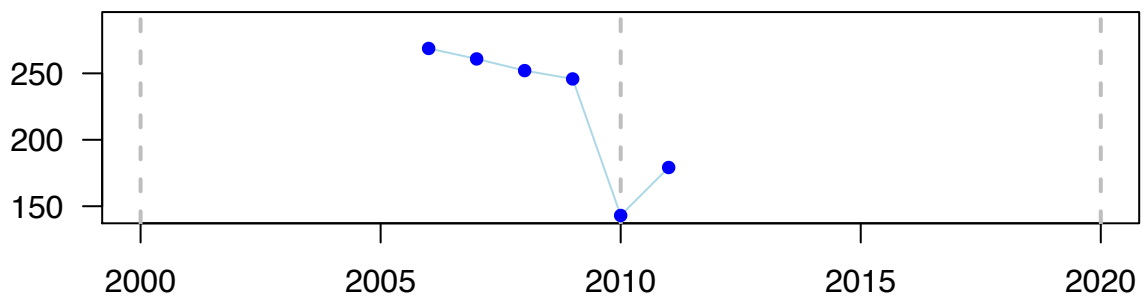
Ramos-Esplá et al. 2006, 2007, 2008, 2009, 2010, 2011

SITE: Oropesa (Spain – Mediterranean) – Po (-15 m)

OVERALL: Net = -89.58 shoot m⁻²; Rate = -8.11 % yr⁻¹; Perc Final = 67 % > decrease

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



243_cover

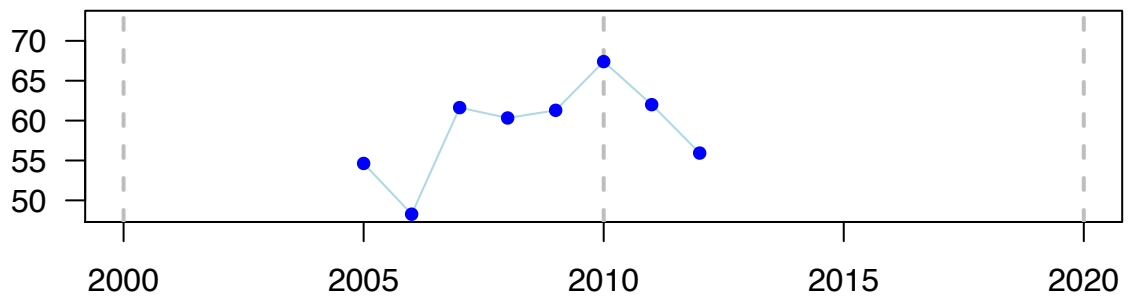
Sánchez-Lizaso et al. 2013

SITE: San Pedro del Pinatar (Spain – Mediterranean) – Po (-28.5 m)

OVERALL: Net = 1.3 %; Rate = 0.34 % yr⁻¹; Perc Final = 102 % > no change

DECADAL: NO (7 yr)

Cover (%)



243_density

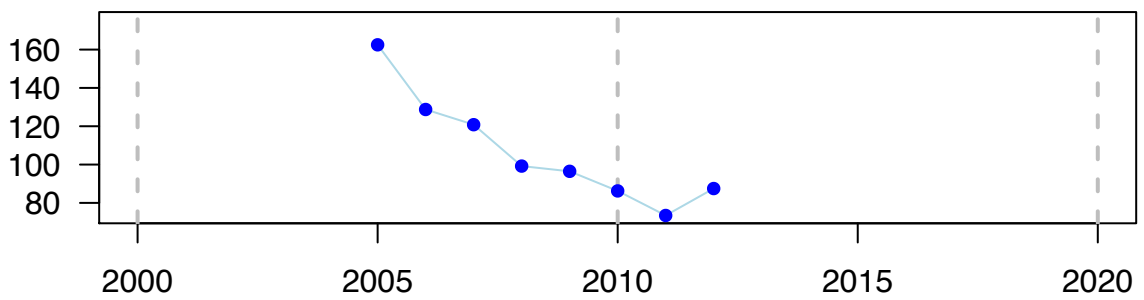
Sánchez-Lizaso et al. 2013

SITE: San Pedro del Pinatar (Spain – Mediterranean) – Po (-28.5 m)

OVERALL: Net = -75 shoot m⁻²; Rate = -8.84 % yr⁻¹; Perc Final = 54 % > decrease

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



246_area

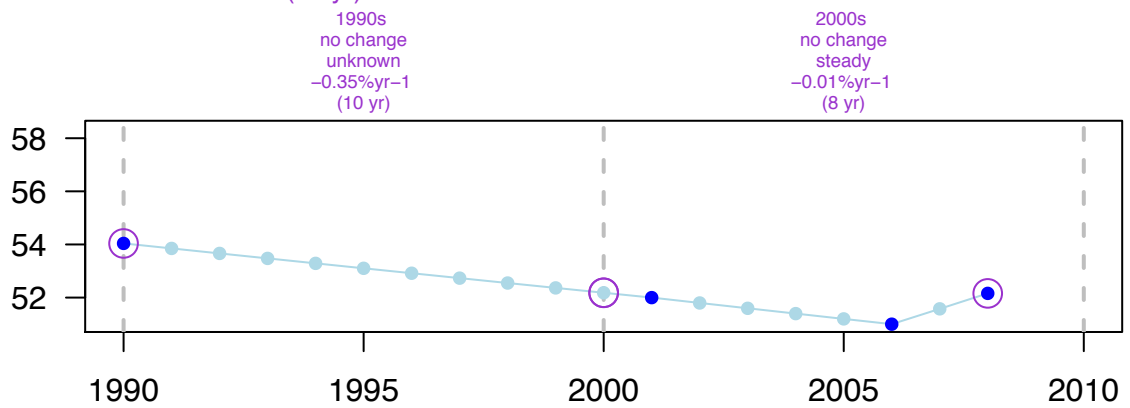
Ferre-Vera 2012

SITE: Cala Fornells – Caló de Ses Llisès (Spain – Mediterranean) – Po (? m)

OVERALL: Net = -1.88 ha; Rate = -0.2 % yr⁻¹; Perc Final = 97 % > no change

DECADAL: YES (18 yr)

Area (ha)



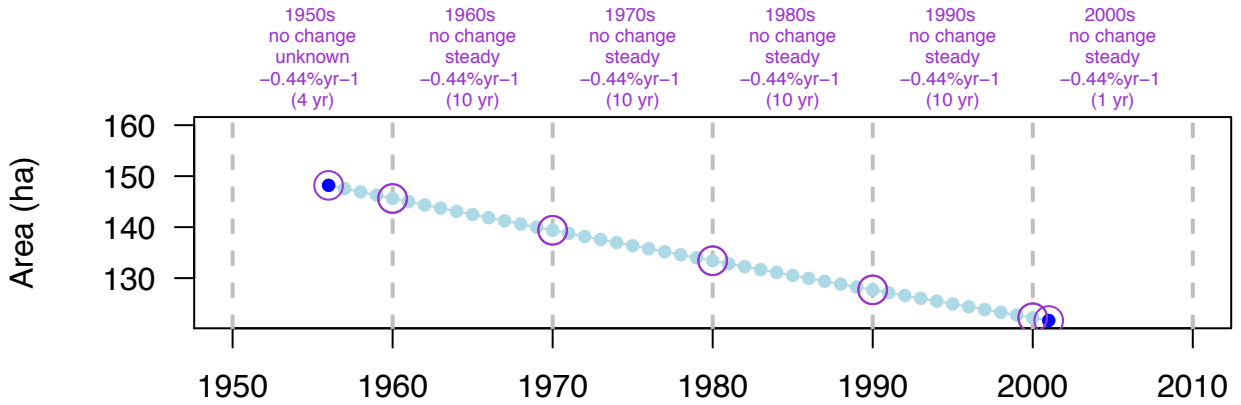
247_area

Sánchez-Camacho 2003

SITE: S'illot – Cala Millor (Spain – Mediterranean) – Po (-10 m)

OVERALL: Net = -26.5 ha; Rate = -0.44 % yr⁻¹; Perc Final = 82 % > decrease

DECADAL: YES (45 yr)



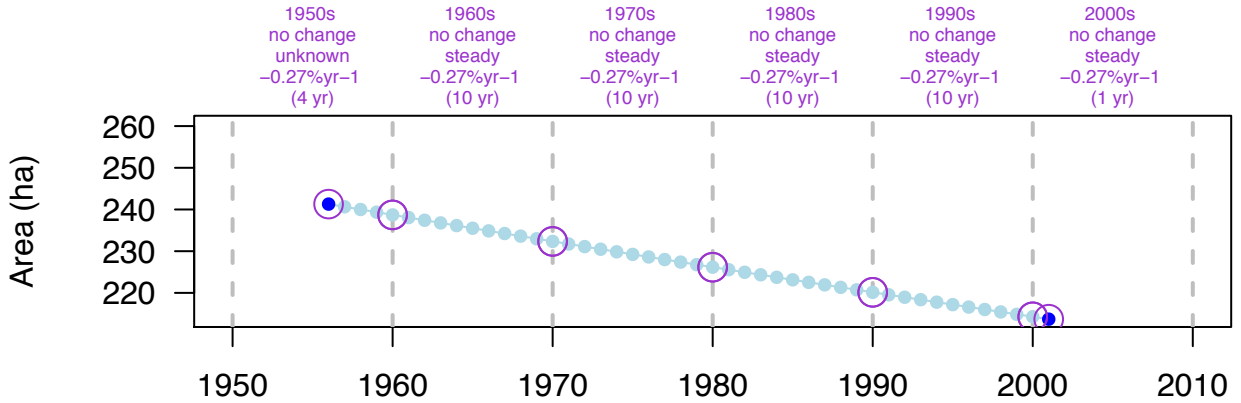
248_area

Sánchez-Camacho 2003

SITE: Magalluf – Portals Nous (Spain – Mediterranean) – Po (-10 m)

OVERALL: Net = -27.6 ha; Rate = -0.27 % yr⁻¹; Perc Final = 89 % > decrease

DECADAL: YES (45 yr)



250_density

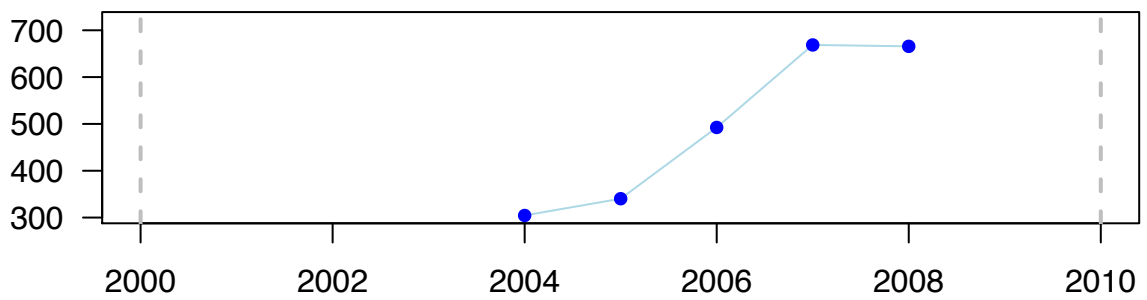
Terrados and Medina-Pons 2011

SITE: Magalluf Bay – Sa Porrassa (Spain – Mediterranean) – Po (-8 m)

OVERALL: Net = 361.2 shoot m⁻²; Rate = 19.55 % yr⁻¹; Perc Final = 219 % > increase

DECADAL: NO (4 yr)

Shoot density (shoot m⁻²)



251_density

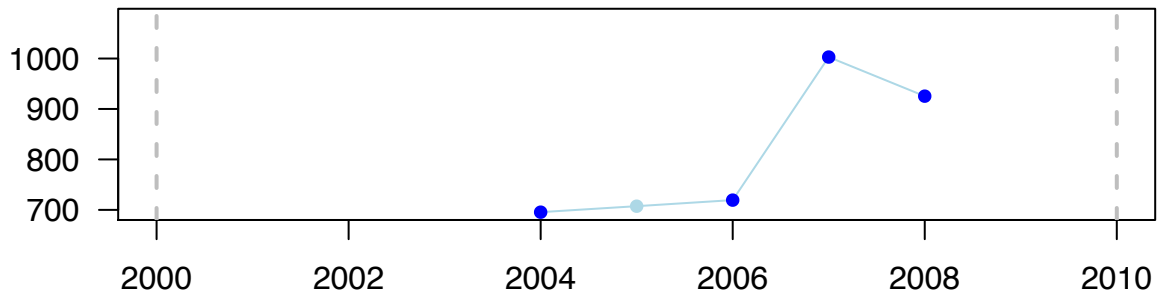
Terrados and Medina-Pons 2011

SITE: Ses Salines (Spain – Mediterranean) – Po (-8 m)

OVERALL: Net = 229.9 shoot m⁻²; Rate = 7.14 % yr⁻¹; Perc Final = 133 % > increase

DECADAL: NO (4 yr)

Shoot density (shoot m⁻²)



252_density

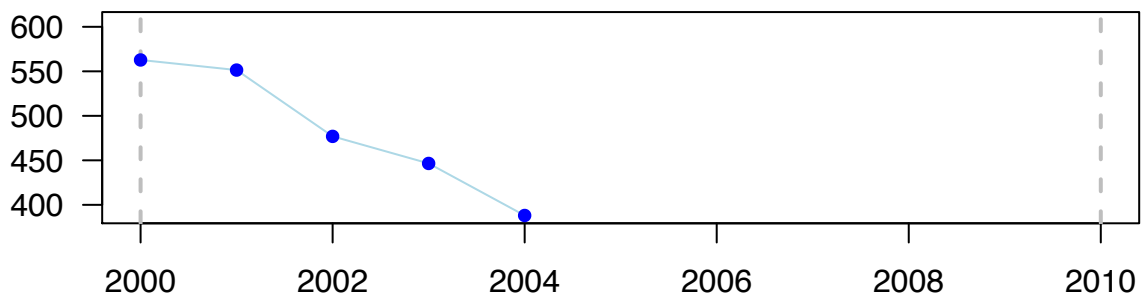
Díaz-Almela et al. 2009

SITE: Magalluf Bay – Sa Porrassa (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = -174.69 shoot m⁻²; Rate = -9.29 % yr⁻¹; Perc Final = 69 % > decrease

DECADAL: NO (4 yr)

Shoot density (shoot m⁻²)



254_area

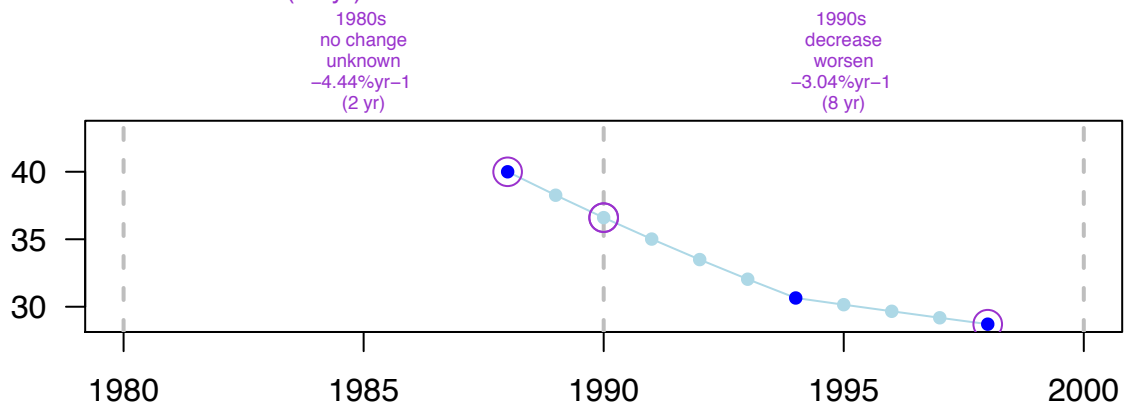
Ruiz et al. 2001

SITE: Hornillo Bay (Spain – Mediterranean) – Po (? m)

OVERALL: Net = -11.29 ha; Rate = -3.32 % yr⁻¹; Perc Final = 72 % > decrease

DECADAL: YES (10 yr)

Area (ha)



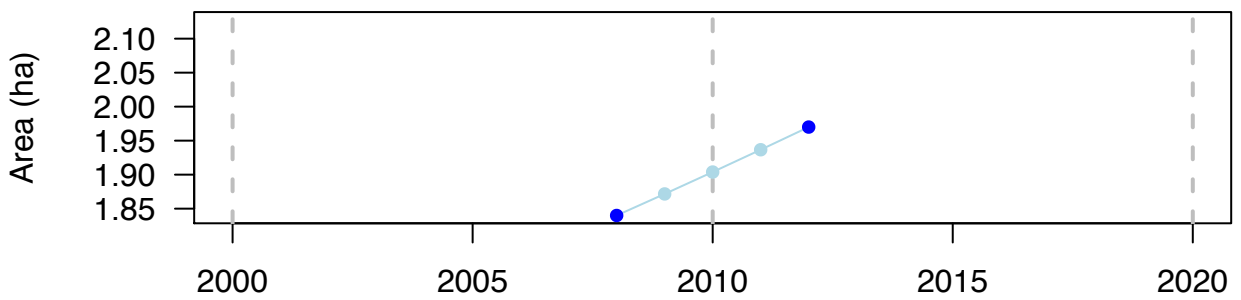
255_area

Garmendia et al. 2013

SITE: Bidasoa Estuary (Spain – Atlantic) – Zn (0 m)

OVERALL: Net = 0.13 ha; Rate = 1.71 % yr⁻¹; Perc Final = 107 % > no change

DECADAL: NO (4 yr)



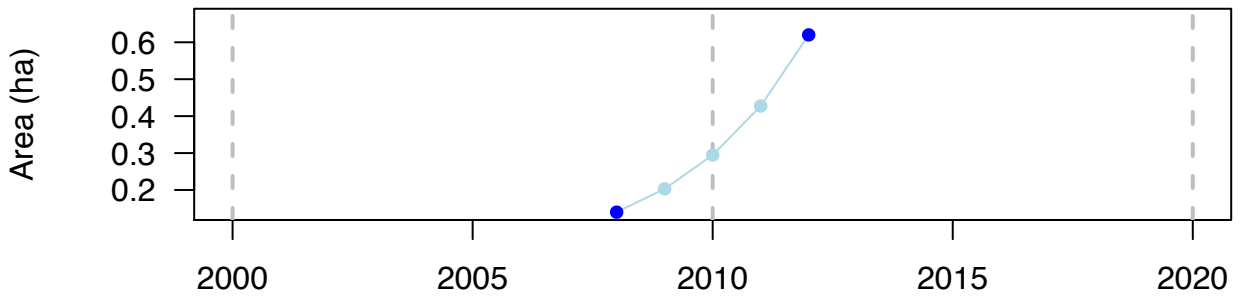
256_area

Garmendia et al. 2013

SITE: Lea Estuary (Spain – Atlantic) – Zn (0 m)

OVERALL: Net = 0.48 ha; Rate = 37.2 % yr⁻¹; Perc Final = 443 % > increase

DECADAL: NO (4 yr)



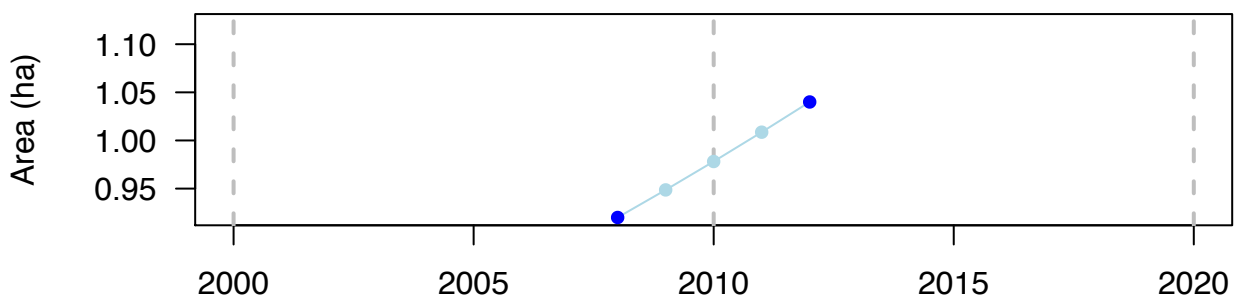
257_area

Garmendia et al. 2013

SITE: Oka Estuary (Kanala) (Spain – Atlantic) – Zn (0 m)

OVERALL: Net = 0.12 ha; Rate = 3.07 % yr⁻¹; Perc Final = 113 % > increase

DECADAL: NO (4 yr)



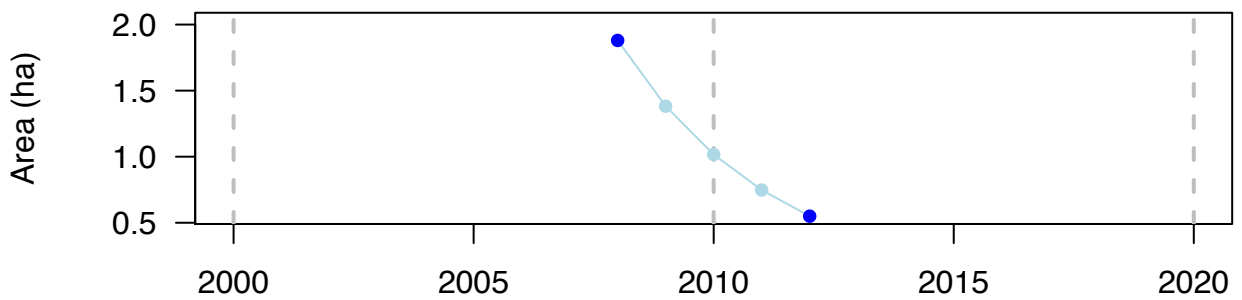
258_area

Garmendia et al. 2013

SITE: Oka Estuary (Arketas) (Spain – Atlantic) – Zn (0 m)

OVERALL: Net = -1.33 ha; Rate = -30.73 % yr⁻¹; Perc Final = 29 % > decrease

DECADAL: NO (4 yr)



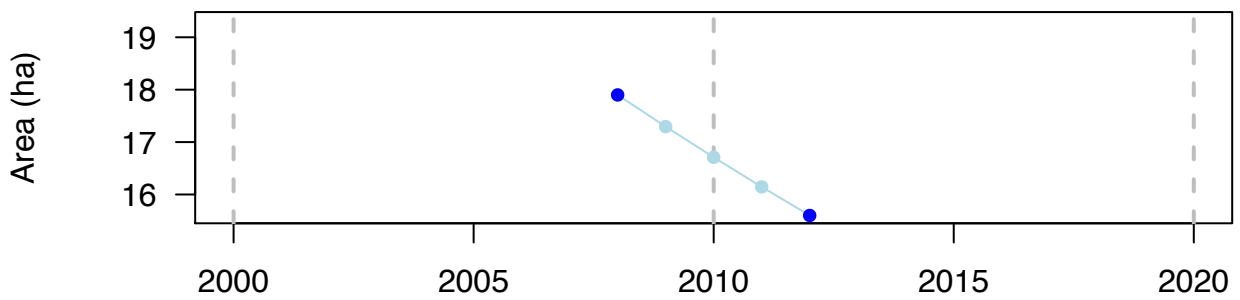
259_area

Garmendia et al. 2013

SITE: Oka Estuary (San Kristobal) (Spain – Atlantic) – Zn (0 m)

OVERALL: Net = -2.3 ha; Rate = -3.44 % yr⁻¹; Perc Final = 87 % > decrease

DECADAL: NO (4 yr)



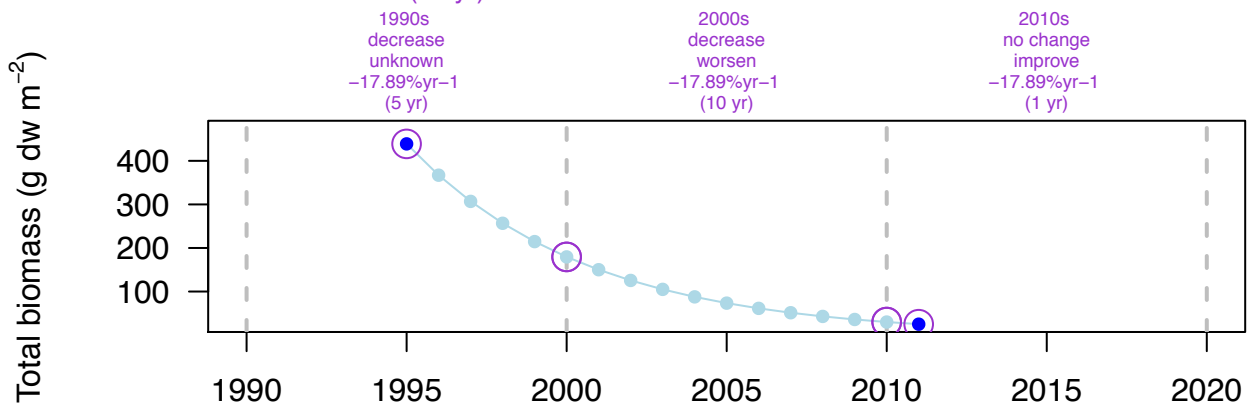
260_biomass

Tuya et al. 2013

SITE: Risco Verde (Spain – Atlantic) – Cn (-10 m)

OVERALL: Net = -413.9 g dw m⁻²; Rate = -17.89 % yr⁻¹; Perc Final = 6 % > decrease

DECADAL: YES (16 yr)



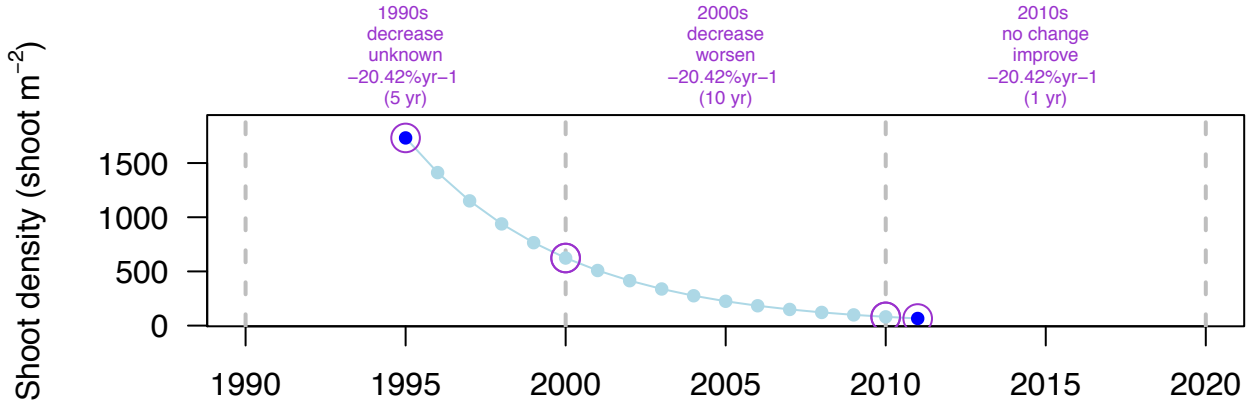
260_density

Tuya et al. 2013

SITE: Risco Verde (Spain – Atlantic) – Cn (–10 m)

OVERALL: Net = –1666 shoot m⁻²; Rate = –20.42 % yr⁻¹; Perc Final = 4 % > decrease

DECADAL: YES (16 yr)



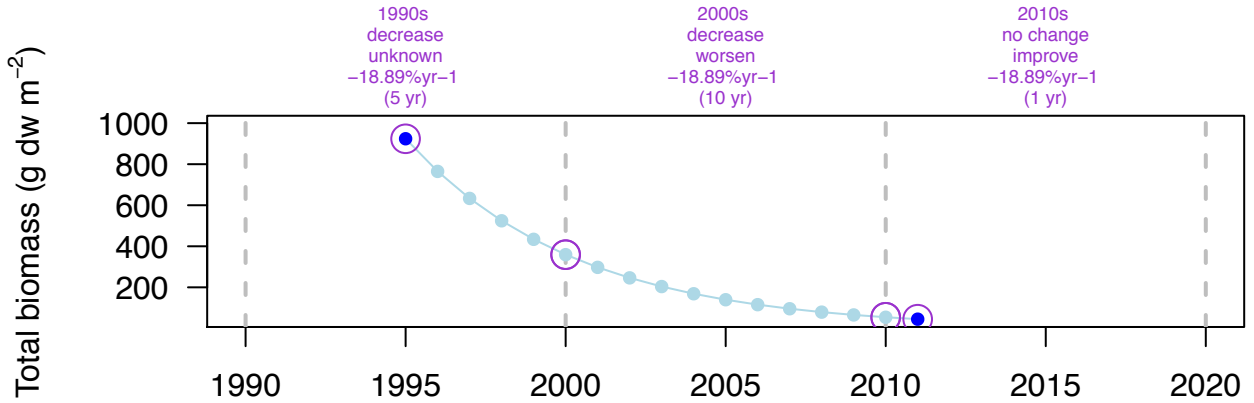
261_biomass

Tuya et al. 2013

SITE: Roque Arinaga (Spain – Atlantic) – Cn (–14 m)

OVERALL: Net = –879 g dw m⁻²; Rate = –18.89 % yr⁻¹; Perc Final = 5 % > decrease

DECADAL: YES (16 yr)



261_density

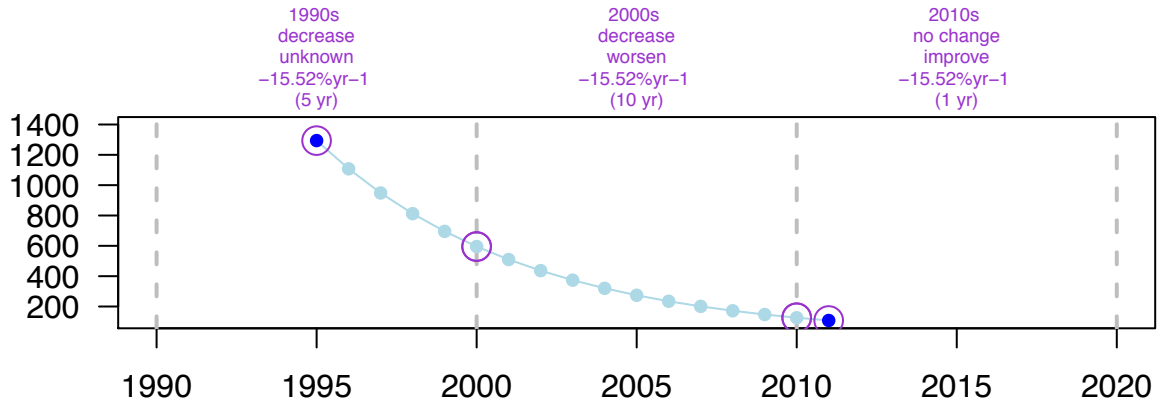
Tuya et al. 2013

SITE: Roque Arinaga (Spain – Atlantic) – Cn (-14 m)

OVERALL: Net = -1186 shoot m⁻²; Rate = -15.52 % yr⁻¹; Perc Final = 8 % > decrease

DECADAL: YES (16 yr)

Shoot density (shoot m⁻²)



262_biomass

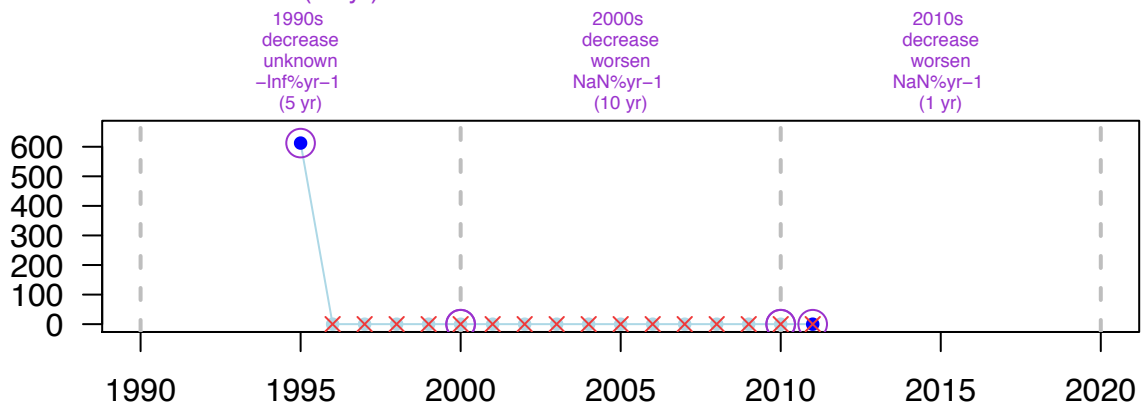
Tuya et al. 2013

SITE: Arinaga (Spain – Atlantic) – Cn (-5 m)

OVERALL: Net = -612.5 g dw m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (16 yr)

Total biomass (g dw m⁻²)



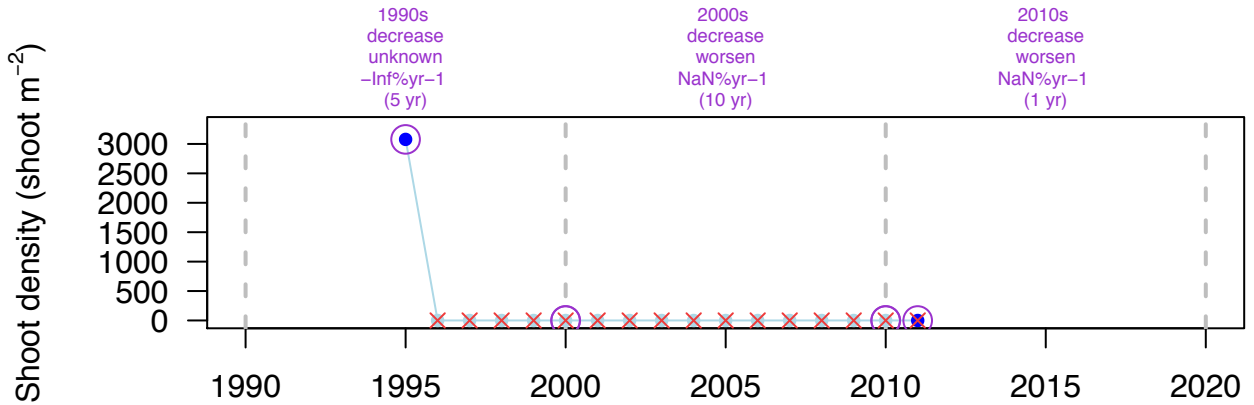
262_density

Tuya et al. 2013

SITE: Arinaga (Spain – Atlantic) – Cn (-5 m)

OVERALL: Net = -3078 shoot m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (16 yr)



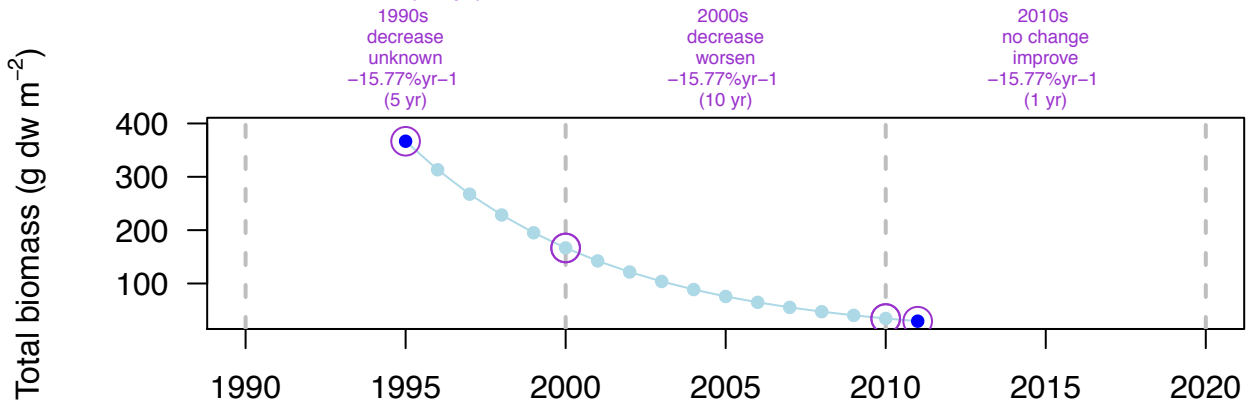
263_biomass

Tuya et al. 2013

SITE: Gando (Spain – Atlantic) – Cn (-4 m)

OVERALL: Net = -337.3 g dw m⁻²; Rate = -15.77 % yr⁻¹; Perc Final = 8 % > decrease

DECADAL: YES (16 yr)



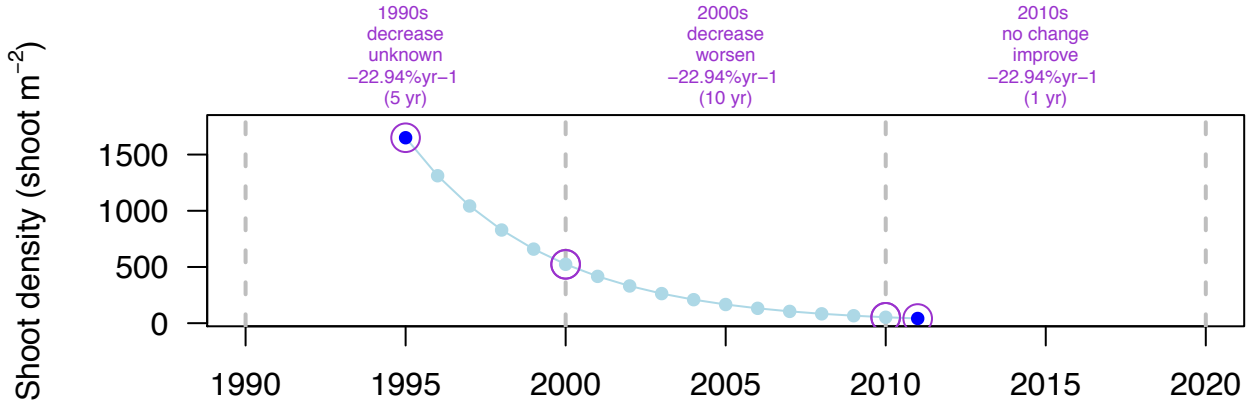
263_density

Tuya et al. 2013

SITE: Gando (Spain – Atlantic) – Cn (–4 m)

OVERALL: Net = –1608 shoot m⁻²; Rate = –22.94 % yr⁻¹; Perc Final = 3 % > decrease

DECADAL: YES (16 yr)



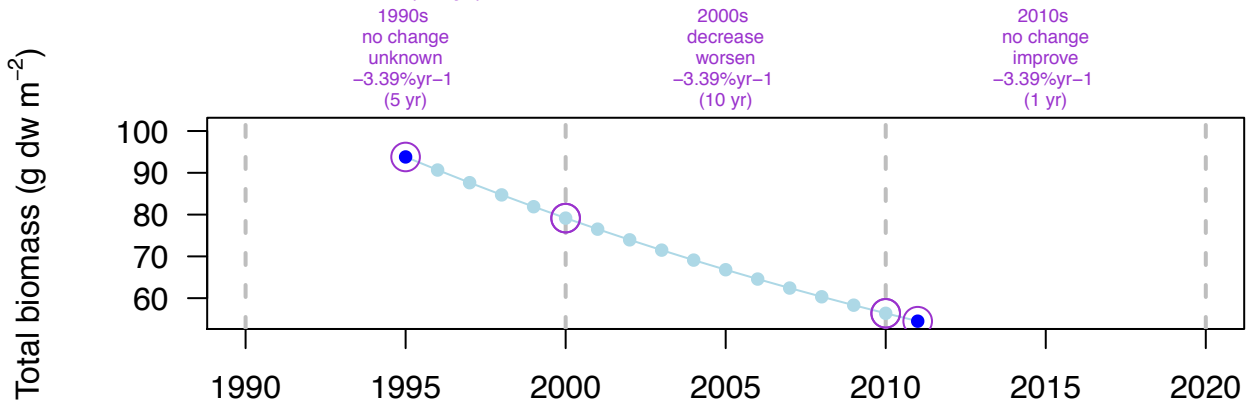
264_biomass

Tuya et al. 2013

SITE: Pasito Blanco (Spain – Atlantic) – Cn (–8 m)

OVERALL: Net = –39.3 g dw m⁻²; Rate = –3.39 % yr⁻¹; Perc Final = 58 % > decrease

DECADAL: YES (16 yr)



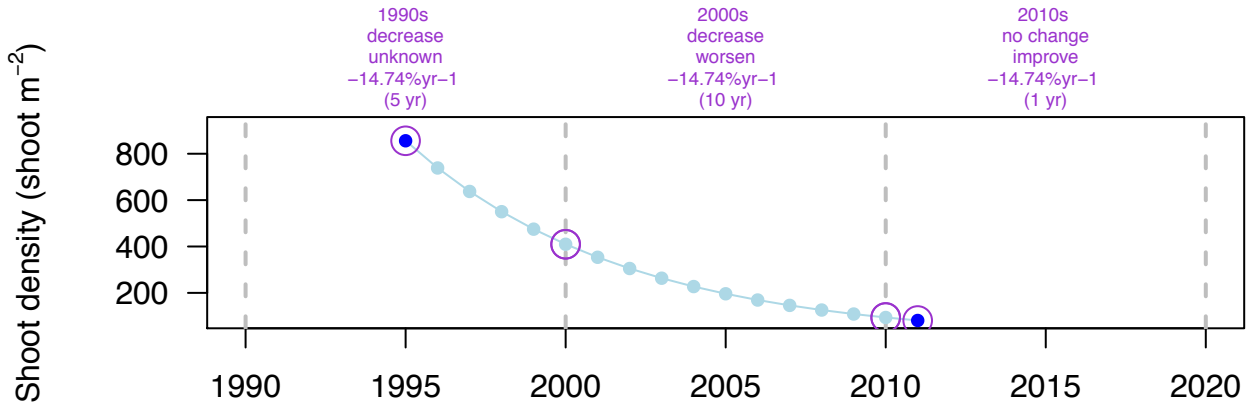
264_density

Tuya et al. 2013

SITE: Pasito Blanco (Spain – Atlantic) – Cn (-8 m)

OVERALL: Net = -775 shoot m⁻²; Rate = -14.74 % yr⁻¹; Perc Final = 9 % > decrease

DECADAL: YES (16 yr)



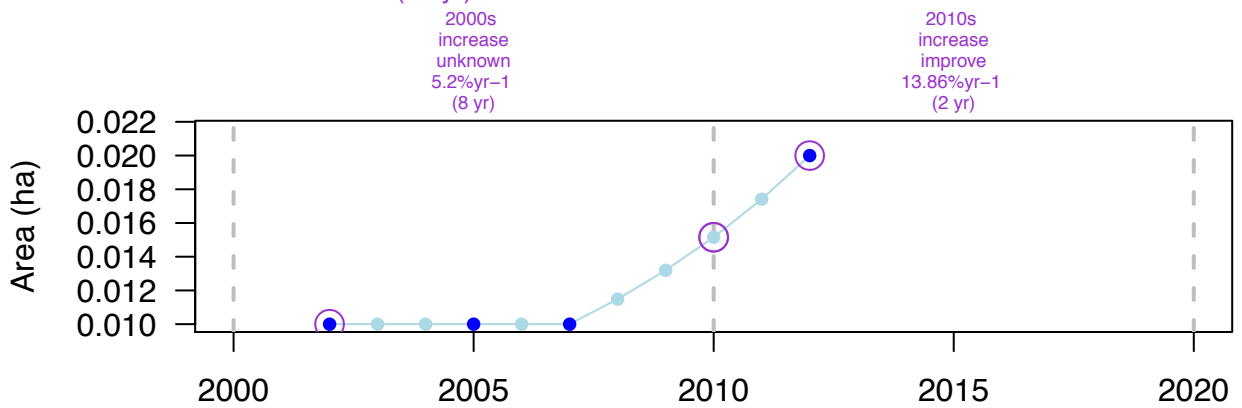
265_area

Gil-Rodríguez et al. 2012

SITE: Marina del Arrecife (Spain – Atlantic) – Zn (0 m)

OVERALL: Net = 0.01 ha; Rate = 6.93 % yr⁻¹; Perc Final = 200 % > increase

DECADAL: YES (10 yr)



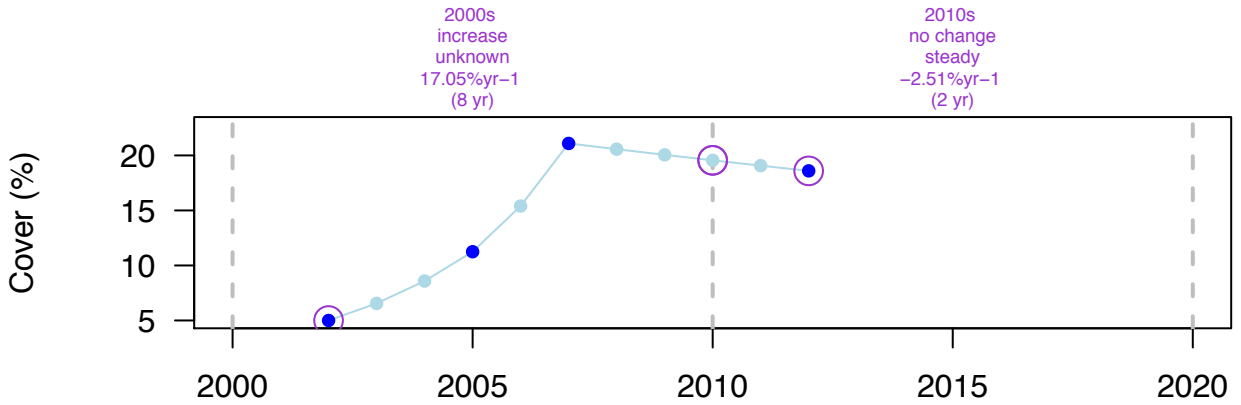
265_cover

Gil-Rodríguez et al. 2012

SITE: Marina del Arrecife (Spain – Atlantic) – Zn (0 m)

OVERALL: Net = 13.6 %; Rate = 13.14 % yr⁻¹; Perc Final = 372 % > increase

DECADAL: YES (10 yr)



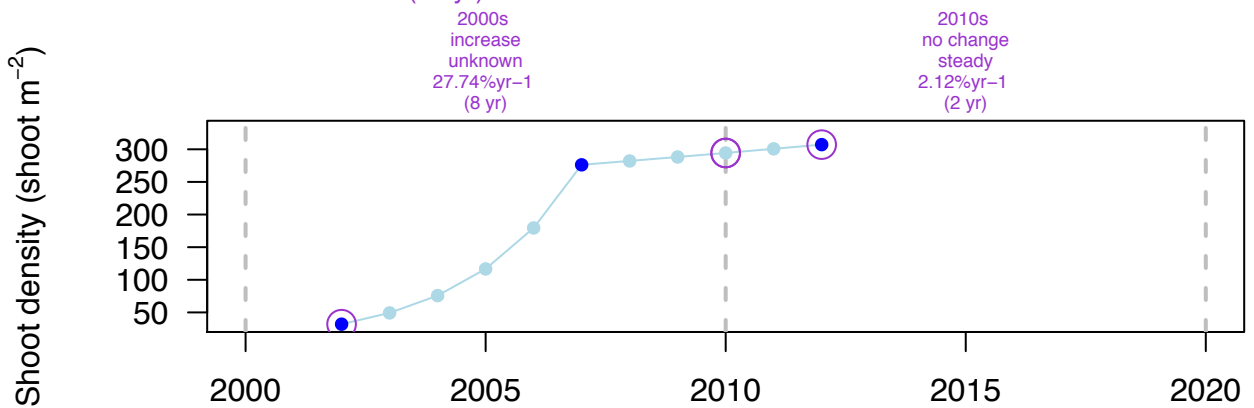
265_density

Gil-Rodríguez et al. 2012

SITE: Marina del Arrecife (Spain – Atlantic) – Zn (0 m)

OVERALL: Net = 275.2 shoot m⁻²; Rate = 22.62 % yr⁻¹; Perc Final = 960 % > increase

DECADAL: YES (10 yr)



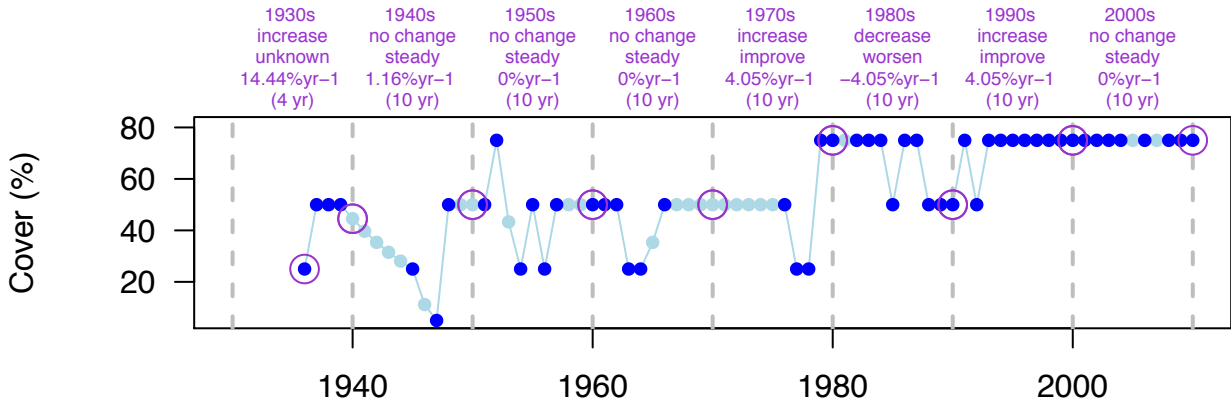
267_cover

Moy (unpublished)

SITE: Amland (Norway – Atlantic) – Zm (–5 m)

OVERALL: Net = 50 %; Rate = 1.48 % yr⁻¹; Perc Final = 300 % > increase

DECADAL: YES (74 yr)



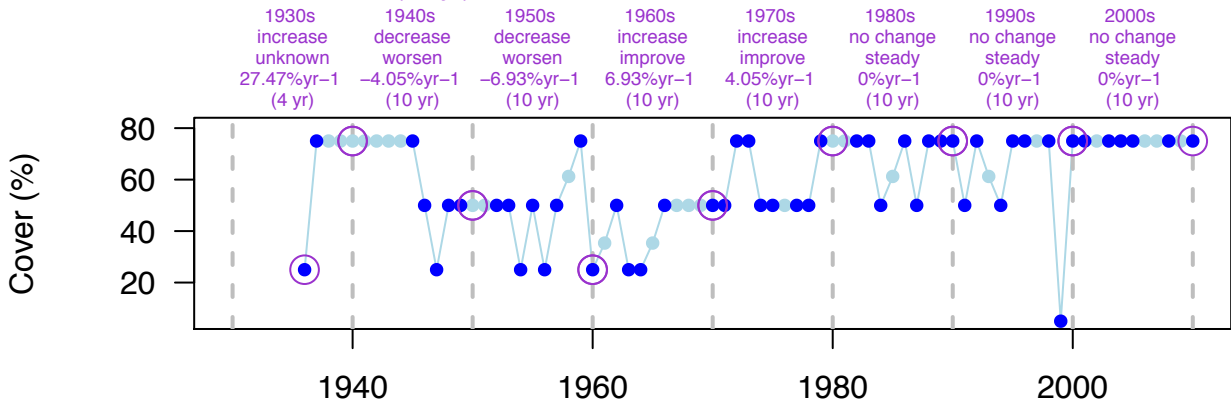
268_cover

Moy (unpublished)

SITE: Hallangspollen (Norway – Atlantic) – Zm (–5 m)

OVERALL: Net = 50 %; Rate = 1.48 % yr⁻¹; Perc Final = 300 % > increase

DECADAL: YES (74 yr)



269_cover

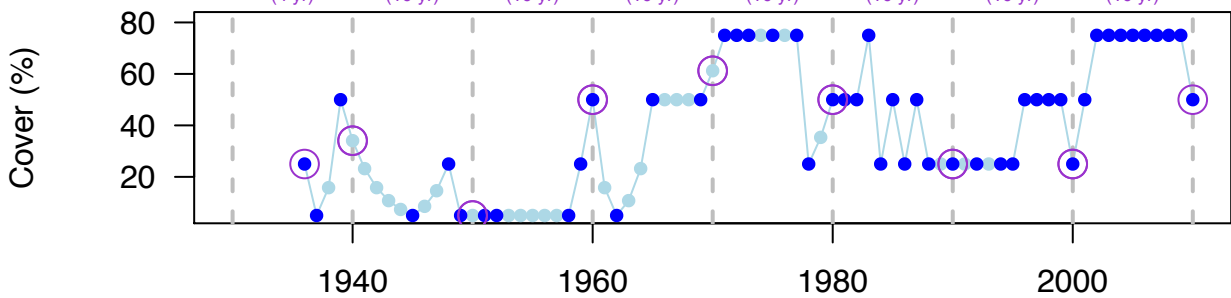
Moy (unpublished)

SITE: Lusekilen (Norway – Atlantic) – Zm (-5 m)

OVERALL: Net = 25 %; Rate = 0.94 % yr⁻¹; Perc Final = 200 % > increase

DECADAL: YES (74 yr)

1930s increase unknown 7.73%yr ⁻¹ (4 yr)	1940s decrease worsen -19.19%yr ⁻¹ (10 yr)	1950s increase improve 23.03%yr ⁻¹ (10 yr)	1960s no change steady 2.03%yr ⁻¹ (10 yr)	1970s no change steady -2.03%yr ⁻¹ (10 yr)	1980s decrease worsen -6.93%yr ⁻¹ (10 yr)	1990s no change improve 0%yr ⁻¹ (10 yr)	2000s increase improve 6.93%yr ⁻¹ (10 yr)
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270_cover

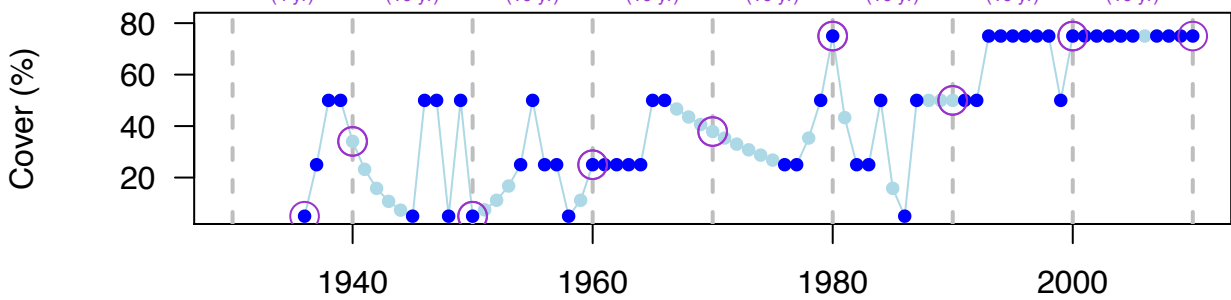
Moy (unpublished)

SITE: Soppekilen (Norway – Atlantic) – Zm (-5 m)

OVERALL: Net = 70 %; Rate = 3.66 % yr⁻¹; Perc Final = 1500 % > increase

DECADAL: YES (74 yr)

1930s increase unknown 47.97%yr ⁻¹ (4 yr)	1940s decrease worsen -19.19%yr ⁻¹ (10 yr)	1950s increase improve 16.09%yr ⁻¹ (10 yr)	1960s increase improve 4.16%yr ⁻¹ (10 yr)	1970s increase improve 6.83%yr ⁻¹ (10 yr)	1980s decrease worsen -4.05%yr ⁻¹ (10 yr)	1990s increase improve 4.05%yr ⁻¹ (10 yr)	2000s no change steady 0%yr ⁻¹ (10 yr)
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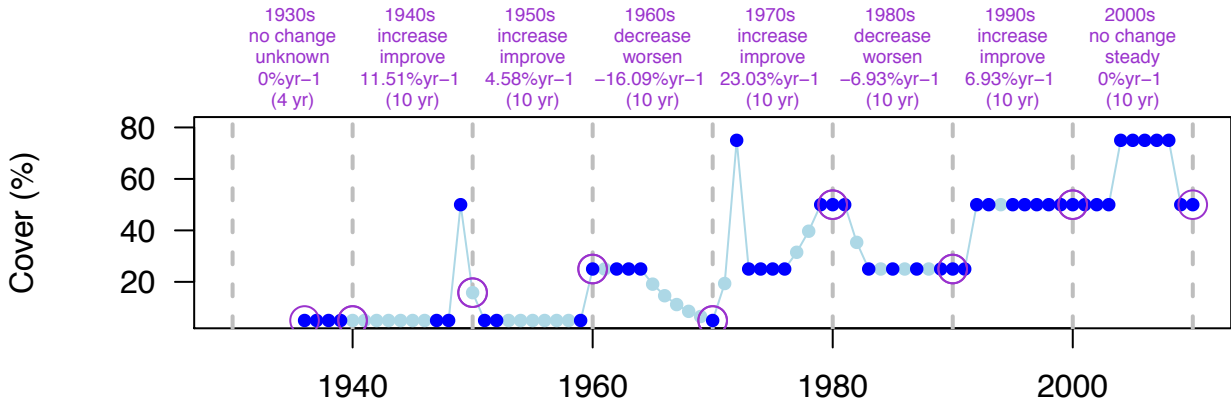
271_cover

Moy (unpublished)

SITE: Sundet (Norway – Atlantic) – Zm (-5 m)

OVERALL: Net = 45 %; Rate = 3.11 % yr⁻¹; Perc Final = 1000 % > increase

DECADAL: YES (74 yr)



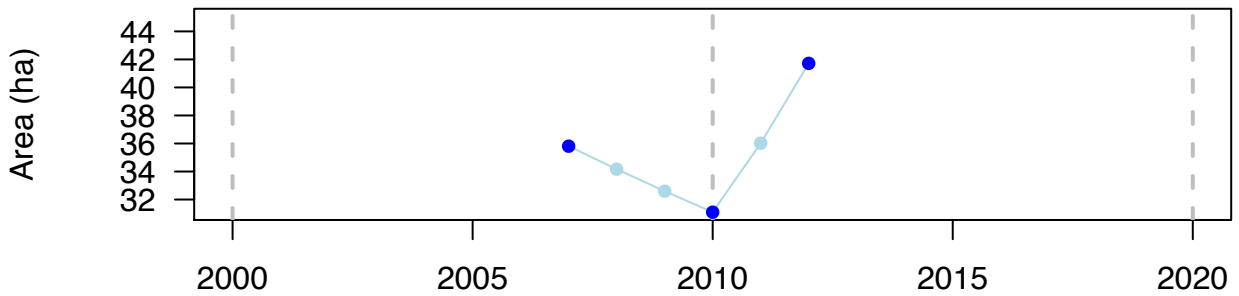
272_area

Wilkes et al. 2017

SITE: Ballysadare Estuary (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = 5.91 ha; Rate = 3.06 % yr⁻¹; Perc Final = 117 % > increase

DECADAL: NO (5 yr)



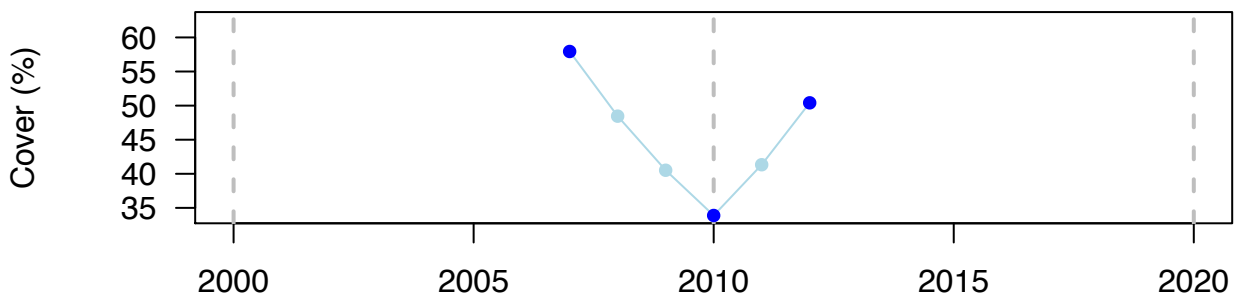
272_cover

Wilkes et al. 2017

SITE: Ballysadare Estuary (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = -7.53 %; Rate = -2.78 % yr⁻¹; Perc Final = 87 % > no change

DECADAL: NO (5 yr)



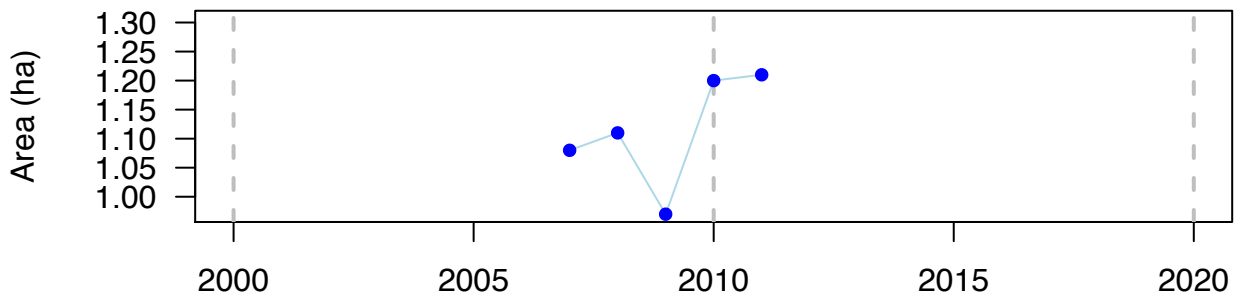
273_area

Wilkes et al. 2017

SITE: Colligan Estuary (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = 0.13 ha; Rate = 2.84 % yr⁻¹; Perc Final = 112 % > increase

DECADAL: NO (4 yr)



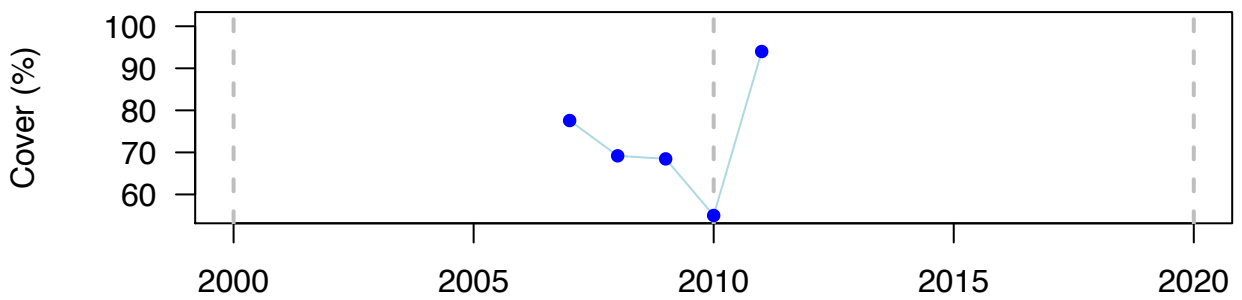
273_cover

Wilkes et al. 2017

SITE: Colligan Estuary (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = 16.42 %; Rate = 4.8 % yr⁻¹; Perc Final = 121 % > no change

DECADAL: NO (4 yr)



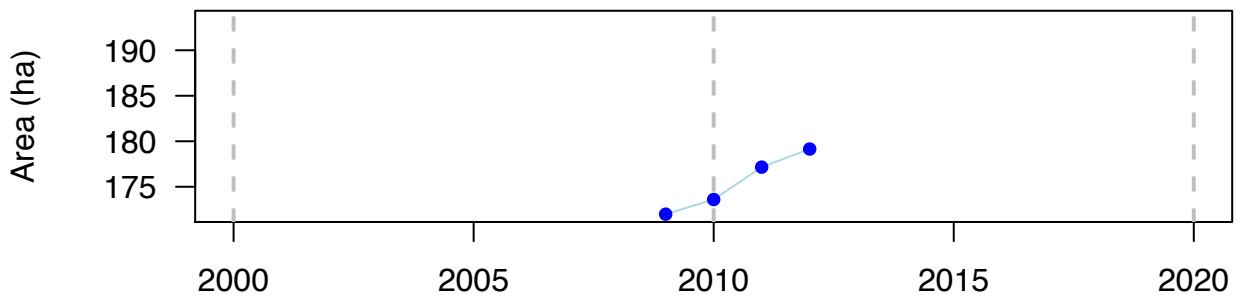
274_area

Wilkes et al. 2017

SITE: Cromane (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = 7.16 ha; Rate = 1.36 % yr⁻¹; Perc Final = 104 % > no change

DECADAL: NO (3 yr)



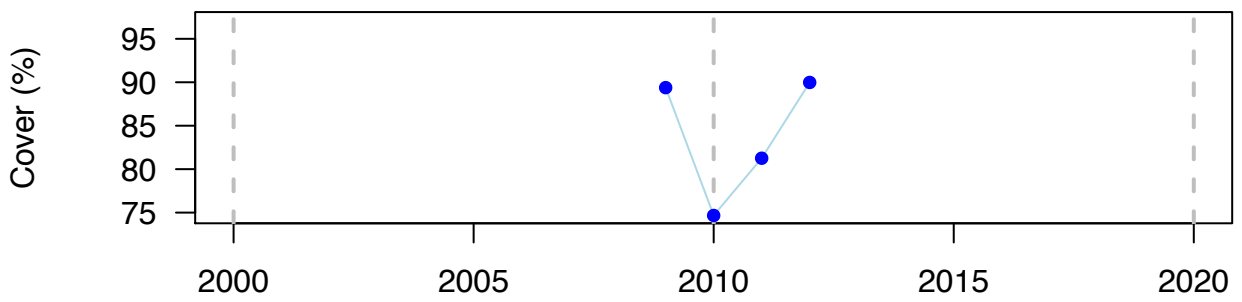
274_cover

Wilkes et al. 2017

SITE: Cromane (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = 0.6 %; Rate = 0.22 % yr⁻¹; Perc Final = 101 % > no change

DECADAL: NO (3 yr)



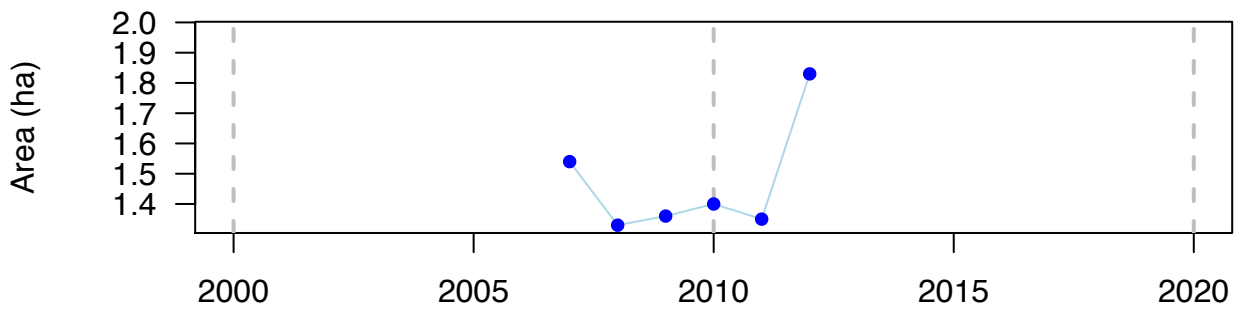
275_area

Wilkes et al. 2017

SITE: Dublin Bay (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = 0.29 ha; Rate = 3.45 % yr⁻¹; Perc Final = 119 % > increase

DECADAL: NO (5 yr)



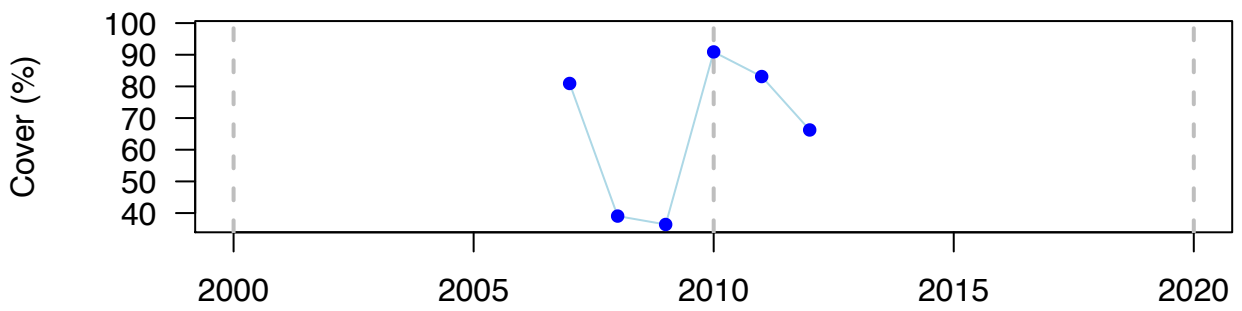
275_cover

Wilkes et al. 2017

SITE: Dublin Bay (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = -14.68 %; Rate = -4 % yr⁻¹; Perc Final = 82 % > no change

DECADAL: NO (5 yr)



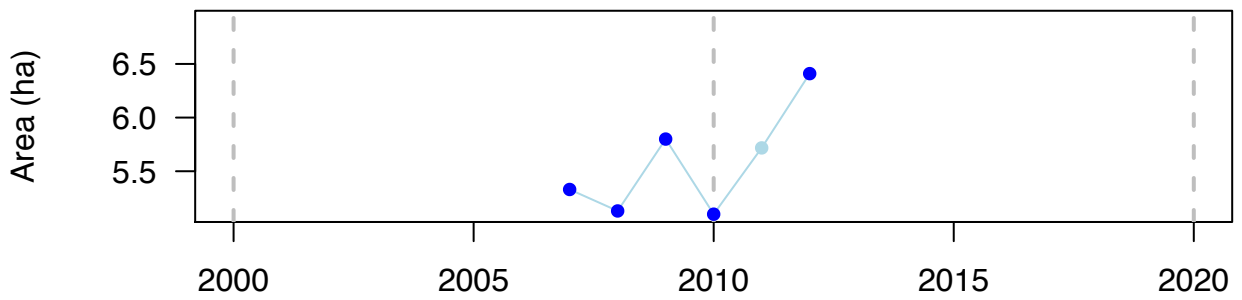
276_area

Wilkes et al. 2017

SITE: Garavoge Estuary (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = 1.08 ha; Rate = 3.69 % yr⁻¹; Perc Final = 120 % > increase

DECADAL: NO (5 yr)



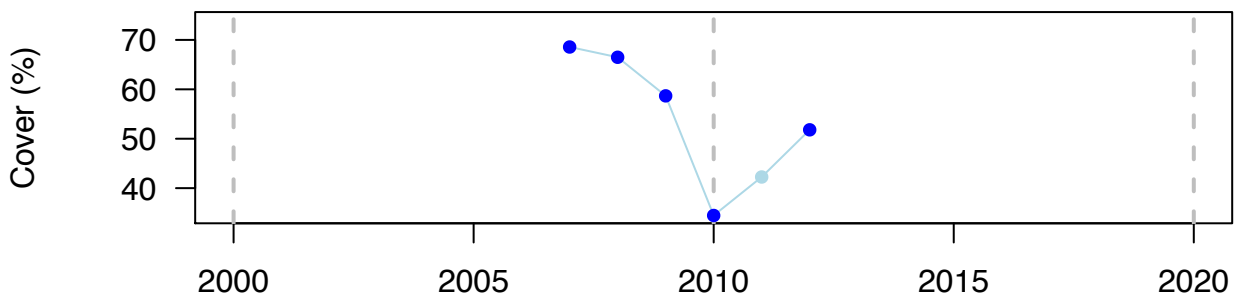
276_cover

Wilkes et al. 2017

SITE: Garavoge Estuary (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = -16.76 %; Rate = -5.61 % yr⁻¹; Perc Final = 76 % > no change

DECADAL: NO (5 yr)



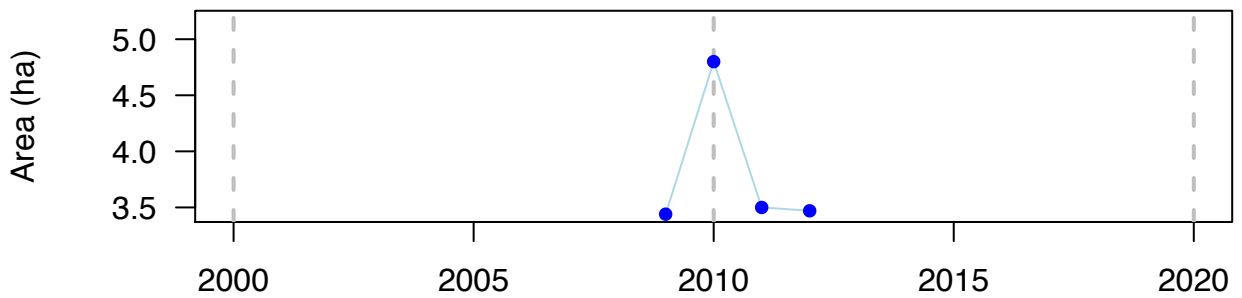
277_area

Wilkes et al. 2017

SITE: Malahide Bay (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = 0.03 ha; Rate = 0.29 % yr⁻¹; Perc Final = 101 % > no change

DECADAL: NO (3 yr)



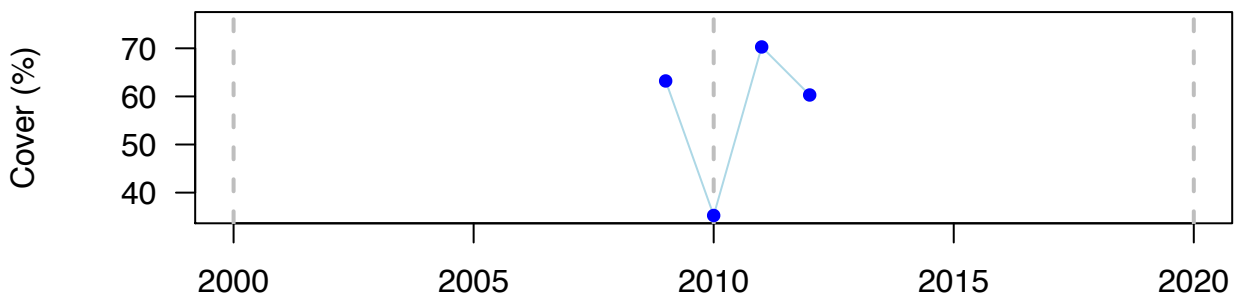
277_cover

Wilkes et al. 2017

SITE: Malahide Bay (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = -2.92 %; Rate = -1.58 % yr⁻¹; Perc Final = 95 % > no change

DECADAL: NO (3 yr)



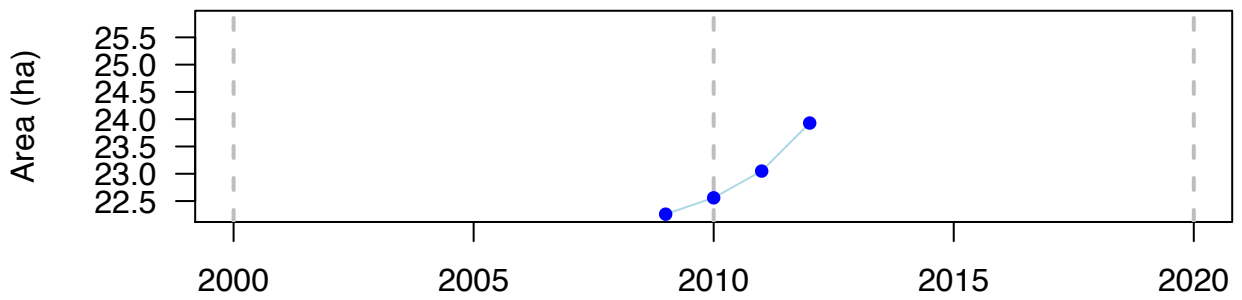
278_area

Wilkes et al. 2017

SITE: Moy Estuary (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = 1.67 ha; Rate = 2.41 % yr⁻¹; Perc Final = 108 % > no change

DECADAL: NO (3 yr)



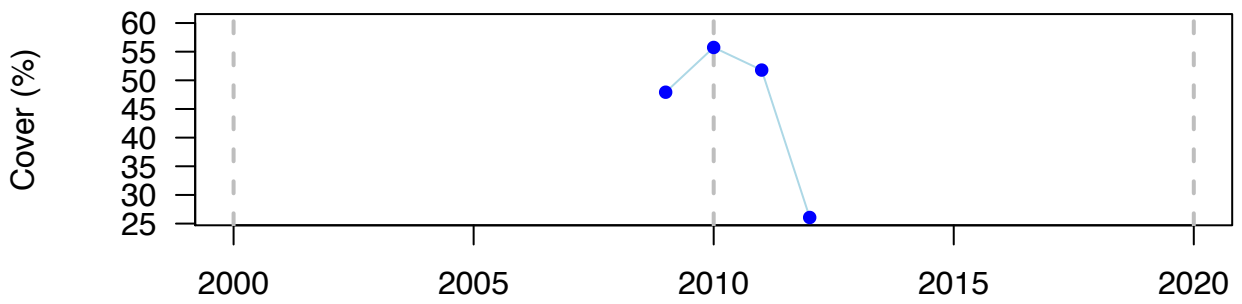
278_cover

Wilkes et al. 2017

SITE: Moy Estuary (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = -21.86 %; Rate = -20.3 % yr⁻¹; Perc Final = 54 % > decrease

DECADAL: NO (3 yr)



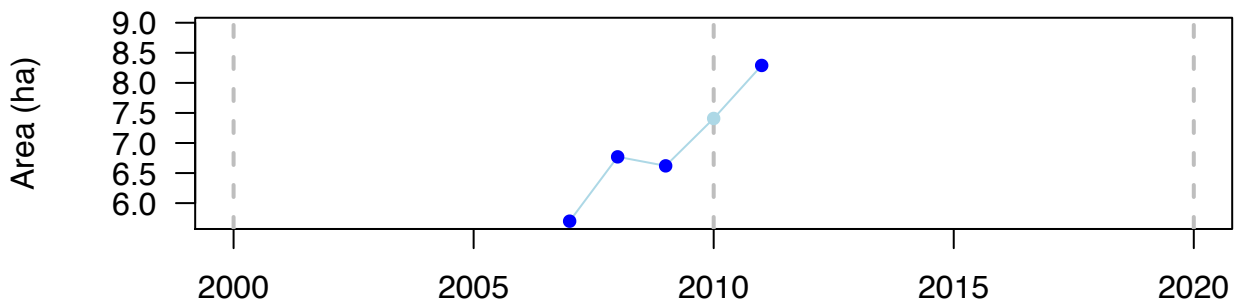
279_area

Wilkes et al. 2017

SITE: Tramore Back Strand (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = 2.59 ha; Rate = 9.36 % yr⁻¹; Perc Final = 145 % > increase

DECADAL: NO (4 yr)



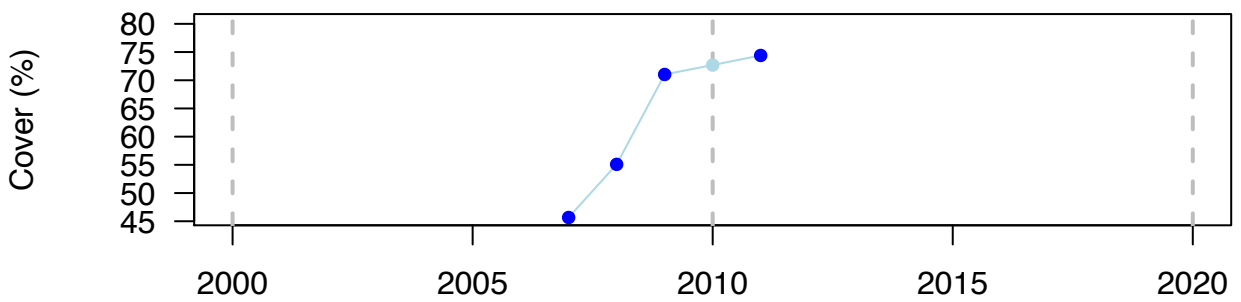
279_cover

Wilkes et al. 2017

SITE: Tramore Back Strand (Ireland – Atlantic) – Zn (? m)

OVERALL: Net = 28.73 %; Rate = 12.2 % yr⁻¹; Perc Final = 163 % > increase

DECADAL: NO (4 yr)



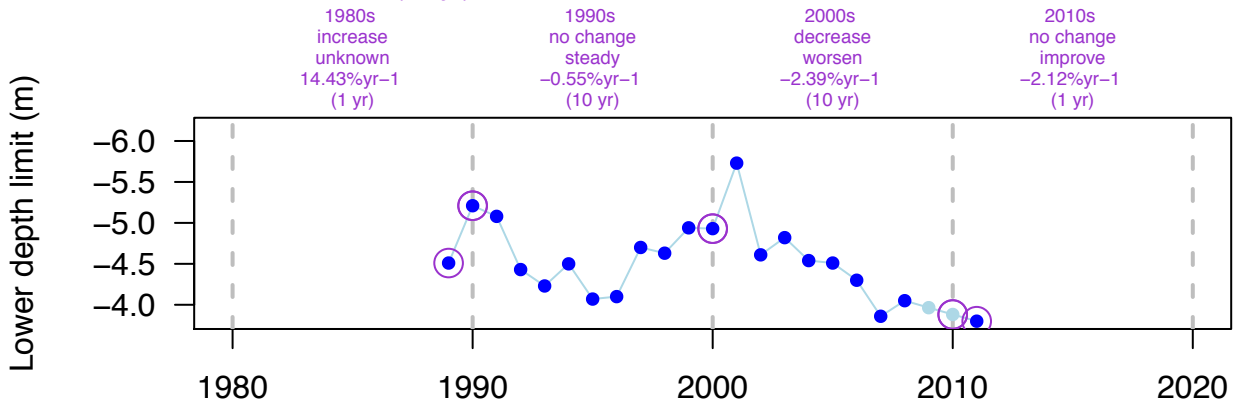
280_lowerlimit

Carstensen and Krause-Jensen 2012

SITE: Aabenraa Fjord (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -0.71 m; Rate = -0.78 % yr⁻¹; Perc Final = 84 % > decrease

DECADAL: YES (22 yr)



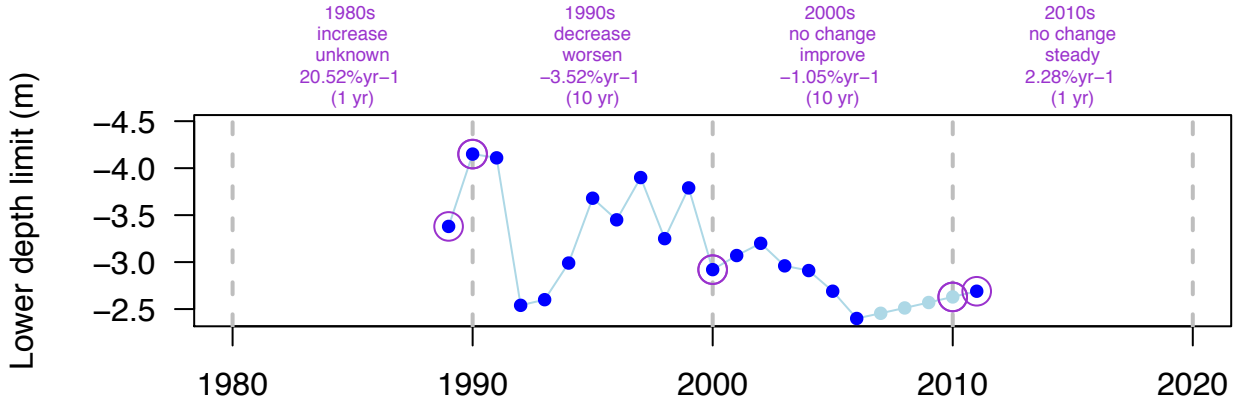
281_lowerlimit

Carstensen and Krause-Jensen 2012

SITE: Als Sund (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -0.69 m; Rate = -1.04 % yr⁻¹; Perc Final = 80 % > decrease

DECADAL: YES (22 yr)



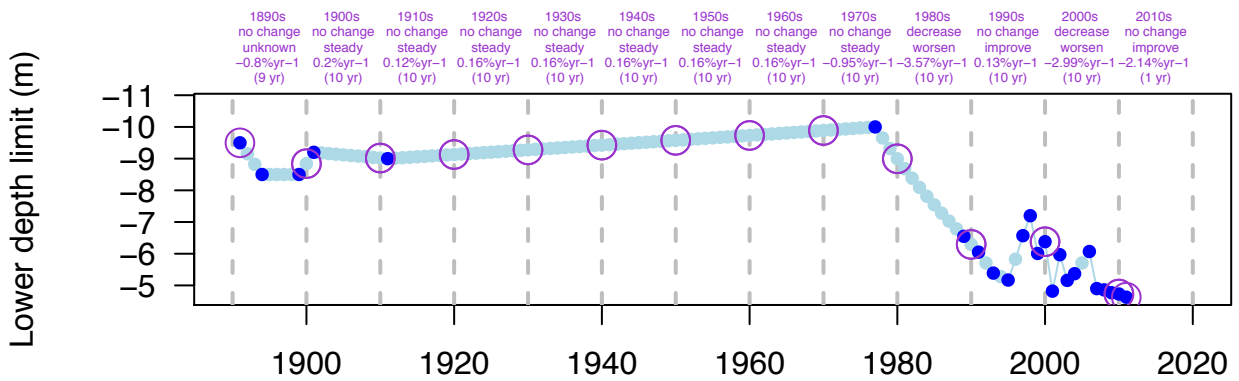
282_lowerlimit

Krause-Jensen and Rasmussen 2009, Carstensen and Krause-Jensen 2012

SITE: Århus Bugt (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -4.87 m; Rate = -0.6 % yr⁻¹; Perc Final = 49 % > decrease

DECADAL: YES (120 yr)



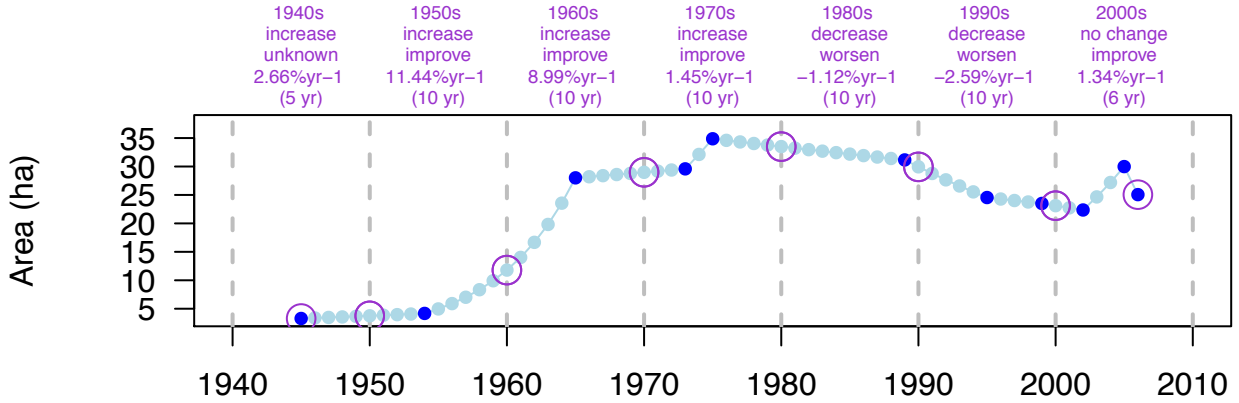
283_area

Vinther (unpublished)

SITE: Flensborg Fjord (Brunsnæs) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = 21.77 ha; Rate = 3.33 % yr⁻¹; Perc Final = 762 % > increase

DECADAL: YES (61 yr)



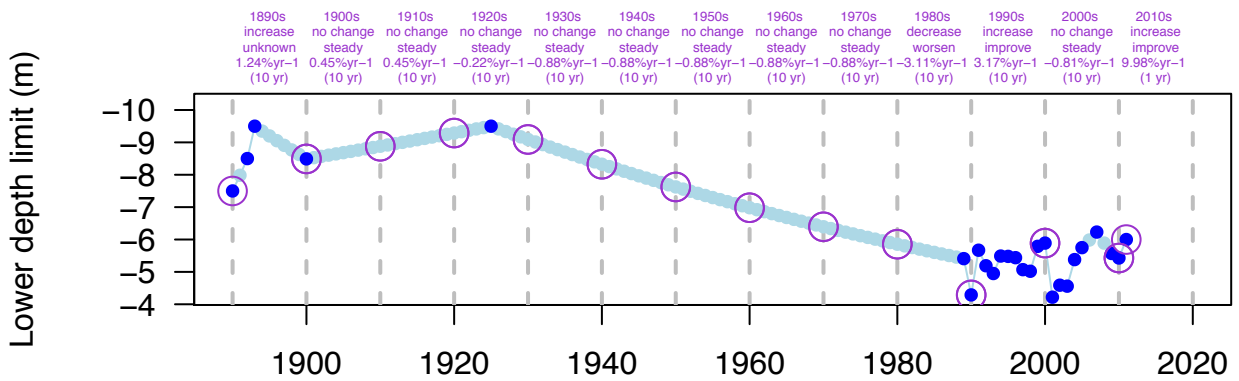
284_lowerlimit

Carstensen and Krause-Jensen 2012

SITE: Det Sydfynske Øhav (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -1.5 m; Rate = -0.18 % yr⁻¹; Perc Final = 80 % > decrease

DECADAL: YES (121 yr)



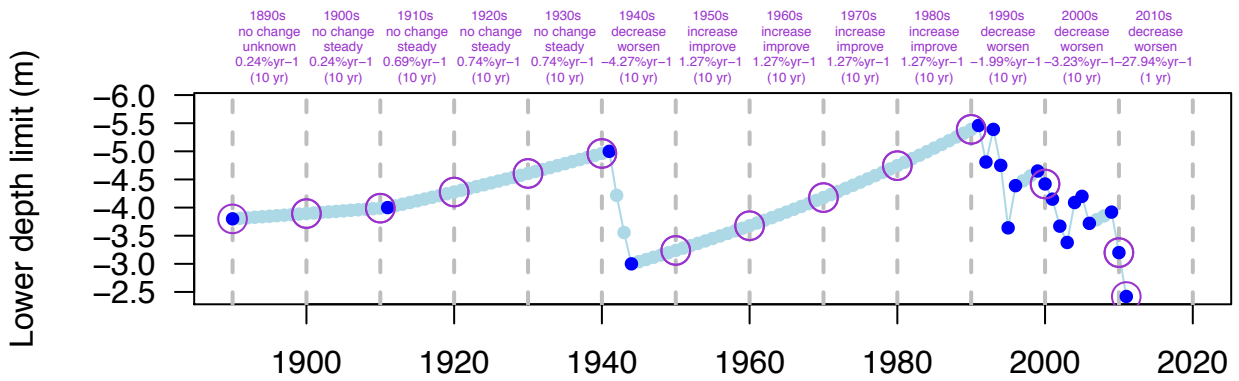
287_lowerlimit

Krause-Jensen and Rasmussen 2009, Carstensen and Krause-Jensen 2012

SITE: Isefjord (Inderbredning) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -1.38 m; Rate = -0.37 % yr⁻¹; Perc Final = 64 % > decrease

DECADAL: YES (121 yr)



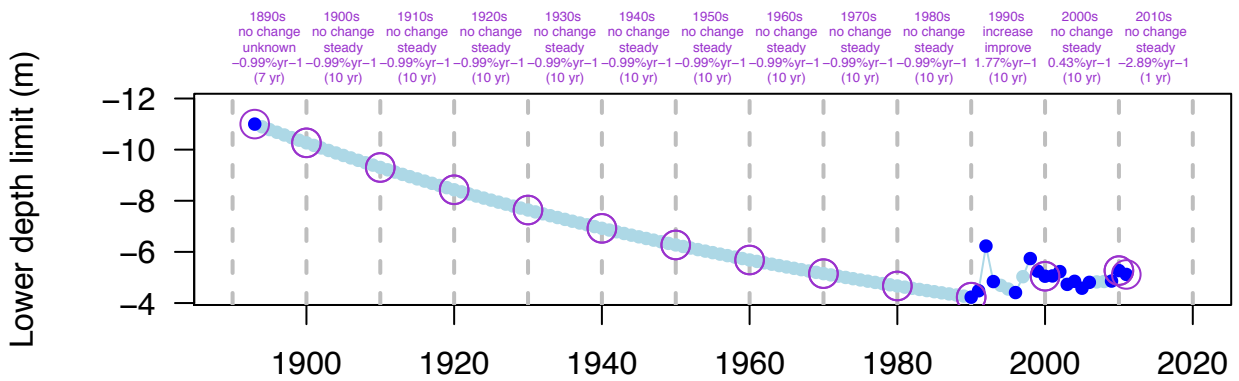
288_lowerlimit

Carstensen and Krause-Jensen 2012

SITE: Isefjord (Inderbredning) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -5.88 m; Rate = -0.65 % yr⁻¹; Perc Final = 47 % > decrease

DECADAL: YES (118 yr)



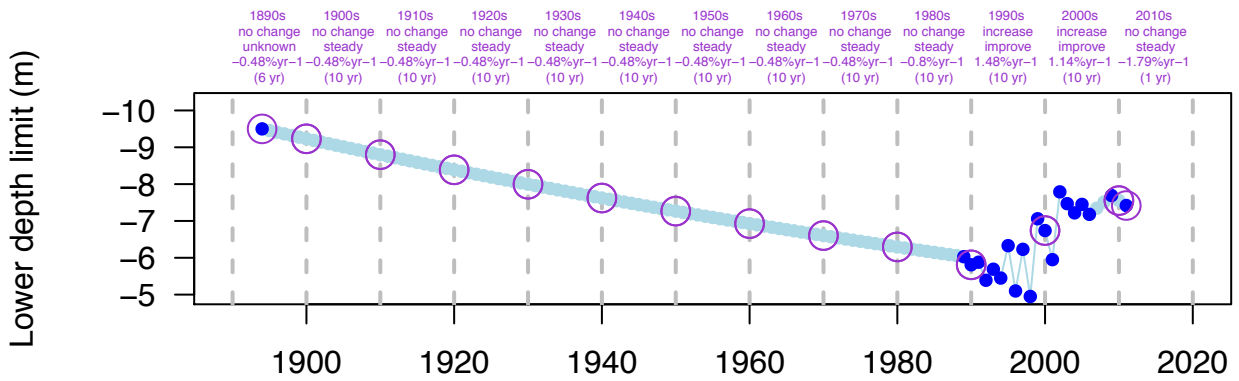
289_lowerlimit

Carstensen and Krause-Jensen 2012

SITE: Køge Bugt (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -2.08 m; Rate = -0.21 % yr⁻¹; Perc Final = 78 % > decrease

DECADAL: YES (117 yr)



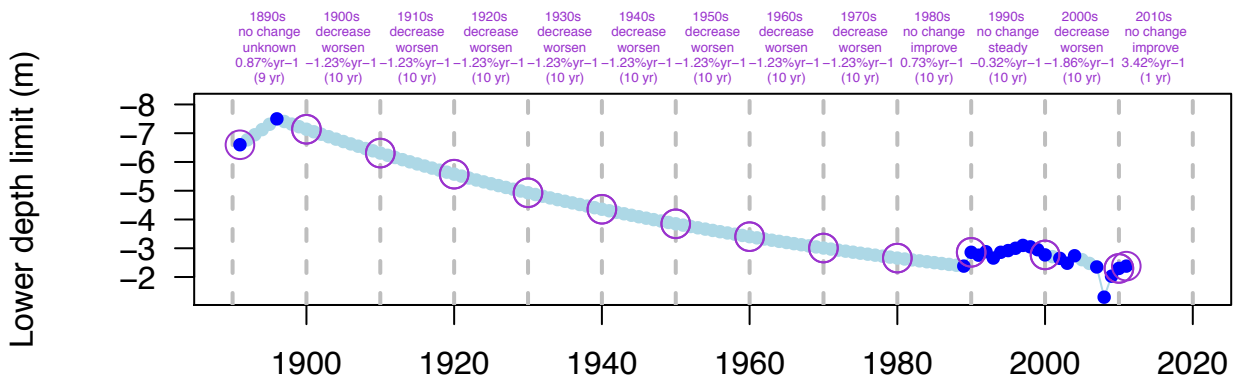
290_lowerlimit

Carstensen and Krause-Jensen 2012

SITE: Kolding Fjord (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -4.22 m; Rate = -0.85 % yr⁻¹; Perc Final = 36 % > decrease

DECADAL: YES (120 yr)



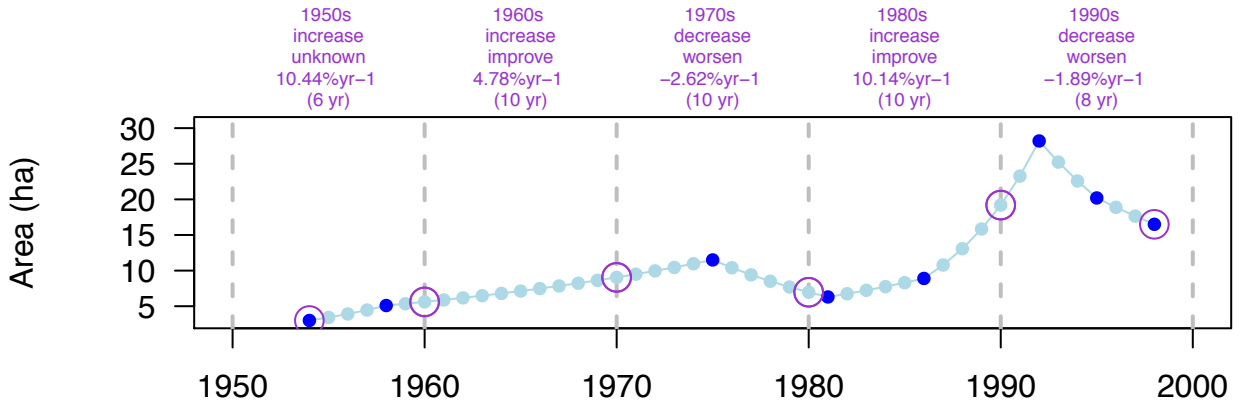
291_area

Frederiksen et al. 2004

SITE: Limfjorden (Boddum Vig) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = 13.5 ha; Rate = 3.87 % yr⁻¹; Perc Final = 550 % > increase

DECADAL: YES (44 yr)



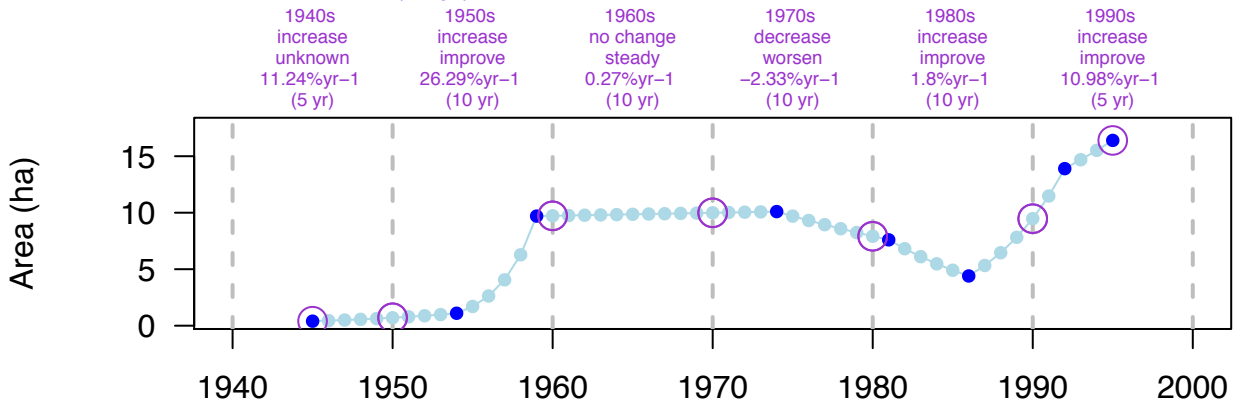
292_area

Frederiksen et al. 2004

SITE: Limfjorden (Holmstange) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = 16 ha; Rate = 7.43 % yr⁻¹; Perc Final = 4100 % > increase

DECADAL: YES (50 yr)



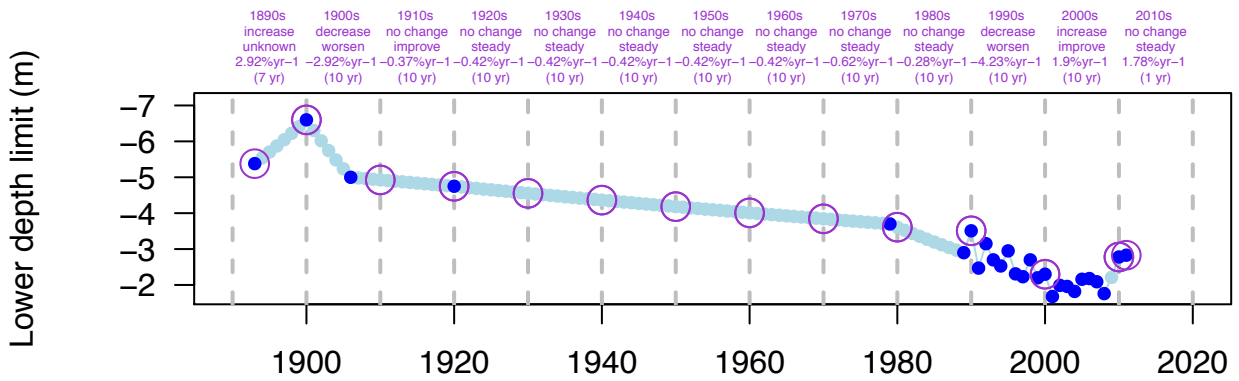
293_lowerlimit

Krause-Jensen and Rasmussen 2009, Carstensen and Krause-Jensen 2012

SITE: Løgstør Bredning (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -2.55 m; Rate = -0.54 % yr⁻¹; Perc Final = 53 % > decrease

DECADAL: YES (118 yr)



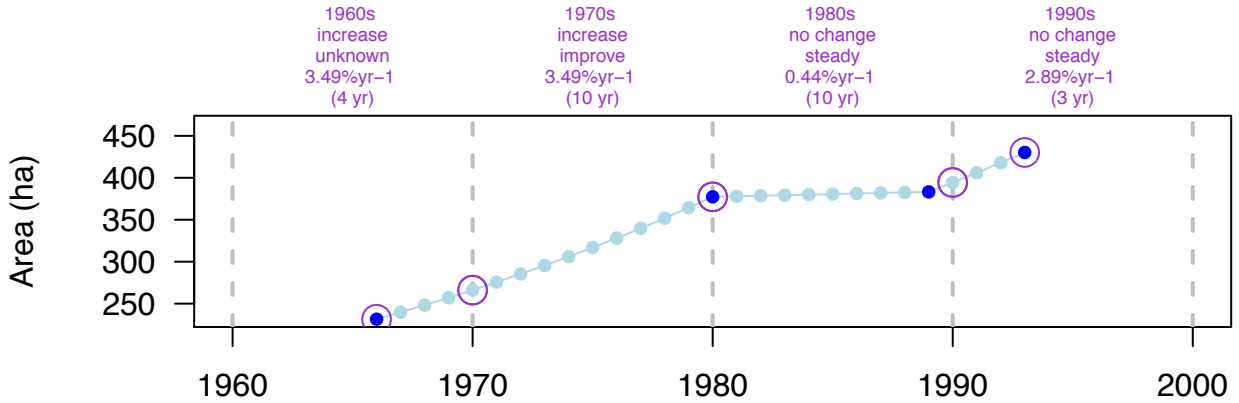
294_area

Laursen (unpublished)

SITE: Mariager Fjord (Denmark – Baltic) – Zm (? m)

OVERALL: Net = 198.7 ha; Rate = 2.3 % yr⁻¹; Perc Final = 186 % > increase

DECADAL: YES (27 yr)



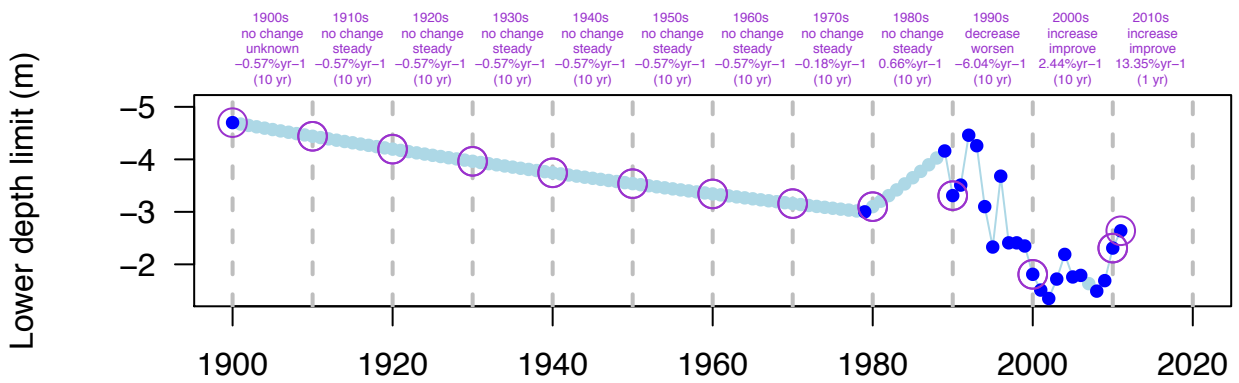
295_lowerlimit

Krause-Jensen and Rasmussen 2009, Carstensen and Krause-Jensen 2012

SITE: Nibe Gjøl Bredning (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -2.06 m; Rate = -0.52 % yr⁻¹; Perc Final = 56 % > decrease

DECADAL: YES (111 yr)



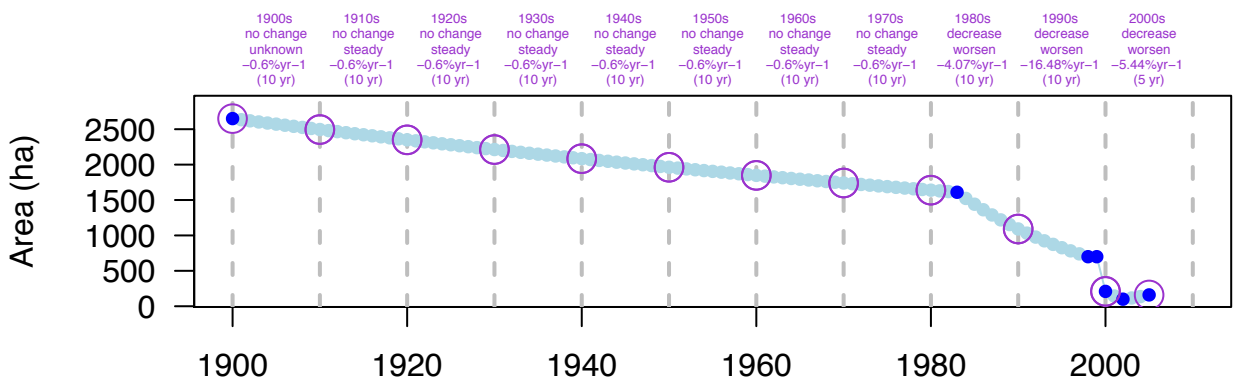
296_area

Josefson et al. 2009, Carstensen and Krause-Jensen 2012

SITE: Odense Fjord (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -2490 ha; Rate = -2.67 % yr⁻¹; Perc Final = 6 % > decrease

DECADAL: YES (105 yr)



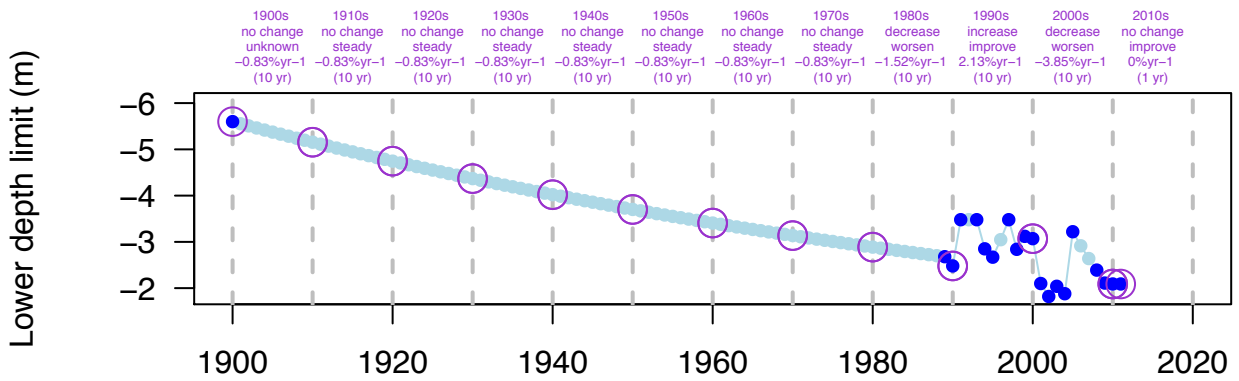
296_lowerlimit

Josefson et al. 2009, Carstensen and Krause-Jensen 2012

SITE: Odense Fjord (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -3.51 m; Rate = -0.89 % yr⁻¹; Perc Final = 37 % > decrease

DECADAL: YES (111 yr)



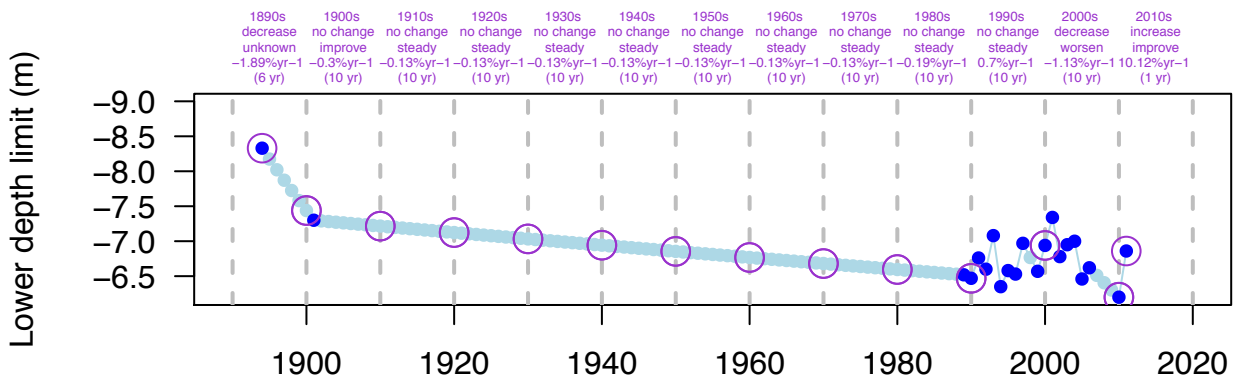
297_lowerlimit

Krause-Jensen and Rasmussen 2009, Carstensen and Krause-Jensen 2012

SITE: Øresund (entire) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -1.47 m; Rate = -0.17 % yr⁻¹; Perc Final = 82 % > decrease

DECADAL: YES (117 yr)



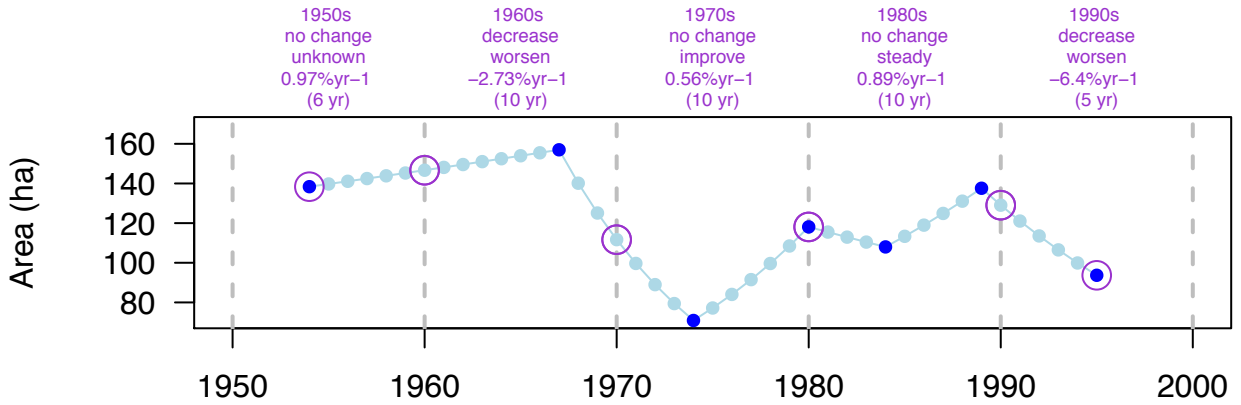
298_area

Frederiksen et al. 2004

SITE: Øresund (Amager) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -44.7 ha; Rate = -0.95 % yr⁻¹; Perc Final = 68 % > decrease

DECADAL: YES (41 yr)



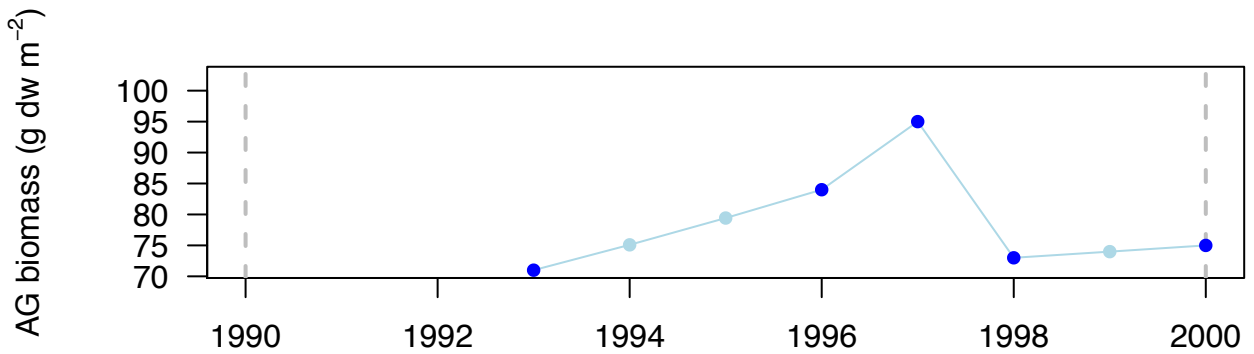
299_abiomass

Krause-Jensen et al. 2000

SITE: Saltholm (control) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = 4 g dw m⁻²; Rate = 0.78 % yr⁻¹; Perc Final = 106 % > no change

DECADAL: NO (7 yr)



299_density

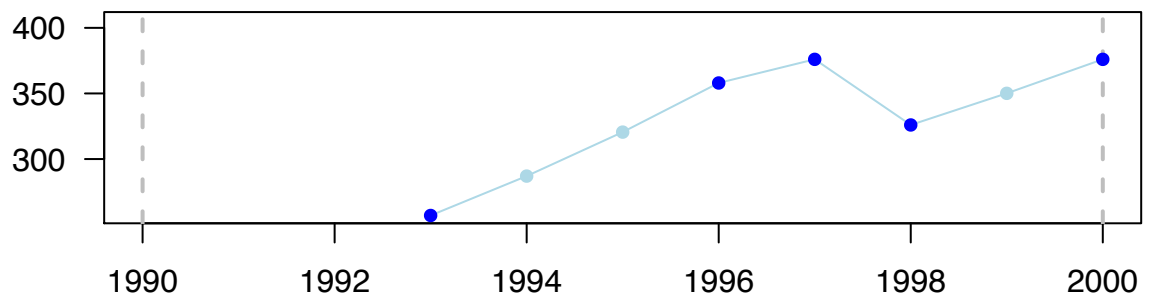
Krause-Jensen et al. 2000

SITE: Saltholm (control) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = 119 shoot m⁻²; Rate = 5.44 % yr⁻¹; Perc Final = 146 % > increase

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



300_abiomass

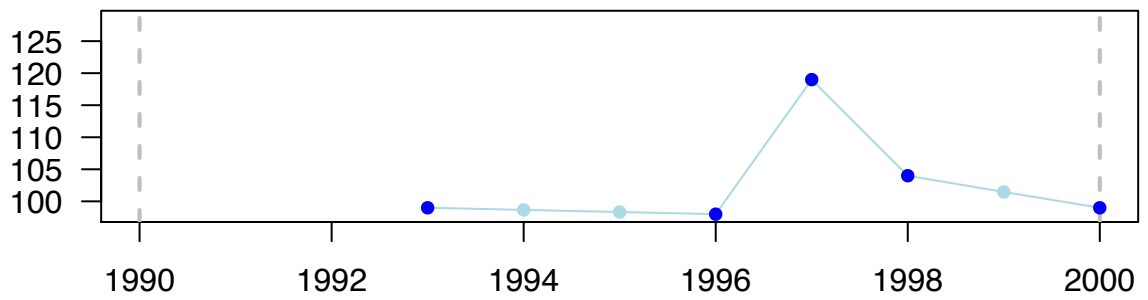
Krause-Jensen et al. 2000

SITE: Saltholm (impacted) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = 0 g dw m⁻²; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (7 yr)

AG biomass (g dw m⁻²)



300_density

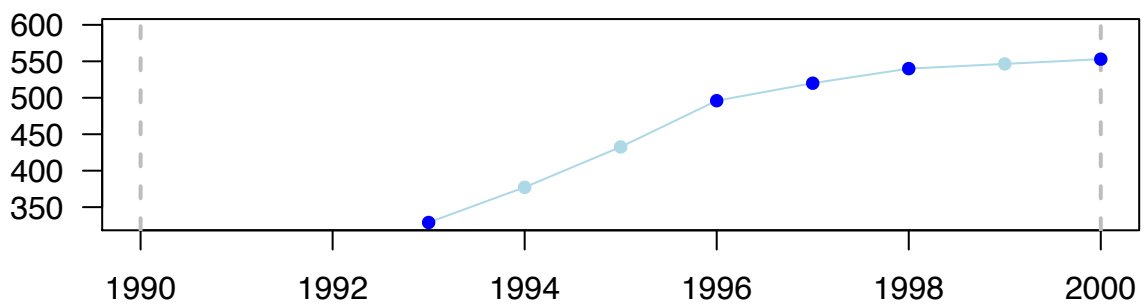
Krause-Jensen et al. 2000

SITE: Saltholm (impacted) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = 224 shoot m⁻²; Rate = 7.42 % yr⁻¹; Perc Final = 168 % > increase

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



301_lowerlimit

Krause-Jensen and Rasmussen 2009, Carstensen and Krause-Jensen 2012

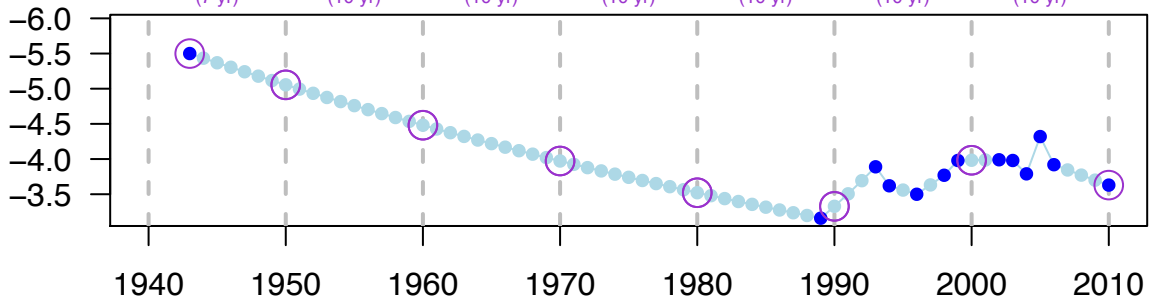
SITE: Præstø Fjord (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -1.87 m; Rate = -0.62 % yr⁻¹; Perc Final = 66 % > decrease

DECADAL: YES (67 yr)

Decade	Change	Rate	Period
1940s	no change	unknown	(7 yr)
1950s	decrease	worsen	-1.2%yr ⁻¹ (10 yr)
1960s	decrease	worsen	-1.2%yr ⁻¹ (10 yr)
1970s	decrease	worsen	-1.2%yr ⁻¹ (10 yr)
1980s	no change	improve	-0.56%yr ⁻¹ (10 yr)
1990s	increase	improve	1.8%yr ⁻¹ (10 yr)
2000s	no change	steady	-0.93%yr ⁻¹ (10 yr)

Lower depth limit (m)



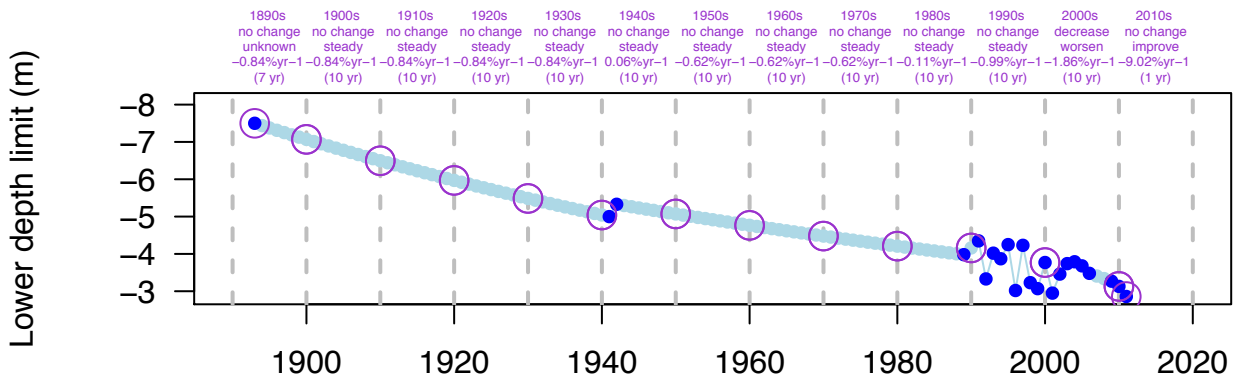
302_lowerlimit

Carstensen and Krause-Jensen 2012

SITE: Roskilde Fjord (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -4.64 m; Rate = -0.82 % yr⁻¹; Perc Final = 38 % > decrease

DECADAL: YES (118 yr)



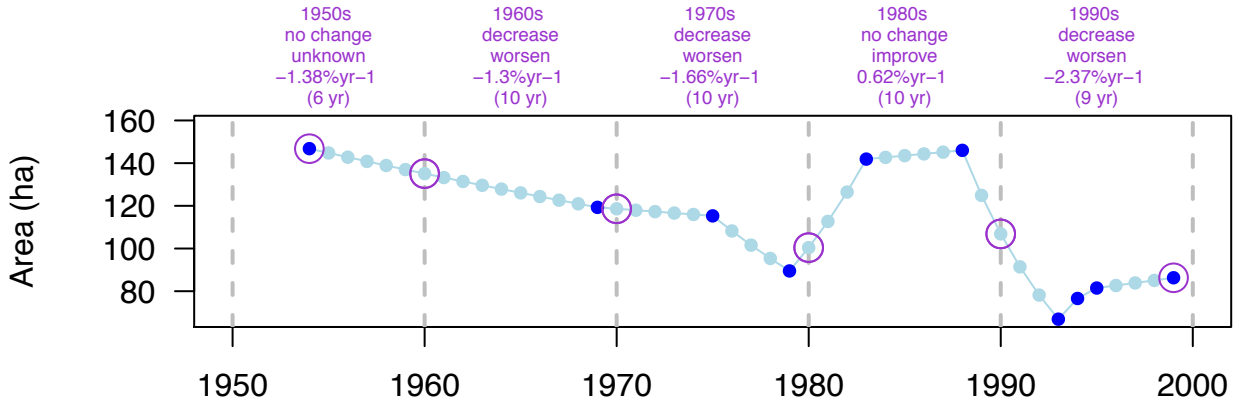
303_area

Frederiksen et al. 2004

SITE: Samsø (Stavns Fjord) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -60.5 ha; Rate = -1.18 % yr⁻¹; Perc Final = 59 % > decrease

DECADAL: YES (45 yr)



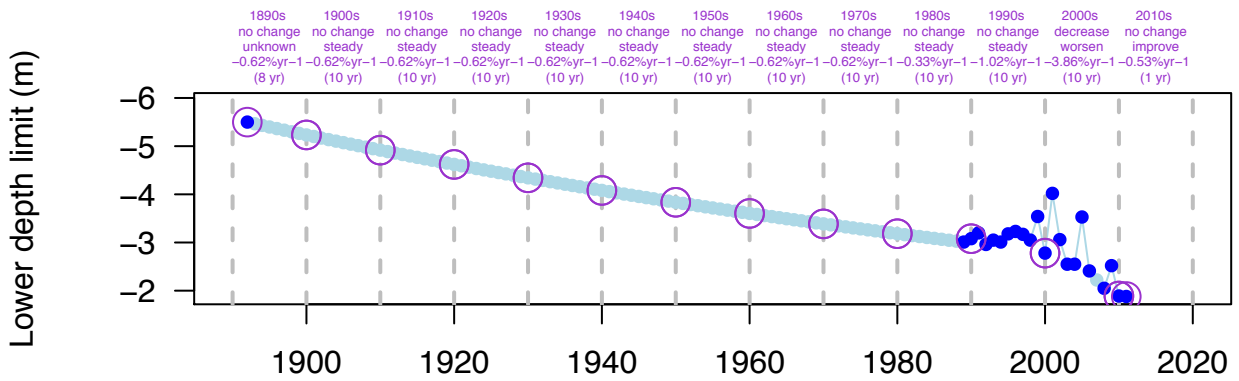
306_lowerlimit

Carstensen and Krause-Jensen 2012

SITE: Vejle Fjord (Denmark – Baltic) – Zm (? m)

OVERALL: Net = -3.62 m; Rate = -0.9 % yr⁻¹; Perc Final = 34 % > decrease

DECADAL: YES (119 yr)



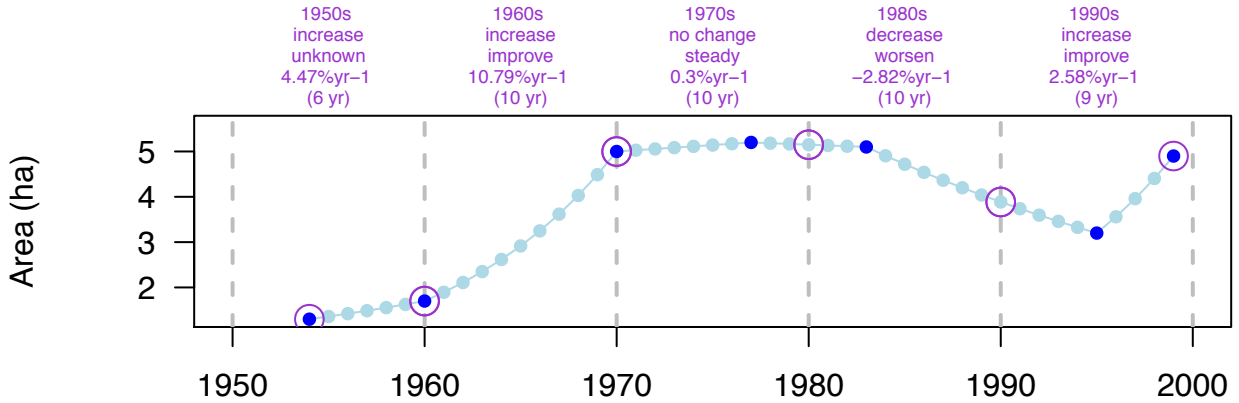
307_area

Frederiksen et al. 2004

SITE: Vejle Fjord (outer) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = 3.6 ha; Rate = 2.95 % yr⁻¹; Perc Final = 377 % > increase

DECADAL: YES (45 yr)



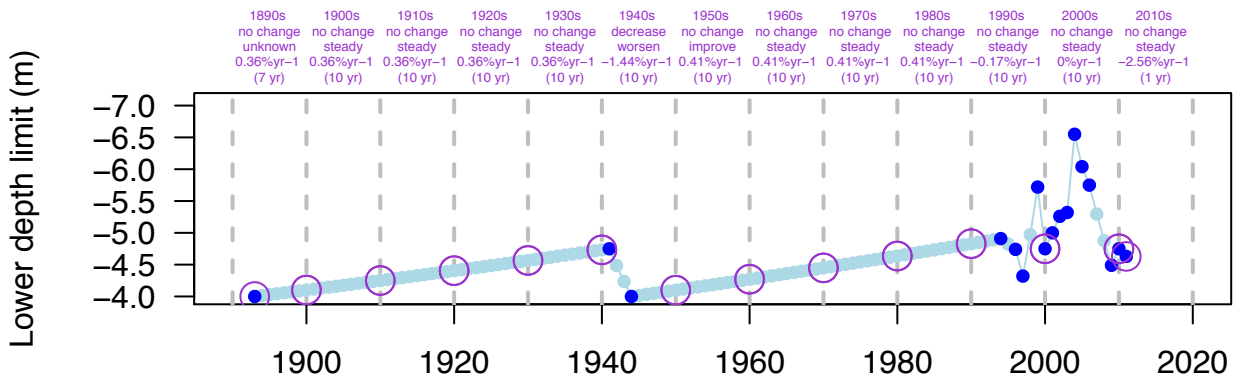
308_lowerlimit

Carstensen and Krause-Jensen 2012

SITE: Isefjord (Yderbredning) (Denmark – Baltic) – Zm (? m)

OVERALL: Net = 0.63 m; Rate = 0.12 % yr⁻¹; Perc Final = 116 % > increase

DECADAL: YES (118 yr)



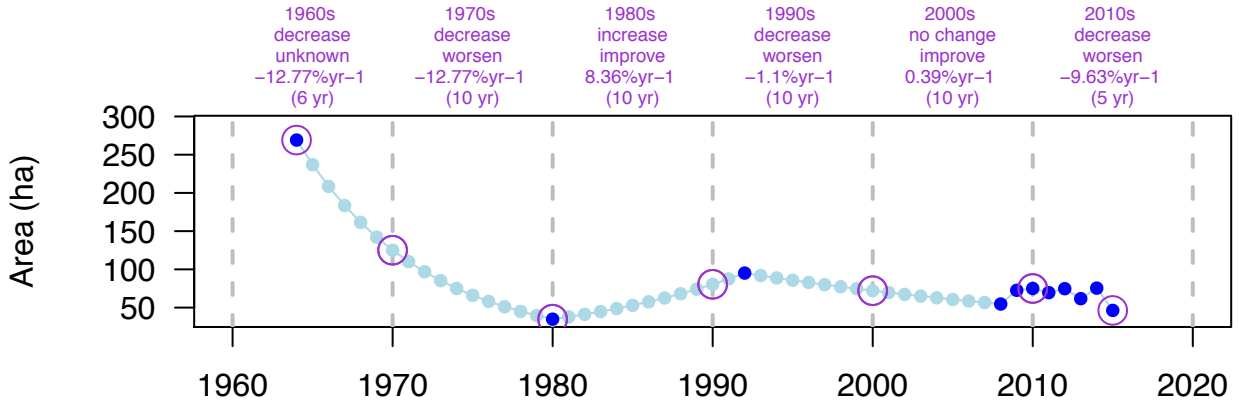
309_area

van der Graaf et al. 2009, Vinther (unpublished), Dolch et al. 2017

SITE: Grådyb (Denmark – Atlantic) – Zm (-0.2 m)

OVERALL: Net = -222.818 ha; Rate = -3.45 % yr⁻¹; Perc Final = 17 % > decrease

DECADAL: YES (51 yr)



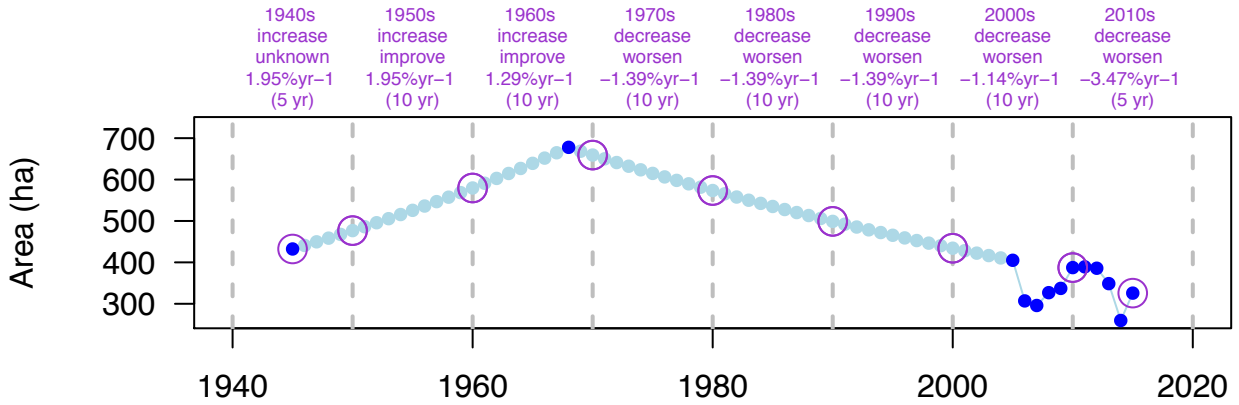
310_area

van der Graaf et al. 2009, Vinther (unpublished), Dolch et al. 2017

SITE: Juvre Dyb (Denmark – Atlantic) – Zm (0 m)

OVERALL: Net = -106.604 ha; Rate = -0.4 % yr⁻¹; Perc Final = 75 % > decrease

DECADAL: YES (70 yr)



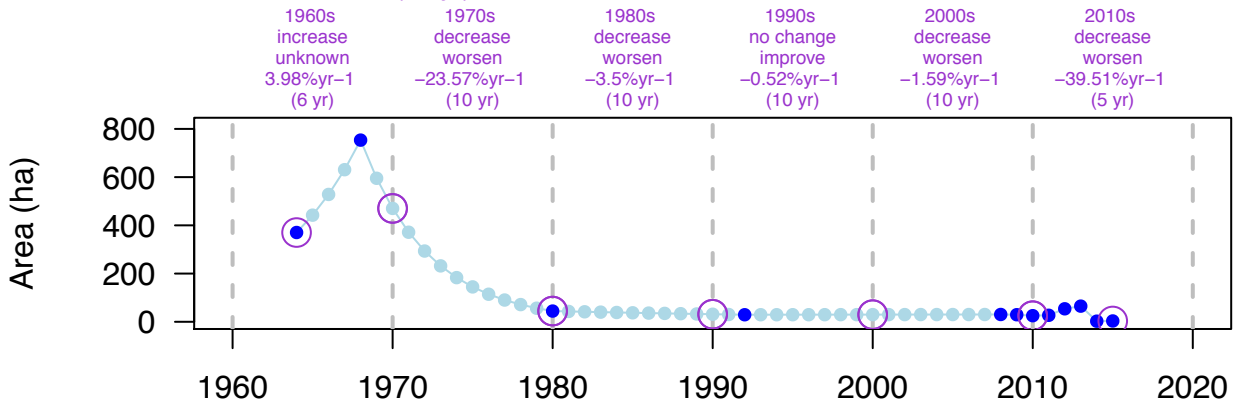
311_area

van der Graaf et al. 2009, Vinther (unpublished), Dolch et al. 2017

SITE: Knude Dyb (Denmark – Atlantic) – Zm (-0.2 m)

OVERALL: Net = -366.826 ha; Rate = -9.13 % yr⁻¹; Perc Final = 1 % > decrease

DECADAL: YES (51 yr)



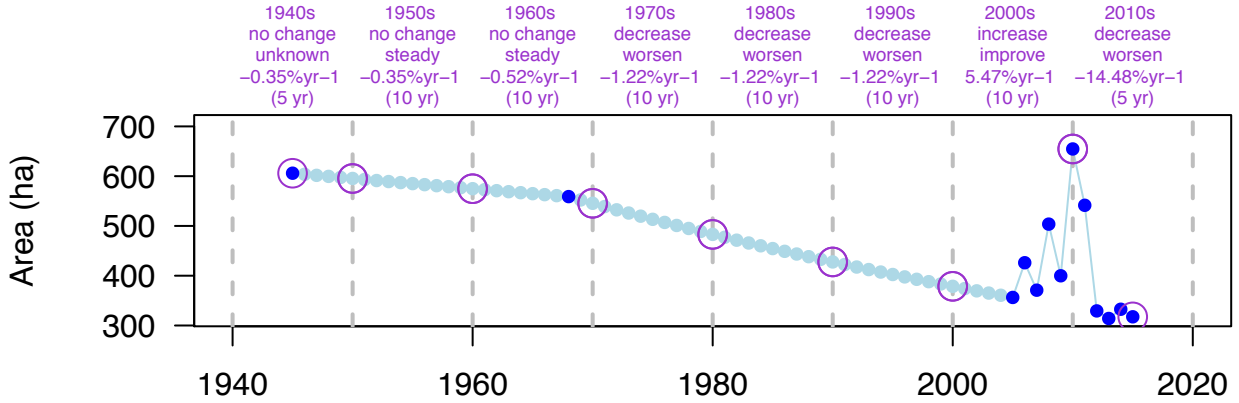
312_area

van der Graaf et al. 2009, Vinther (unpublished), Dolch et al. 2017

SITE: Lister Dyb (Denmark – Atlantic) – Zm (–0.2 m)

OVERALL: Net = –288.493 ha; Rate = –0.92 % yr⁻¹; Perc Final = 52 % > decrease

DECADAL: YES (70 yr)



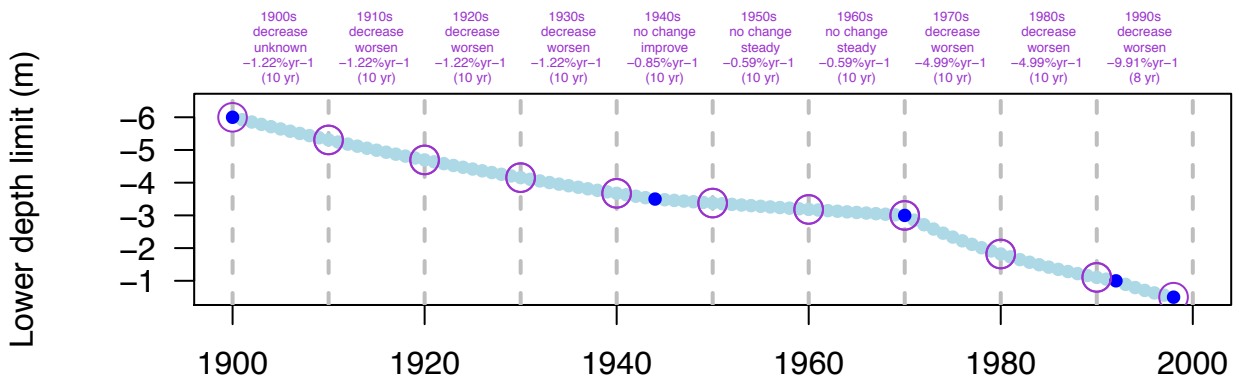
314_lowerlimit

Bernard et al. 2007

SITE: Berre Lagoon (France – Mediterranean) – Zm (? m)

OVERALL: Net = –5.5 m; Rate = –2.54 % yr⁻¹; Perc Final = 8 % > decrease

DECADAL: YES (98 yr)



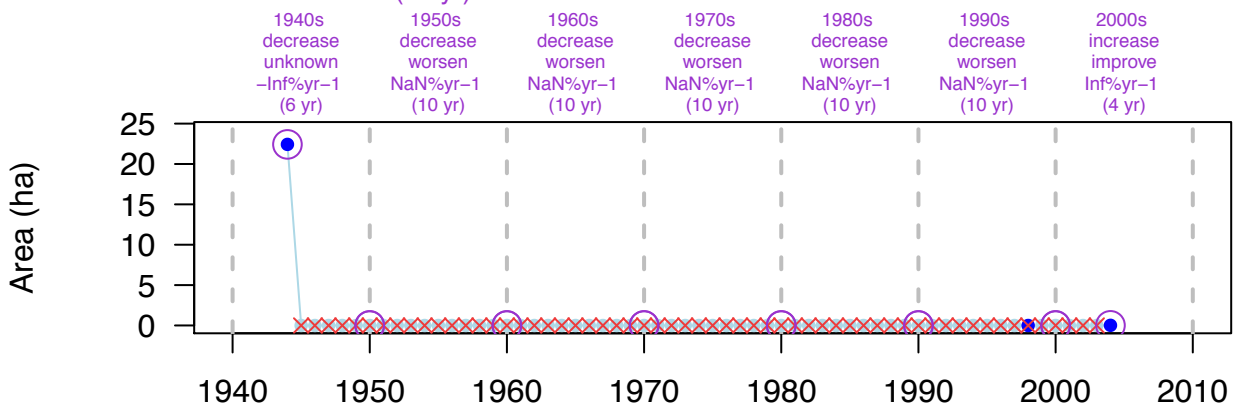
315_area

Bernard et al. 2007

SITE: Berre Lagoon (Figuerolles) (France – Mediterranean) – Zm (? m)

OVERALL: Net = -22.41 ha; Rate = -11.7 % yr⁻¹; Perc Final = 0 % > decrease

DECADAL: YES (60 yr)



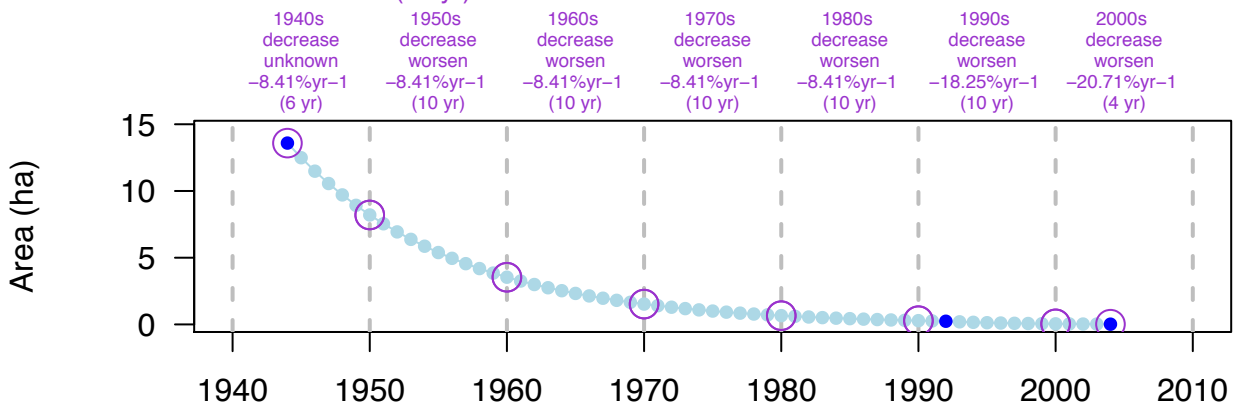
316_area

Bernard et al. 2007

SITE: Berre Lagoon (Martigues) (France – Mediterranean) – Zm (? m)

OVERALL: Net = -13.57 ha; Rate = -10.87 % yr⁻¹; Perc Final = 0 % > decrease

DECADAL: YES (60 yr)



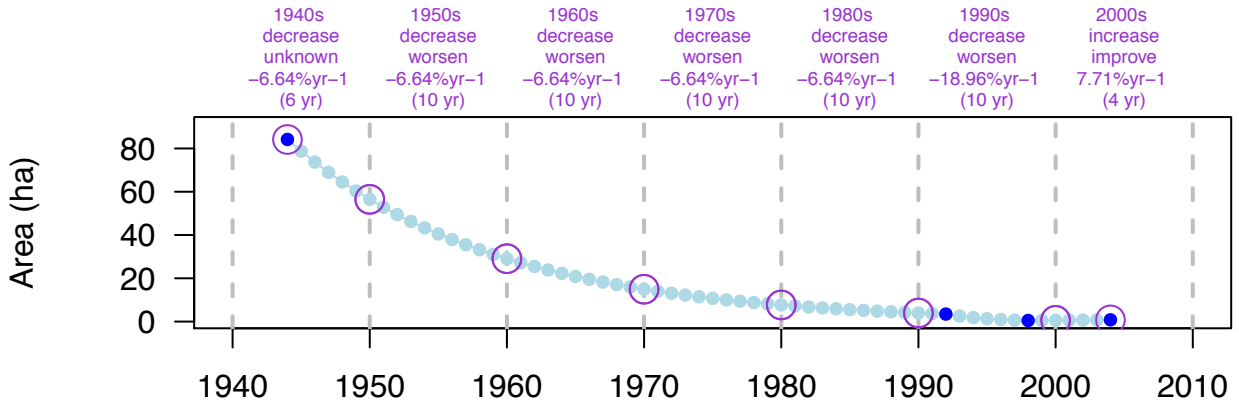
317_area

Bernard et al. 2007

SITE: Berre Lagoon (Pointe de Berre) (France – Mediterranean) – Zm (? m)

OVERALL: Net = -83.36 ha; Rate = -7.74 % yr⁻¹; Perc Final = 1 % > decrease

DECADAL: YES (60 yr)



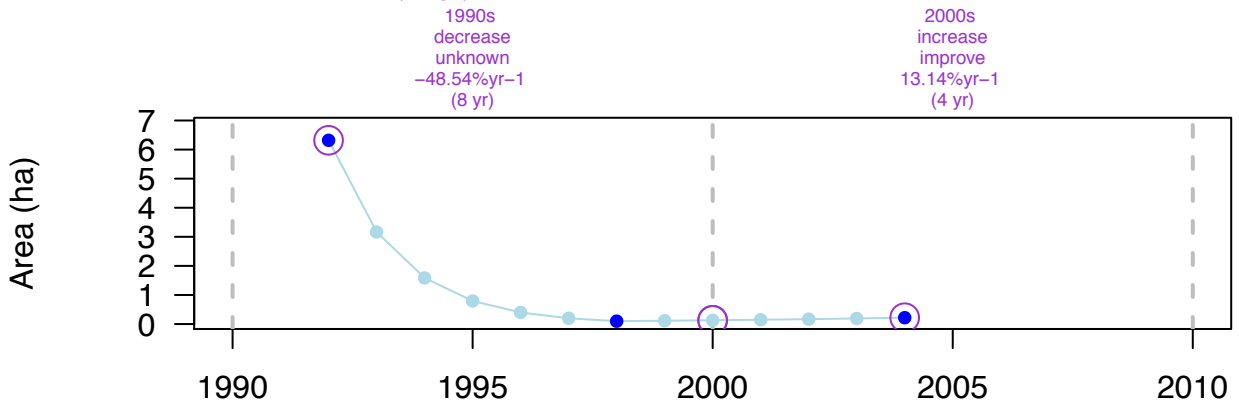
318_area

Bernard et al. 2007

SITE: Berre Lagoon (Pointe de l'Arc) (France – Mediterranean) – Zm (? m)

OVERALL: Net = -6.1 ha; Rate = -27.98 % yr⁻¹; Perc Final = 3 % > decrease

DECADAL: YES (12 yr)



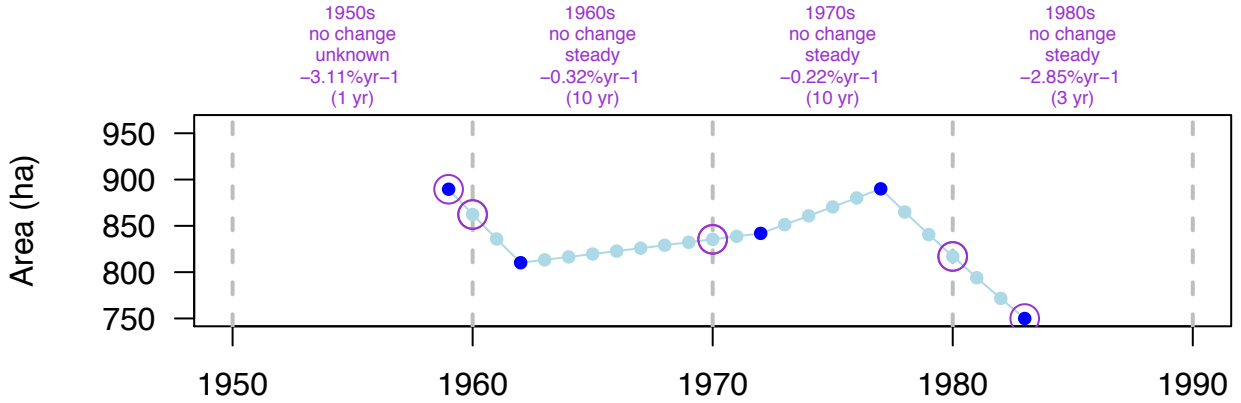
319_area

Astier 1984, Bourcier 1996, 1989, Picard and Bourcier 1976, Picard 1978

SITE: La Ciotat – Les Leques (France – Mediterranean) – Po (? m)

OVERALL: Net = -139.56 ha; Rate = -0.71 % yr⁻¹; Perc Final = 84 % > decrease

DECADAL: YES (24 yr)



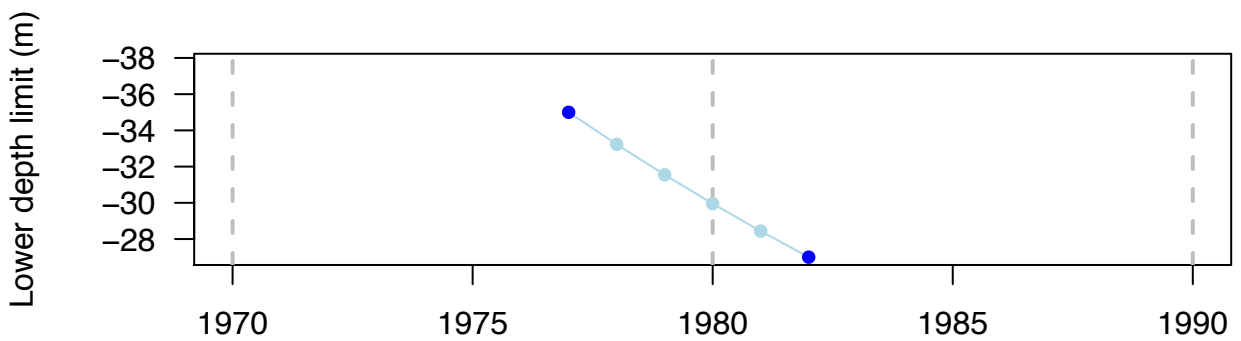
319_lowerlimit

Astier 1984, Bourcier 1996, 1989, Picard and Bourcier 1976, Picard 1978

SITE: La Ciotat – Les Leques (France – Mediterranean) – Po (? m)

OVERALL: Net = -8 m; Rate = -5.19 % yr⁻¹; Perc Final = 77 % > decrease

DECADAL: NO (5 yr)



321_cover

Bonhomme et al. 2010

SITE: La Palud Cove (France – Mediterranean) – Po (-34 m)

OVERALL: Net = -7.8 %; Rate = -6.36 % yr⁻¹; Perc Final = 68 % > decrease

DECADAL: NO (6 yr)



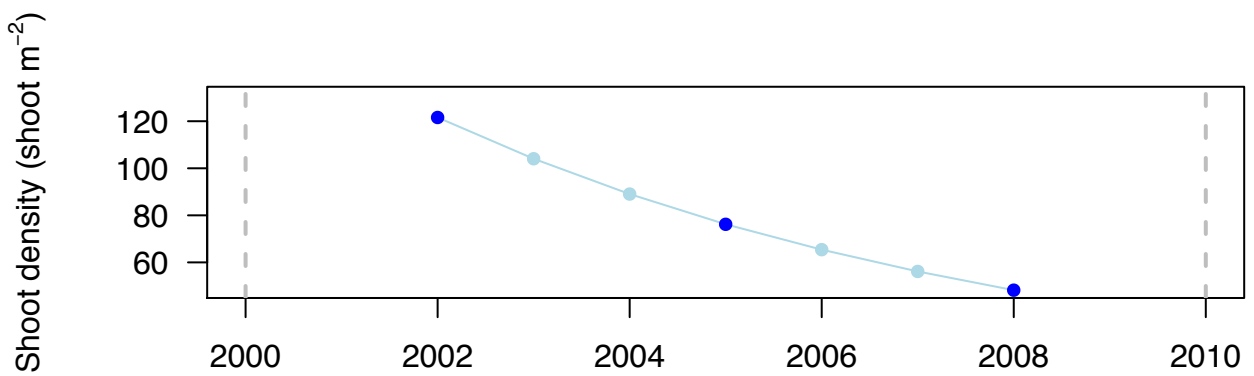
321_density

Bonhomme et al. 2010

SITE: La Palud Cove (France – Mediterranean) – Po (-34 m)

OVERALL: Net = -73.4 shoot m⁻²; Rate = -15.42 % yr⁻¹; Perc Final = 40 % > decrease

DECADAL: NO (6 yr)



322_cover

Bonhomme et al. 2010

SITE: Vaisseau – Tuf (France – Mediterranean) – Po (-34 m)

OVERALL: Net = -18.4 %; Rate = -21.63 % yr⁻¹; Perc Final = 65 % > decrease

DECADAL: NO (2 yr)



322_density

Bonhomme et al. 2010

SITE: Vaisseau – Tuf (France – Mediterranean) – Po (-34 m)

OVERALL: Net = -3.2 shoot m⁻²; Rate = -1.54 % yr⁻¹; Perc Final = 97 % > no change

DECADAL: NO (2 yr)



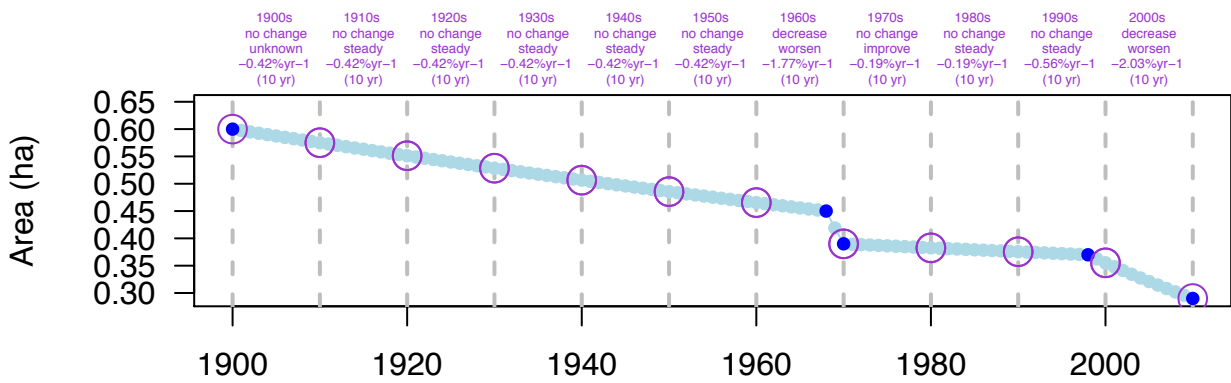
323_area

Astruch et al. 2012

SITE: Bay de Port-Cros (barrier reef) (France – Mediterranean) – Po (–20 m)

OVERALL: Net = –0.31 ha; Rate = –0.66 % yr⁻¹; Perc Final = 48 % > decrease

DECADAL: YES (110 yr)



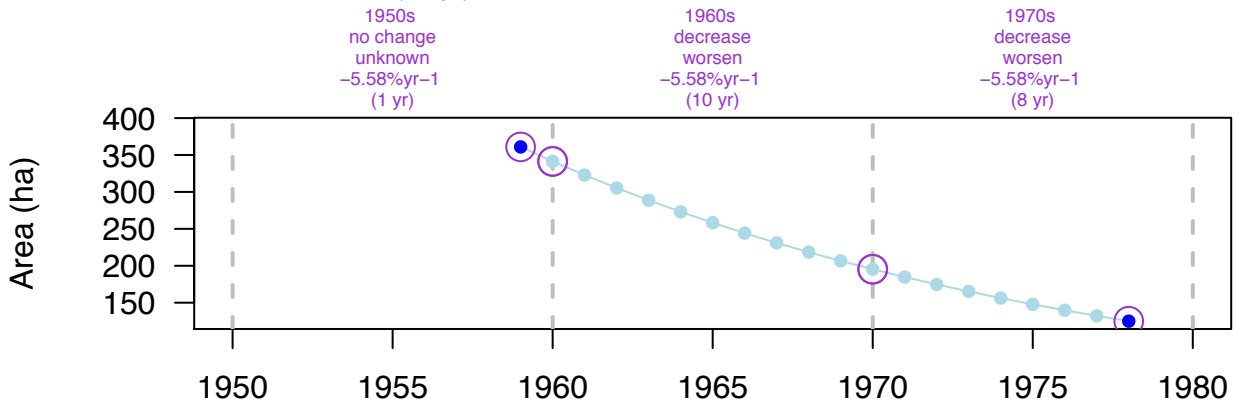
324_area

Astier 1972, 1975, 1984, Nodot et al. 1978

SITE: Plages du Mourillon (France – Mediterranean) – Po (? m)

OVERALL: Net = –236 ha; Rate = –5.58 % yr⁻¹; Perc Final = 35 % > decrease

DECADAL: YES (19 yr)



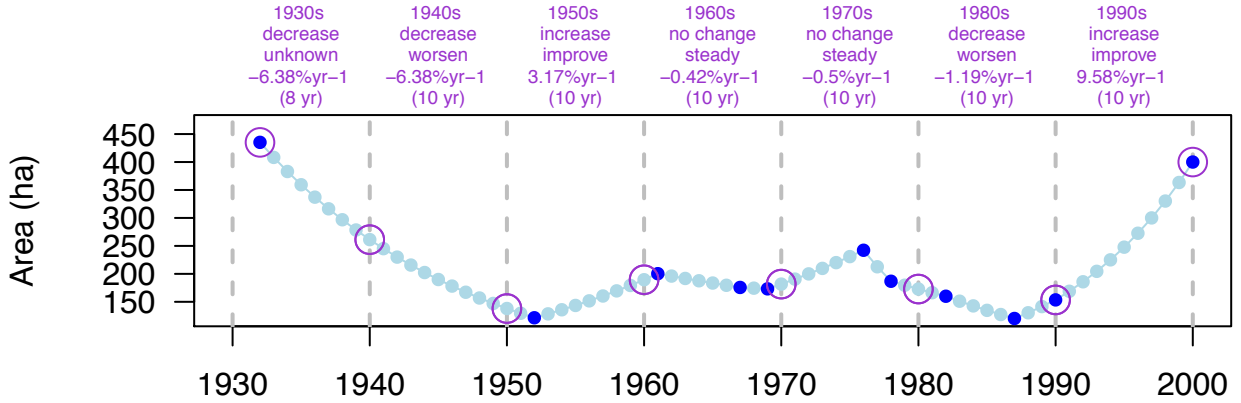
325_area

Glemarec et al. 1997, Hily et al. 2003

SITE: Glenan Archipelago (France – Atlantic) – Zm (-5 m)

OVERALL: Net = -35.2 ha; Rate = -0.12 % yr⁻¹; Perc Final = 92 % > no change

DECADAL: YES (68 yr)



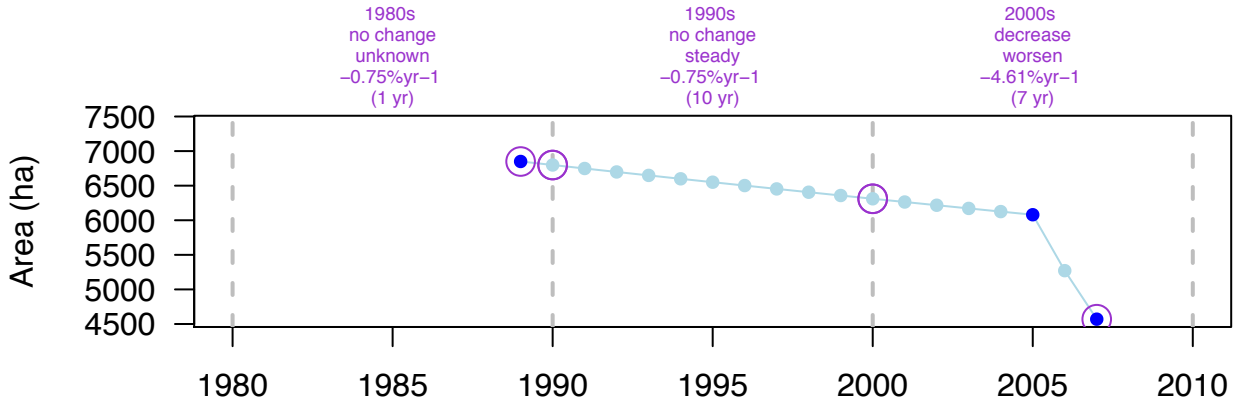
326_area

Plus et al. 2010

SITE: Arcachon Bay (France – Atlantic) – Zn (0 m)

OVERALL: Net = -2280 ha; Rate = -2.25 % yr⁻¹; Perc Final = 67 % > decrease

DECADAL: YES (18 yr)



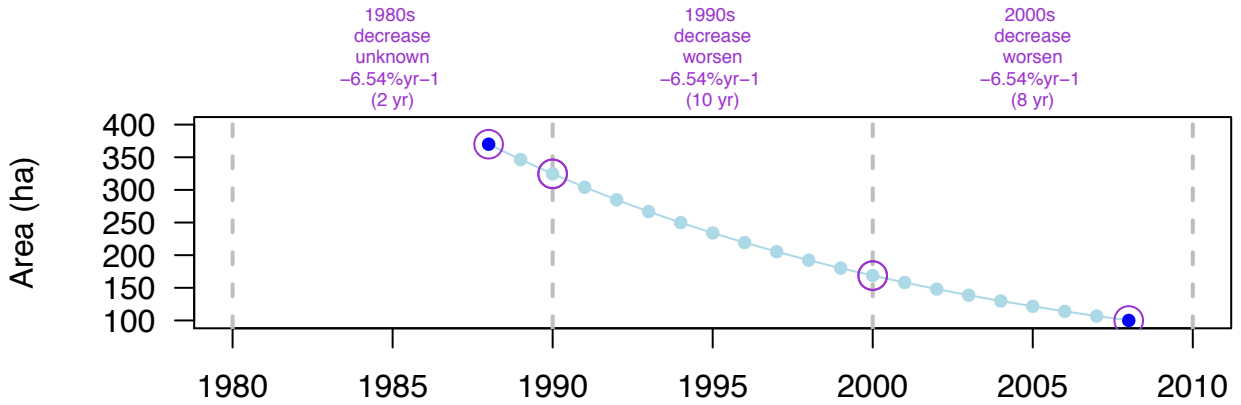
327_area

Plus et al. 2010

SITE: Arcachon Bay (France – Atlantic) – Zm (-5 m)

OVERALL: Net = -270 ha; Rate = -6.54 % yr⁻¹; Perc Final = 27 % > decrease

DECADAL: YES (20 yr)



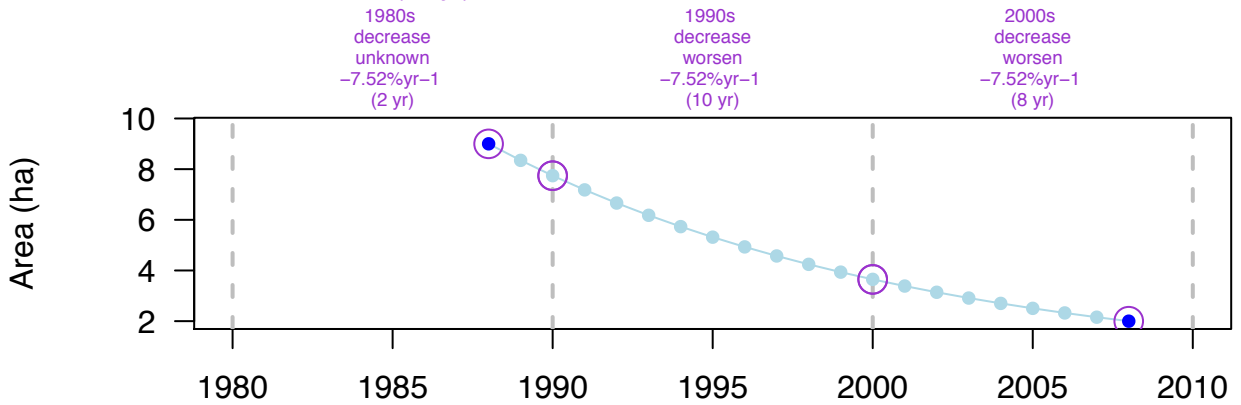
328_area

Plus et al. 2010

SITE: Arguin Bank (France – Atlantic) – Zm (-5 m)

OVERALL: Net = -7 ha; Rate = -7.52 % yr⁻¹; Perc Final = 22 % > decrease

DECADAL: YES (20 yr)



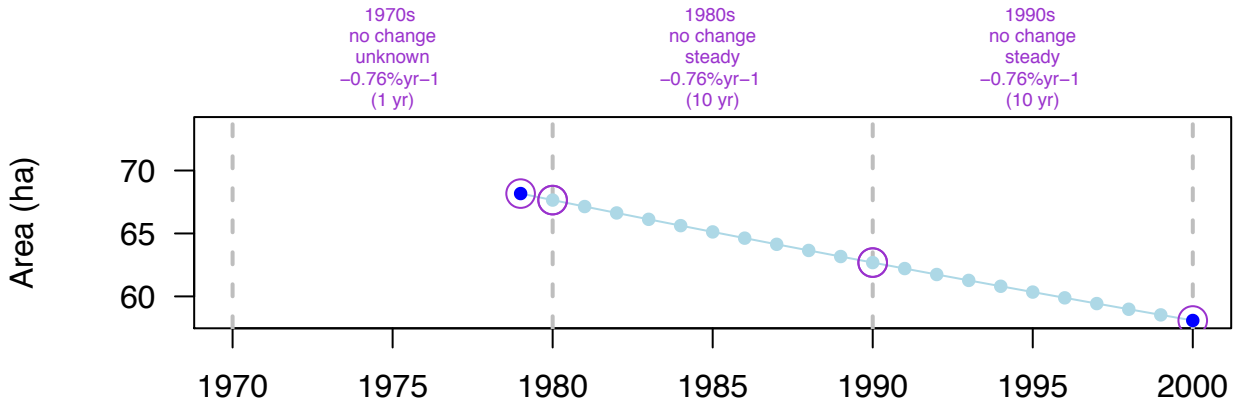
329_area

Leriche et al. 2006

SITE: Bay of Saint-Cyr (France – Mediterranean) – Po (? m)

OVERALL: Net = -10.08 ha; Rate = -0.76 % yr⁻¹; Perc Final = 85 % > decrease

DECADAL: YES (21 yr)



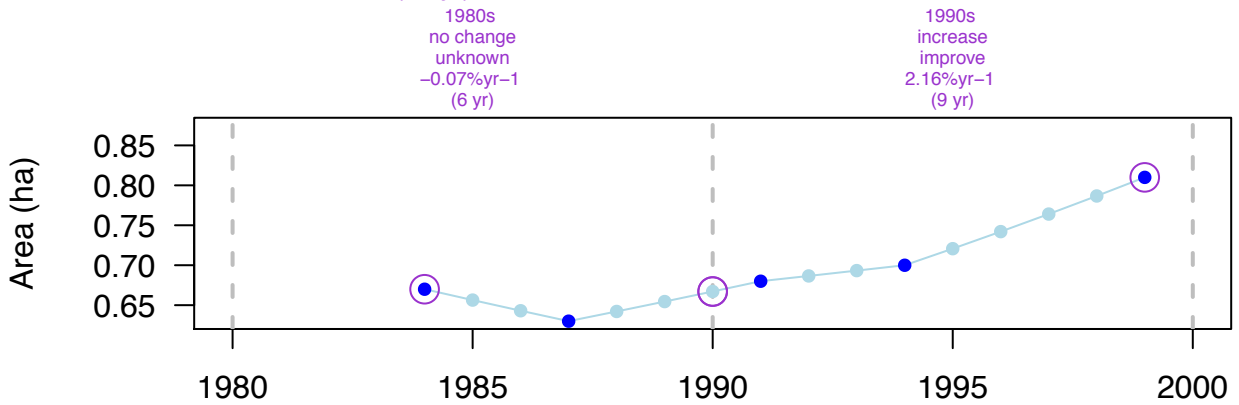
330_area

Pergent-Martini et al. 2002

SITE: Marseilles (test area) (France – Mediterranean) – Po (-15 m)

OVERALL: Net = 0.14 ha; Rate = 1.27 % yr⁻¹; Perc Final = 121 % > increase

DECADAL: YES (15 yr)



331_density

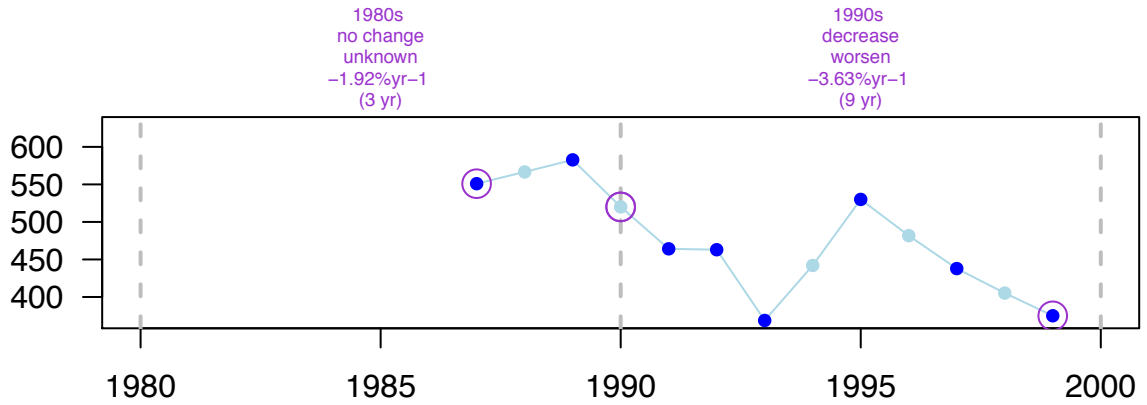
Pergent-Martini et al. 2002

SITE: Marseilles (Cortiou – anthropissed) (France – Mediterranean) – Po (? m)

OVERALL: Net = -176 shoot m⁻²; Rate = -3.21 % yr⁻¹; Perc Final = 68 % > decrease

DECADAL: YES (12 yr)

Shoot density (shoot m⁻²)



331_lowerlimit

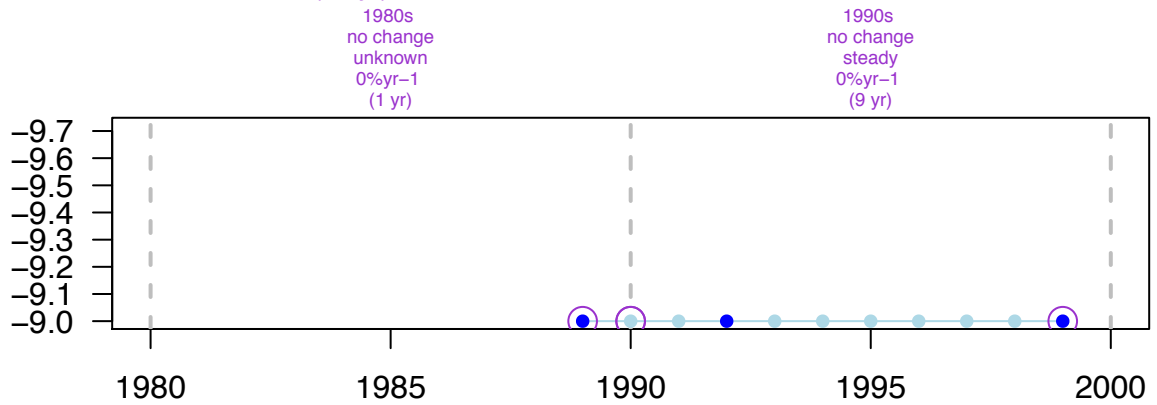
Pergent-Martini et al. 2002

SITE: Marseilles (Cortiou – anthropissed) (France – Mediterranean) – Po (? m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (10 yr)

Lower depth limit (m)



332_density

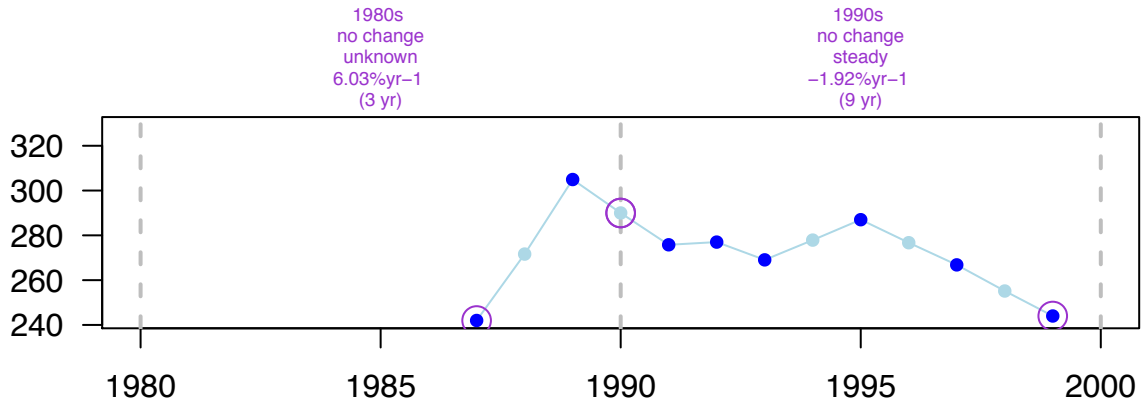
Pergent-Martini et al. 2002

SITE: Marseilles (Riou – reference) (France – Mediterranean) – Po (? m)

OVERALL: Net = 2 shoot m⁻²; Rate = 0.07 % yr⁻¹; Perc Final = 101 % > no change

DECADAL: YES (12 yr)

Shoot density (shoot m⁻²)



332_lowerlimit

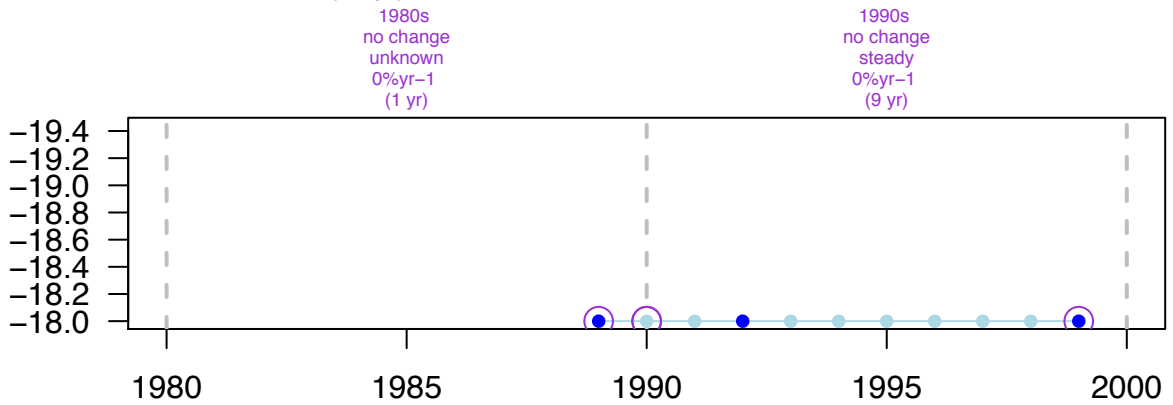
Pergent-Martini et al. 2002

SITE: Marseilles (Riou – reference) (France – Mediterranean) – Po (? m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (10 yr)

Lower depth limit (m)



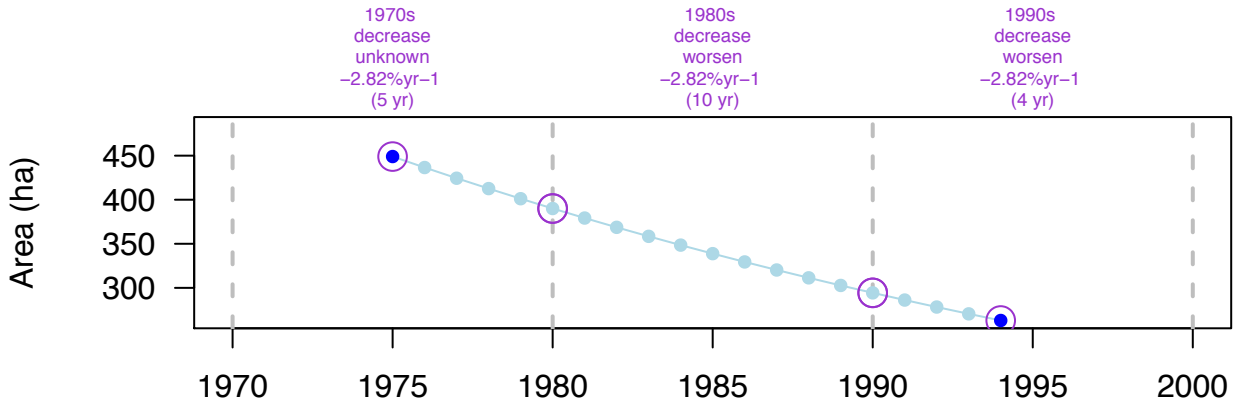
333_area

Pergent-Martini and Pergent 1996

SITE: Plateau des Chèvres (France – Mediterranean) – Po (? m)

OVERALL: Net = -186 ha; Rate = -2.82 % yr⁻¹; Perc Final = 59 % > decrease

DECADAL: YES (19 yr)



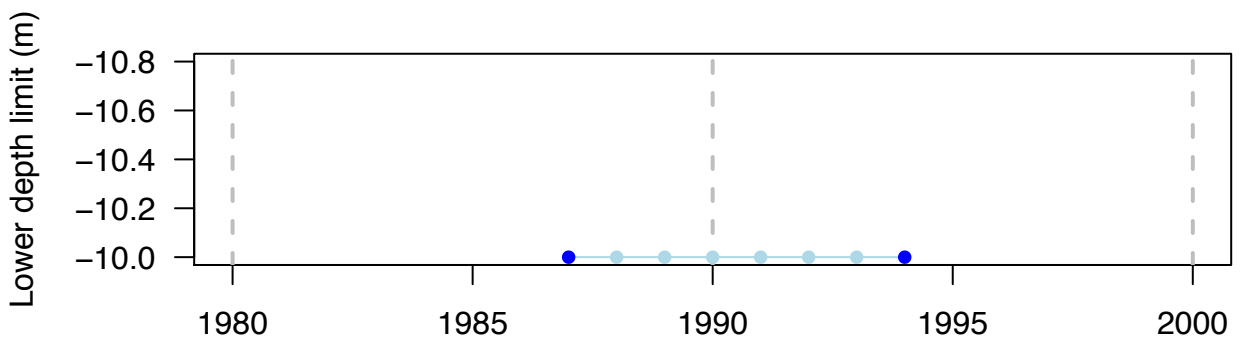
333_lowerlimit

Pergent-Martini and Pergent 1996

SITE: Plateau des Chèvres (France – Mediterranean) – Po (? m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (7 yr)



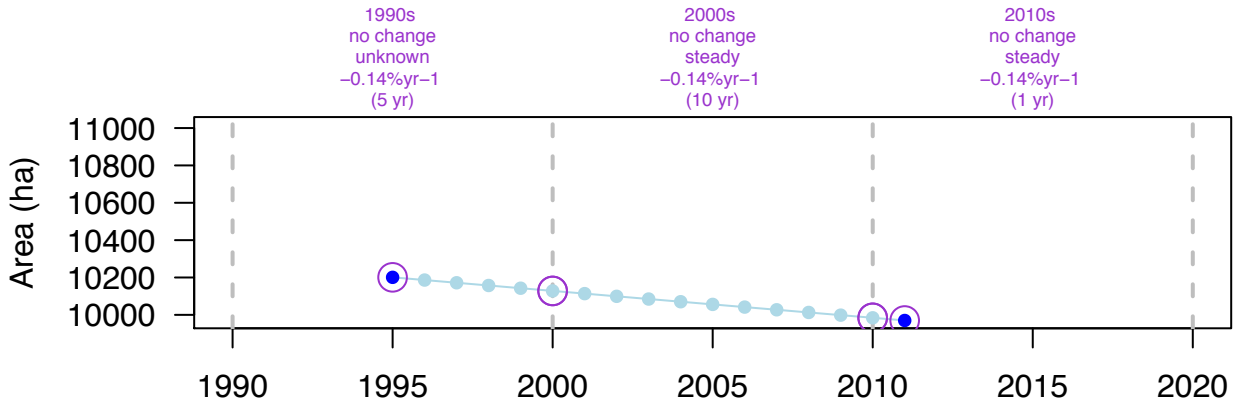
334_area

Bonacorsi et al. 2013

SITE: Cap Corse (entire) (France – Mediterranean) – Po (? m)

OVERALL: Net = -231 ha; Rate = -0.14 % yr⁻¹; Perc Final = 98 % > no change

DECADAL: YES (16 yr)



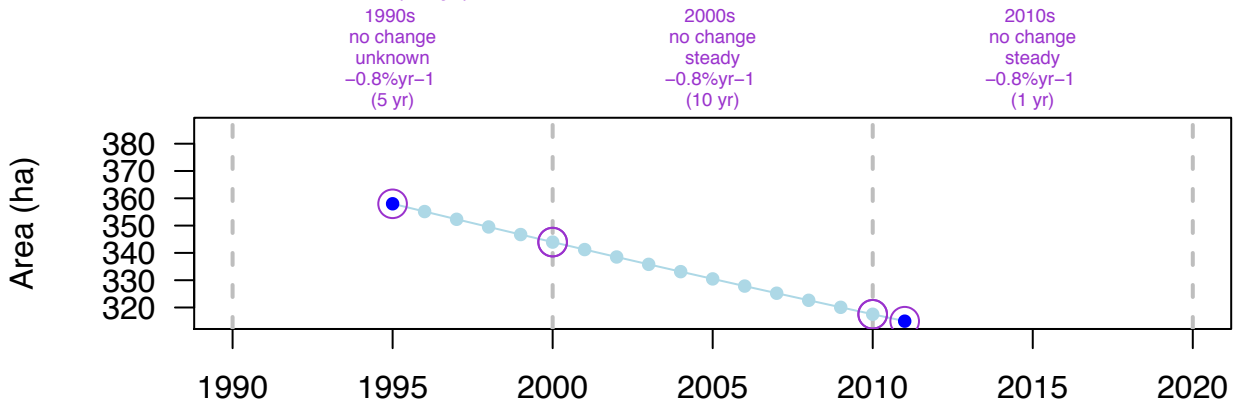
335_area

Bonacorsi et al. 2013

SITE: Cap Corse (Macinaggio) (France – Mediterranean) – Po (? m)

OVERALL: Net = -43 ha; Rate = -0.8 % yr⁻¹; Perc Final = 88 % > decrease

DECADAL: YES (16 yr)



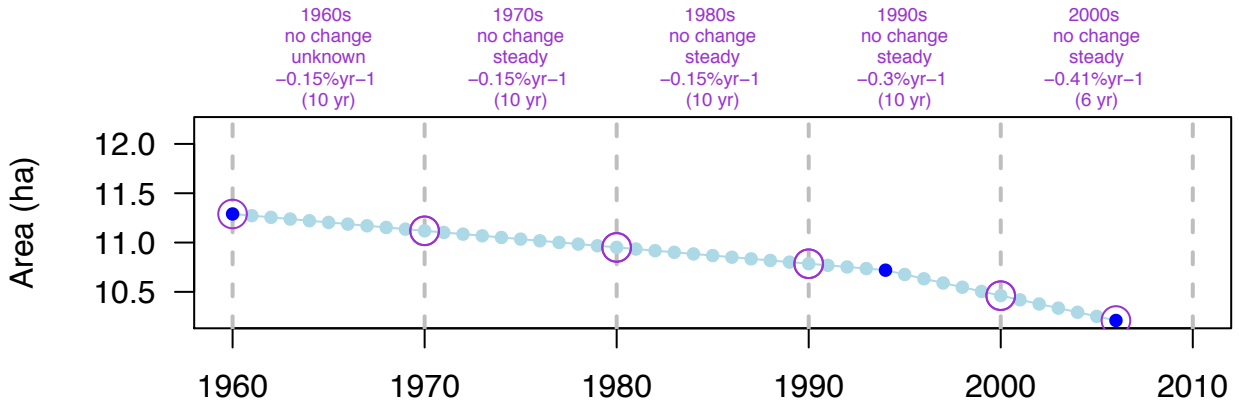
336_area

Bonacorsi et al. 2013

SITE: Cap Corse (Saint Florent) (France – Mediterranean) – Po (? m)

OVERALL: Net = -1.08 ha; Rate = -0.22 % yr⁻¹; Perc Final = 90 % > no change

DECADAL: YES (46 yr)



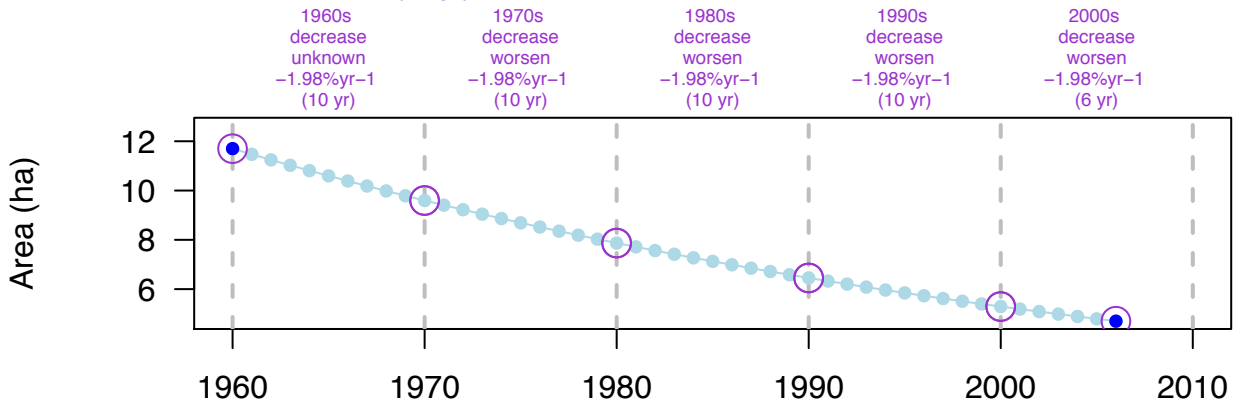
337_area

Bonacorsi et al. 2013

SITE: Cap Corse (Saint Florent) (France – Mediterranean) – Cn (? m)

OVERALL: Net = -7 ha; Rate = -1.98 % yr⁻¹; Perc Final = 40 % > decrease

DECADAL: YES (46 yr)



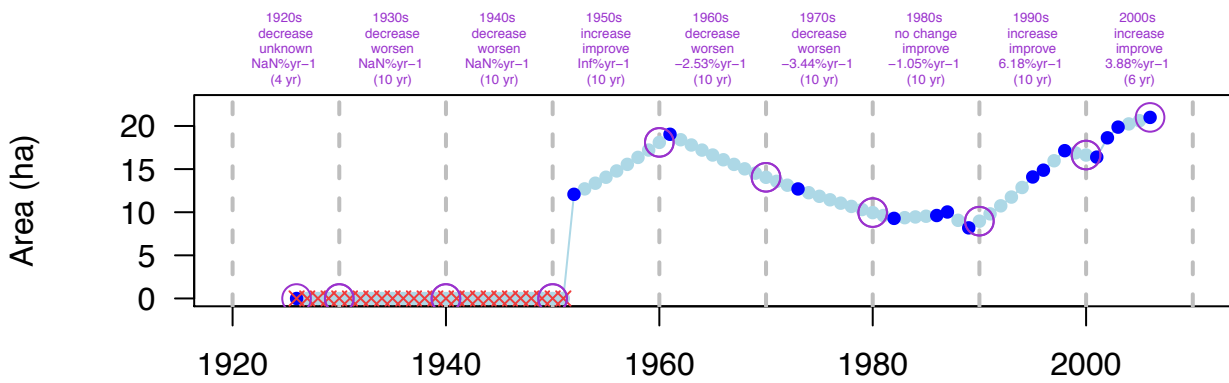
338_area

Fournier et al. 2006, Auby et al. 2010

SITE: Plage de les Haas (France – Atlantic) – Zn (0 m)

OVERALL: Net = 21 ha; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: YES (80 yr)



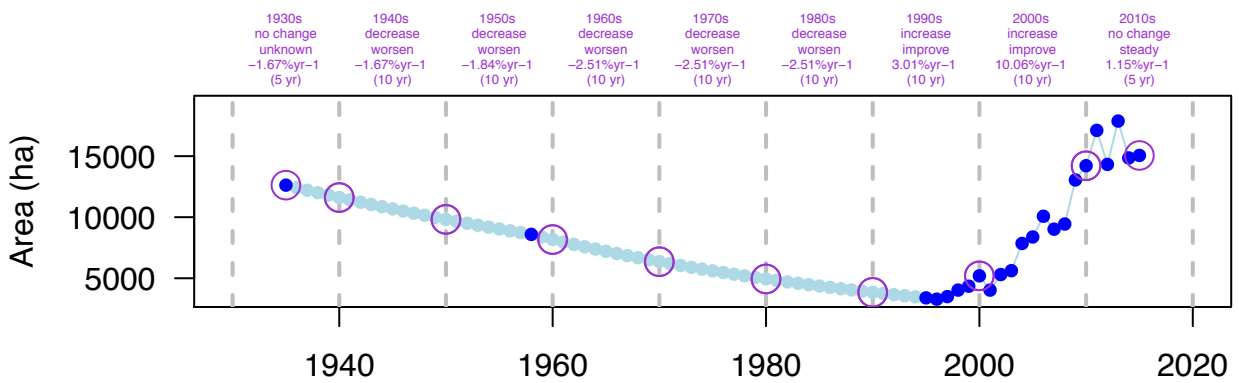
339_area

Dolch et al. 2013, Dolch et al. 2017

SITE: Northfrisian Wadden Sea (Germany – Atlantic) – Zn (0 m)

OVERALL: Net = 2434.56 ha; Rate = 0.22 % yr⁻¹; Perc Final = 119 % > increase

DECADAL: YES (80 yr)



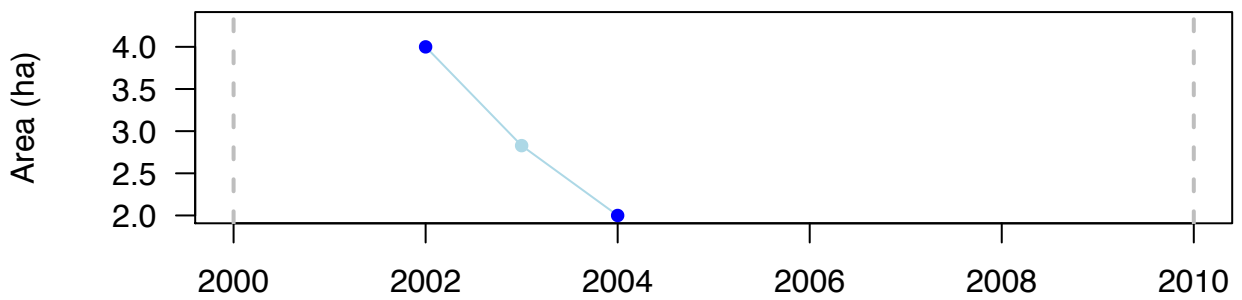
342_area

Gambi et al. 2005

SITE: Maronti Bay (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -2 ha; Rate = -34.66 % yr⁻¹; Perc Final = 50 % > decrease

DECADAL: NO (2 yr)



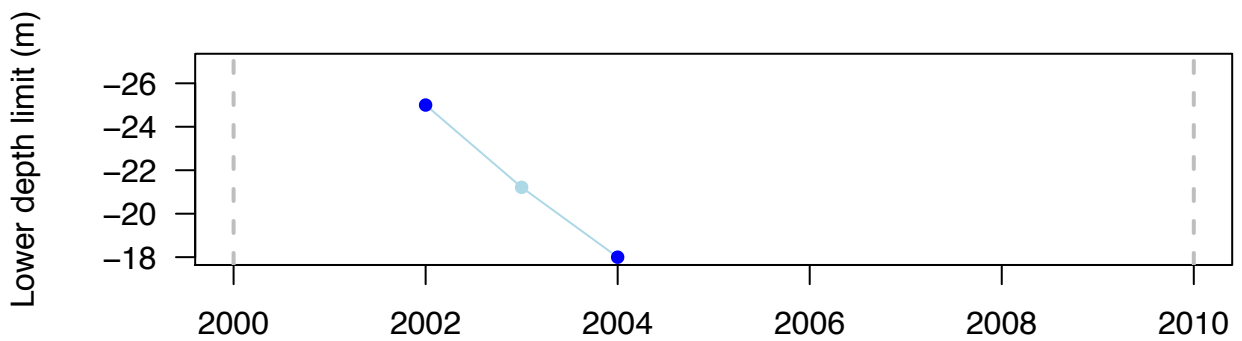
342_lowerlimit

Gambi et al. 2005

SITE: Maronti Bay (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -7 m; Rate = -16.43 % yr⁻¹; Perc Final = 72 % > decrease

DECADAL: NO (2 yr)



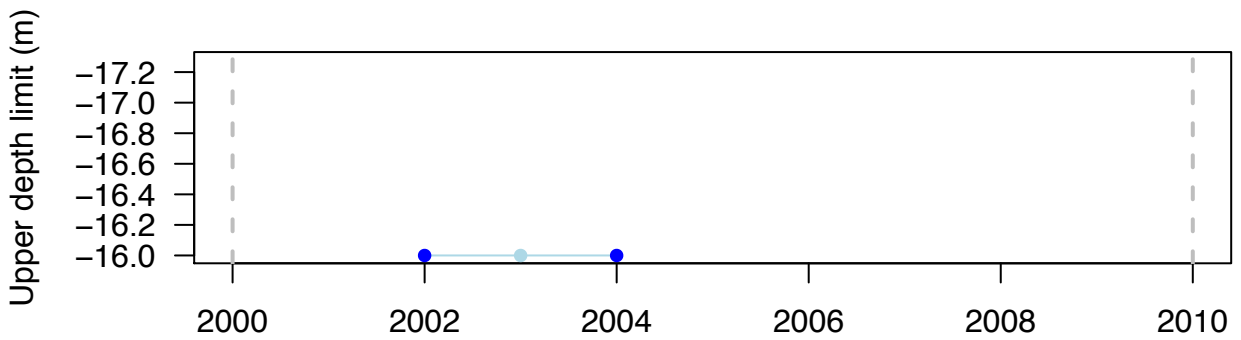
342_upperlimit

Gambi et al. 2005

SITE: Maronti Bay (Italy – Mediterranean) – Po (? m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (2 yr)



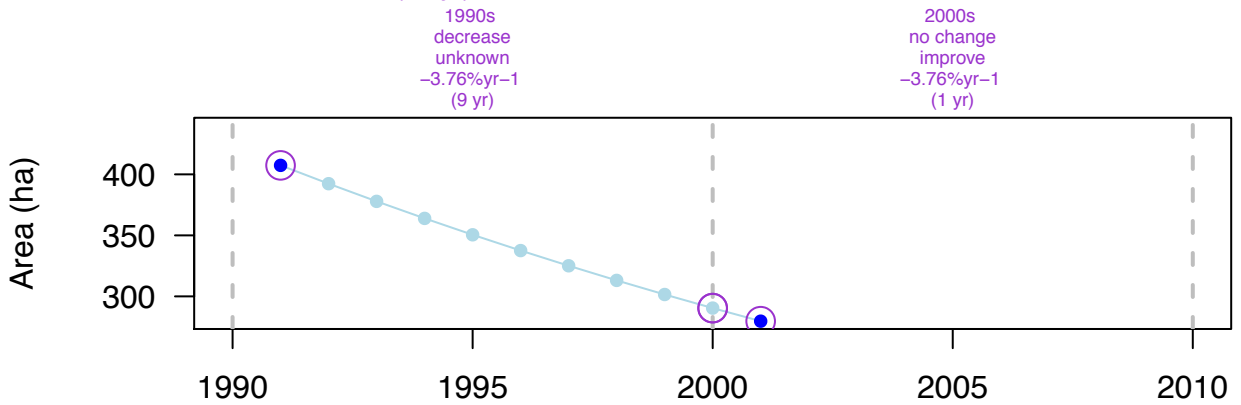
343_area

Barsanti et al. 2007

SITE: Tigullio Gulf (all sectors) (Italy – Mediterranean) – Cn (? m)

OVERALL: Net = -127.7 ha; Rate = -3.76 % yr⁻¹; Perc Final = 69 % > decrease

DECADAL: YES (10 yr)



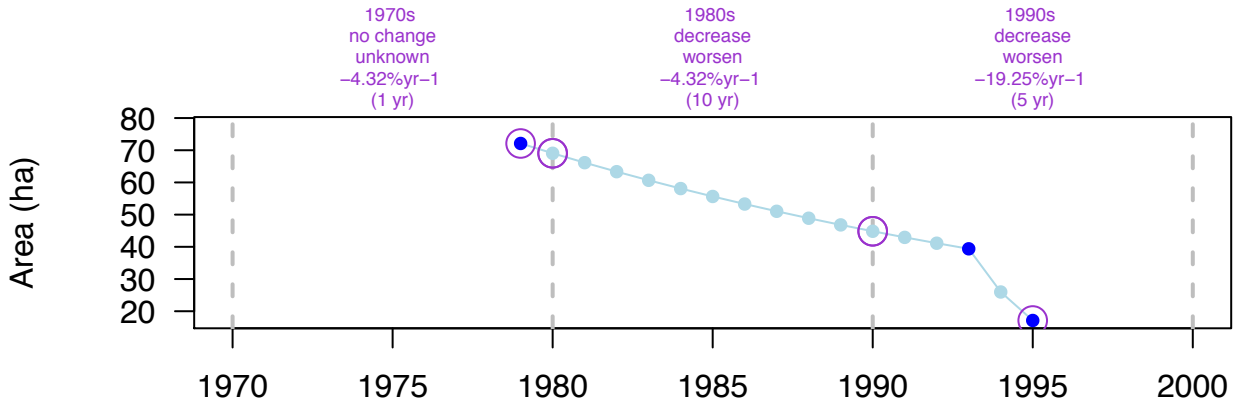
344_area

Badalamenti et al. 2006, 2011

SITE: Cabo Feto (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -54.98 ha; Rate = -8.98 % yr⁻¹; Perc Final = 24 % > decrease

DECADAL: YES (16 yr)



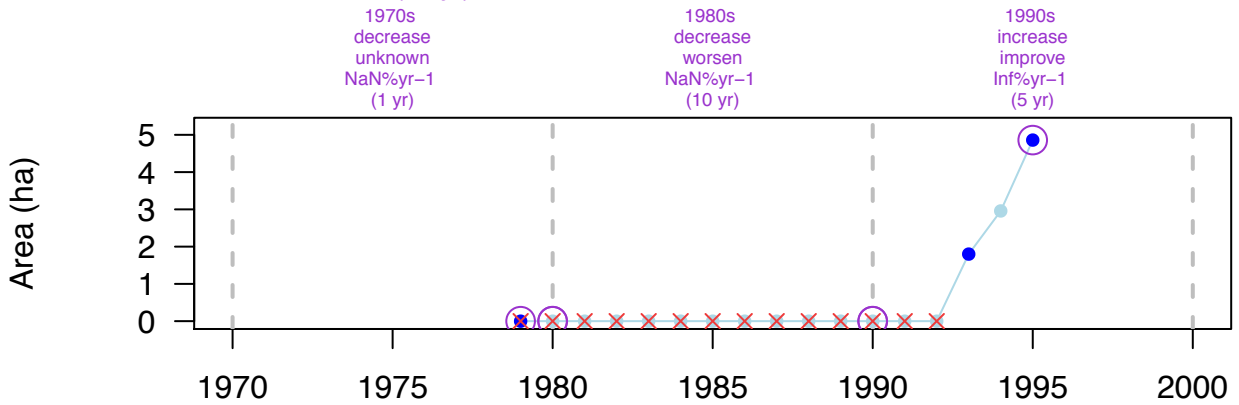
345_area

Badalamenti et al. 2006, 2011

SITE: Cabo Feto (Italy – Mediterranean) – Cn (? m)

OVERALL: Net = 4.86 ha; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: YES (16 yr)



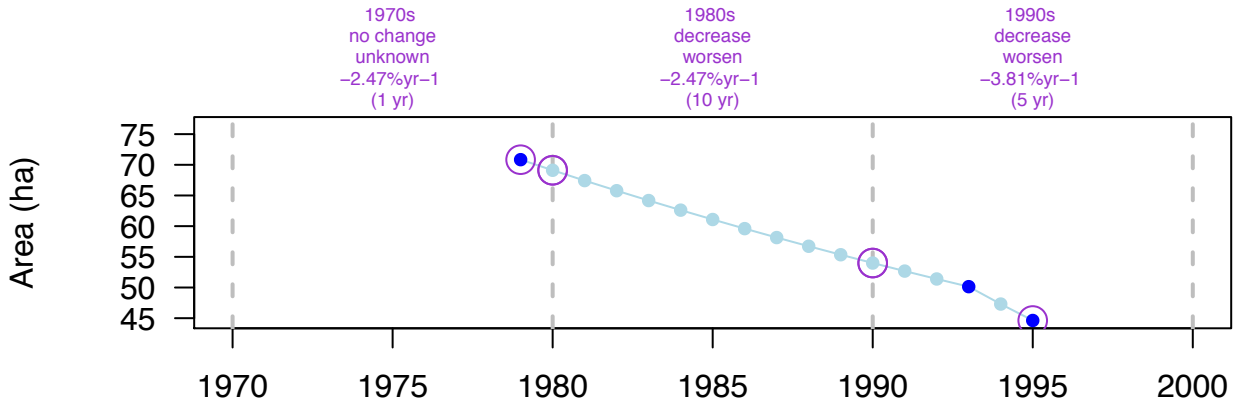
346_area

Badalamenti et al. 2006, 2011

SITE: Cabo Feto (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -26.21 ha; Rate = -2.89 % yr⁻¹; Perc Final = 63 % > decrease

DECADAL: YES (16 yr)



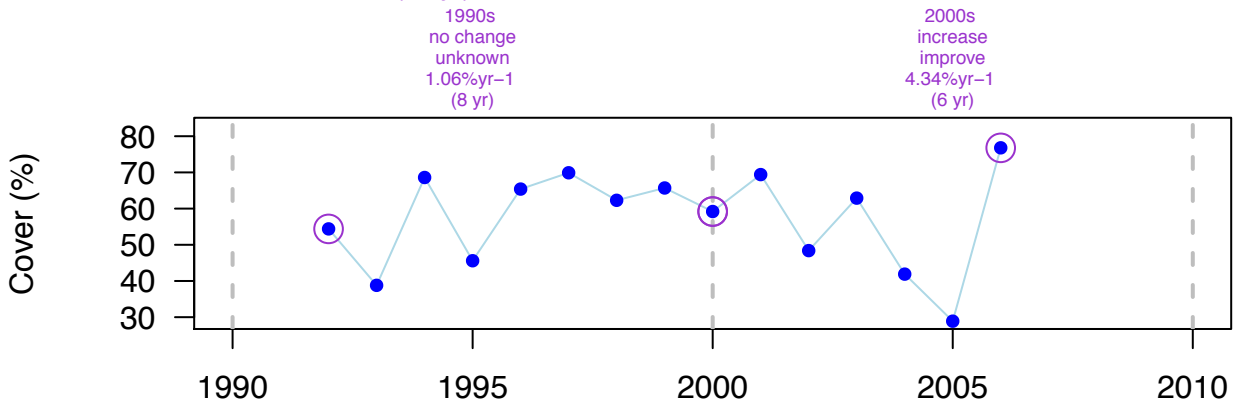
347_cover

Peirano et al. 2011

SITE: Monterosso al Mare (Italy – Mediterranean) – Po (-10 m)

OVERALL: Net = 22.4 %; Rate = 2.46 % yr⁻¹; Perc Final = 141 % > increase

DECADAL: YES (14 yr)



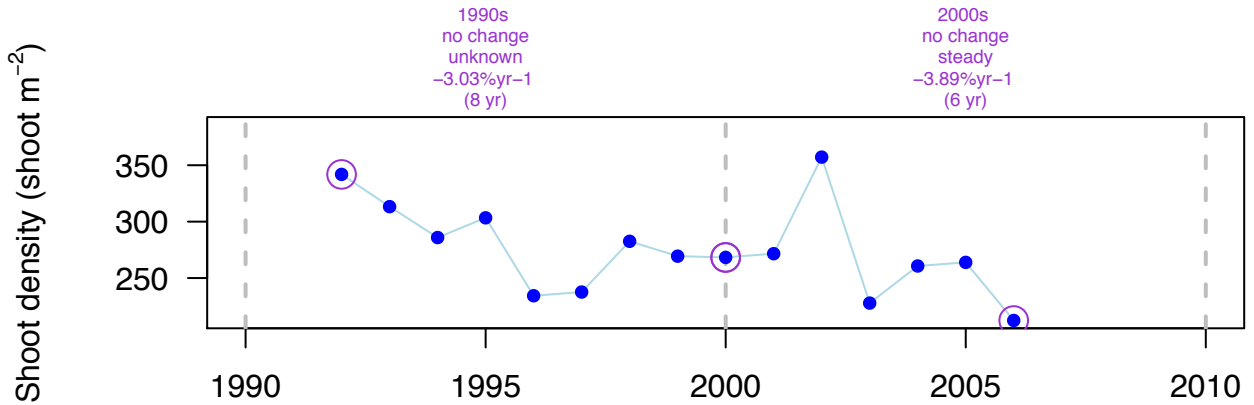
347_density

Peirano et al. 2011

SITE: Monterosso al Mare (Italy – Mediterranean) – Po (-10 m)

OVERALL: Net = -129.5 shoot m⁻²; Rate = -3.4 % yr⁻¹; Perc Final = 62 % > decrease

DECADAL: YES (14 yr)



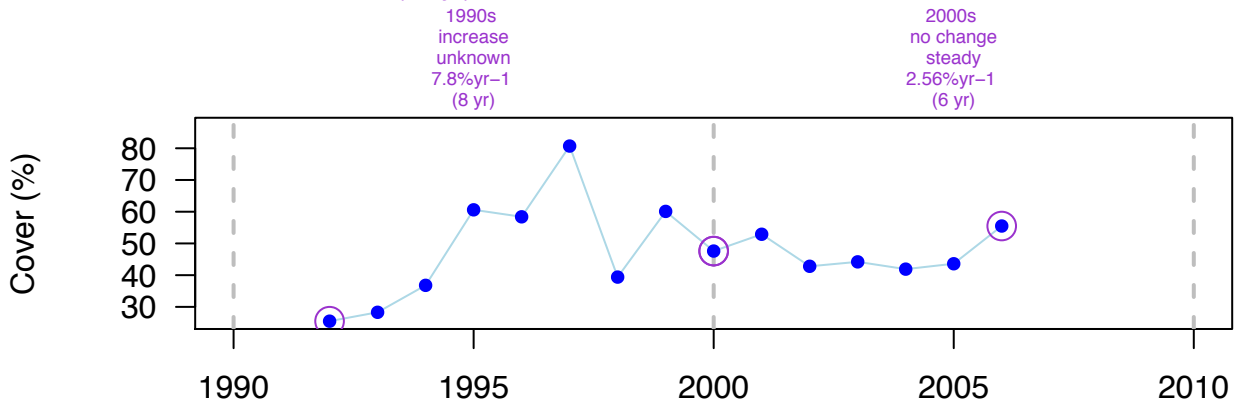
348_cover

Peirano et al. 2011

SITE: Monterosso al Mare (Italy – Mediterranean) – Po (-17 m)

OVERALL: Net = 30 %; Rate = 5.56 % yr⁻¹; Perc Final = 218 % > increase

DECADAL: YES (14 yr)



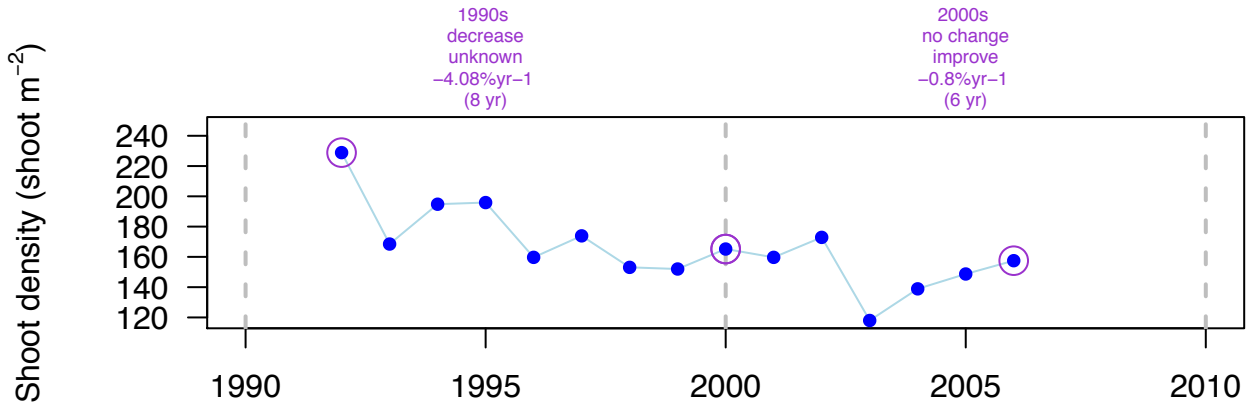
348_density

Peirano et al. 2011

SITE: Monterosso al Mare (Italy – Mediterranean) – Po (-17 m)

OVERALL: Net = -71.4 shoot m⁻²; Rate = -2.67 % yr⁻¹; Perc Final = 69 % > decrease

DECADAL: YES (14 yr)



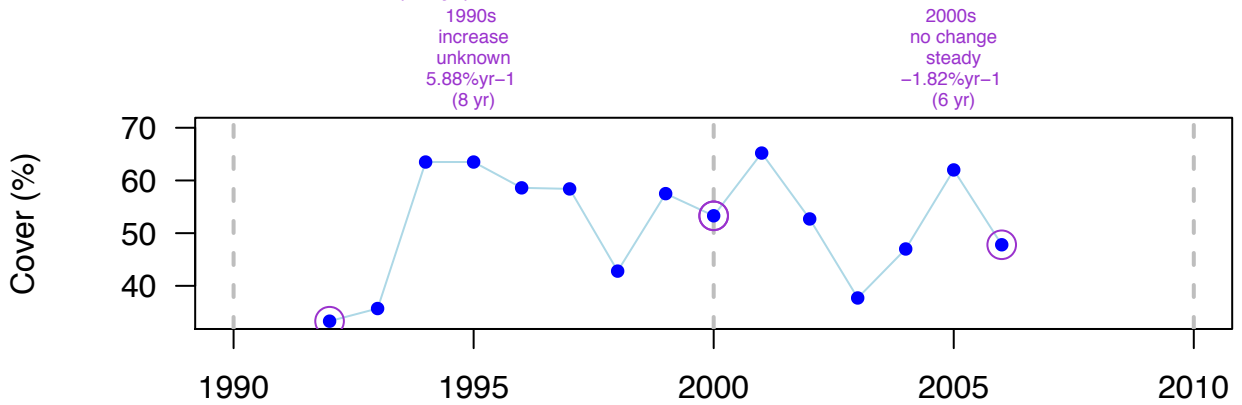
349_cover

Peirano et al. 2011

SITE: Monterosso al Mare (Italy – Mediterranean) – Po (-5 m)

OVERALL: Net = 14.5 %; Rate = 2.58 % yr⁻¹; Perc Final = 144 % > increase

DECADAL: YES (14 yr)



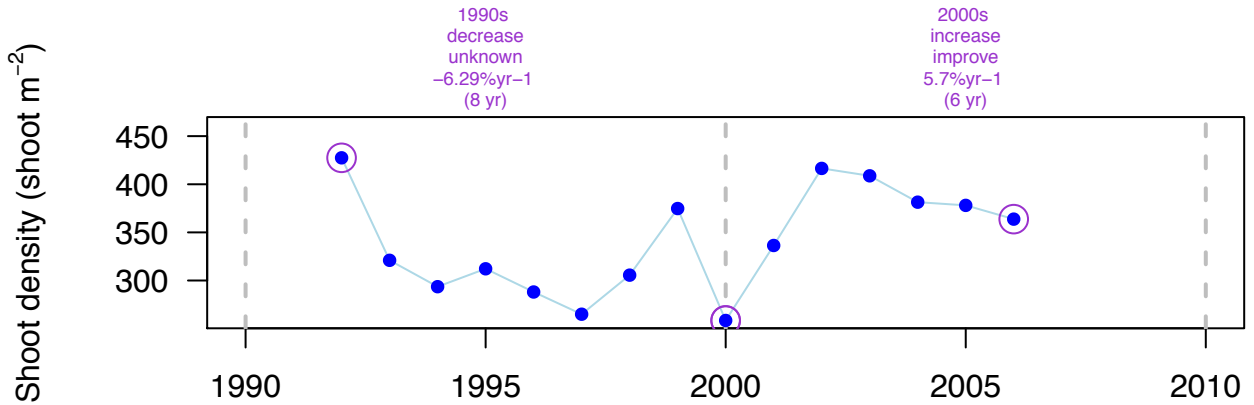
349_density

Peirano et al. 2011

SITE: Monterosso al Mare (Italy – Mediterranean) – Po (-5 m)

OVERALL: Net = -63.7 shoot m⁻²; Rate = -1.15 % yr⁻¹; Perc Final = 85 % > no change

DECADAL: YES (14 yr)



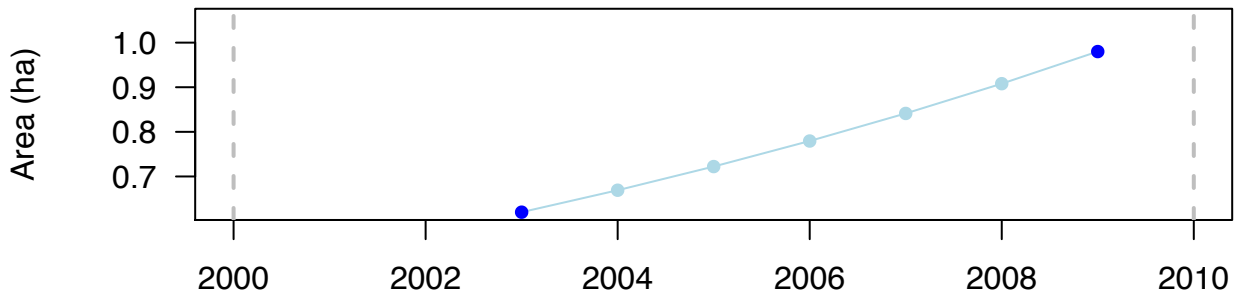
350_area

Giovani et al. 2010

SITE: Orbetello lagoon (Italy – Mediterranean) – Zn (-1.2 m)

OVERALL: Net = 0.36 ha; Rate = 7.63 % yr⁻¹; Perc Final = 158 % > increase

DECADAL: NO (6 yr)



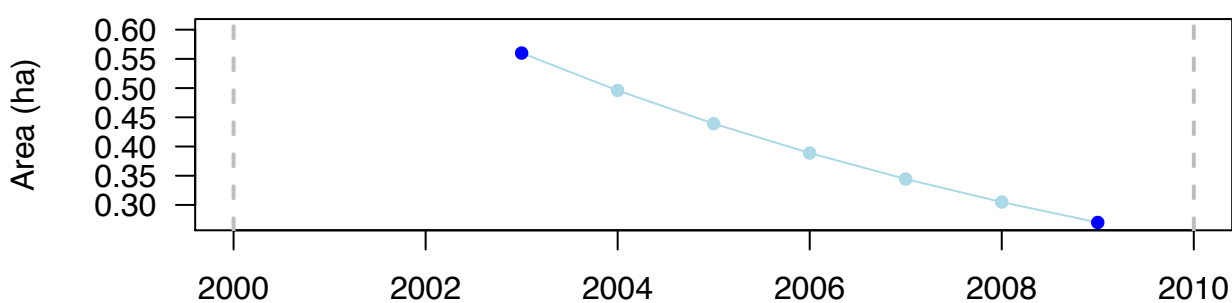
351_area

Giovani et al. 2010

SITE: Orbetello lagoon (Italy – Mediterranean) – Cn (-1.2 m)

OVERALL: Net = -0.29 ha; Rate = -12.16 % yr⁻¹; Perc Final = 48 % > decrease

DECADAL: NO (6 yr)



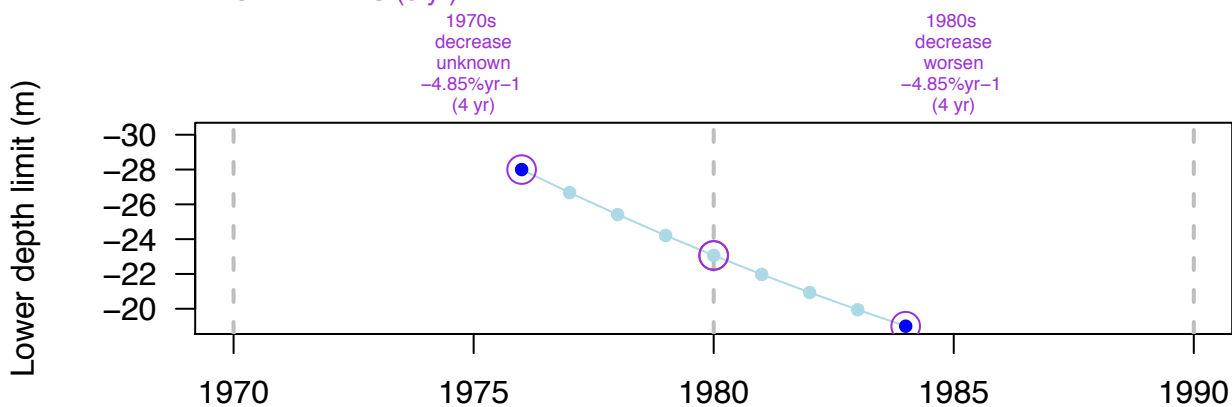
352_lowerlimit

Falconetti and Meinesz 1989

SITE: Larvotto Beach (Monaco – Mediterranean) – Po (? m)

OVERALL: Net = -9 m; Rate = -4.85 % yr⁻¹; Perc Final = 68 % > decrease

DECADAL: YES (8 yr)



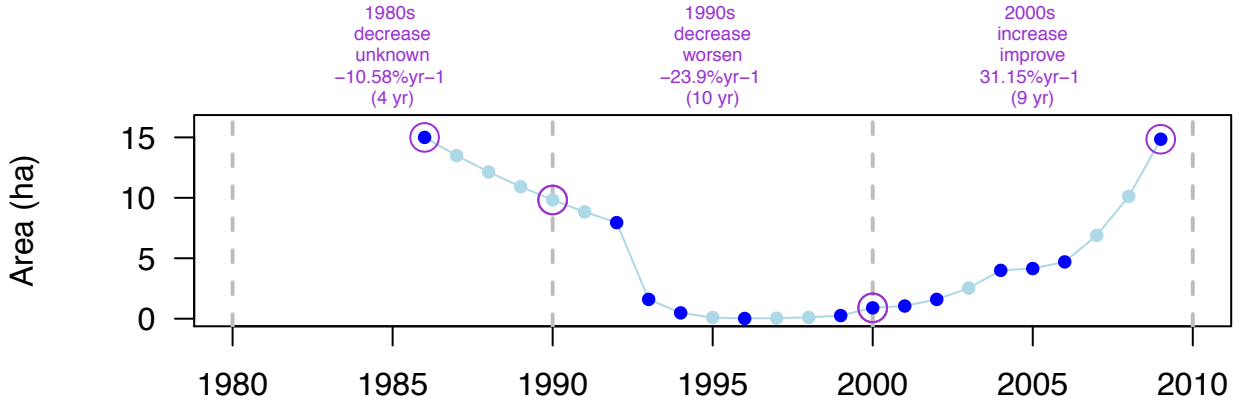
353_area

Dolbeth et al. 2011, Neto et al. 2013

SITE: Mondego estuary (Portugal – Atlantic) – Zn (0 m)

OVERALL: Net = -0.15 ha; Rate = -0.04 % yr⁻¹; Perc Final = 99 % > no change

DECADAL: YES (23 yr)



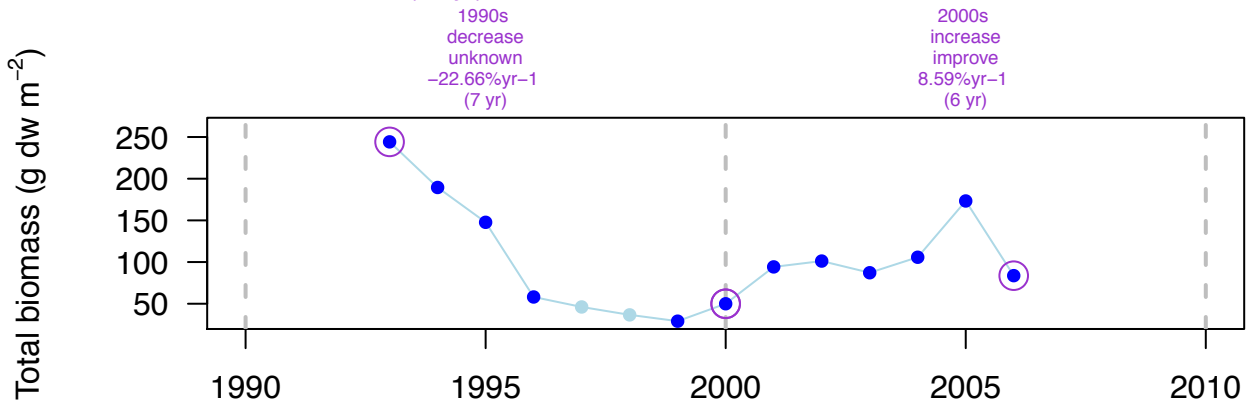
353_biomass

Dolbeth et al. 2011, Neto et al. 2013

SITE: Mondego estuary (Portugal – Atlantic) – Zn (0 m)

OVERALL: Net = -160.5 g dw m⁻²; Rate = -8.24 % yr⁻¹; Perc Final = 34 % > decrease

DECADAL: YES (13 yr)



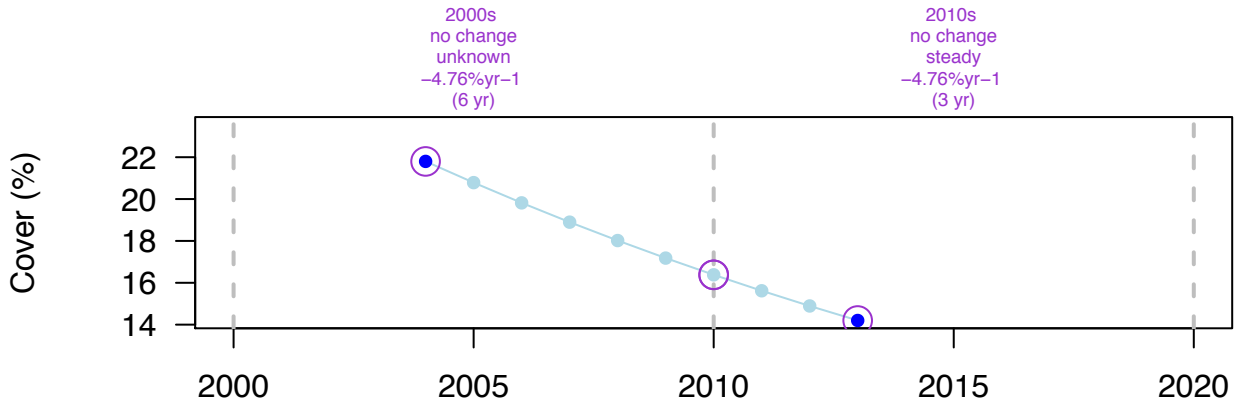
354_cover

Pergent et al. 2015

SITE: Macinaggio (Corsica) (France – Mediterranean) – Po (-38 m)

OVERALL: Net = -7.6 %; Rate = -4.76 % yr⁻¹; Perc Final = 65 % > decrease

DECADAL: YES (9 yr)



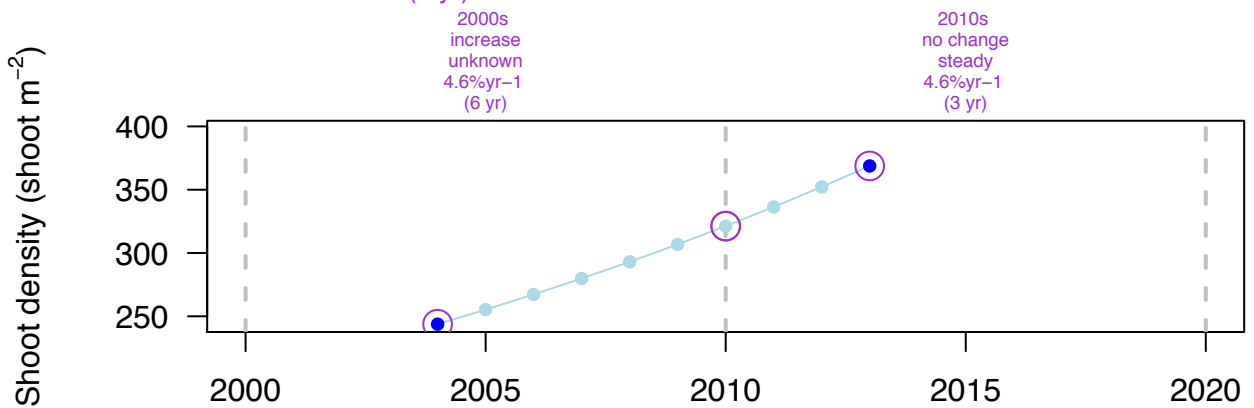
354_density

Pergent et al. 2015

SITE: Macinaggio (Corsica) (France – Mediterranean) – Po (-38 m)

OVERALL: Net = 125 shoot m⁻²; Rate = 4.6 % yr⁻¹; Perc Final = 151 % > increase

DECADAL: YES (9 yr)



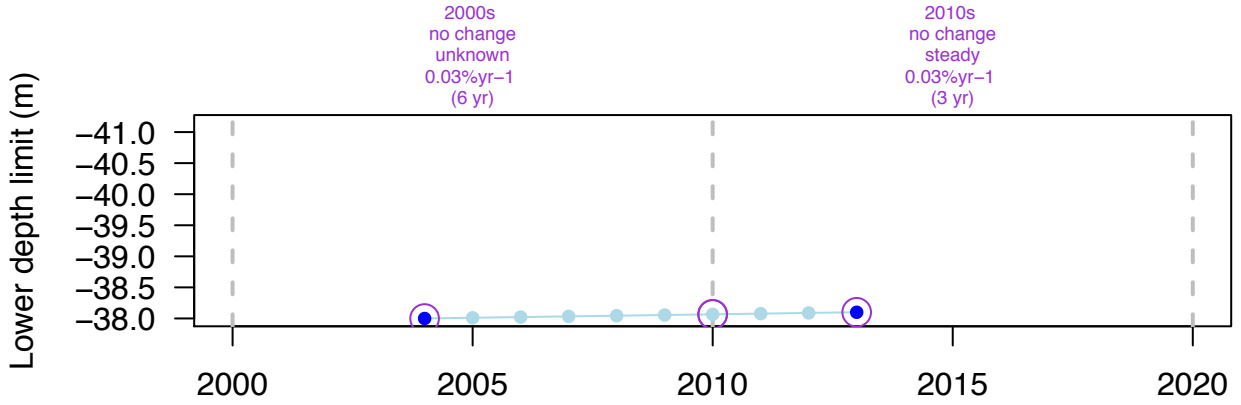
354_lowerlimit

Pergent et al. 2015

SITE: Macinaggio (Corsica) (France – Mediterranean) – Po (-38 m)

OVERALL: Net = 0.1 m; Rate = 0.03 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (9 yr)



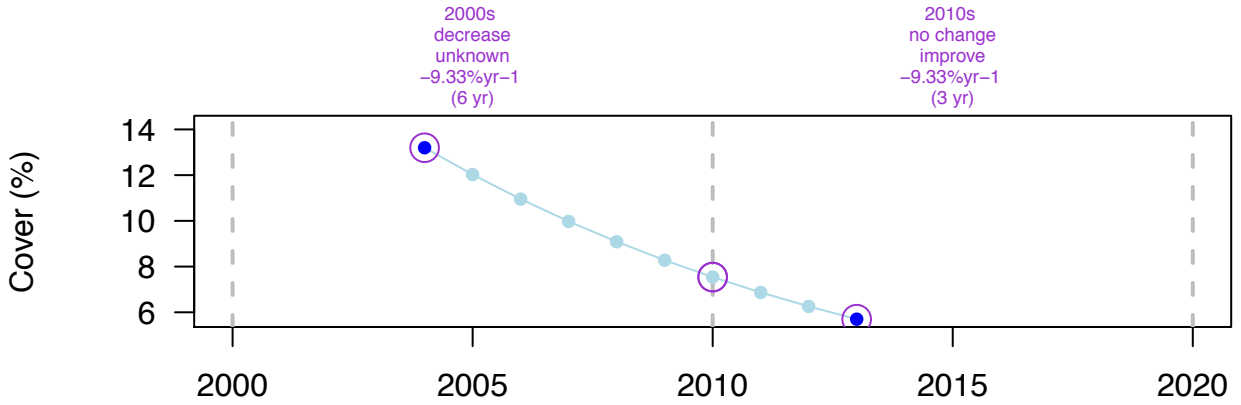
355_cover

Pergent et al. 2015

SITE: Cap Sagro (Corsica) (France – Mediterranean) – Po (-33 m)

OVERALL: Net = -7.5 %; Rate = -9.33 % yr⁻¹; Perc Final = 43 % > decrease

DECADAL: YES (9 yr)



355_density

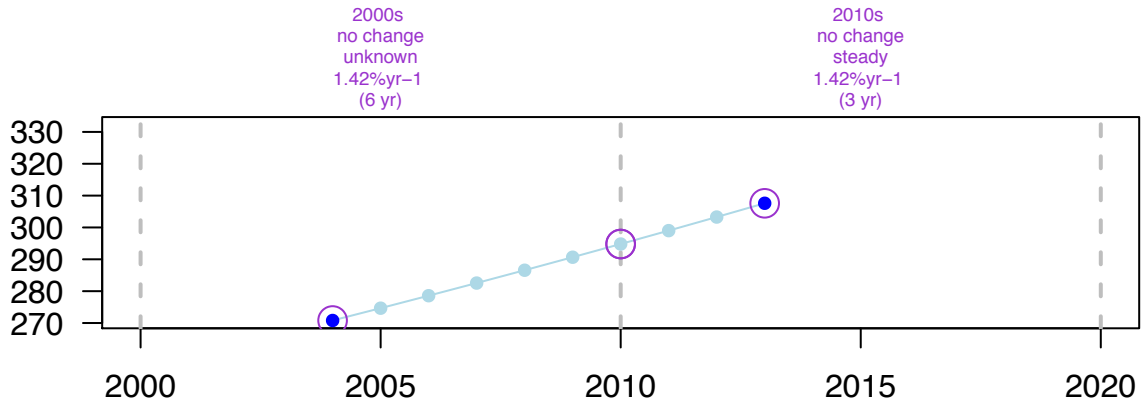
Pergent et al. 2015

SITE: Cap Sagro (Corsica) (France – Mediterranean) – Po (-33 m)

OVERALL: Net = 36.8 shoot m⁻²; Rate = 1.42 % yr⁻¹; Perc Final = 114 % > no change

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



355_lowerlimit

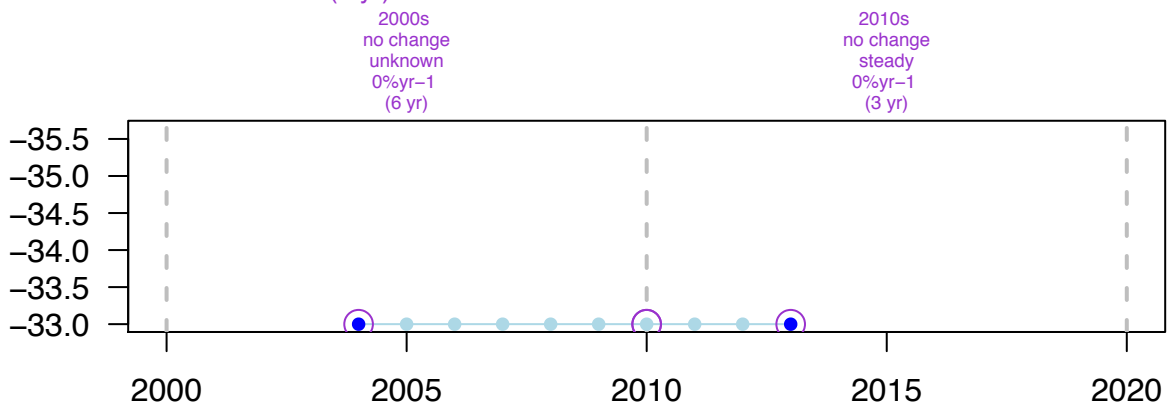
Pergent et al. 2015

SITE: Cap Sagro (Corsica) (France – Mediterranean) – Po (-33 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (9 yr)

Lower depth limit (m)



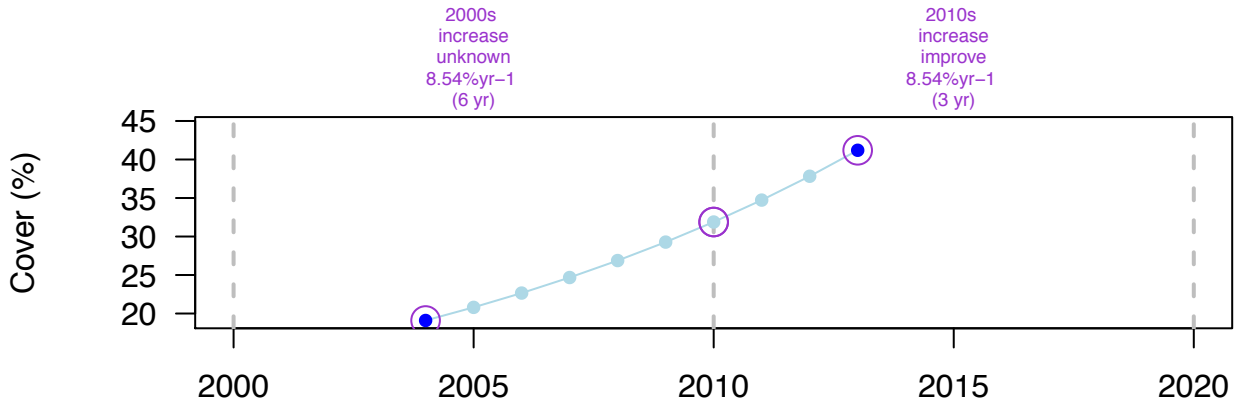
356_cover

Pergent et al. 2015

SITE: Toga (Corsica) (France – Mediterranean) – Po (-24 m)

OVERALL: Net = 22.1 %; Rate = 8.54 % yr⁻¹; Perc Final = 216 % > increase

DECADAL: YES (9 yr)



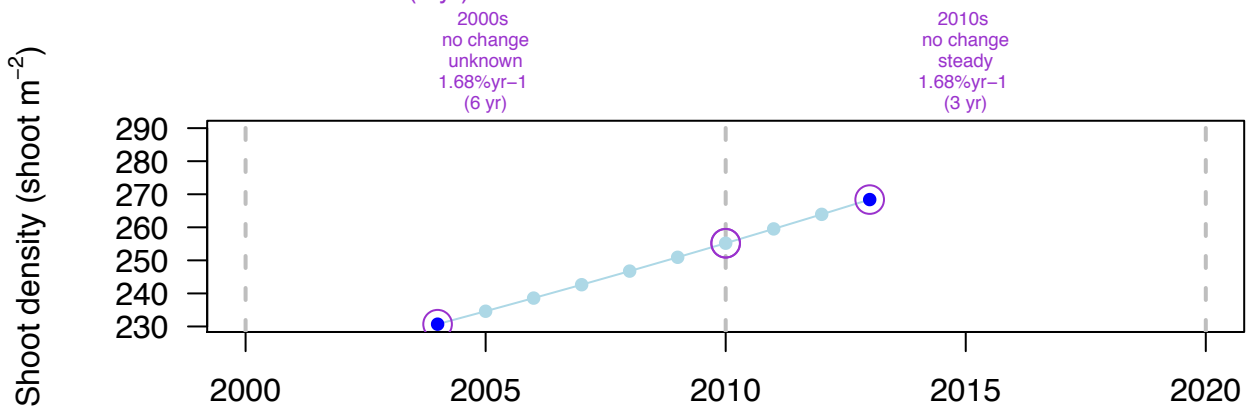
356_density

Pergent et al. 2015

SITE: Toga (Corsica) (France – Mediterranean) – Po (-24 m)

OVERALL: Net = 37.7 shoot m⁻²; Rate = 1.68 % yr⁻¹; Perc Final = 116 % > no change

DECADAL: YES (9 yr)



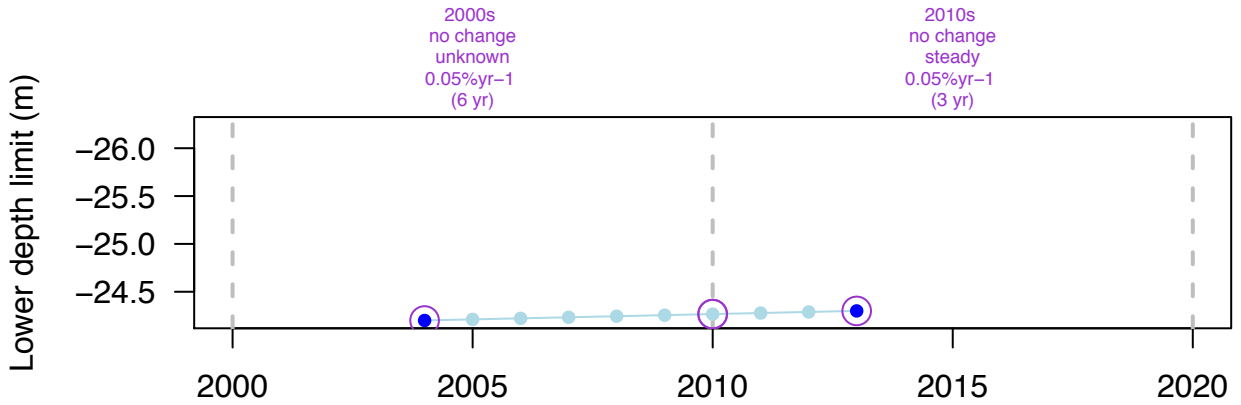
356_lowerlimit

Pergent et al. 2015

SITE: Toga (Corsica) (France – Mediterranean) – Po (-24 m)

OVERALL: Net = 0.1 m; Rate = 0.05 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (9 yr)



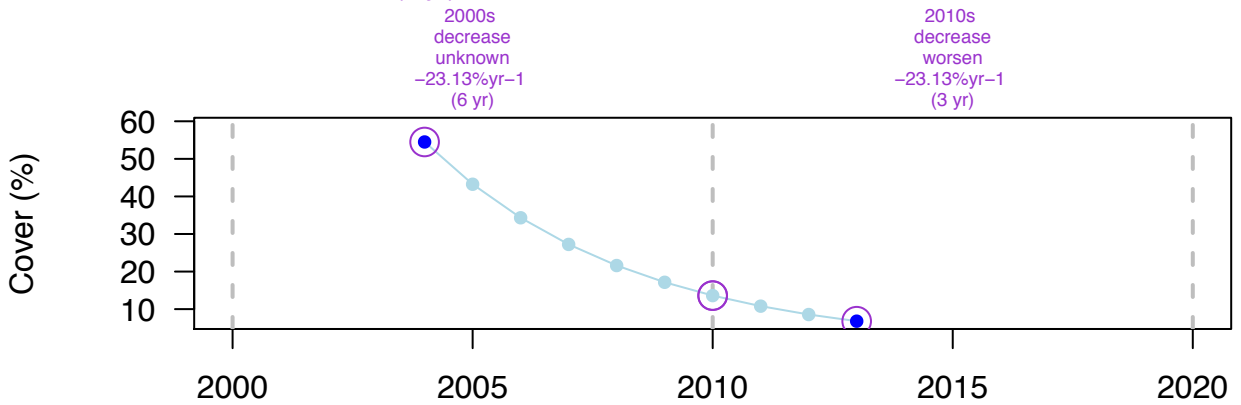
357_cover

Pergent et al. 2015

SITE: Arinella (Corsica) (France – Mediterranean) – Po (-26.9 m)

OVERALL: Net = -47.7 %; Rate = -23.13 % yr⁻¹; Perc Final = 12 % > decrease

DECADAL: YES (9 yr)



357_density

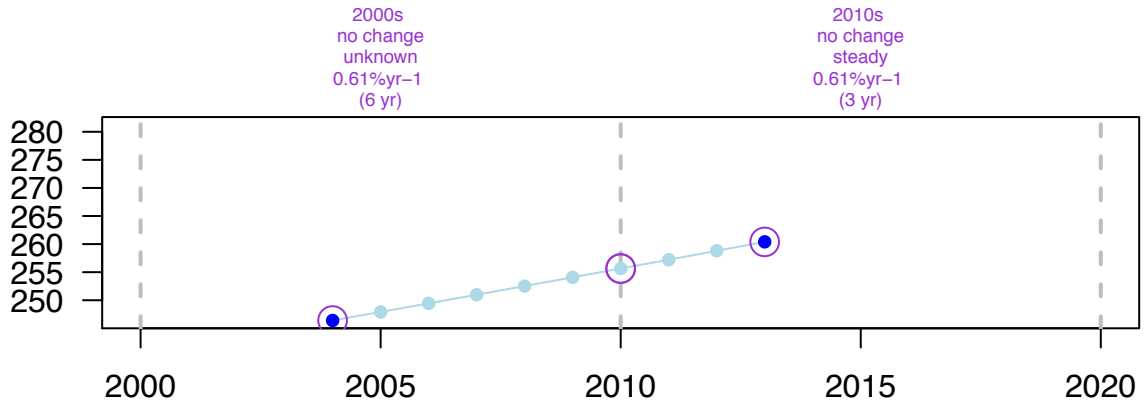
Pergent et al. 2015

SITE: Arinella (Corsica) (France – Mediterranean) – Po (-26.9 m)

OVERALL: Net = 14 shoot m⁻²; Rate = 0.61 % yr⁻¹; Perc Final = 106 % > no change

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



357_lowerlimit

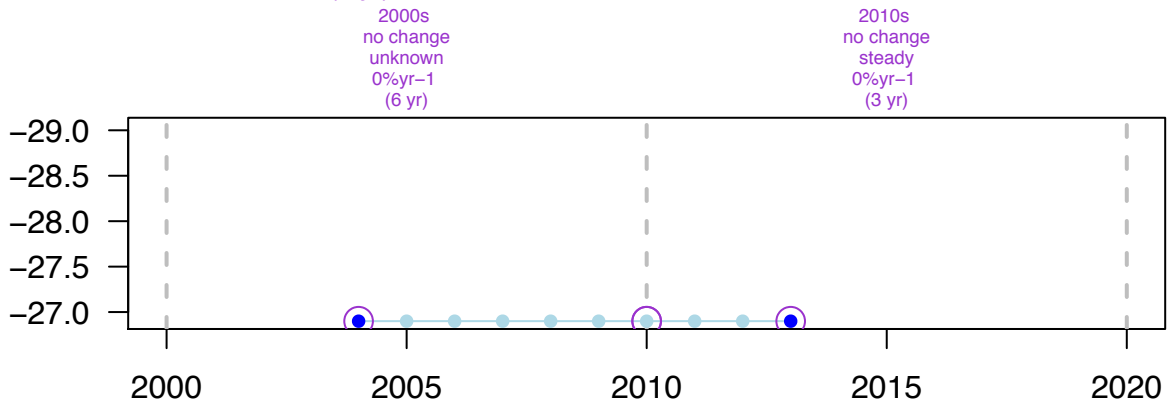
Pergent et al. 2015

SITE: Arinella (Corsica) (France – Mediterranean) – Po (-26.9 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (9 yr)

Lower depth limit (m)



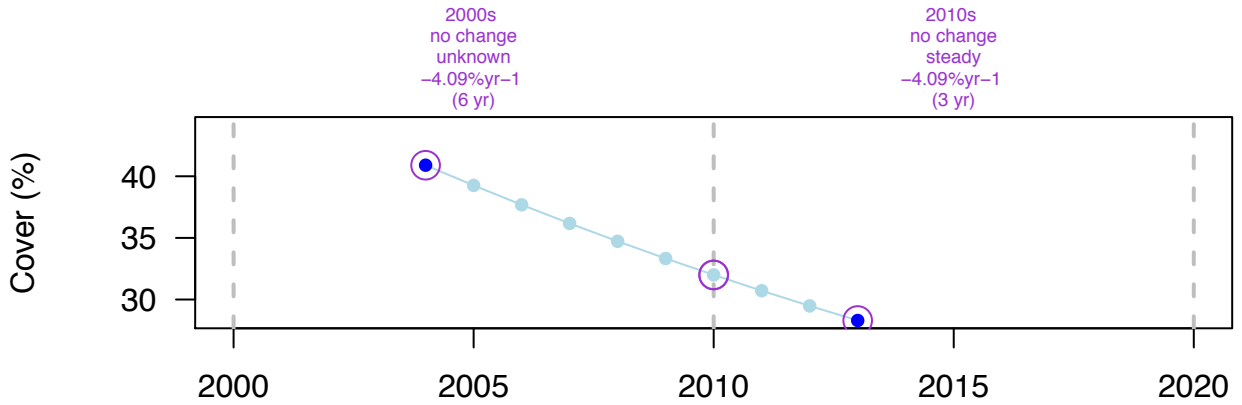
358_cover

Pergent et al. 2015

SITE: Bravone (Corsica) (France – Mediterranean) – Po (-36 m)

OVERALL: Net = -12.6 %; Rate = -4.09 % yr⁻¹; Perc Final = 69 % > decrease

DECADAL: YES (9 yr)



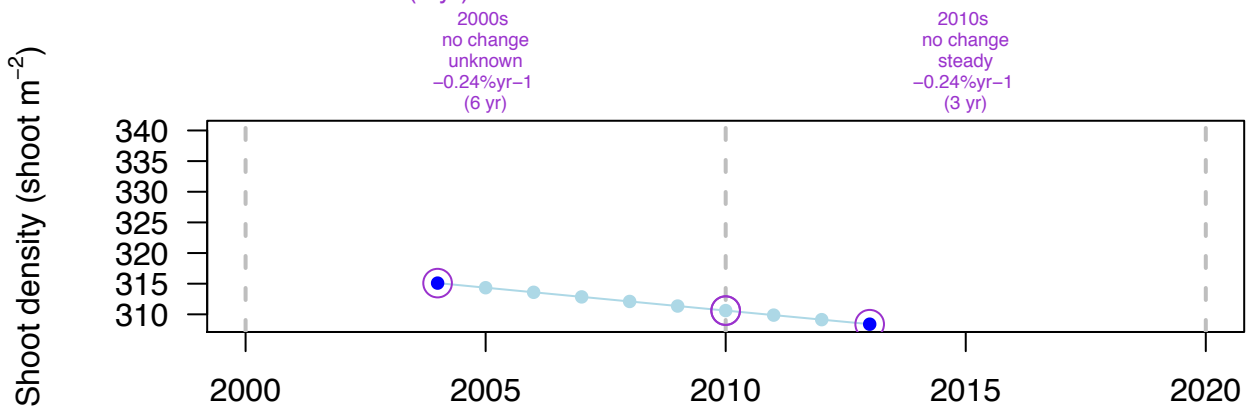
358_density

Pergent et al. 2015

SITE: Bravone (Corsica) (France – Mediterranean) – Po (-36 m)

OVERALL: Net = -6.7 shoot m⁻²; Rate = -0.24 % yr⁻¹; Perc Final = 98 % > no change

DECADAL: YES (9 yr)



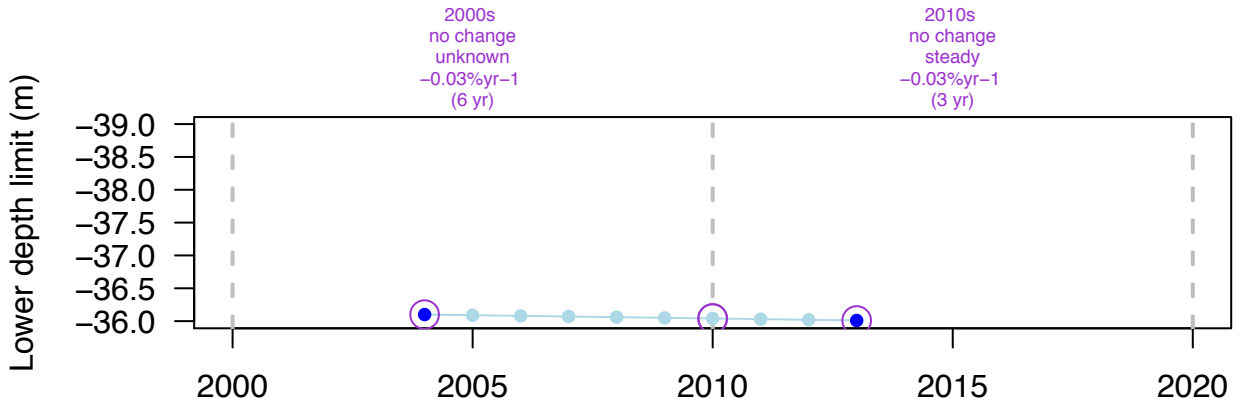
358_lowerlimit

Pergent et al. 2015

SITE: Bravone (Corsica) (France – Mediterranean) – Po (-36 m)

OVERALL: Net = -0.09 m; Rate = -0.03 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (9 yr)



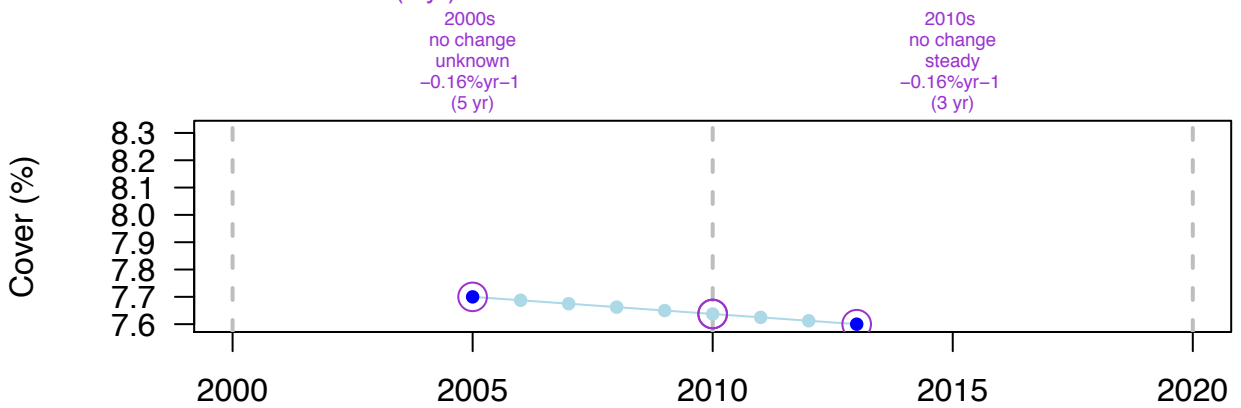
359_cover

Pergent et al. 2015

SITE: Favone (Corsica) (France – Mediterranean) – Po (-36.9 m)

OVERALL: Net = -0.1 %; Rate = -0.16 % yr⁻¹; Perc Final = 99 % > no change

DECADAL: YES (8 yr)



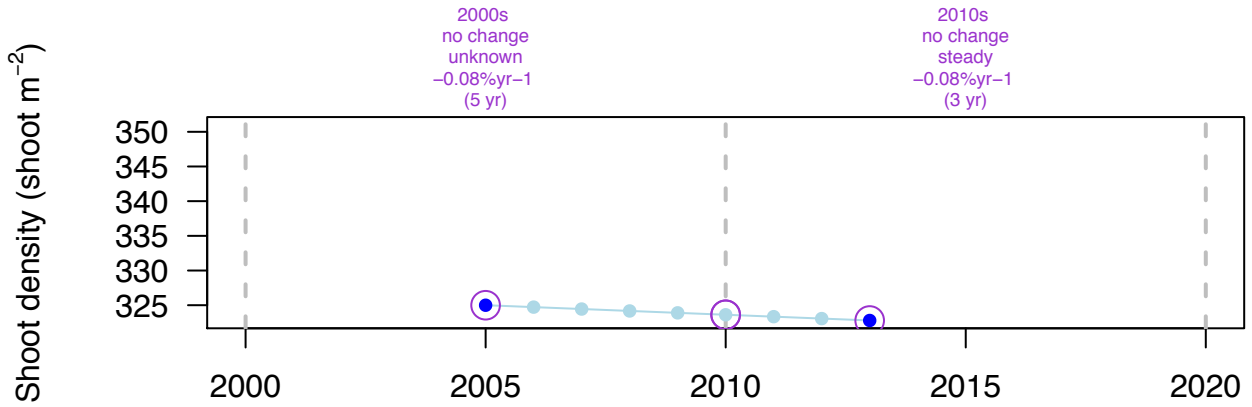
359_density

Pergent et al. 2015

SITE: Favone (Corsica) (France – Mediterranean) – Po (-36.9 m)

OVERALL: Net = -2.2 shoot m⁻²; Rate = -0.08 % yr⁻¹; Perc Final = 99 % > no change

DECADAL: YES (8 yr)



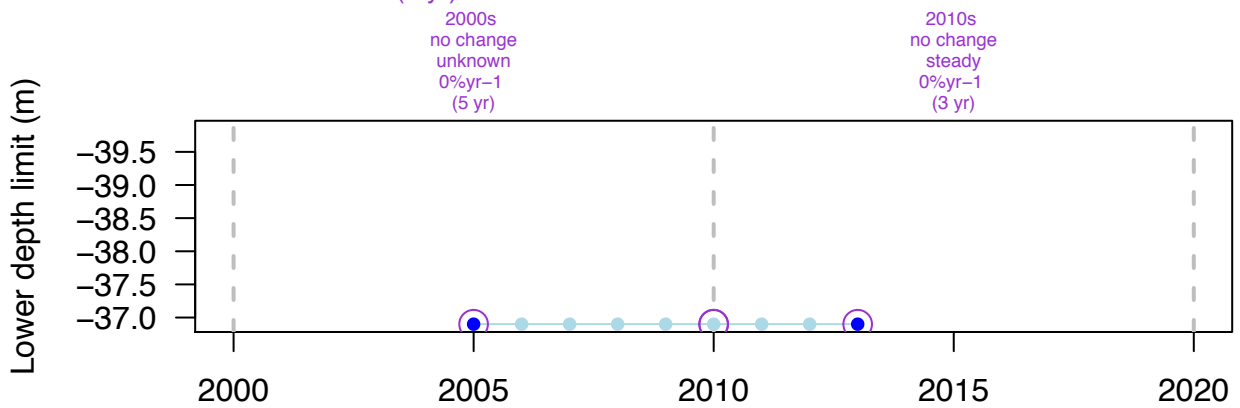
359_lowerlimit

Pergent et al. 2015

SITE: Favone (Corsica) (France – Mediterranean) – Po (-36.9 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (8 yr)



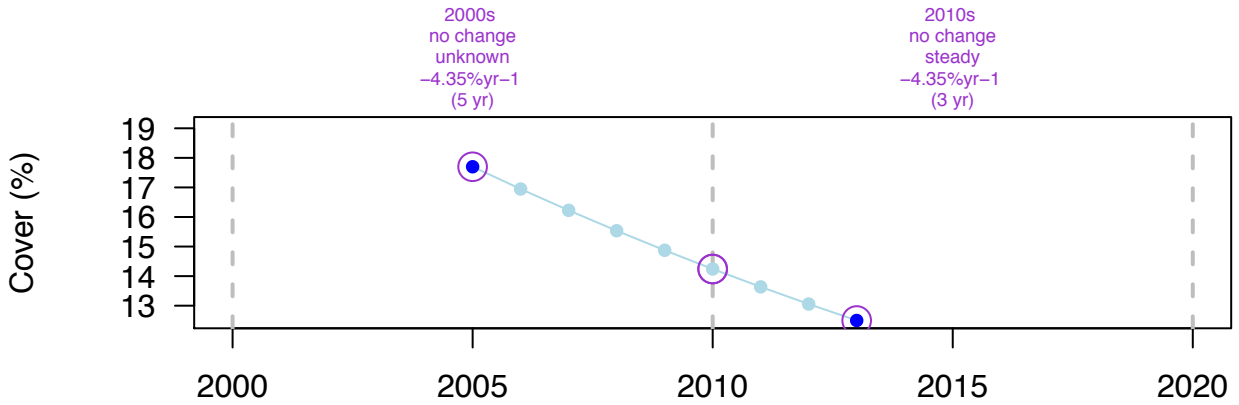
360_cover

Pergent et al. 2015

SITE: La Chiappa (Corsica) (France – Mediterranean) – Po (-35.3 m)

OVERALL: Net = -5.2 %; Rate = -4.35 % yr⁻¹; Perc Final = 71 % > decrease

DECADAL: YES (8 yr)



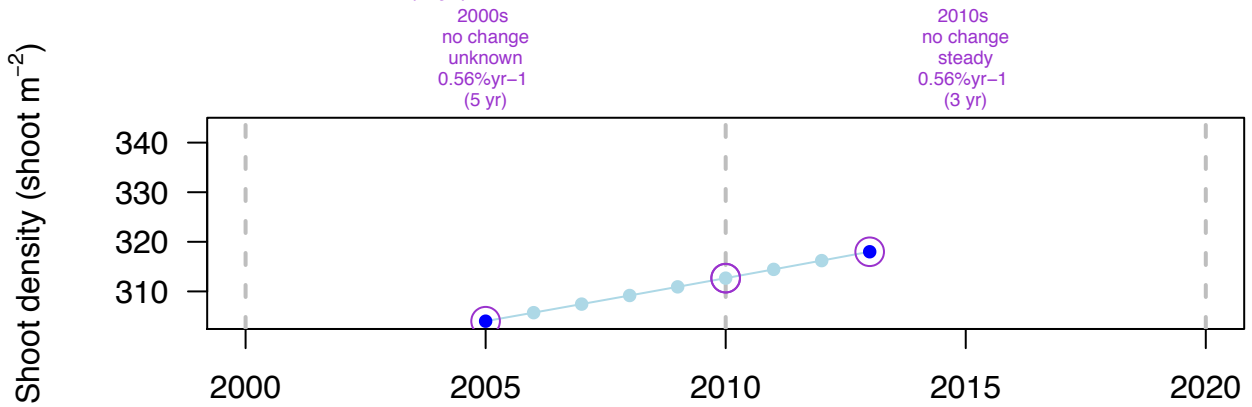
360_density

Pergent et al. 2015

SITE: La Chiappa (Corsica) (France – Mediterranean) – Po (-35.3 m)

OVERALL: Net = 14 shoot m⁻²; Rate = 0.56 % yr⁻¹; Perc Final = 105 % > no change

DECADAL: YES (8 yr)



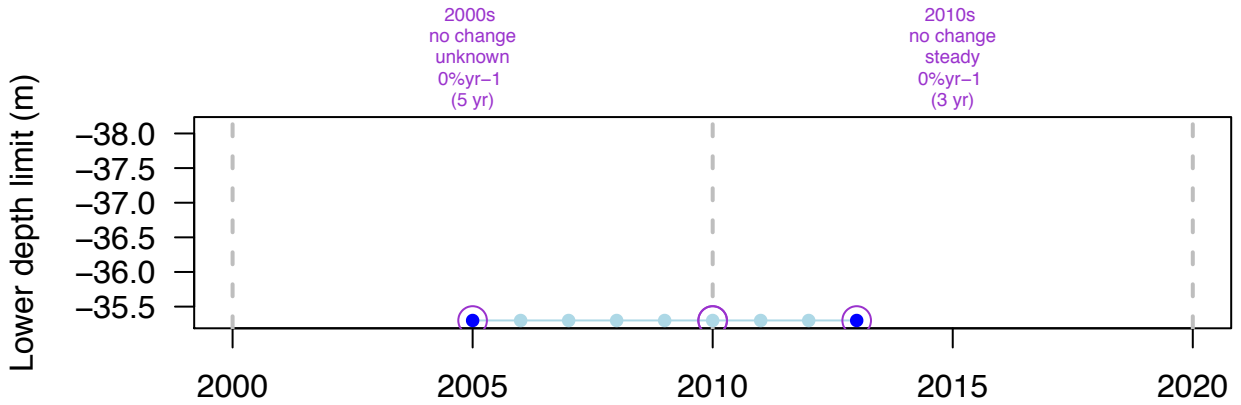
360_lowerlimit

Pergent et al. 2015

SITE: La Chiappa (Corsica) (France – Mediterranean) – Po (-35.3 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (8 yr)



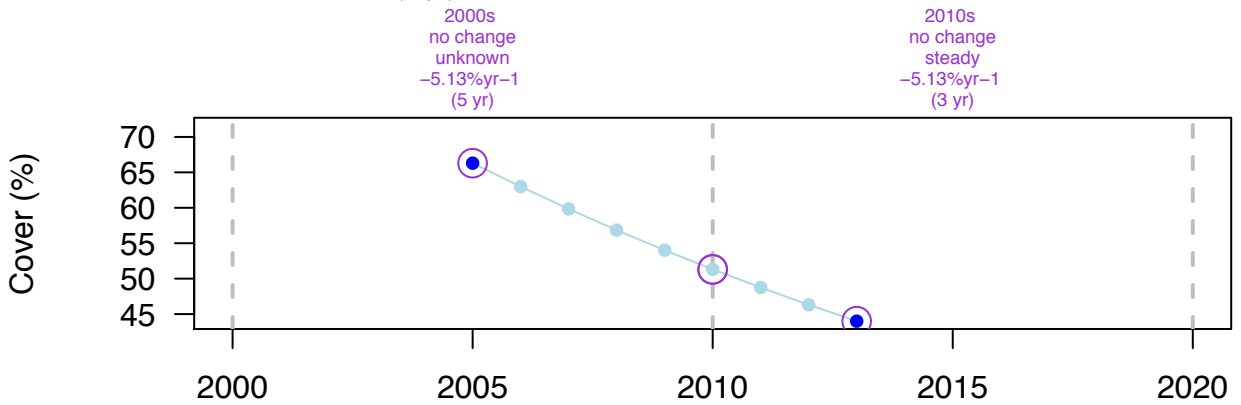
361_cover

Pergent et al. 2015

SITE: Lavezzi (Corsica) (France – Mediterranean) – Po (-30.3 m)

OVERALL: Net = -22.3 %; Rate = -5.13 % yr⁻¹; Perc Final = 66 % > decrease

DECADAL: YES (8 yr)



361_density

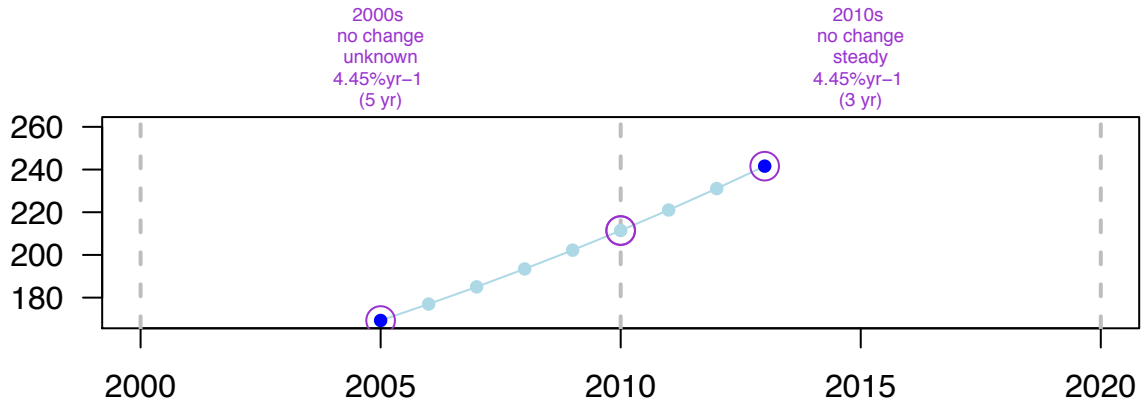
Pergent et al. 2015

SITE: Lavezzi (Corsica) (France – Mediterranean) – Po (-30.3 m)

OVERALL: Net = 72.3 shoot m⁻²; Rate = 4.45 % yr⁻¹; Perc Final = 143 % > increase

DECADAL: YES (8 yr)

Shoot density (shoot m⁻²)



361_lowerlimit

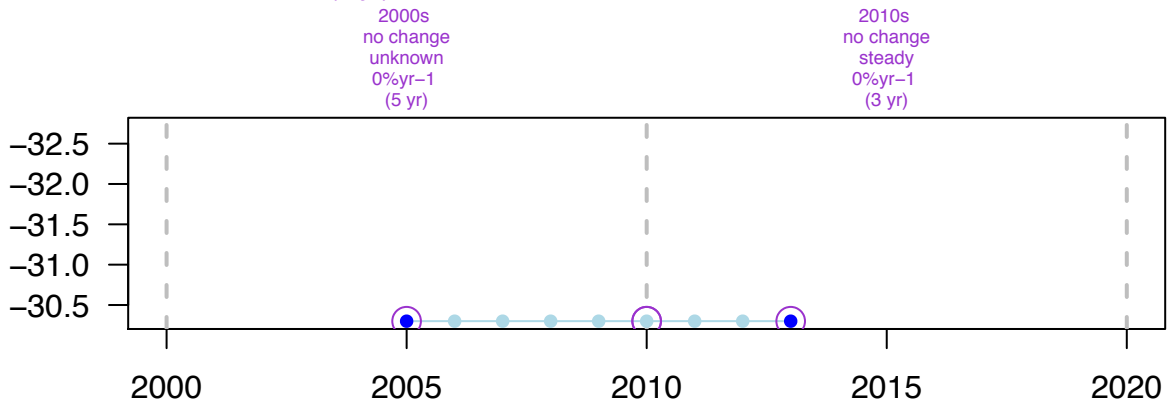
Pergent et al. 2015

SITE: Lavezzi (Corsica) (France – Mediterranean) – Po (-30.3 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (8 yr)

Lower depth limit (m)



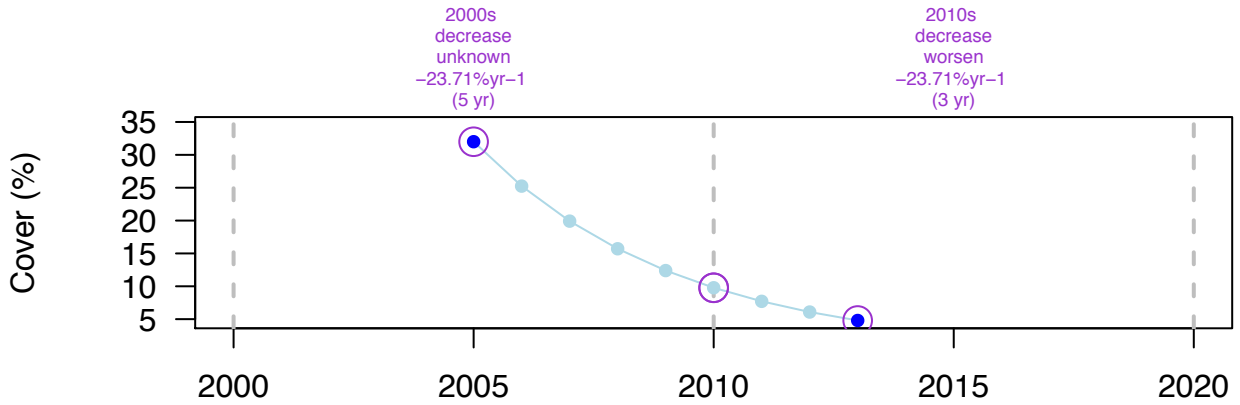
362_cover

Pergent et al. 2015

SITE: Porto Polo (Corsica) (France – Mediterranean) – Po (-36.5 m)

OVERALL: Net = -27.2 %; Rate = -23.71 % yr⁻¹; Perc Final = 15 % > decrease

DECADAL: YES (8 yr)



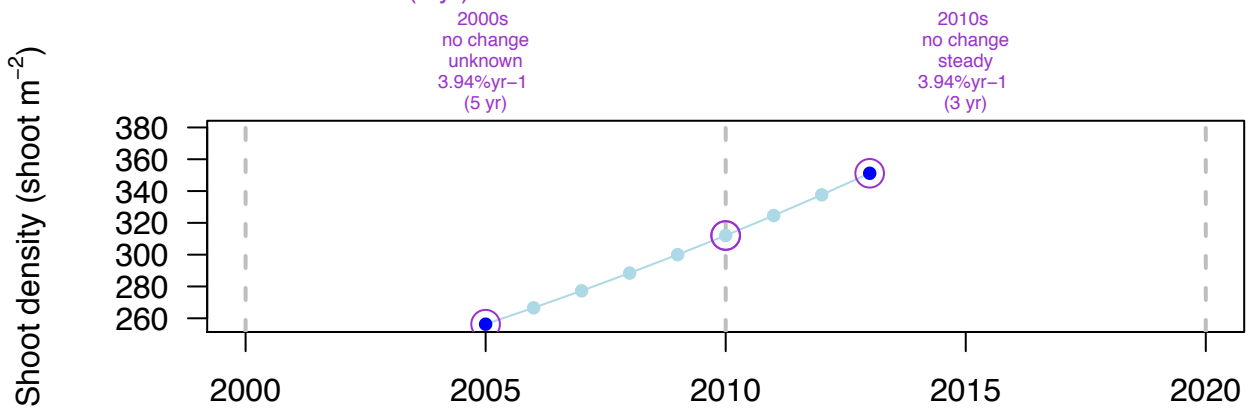
362_density

Pergent et al. 2015

SITE: Porto Polo (Corsica) (France – Mediterranean) – Po (-36.5 m)

OVERALL: Net = 94.9 shoot m⁻²; Rate = 3.94 % yr⁻¹; Perc Final = 137 % > increase

DECADAL: YES (8 yr)



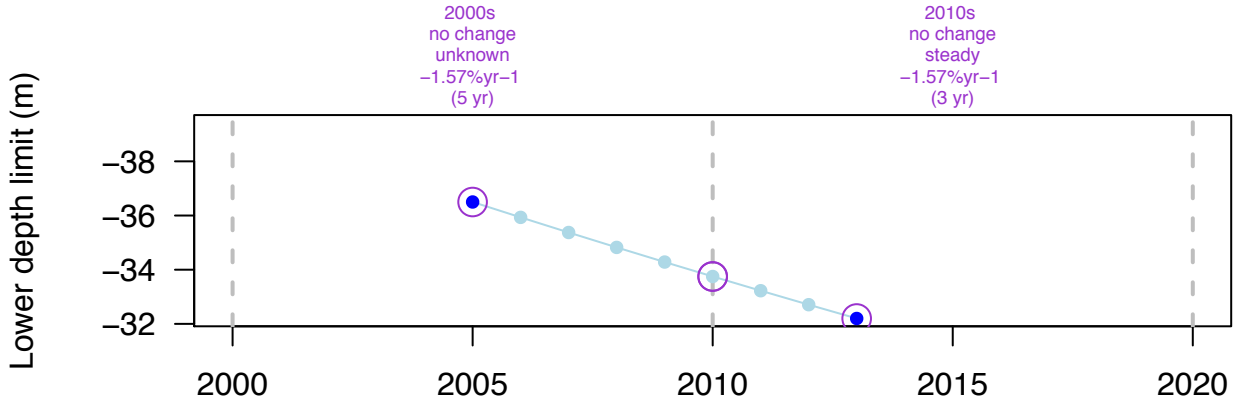
362_lowerlimit

Pergent et al. 2015

SITE: Porto Polo (Corsica) (France – Mediterranean) – Po (-36.5 m)

OVERALL: Net = -4.3 m; Rate = -1.57 % yr⁻¹; Perc Final = 88 % > decrease

DECADAL: YES (8 yr)



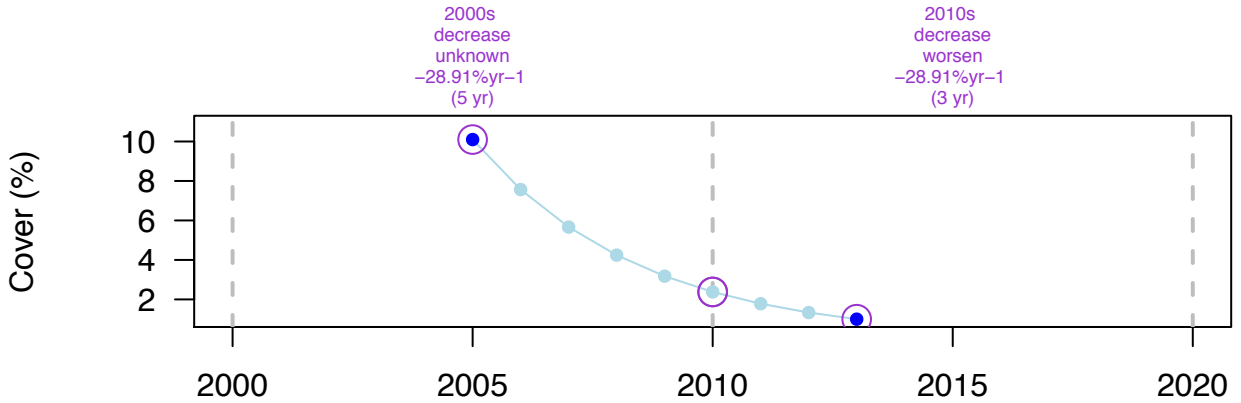
363_cover

Pergent et al. 2015

SITE: La Parata (Corsica) (France – Mediterranean) – Po (-35.3 m)

OVERALL: Net = -9.1 %; Rate = -28.91 % yr⁻¹; Perc Final = 10 % > decrease

DECADAL: YES (8 yr)



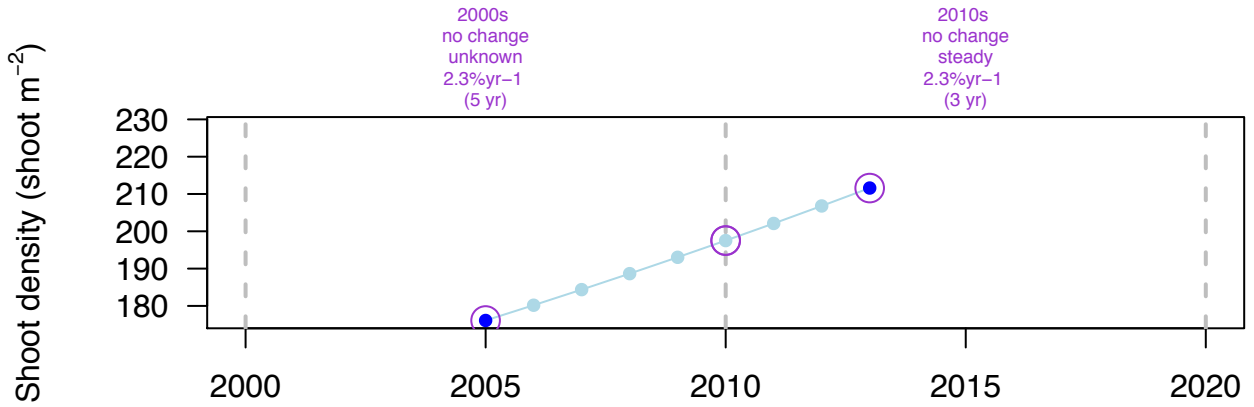
363_density

Pergent et al. 2015

SITE: La Parata (Corsica) (France – Mediterranean) – Po (-35.3 m)

OVERALL: Net = 35.5 shoot m⁻²; Rate = 2.3 % yr⁻¹; Perc Final = 120 % > no change

DECADAL: YES (8 yr)



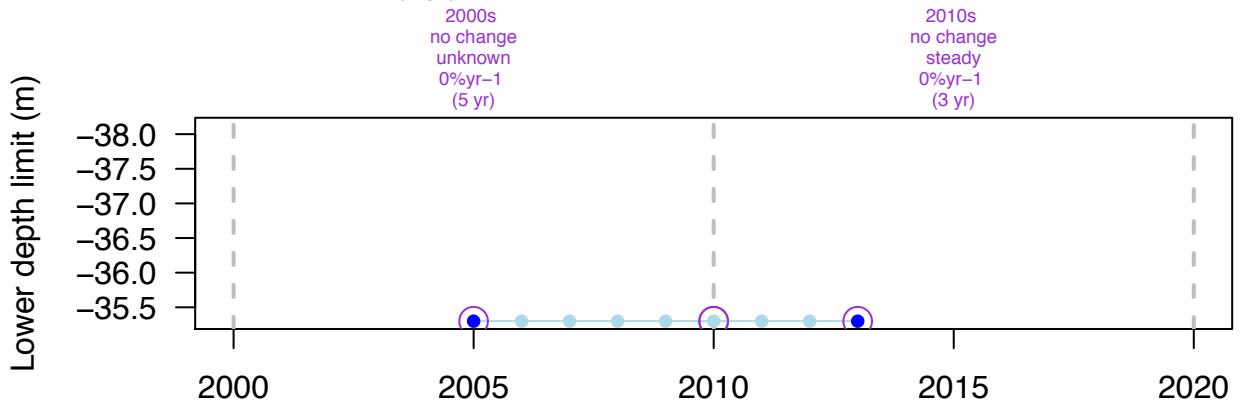
363_lowerlimit

Pergent et al. 2015

SITE: La Parata (Corsica) (France – Mediterranean) – Po (-35.3 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (8 yr)



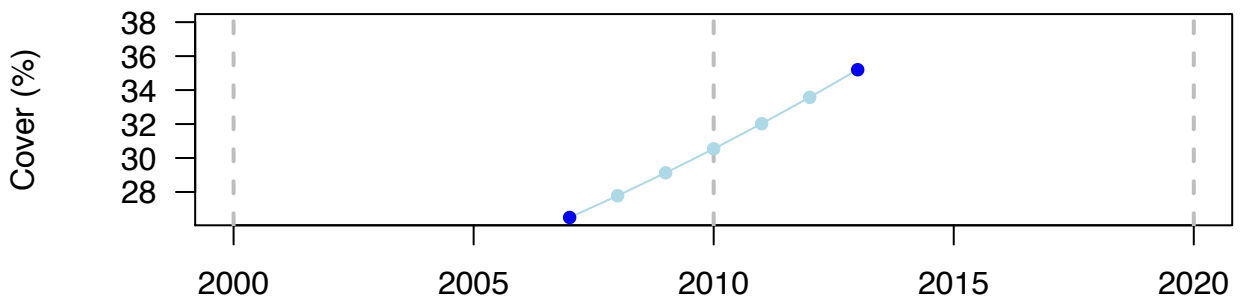
364_cover

Pergent et al. 2015

SITE: Sagone (Corsica) (France – Mediterranean) – Po (-33.2 m)

OVERALL: Net = 8.7 %; Rate = 4.73 % yr⁻¹; Perc Final = 133 % > increase

DECADAL: NO (6 yr)



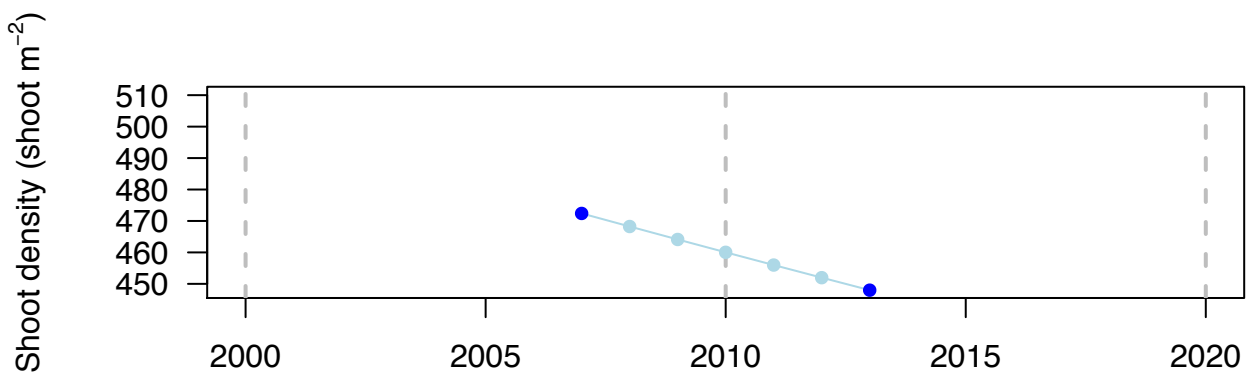
364_density

Pergent et al. 2015

SITE: Sagone (Corsica) (France – Mediterranean) – Po (-33.2 m)

OVERALL: Net = -24.4 shoot m⁻²; Rate = -0.88 % yr⁻¹; Perc Final = 95 % > no change

DECADAL: NO (6 yr)



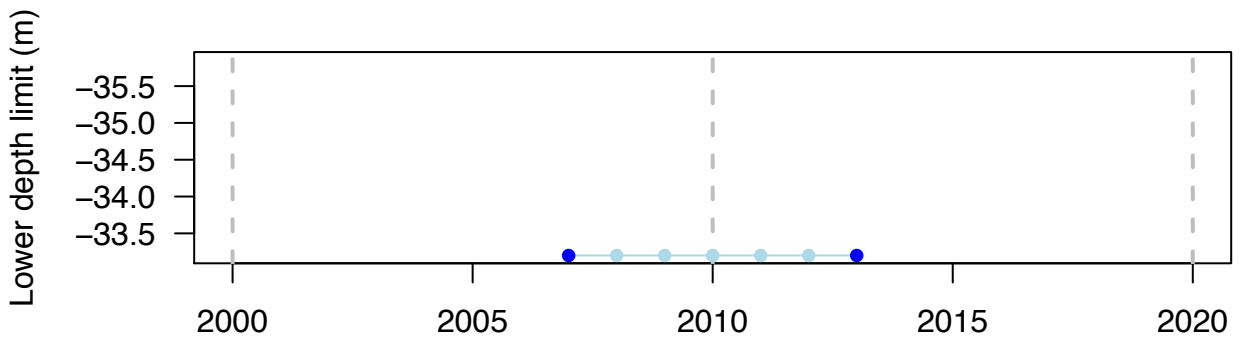
364_lowerlimit

Pergent et al. 2015

SITE: Sagone (Corsica) (France – Mediterranean) – Po (-33.2 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (6 yr)



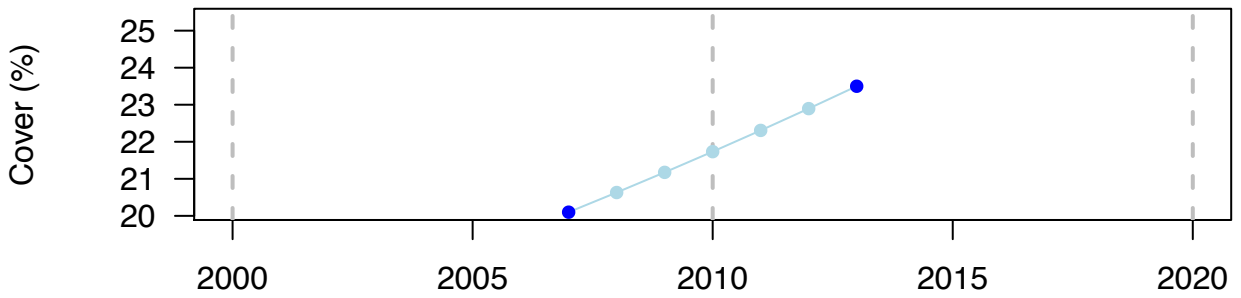
365_cover

Pergent et al. 2015

SITE: Porto (Corsica) (France – Mediterranean) – Po (-36.5 m)

OVERALL: Net = 3.4 %; Rate = 2.6 % yr⁻¹; Perc Final = 117 % > no change

DECADAL: NO (6 yr)



365_density

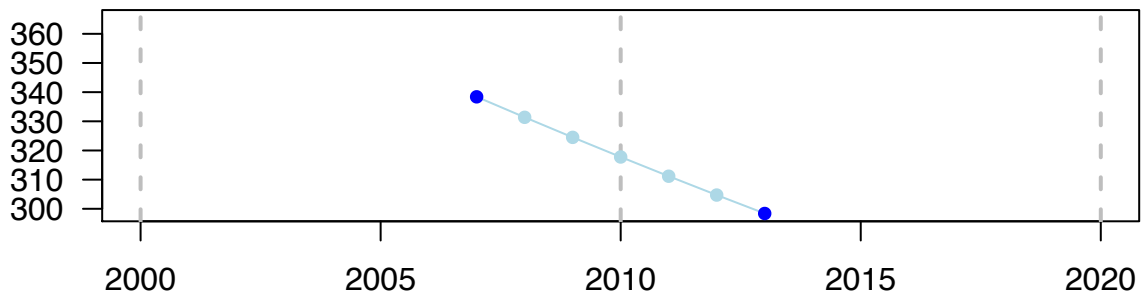
Pergent et al. 2015

SITE: Porto (Corsica) (France – Mediterranean) – Po (-36.5 m)

OVERALL: Net = -40 shoot m⁻²; Rate = -2.1 % yr⁻¹; Perc Final = 88 % > no change

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



365_lowerlimit

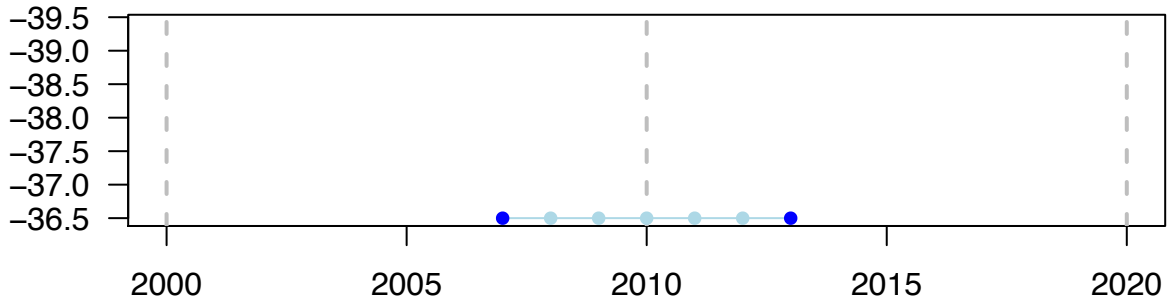
Pergent et al. 2015

SITE: Porto (Corsica) (France – Mediterranean) – Po (-36.5 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (6 yr)

Lower depth limit (m)



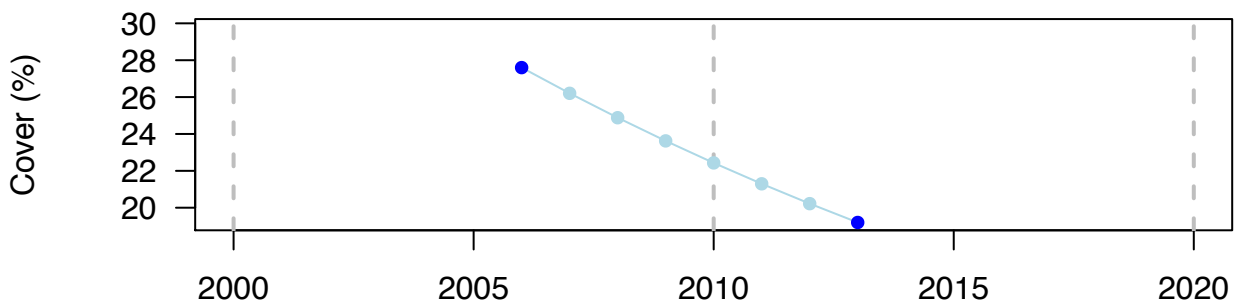
366_cover

Pergent et al. 2015

SITE: Stareso (Corsica) (France – Mediterranean) – Po (-38.6 m)

OVERALL: Net = -8.4 %; Rate = -5.18 % yr⁻¹; Perc Final = 70 % > decrease

DECADAL: NO (7 yr)



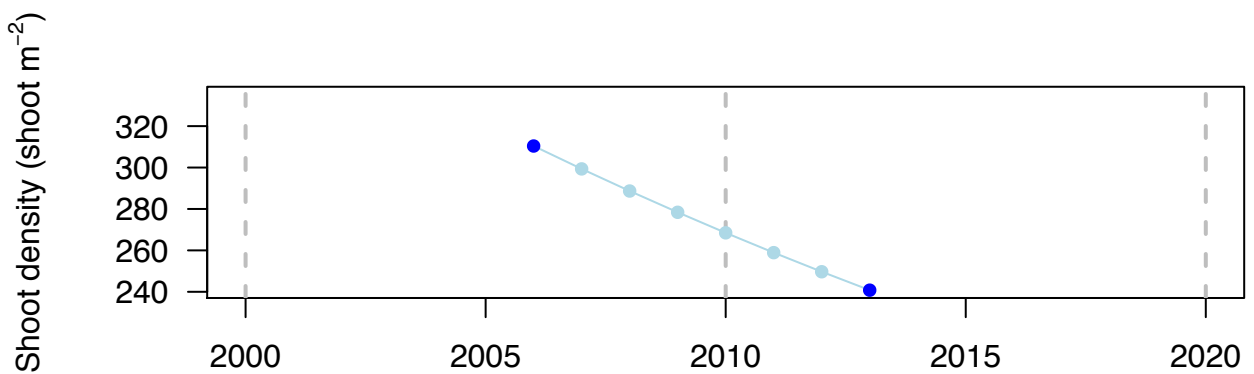
366_density

Pergent et al. 2015

SITE: Stareso (Corsica) (France – Mediterranean) – Po (-38.6 m)

OVERALL: Net = -69.6 shoot m⁻²; Rate = -3.63 % yr⁻¹; Perc Final = 78 % > no change

DECADAL: NO (7 yr)



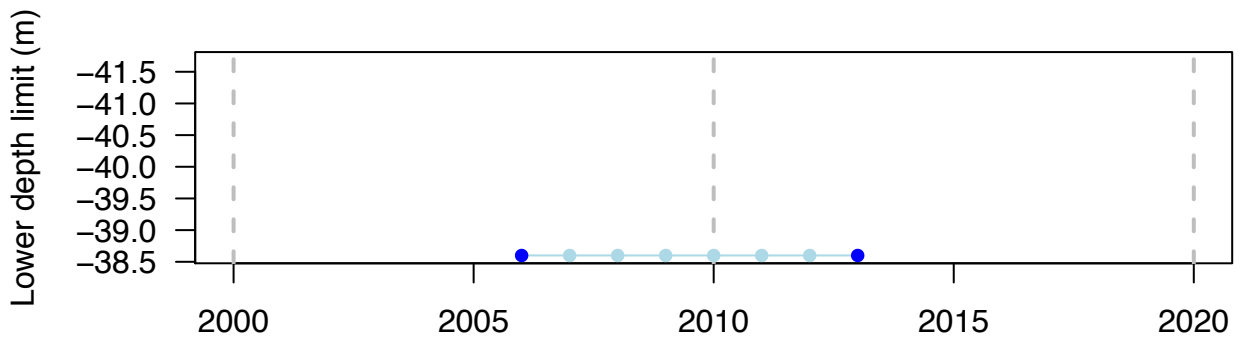
366_lowerlimit

Pergent et al. 2015

SITE: Stareso (Corsica) (France – Mediterranean) – Po (-38.6 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (7 yr)



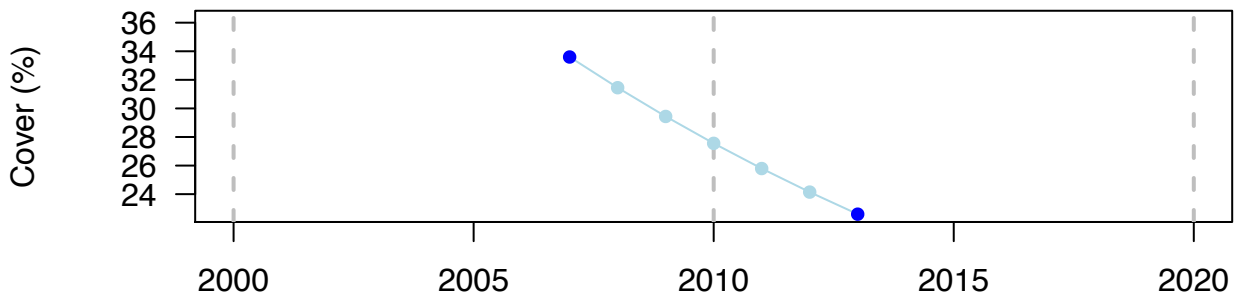
367_cover

Pergent et al. 2015

SITE: L'Île Rousse (Corsica) (France – Mediterranean) – Po (-35.8 m)

OVERALL: Net = -11 %; Rate = -6.61 % yr⁻¹; Perc Final = 67 % > decrease

DECADAL: NO (6 yr)



367_density

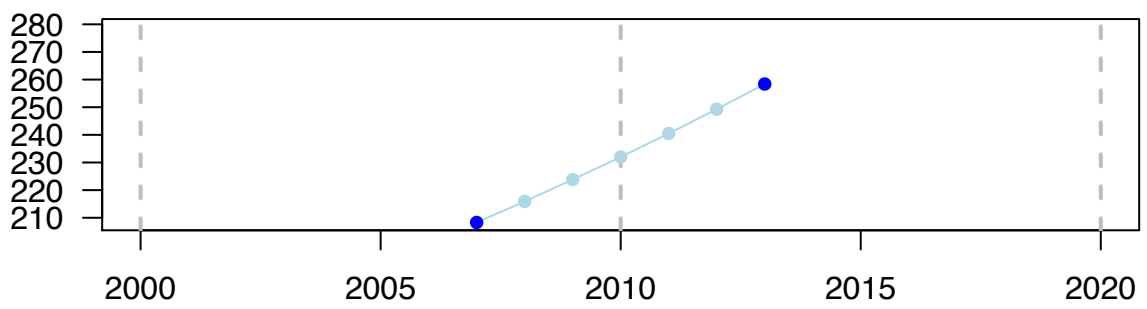
Pergent et al. 2015

SITE: L'Île Rousse (Corsica) (France – Mediterranean) – Po (-35.8 m)

OVERALL: Net = 50.1 shoot m⁻²; Rate = 3.59 % yr⁻¹; Perc Final = 124 % > no change

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



367_lowerlimit

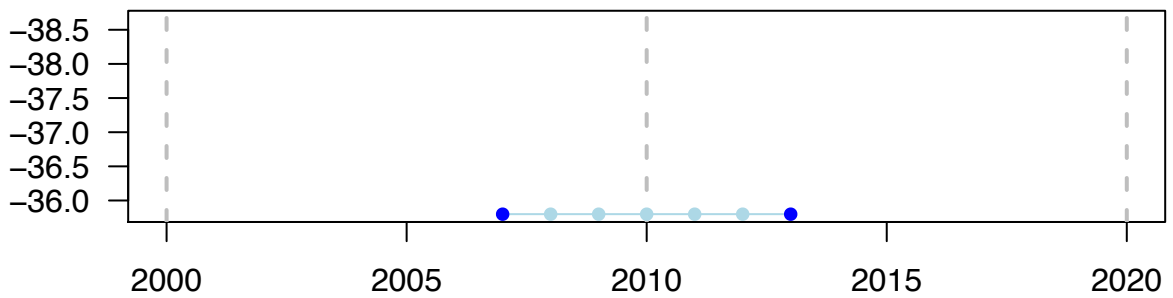
Pergent et al. 2015

SITE: L'Île Rousse (Corsica) (France – Mediterranean) – Po (-35.8 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (6 yr)

Lower depth limit (m)



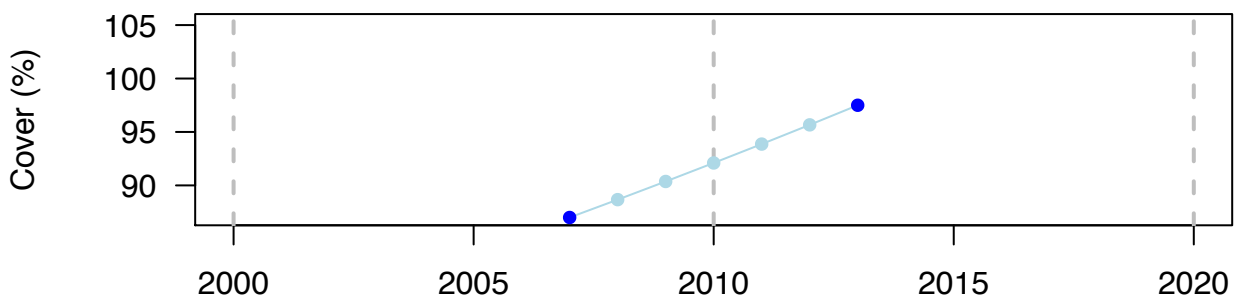
368_cover

Pergent et al. 2015

SITE: Canari (Corsica) (France – Mediterranean) – Po (-27.4 m)

OVERALL: Net = 10.5 %; Rate = 1.9 % yr⁻¹; Perc Final = 112 % > no change

DECADAL: NO (6 yr)



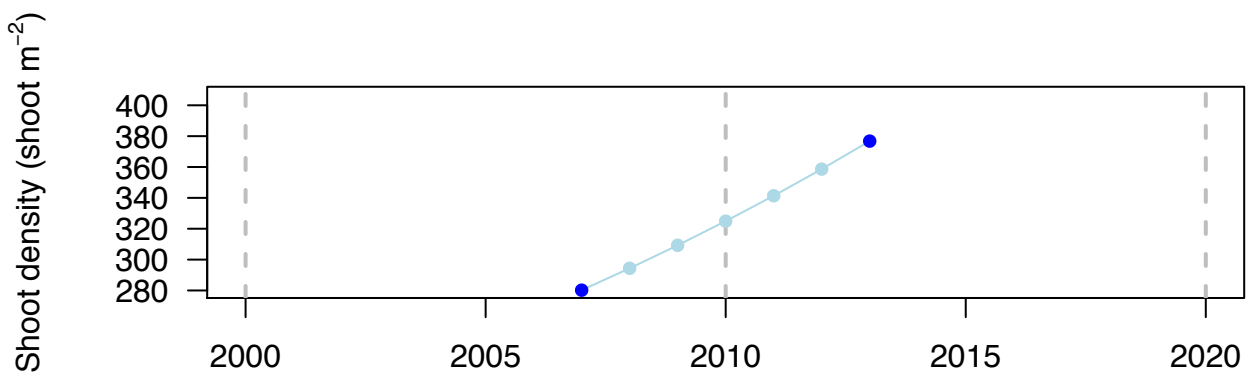
368_density

Pergent et al. 2015

SITE: Canari (Corsica) (France – Mediterranean) – Po (-27.4 m)

OVERALL: Net = 96.6 shoot m⁻²; Rate = 4.94 % yr⁻¹; Perc Final = 134 % > increase

DECADAL: NO (6 yr)



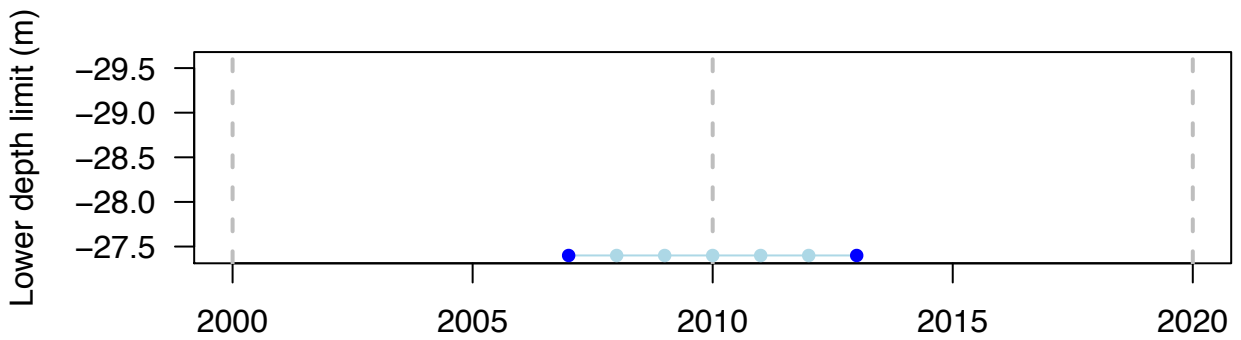
368_lowerlimit

Pergent et al. 2015

SITE: Canari (Corsica) (France – Mediterranean) – Po (-27.4 m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (6 yr)



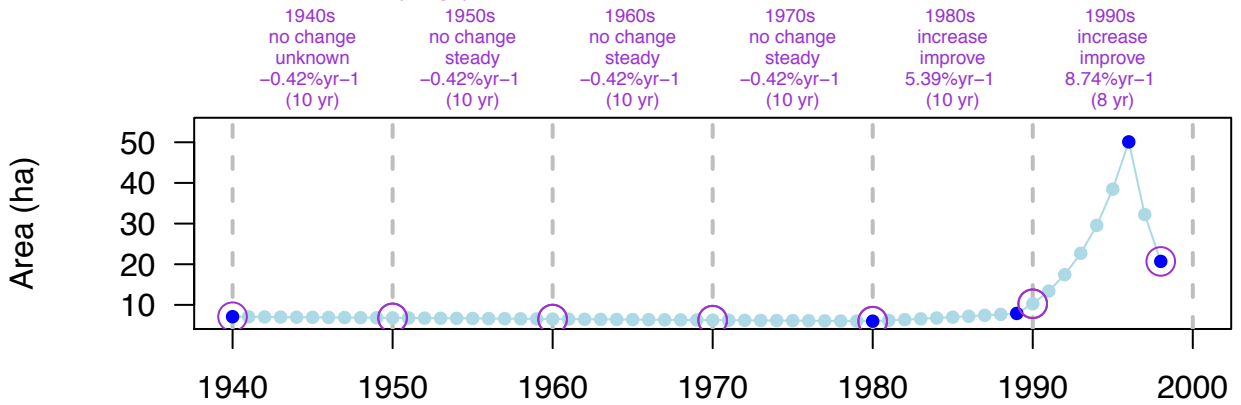
370_area

Cunha et al. 2005

SITE: Ancão Inlet (Portugal – Atlantic) – Zn (0 m)

OVERALL: Net = 13.6 ha; Rate = 1.84 % yr⁻¹; Perc Final = 292 % > increase

DECADAL: YES (58 yr)



1940s
no change
unknown
-0.42%yr⁻¹
(10 yr)

1950s
no change
steady
-0.42%yr⁻¹
(10 yr)

1960s
no change
steady
-0.42%yr⁻¹
(10 yr)

1970s
no change
steady
-0.42%yr⁻¹
(10 yr)

1980s
increase
improve
5.39%yr⁻¹
(10 yr)

1990s
increase
improve
8.74%yr⁻¹
(8 yr)

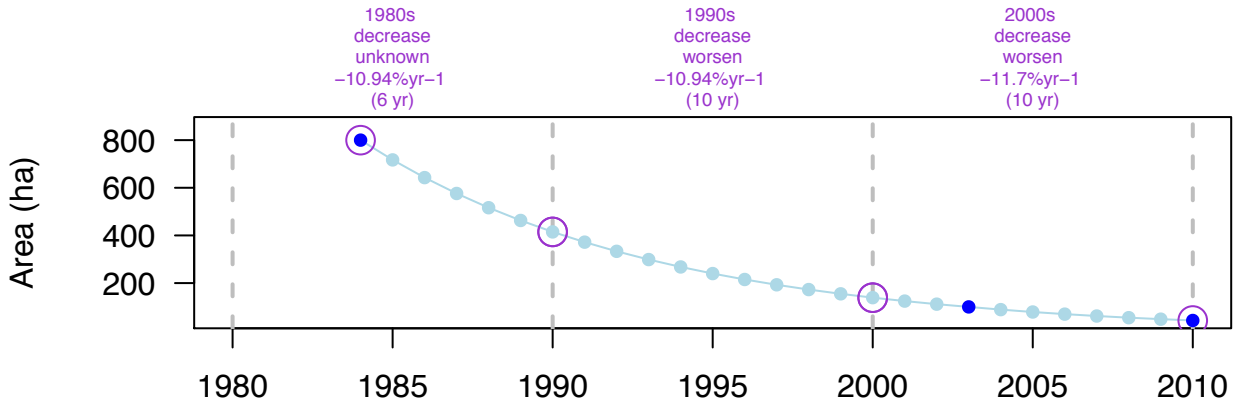
371_area

da Silva et al. 2004, Cunha et al. 2013, Azevedo et al. 2013

SITE: Canal de Ovar (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -756.9 ha; Rate = -11.23 % yr⁻¹; Perc Final = 5 % > decrease

DECADAL: YES (26 yr)



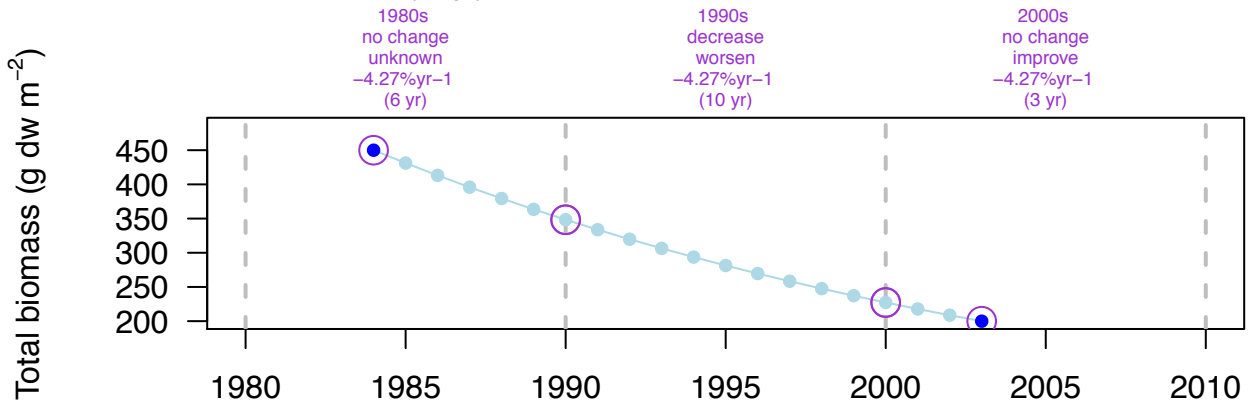
371_biomass

da Silva et al. 2004, Cunha et al. 2013, Azevedo et al. 2013

SITE: Canal de Ovar (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -250 g dw m⁻²; Rate = -4.27 % yr⁻¹; Perc Final = 44 % > decrease

DECADAL: YES (19 yr)



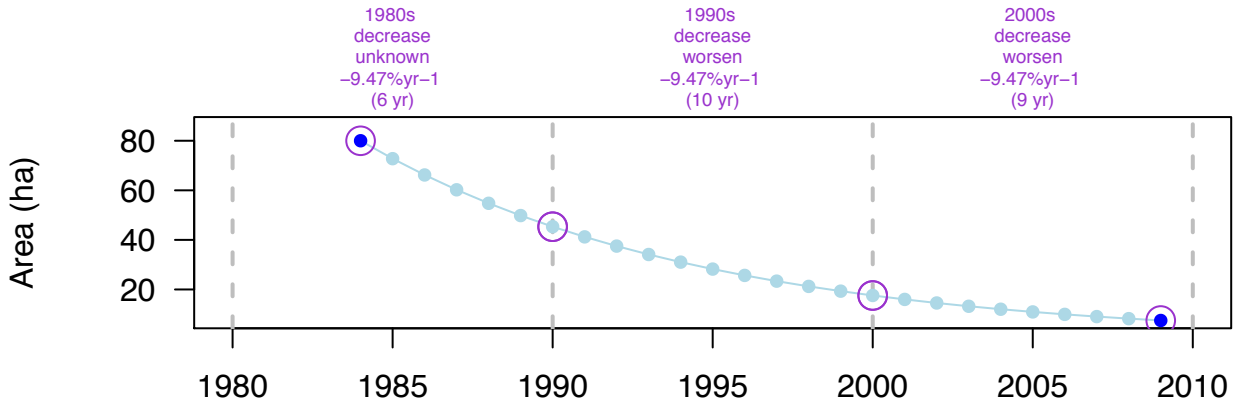
372_area

Cunha et al. 2013

SITE: Mira River (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -72.5 ha; Rate = -9.47 % yr⁻¹; Perc Final = 9 % > decrease

DECADAL: YES (25 yr)



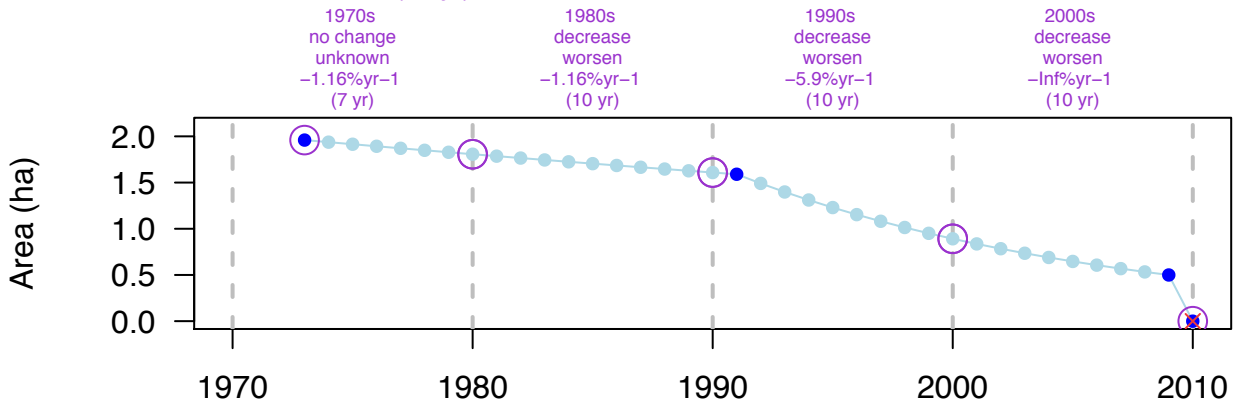
373_area

Cunha et al. 2013

SITE: Ria de Alvor (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -1.96 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (37 yr)



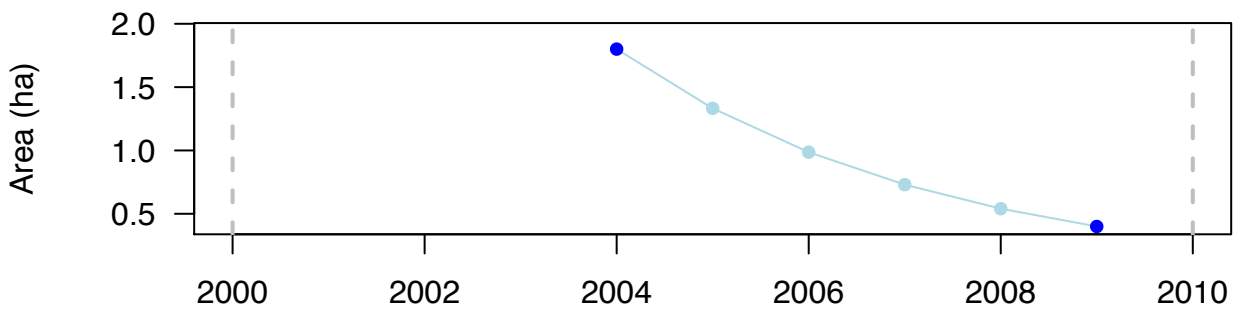
374_area

Cunha et al. 2013

SITE: Arade River (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -1.4 ha; Rate = -30.08 % yr⁻¹; Perc Final = 22 % > decrease

DECADAL: NO (5 yr)



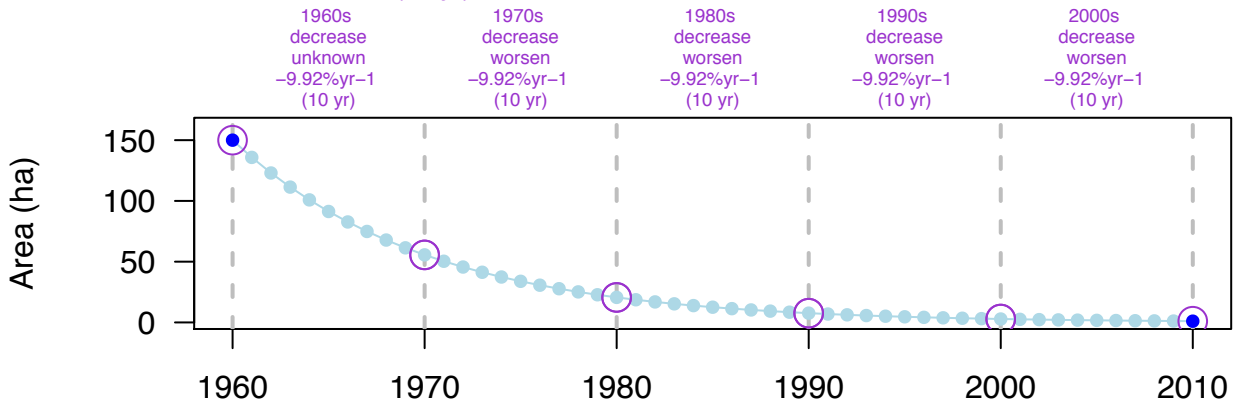
375_area

Cunha et al. 2013

SITE: Óbidos Lagoon (Portugal – Atlantic) – Zm (? m)

OVERALL: Net = -148.95 ha; Rate = -9.92 % yr⁻¹; Perc Final = 1 % > decrease

DECADAL: YES (50 yr)



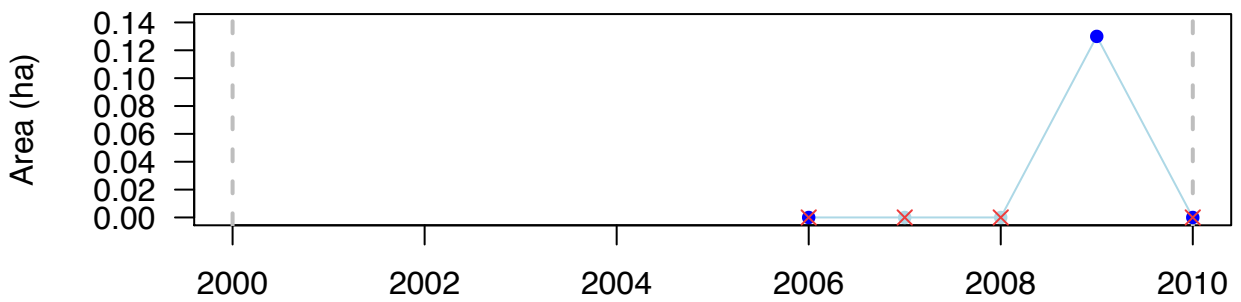
376_area

Cunha et al. 2013

SITE: Costa da Galé (Portugal – Atlantic) – Zm (? m)

OVERALL: Net = 0 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (4 yr)



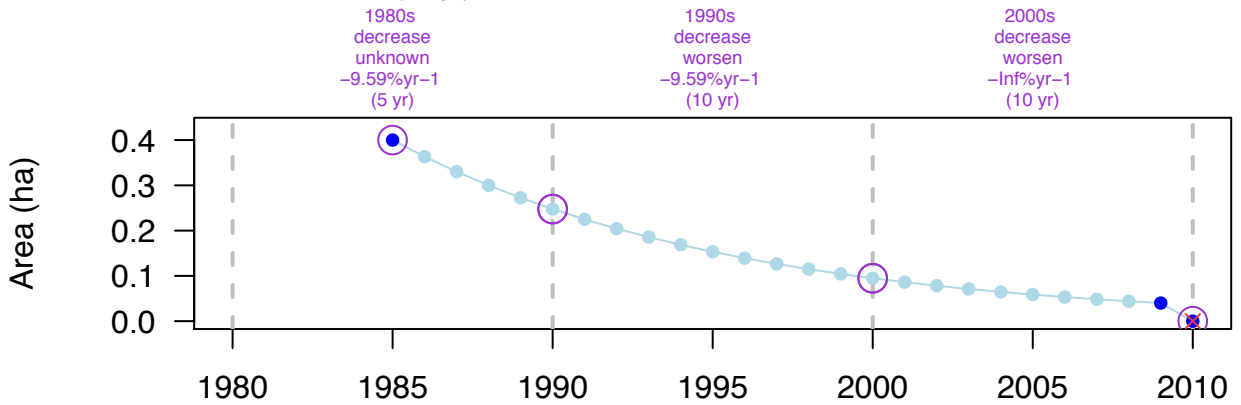
377_area

Cunha et al. 2013

SITE: Mira River (Portugal – Atlantic) – Zm (? m)

OVERALL: Net = -0.4 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (25 yr)



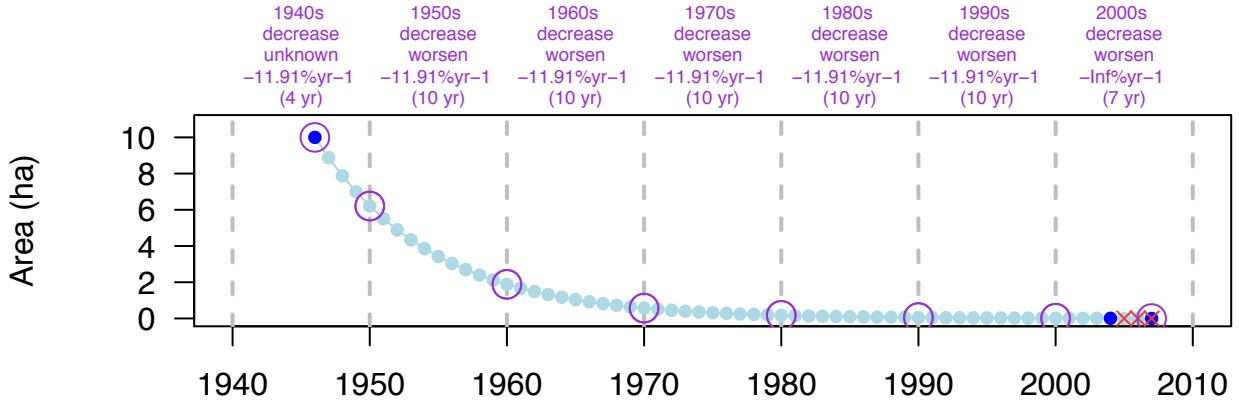
378_area

Cunha et al. 2013

SITE: Portinho da Arrábida (Portugal – Atlantic) – Zm (? m)

OVERALL: Net = -10 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (61 yr)



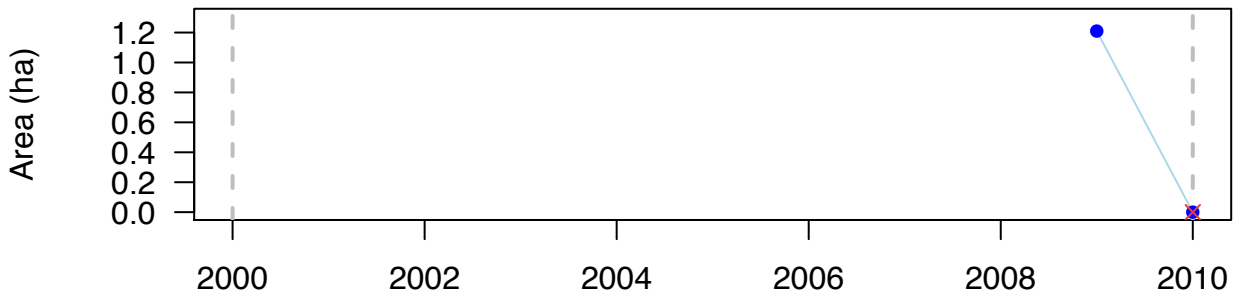
379_area

Cunha et al. 2013

SITE: Ponta do Adoche (Portugal – Atlantic) – Zm (? m)

OVERALL: Net = -1.21 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (1 yr)



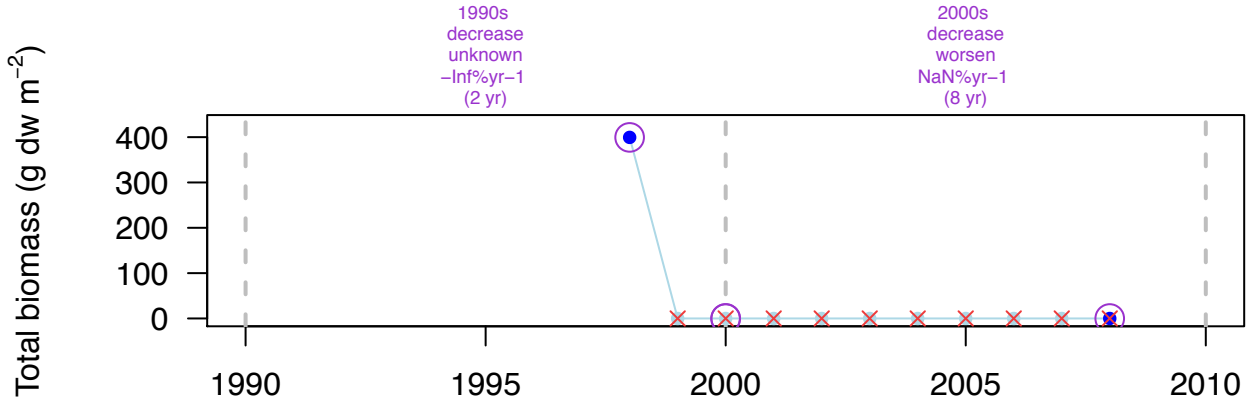
381_biomass

Cabaço et al. 2010, Cabaço and Santos 2014, Cabaço and Santos (unpublished)

SITE: Ancão Peninsula (meadow A) (Portugal – Atlantic) – Cn (? m)

OVERALL: Net = -399.52 g dw m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (10 yr)



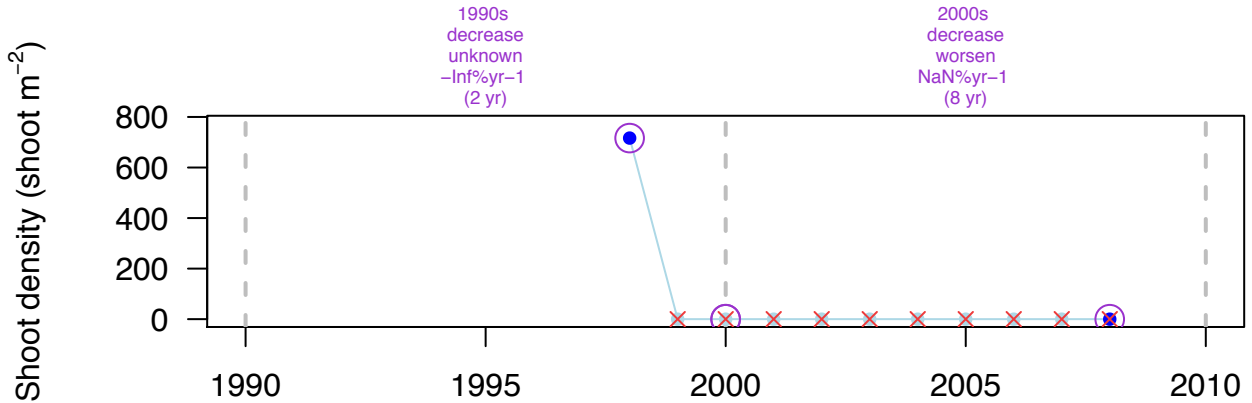
381_density

Cabaço et al. 2010, Cabaço and Santos 2014, Cabaço and Santos (unpublished)

SITE: Ancão Peninsula (meadow A) (Portugal – Atlantic) – Cn (? m)

OVERALL: Net = -716.56 shoot m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (10 yr)



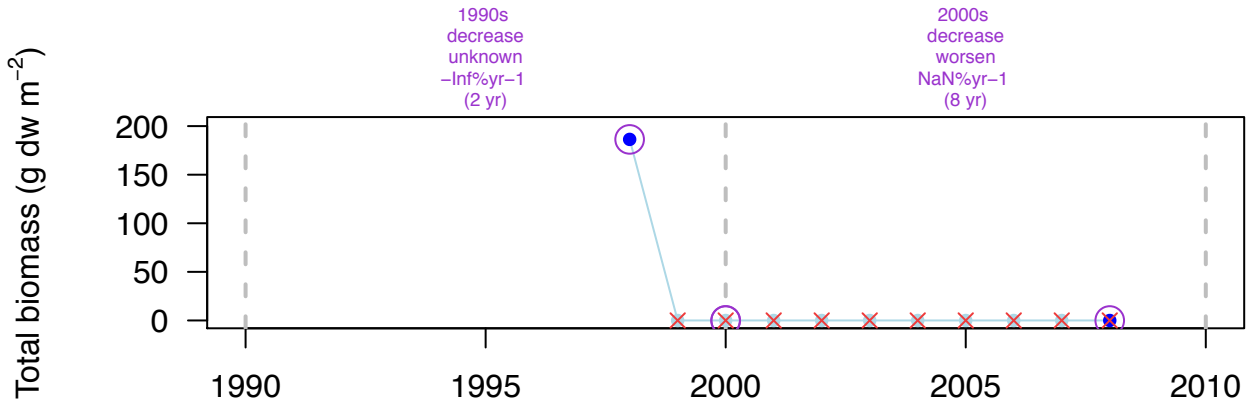
382_biomass

Cabaço et al. 2010, Cabaço and Santos 2014, Cabaço and Santos (unpublished)

SITE: Ancão Peninsula (meadow B) (Portugal – Atlantic) – Cn (? m)

OVERALL: Net = $-186.35 \text{ g dw m}^{-2}$; Rate = NA % yr $^{-1}$; Perc Final = NA % > decrease

DECADAL: YES (10 yr)



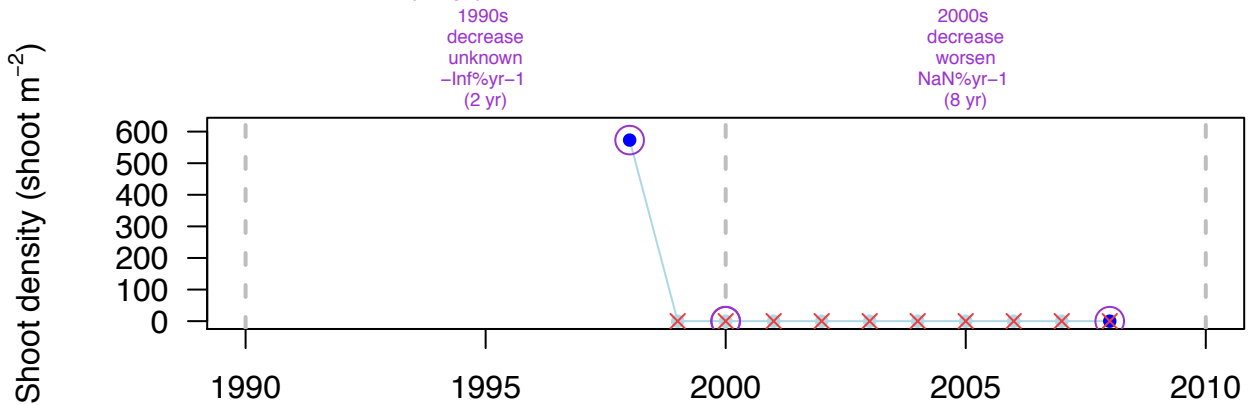
382_density

Cabaço et al. 2010, Cabaço and Santos 2014, Cabaço and Santos (unpublished)

SITE: Ancão Peninsula (meadow B) (Portugal – Atlantic) – Cn (? m)

OVERALL: Net = $-573.25 \text{ shoot m}^{-2}$; Rate = NA % yr $^{-1}$; Perc Final = NA % > decrease

DECADAL: YES (10 yr)



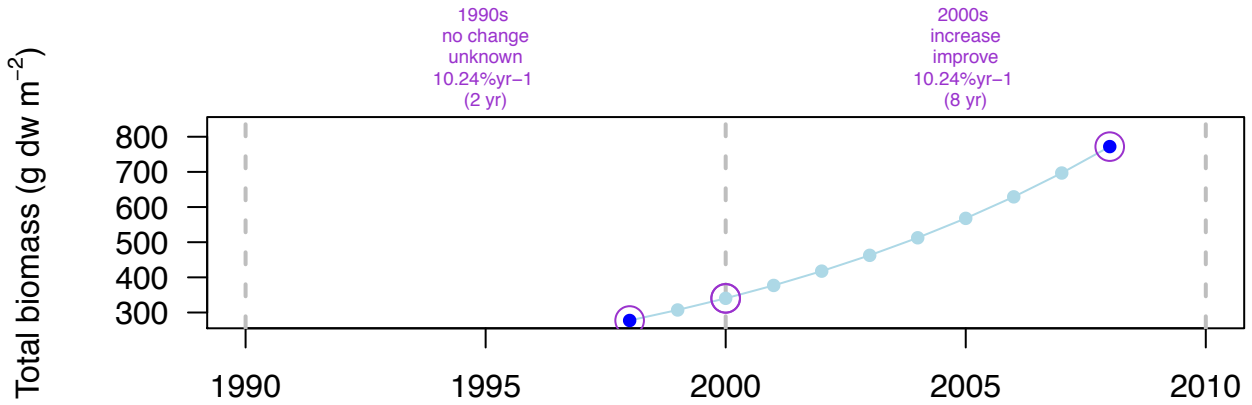
383_biomass

Cabaço et al. 2010, Cabaço and Santos 2014, Cabaço and Santos (unpublished)

SITE: Ancão Peninsula (meadow C) (Portugal – Atlantic) – Cn (? m)

OVERALL: Net = 494.65 g dw m⁻²; Rate = 10.24 % yr⁻¹; Perc Final = 278 % > increase

DECADAL: YES (10 yr)



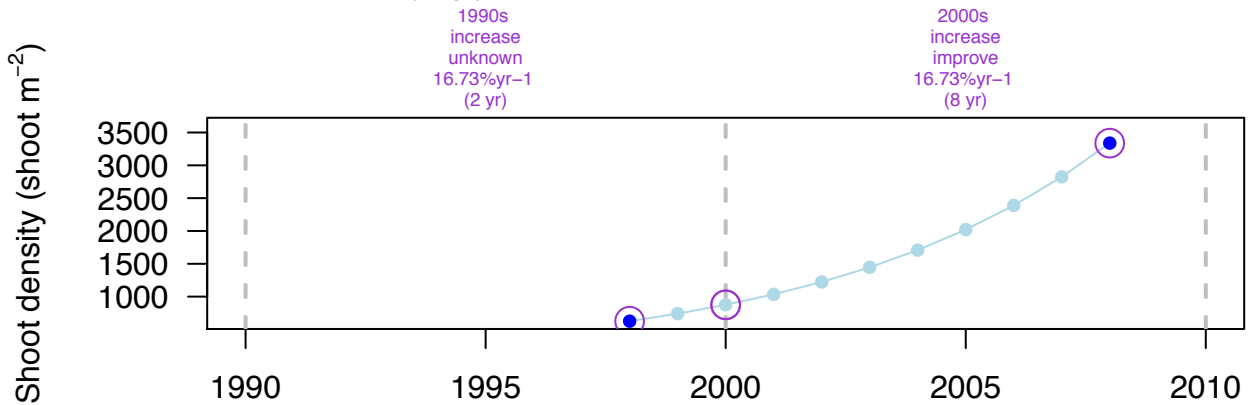
383_density

Cabaço et al. 2010, Cabaço and Santos 2014, Cabaço and Santos (unpublished)

SITE: Ancão Peninsula (meadow C) (Portugal – Atlantic) – Cn (? m)

OVERALL: Net = 2712.31 shoot m⁻²; Rate = 16.73 % yr⁻¹; Perc Final = 533 % > increase

DECADAL: YES (10 yr)



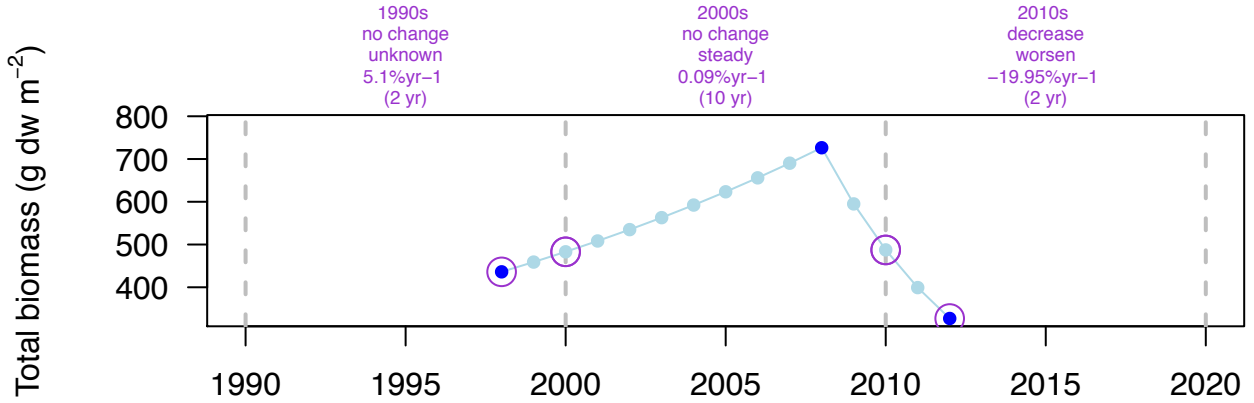
384_biomass

Cabaço et al. 2010, Cabaço and Santos 2014, Cabaço and Santos (unpublished)

SITE: Ramalhete (meadow D) (Portugal – Atlantic) – Cn (? m)

OVERALL: Net = $-109.11 \text{ g dw m}^{-2}$; Rate = -2.06 \% yr^{-1} ; Perc Final = 75 % > decrease

DECADAL: YES (14 yr)



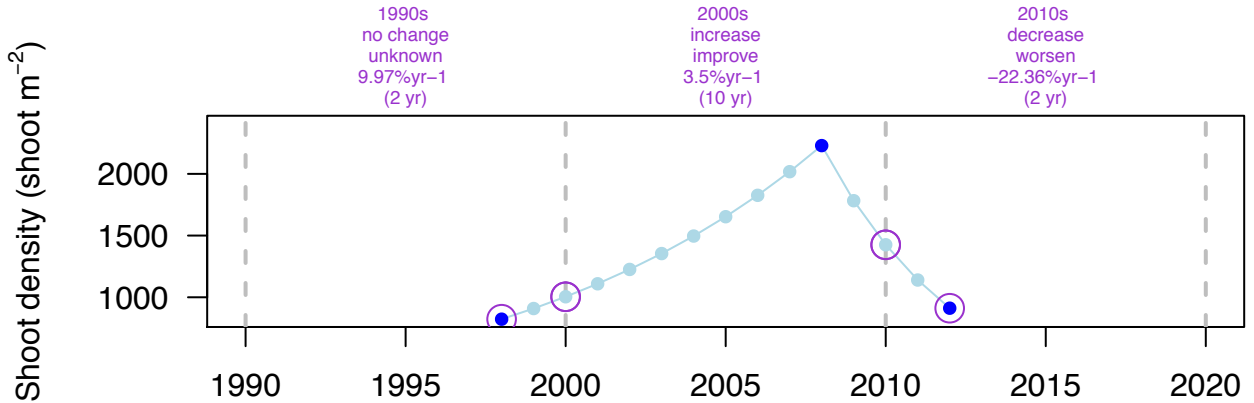
384_density

Cabaço et al. 2010, Cabaço and Santos 2014, Cabaço and Santos (unpublished)

SITE: Ramalhete (meadow D) (Portugal – Atlantic) – Cn (? m)

OVERALL: Net = $88.9 \text{ shoot m}^{-2}$; Rate = 0.73 \% yr^{-1} ; Perc Final = 111 % > no change

DECADAL: YES (14 yr)



385_biomass

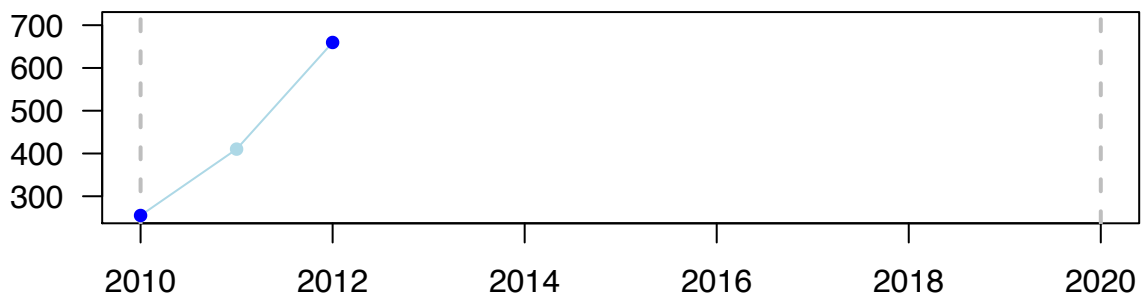
Cabaço and Santos (unpublished)

SITE: Ramalhete (pond outfall) (Portugal – Atlantic) – Cn (? m)

OVERALL: Net = 404.56 g dw m⁻²; Rate = 47.5 % yr⁻¹; Perc Final = 259 % > increase

DECADAL: NO (2 yr)

Total biomass (g dw m⁻²)



385_density

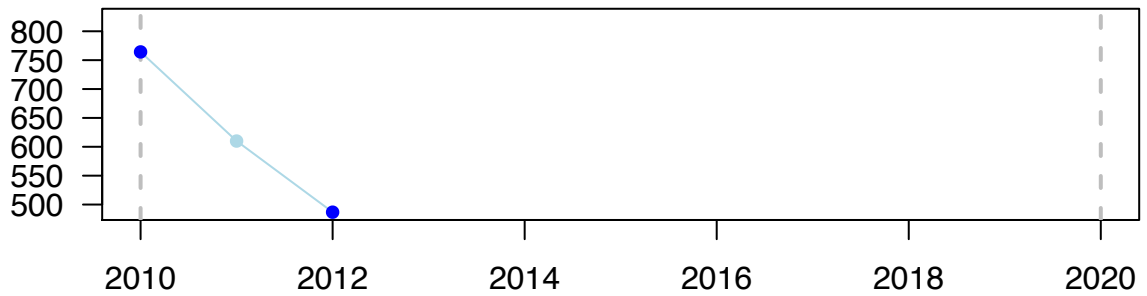
Cabaço and Santos (unpublished)

SITE: Ramalhete (pond outfall) (Portugal – Atlantic) – Cn (? m)

OVERALL: Net = -277.52 shoot m⁻²; Rate = -22.56 % yr⁻¹; Perc Final = 64 % > decrease

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



386_biomass

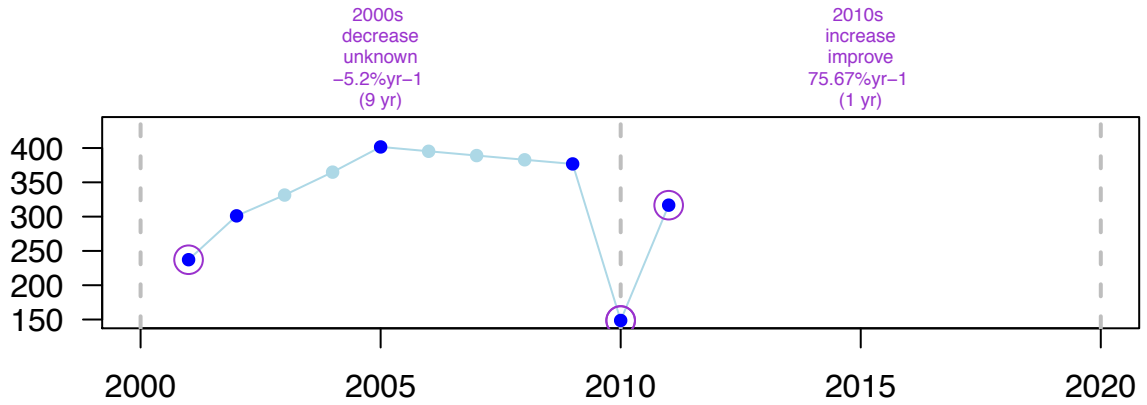
Cabaço et al. 2007, 2008, Cabaço and Santos (unpublished)

SITE: Ramalhete (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = 79.51 g dw m⁻²; Rate = 2.89 % yr⁻¹; Perc Final = 134 % > increase

DECADAL: YES (10 yr)

Total biomass (g dw m⁻²)



386_density

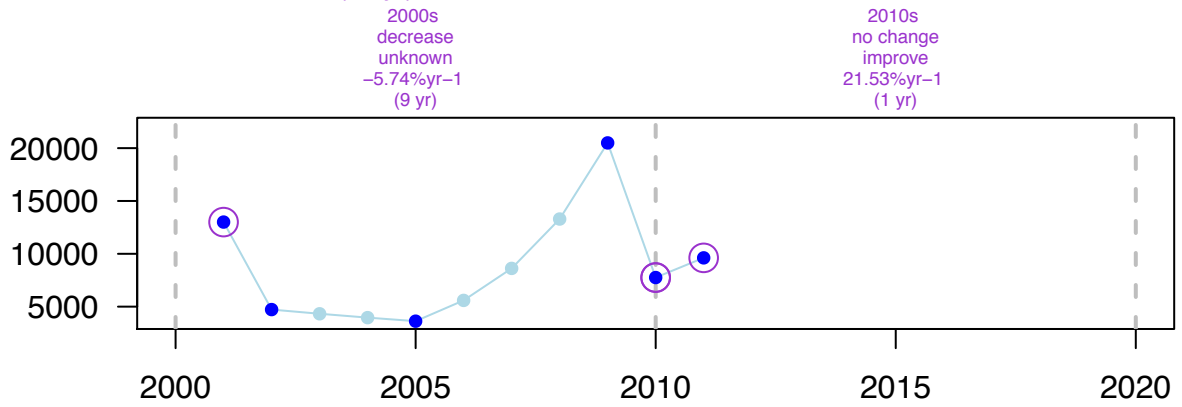
Cabaço et al. 2007, 2008, Cabaço and Santos (unpublished)

SITE: Ramalhete (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -3385.12 shoot m⁻²; Rate = -3.02 % yr⁻¹; Perc Final = 74 % > decrease

DECADAL: YES (10 yr)

Shoot density (shoot m⁻²)



387_biomass

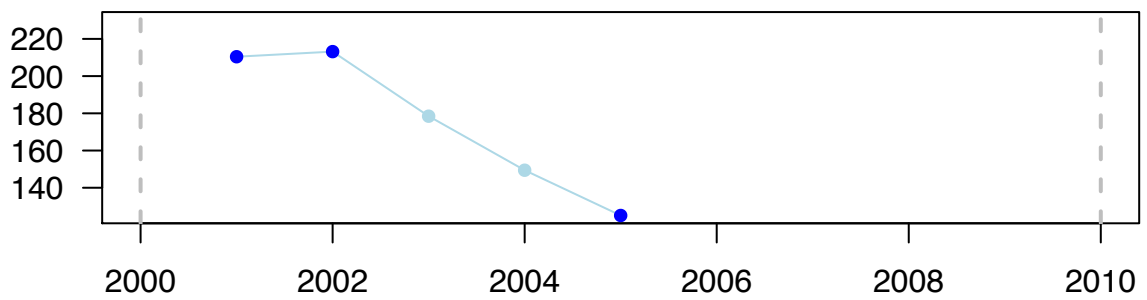
Cabaço et al. 2007, 2008

SITE: ETAR Faro (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = $-85.31 \text{ g dw m}^{-2}$; Rate = -13 \% yr^{-1} ; Perc Final = 59 % > decrease

DECADAL: NO (4 yr)

Total biomass (g dw m^{-2})



387_density

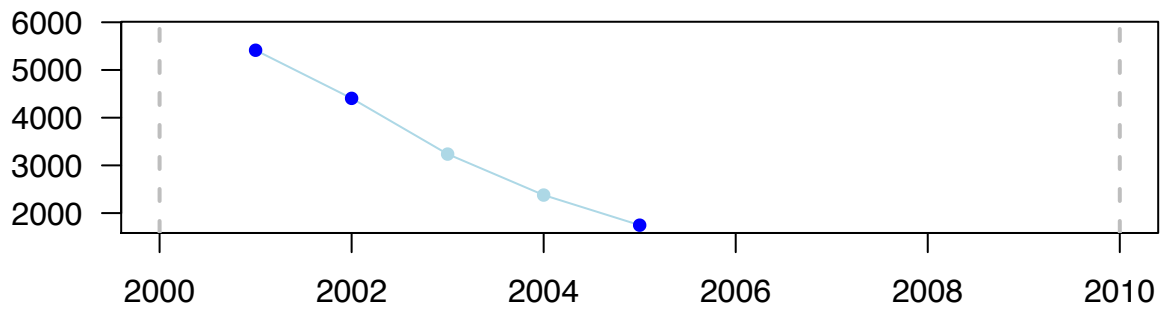
Cabaço et al. 2007, 2008

SITE: ETAR Faro (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = $-3666.84 \text{ shoot m}^{-2}$; Rate = $-28.27 \text{ \% yr}^{-1}$; Perc Final = 32 % > decrease

DECADAL: NO (4 yr)

Shoot density (shoot m^{-2})



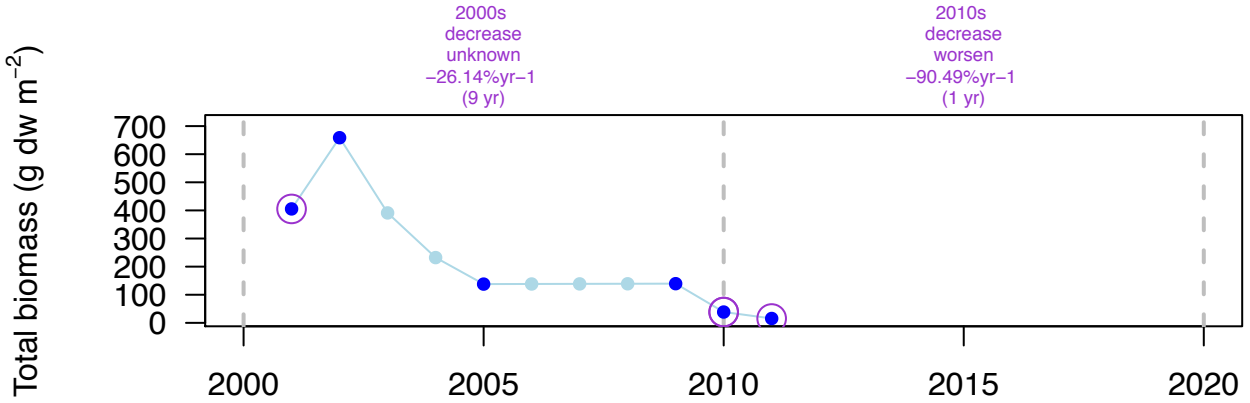
388_biomass

Cabaço et al. 2007, 2008, Cabaço and Santos (unpublished)

SITE: Praia de Faro (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -389.81 g dw m⁻²; Rate = -32.58 % yr⁻¹; Perc Final = 4 % > decrease

DECADAL: YES (10 yr)



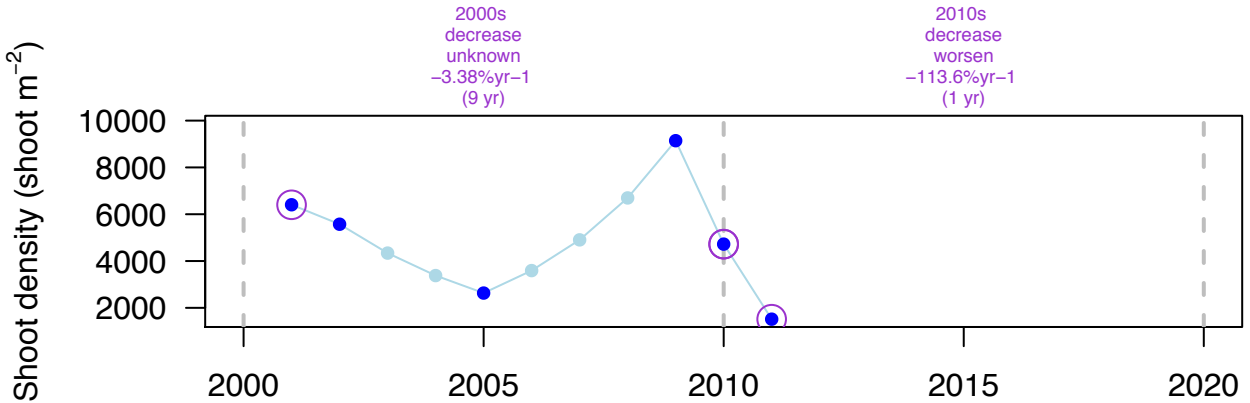
388_density

Cabaço et al. 2007, 2008, Cabaço and Santos (unpublished)

SITE: Praia de Faro (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -4888.28 shoot m⁻²; Rate = -14.41 % yr⁻¹; Perc Final = 24 % > decrease

DECADAL: YES (10 yr)



389_biomass

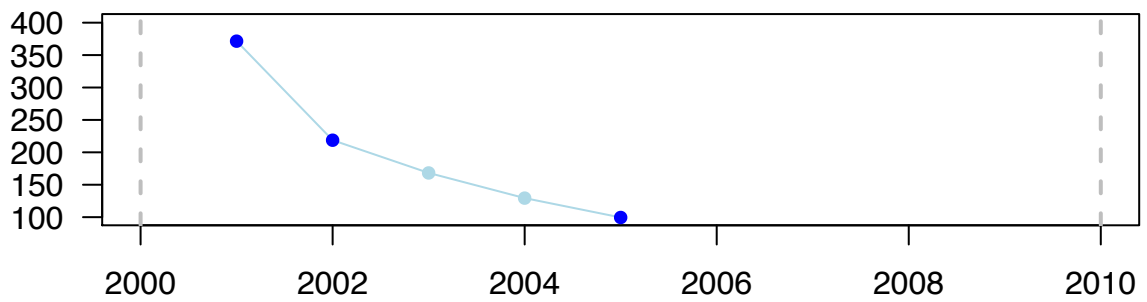
Cabaço et al. 2007, 2008

SITE: Quatro Águas Faro (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -272.01 g dw m⁻²; Rate = -32.93 % yr⁻¹; Perc Final = 27 % > decrease

DECADAL: NO (4 yr)

Total biomass (g dw m⁻²)



389_density

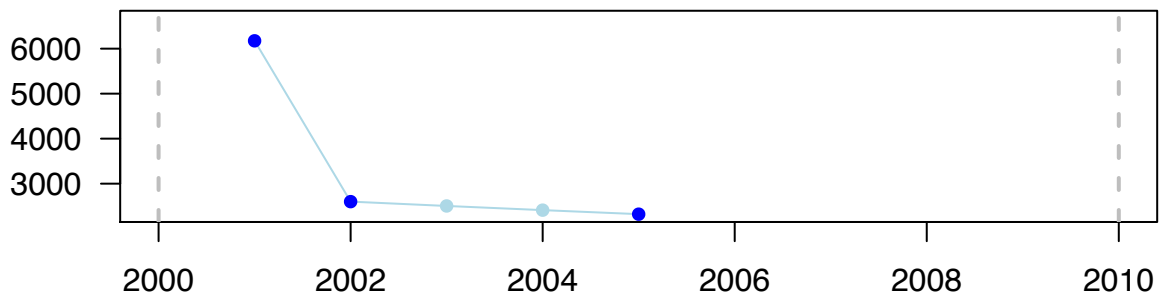
Cabaço et al. 2007, 2008

SITE: Quatro Águas Faro (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -3852.62 shoot m⁻²; Rate = -24.45 % yr⁻¹; Perc Final = 38 % > decrease

DECADAL: NO (4 yr)

Shoot density (shoot m⁻²)



390_biomass

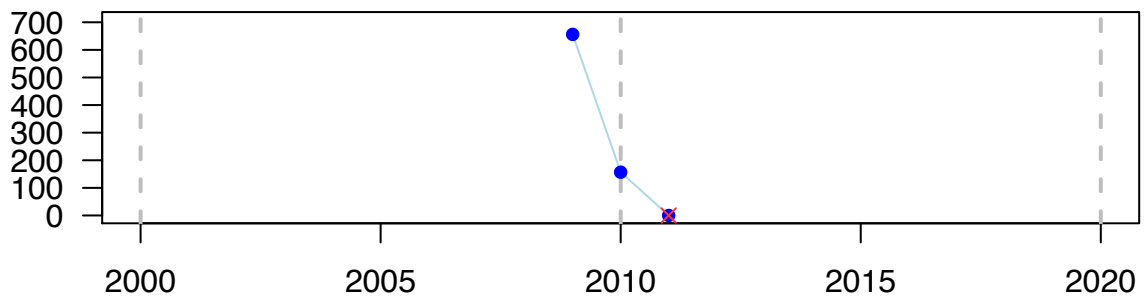
Cabaço and Santos (unpublished)

SITE: Barra Faro (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -656.26 g dw m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (2 yr)

Total biomass (g dw m⁻²)



390_cover

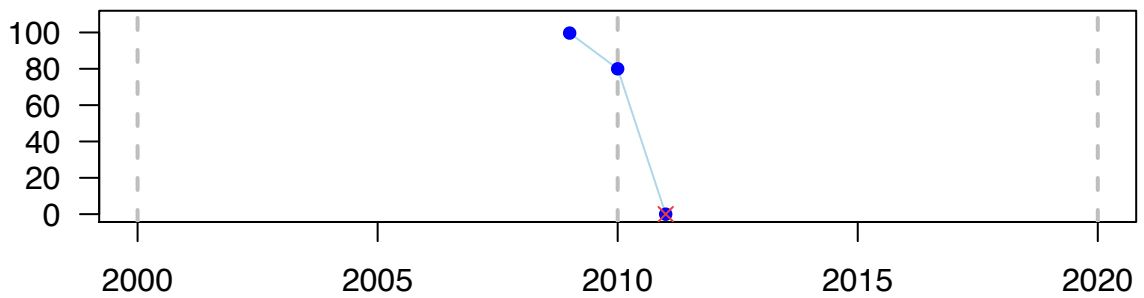
Cabaço and Santos (unpublished)

SITE: Barra Faro (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -99.67 %; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (2 yr)

Cover (%)



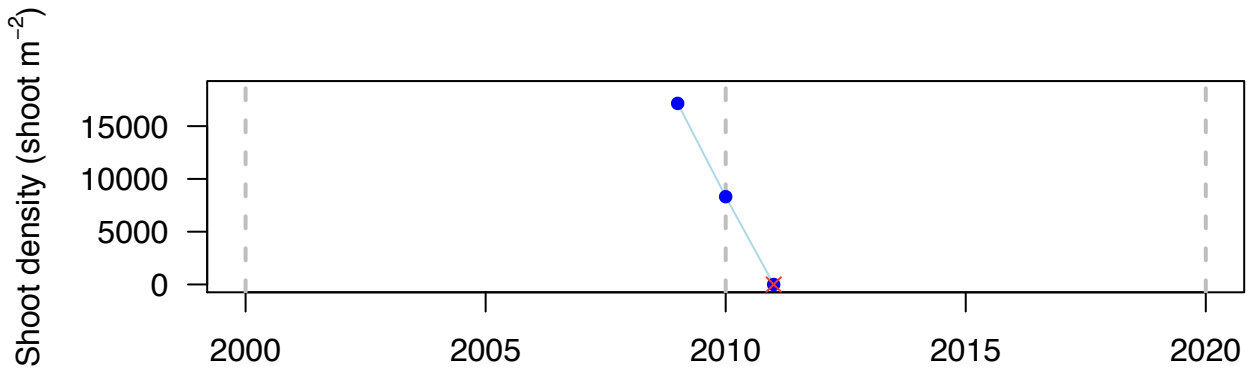
390_density

Cabaço and Santos (unpublished)

SITE: Barra Faro (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -17158.46 shoot m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (2 yr)



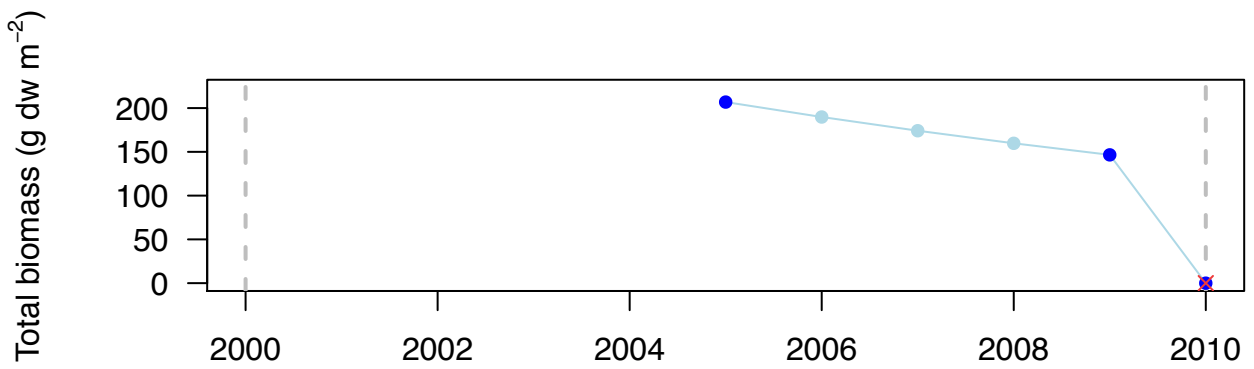
391_biomass

Cabaço and Santos (unpublished)

SITE: ETAR Tavira (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -206.87 g dw m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (5 yr)



391_density

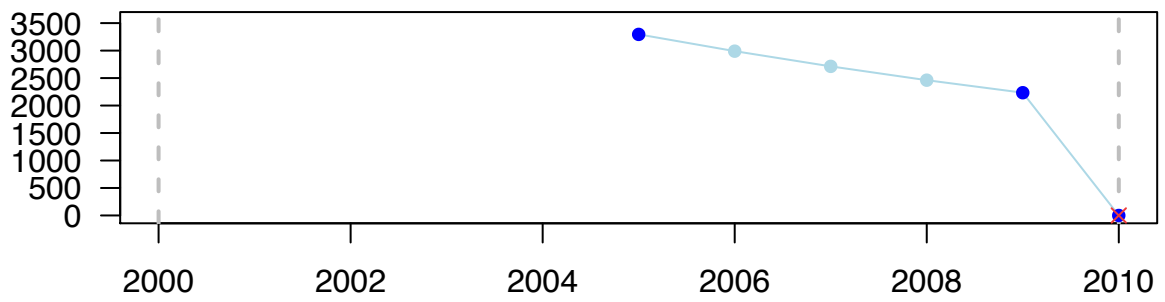
Cabaço and Santos (unpublished)

SITE: ETAR Tavira (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -3295.29 shoot m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



392_biomass

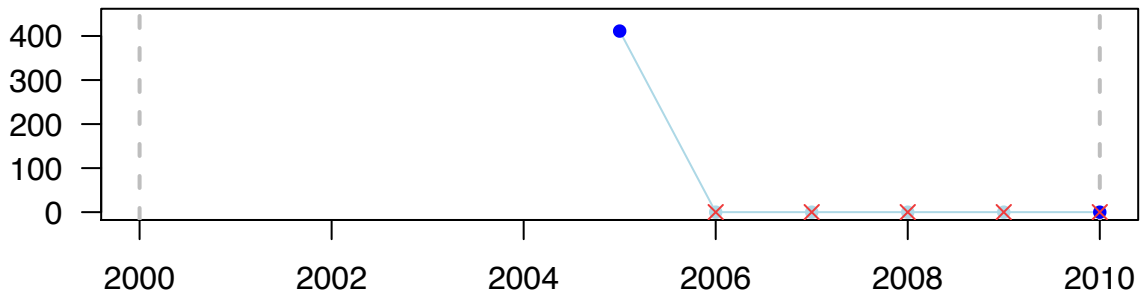
Cabaço and Santos (unpublished)

SITE: Albacora Tavira (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -411.23 g dw m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (5 yr)

Total biomass (g dw m⁻²)



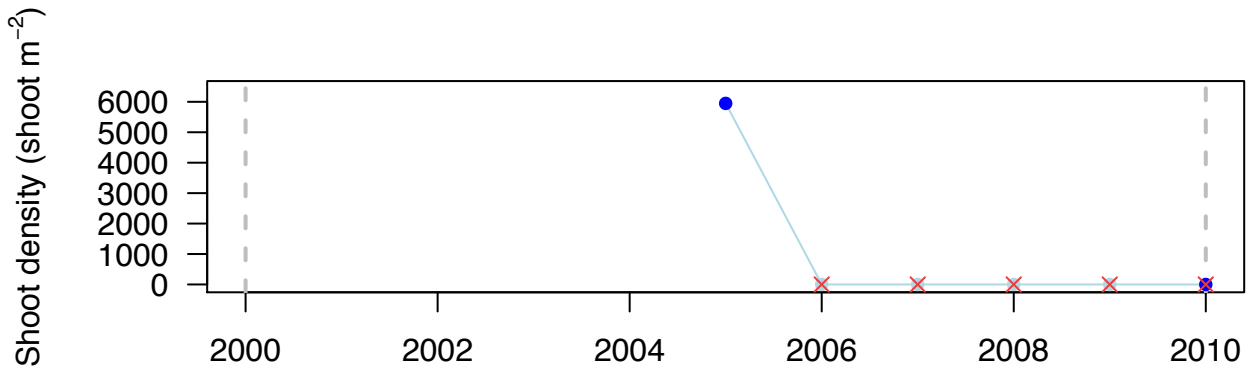
392_density

Cabaço and Santos (unpublished)

SITE: Albacora Tavira (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -5949.22 shoot m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (5 yr)



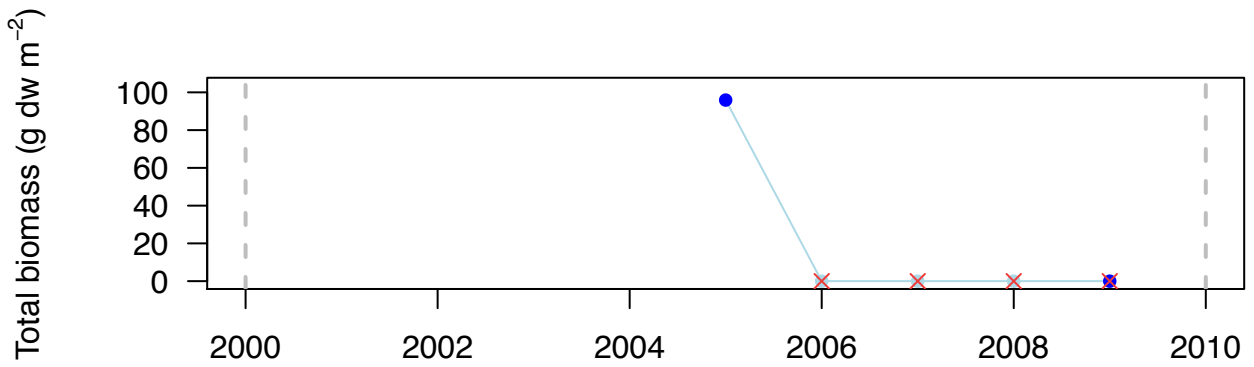
393_biomass

Cabaço et al. 2007, Cabaço and Santos (unpublished)

SITE: ETAR Arade Estuary (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -95.92 g dw m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (4 yr)



393_density

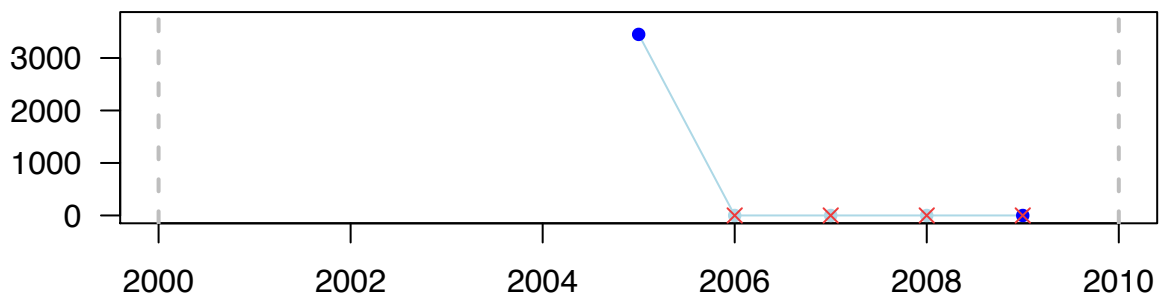
Cabaço et al. 2007, Cabaço and Santos (unpublished)

SITE: ETAR Arade Estuary (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -3450.11 shoot m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (4 yr)

Shoot density (shoot m⁻²)



394_biomass

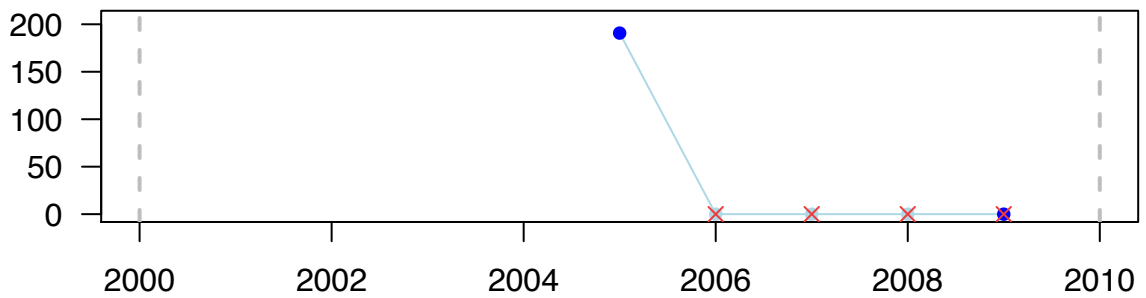
Cabaço et al. 2007, Cabaço and Santos (unpublished)

SITE: Arade Estuary 2 (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -190.76 g dw m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (4 yr)

Total biomass (g dw m⁻²)



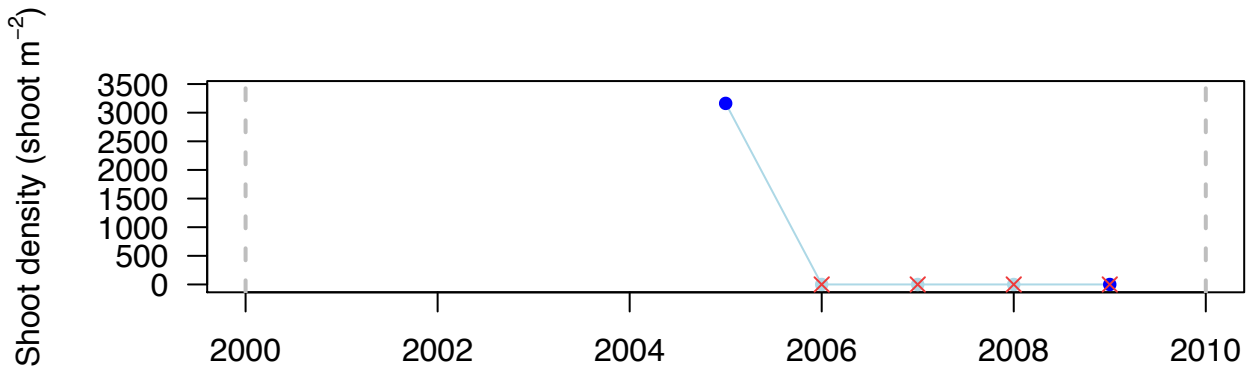
394_density

Cabaço et al. 2007, Cabaço and Santos (unpublished)

SITE: Arade Estuary 2 (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -3162.6 shoot m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (4 yr)



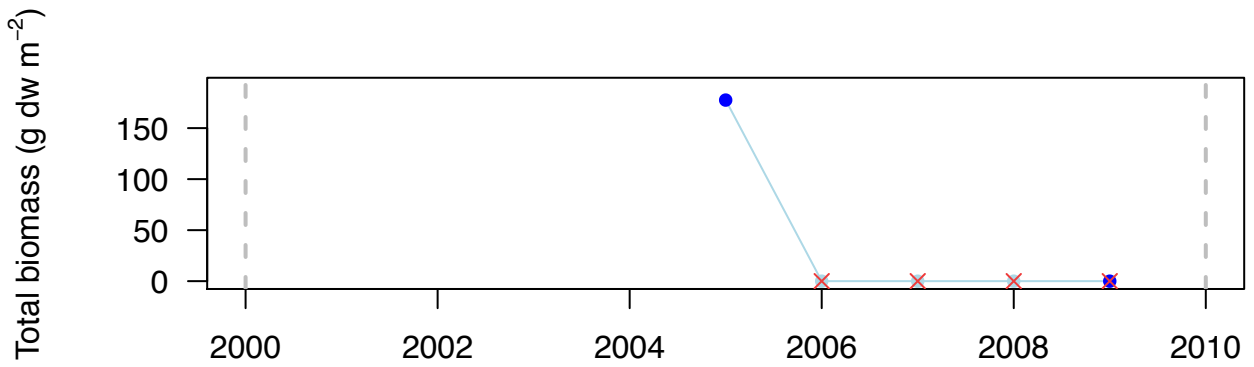
395_biomass

Cabaço et al. 2007, Cabaço and Santos (unpublished)

SITE: Arade Estuary 3 (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -177.51 g dw m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (4 yr)



395_density

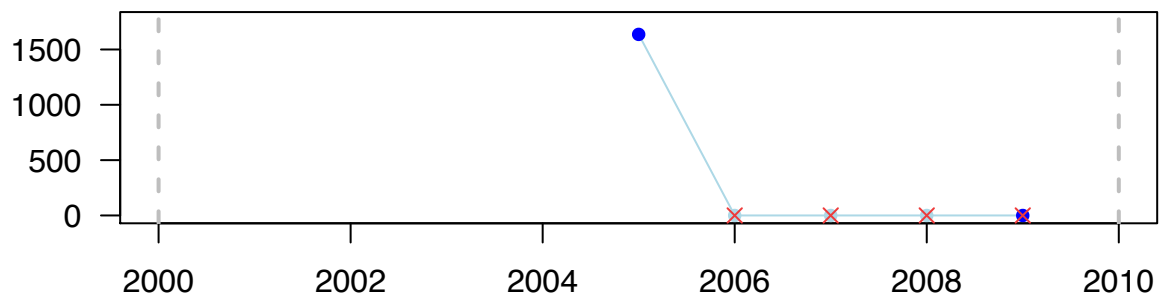
Cabaço et al. 2007, Cabaço and Santos (unpublished)

SITE: Arade Estuary 3 (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -1636.59 shoot m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (4 yr)

Shoot density (shoot m⁻²)



396_biomass

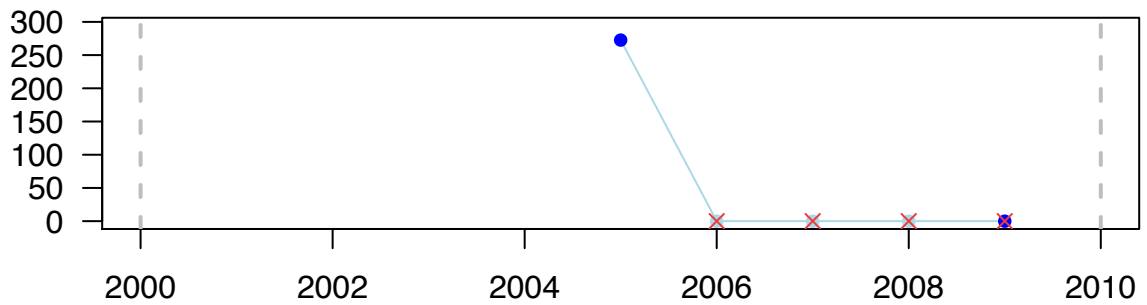
Cabaço et al. 2007, Cabaço and Santos (unpublished)

SITE: Arade Moinhos (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -272.64 g dw m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (4 yr)

Total biomass (g dw m⁻²)



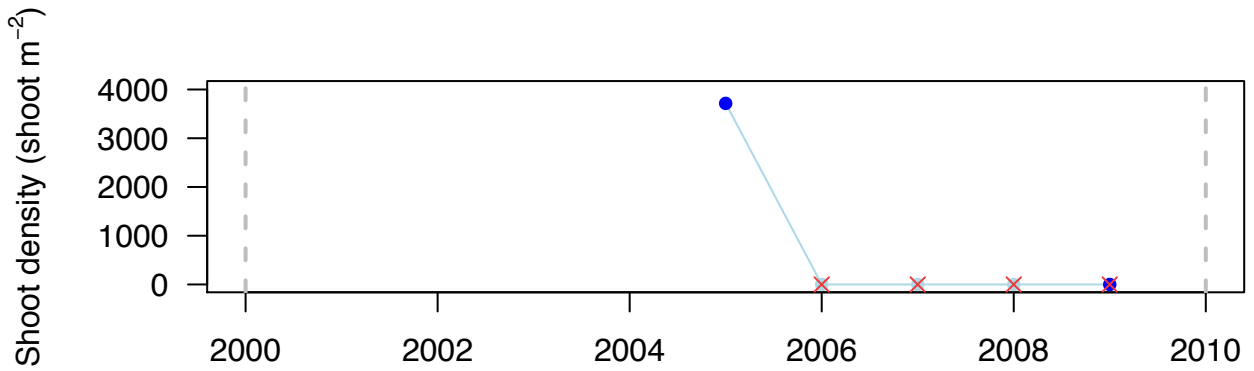
396_density

Cabaço et al. 2007, Cabaço and Santos (unpublished)

SITE: Arade Moinhos (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -3715.5 shoot m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (4 yr)



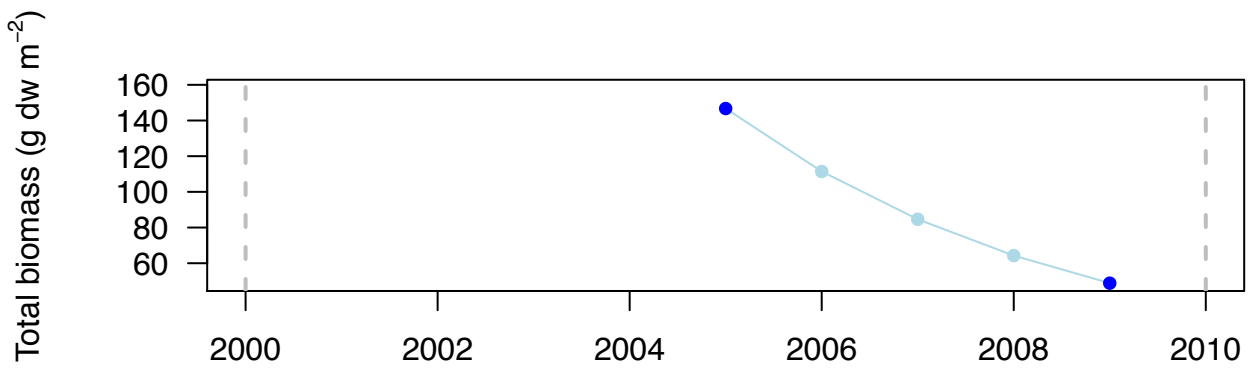
397_biomass

Cabaço et al. 2007, Cabaço and Santos (unpublished)

SITE: Guadiana Estuary (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = -97.89 g dw m⁻²; Rate = -27.5 % yr⁻¹; Perc Final = 33 % > decrease

DECADAL: NO (4 yr)



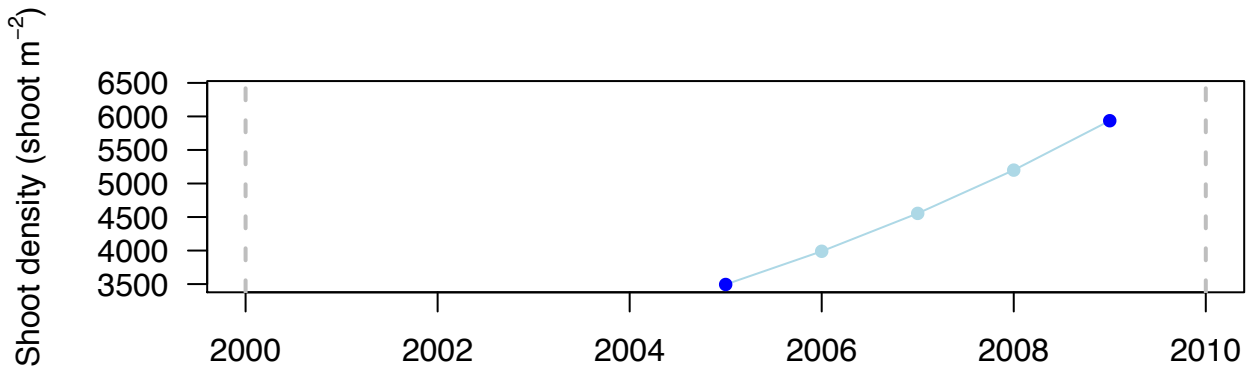
397_density

Cabaço et al. 2007, Cabaço and Santos (unpublished)

SITE: Guadiana Estuary (Portugal – Atlantic) – Zn (? m)

OVERALL: Net = 2441.79 shoot m⁻²; Rate = 13.25 % yr⁻¹; Perc Final = 170 % > increase

DECADAL: NO (4 yr)



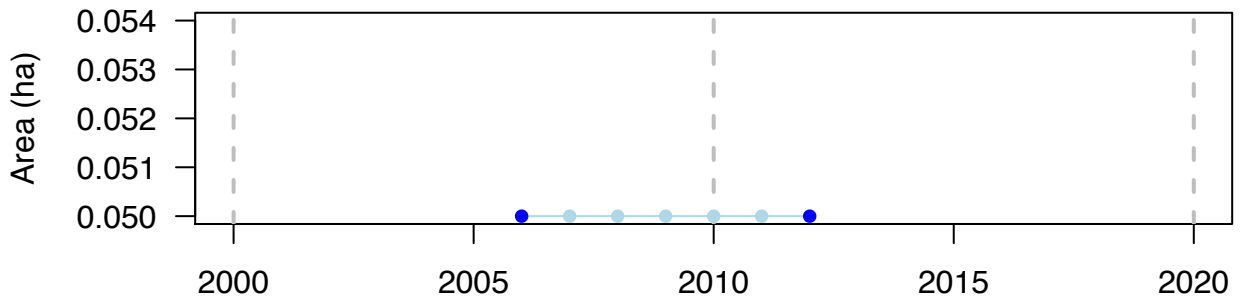
399_area

Pergent (unpublished)

SITE: Calvi (France – Mediterranean) – Po (-25 m)

OVERALL: Net = 0 ha; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (6 yr)



399_biomass

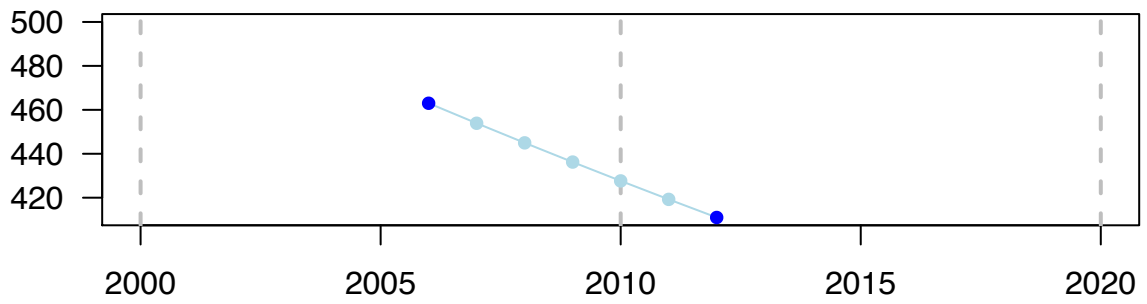
Pergent (unpublished)

SITE: Calvi (France – Mediterranean) – Po (-25 m)

OVERALL: Net = -52 g dw m⁻²; Rate = -1.99 % yr⁻¹; Perc Final = 89 % > no change

DECADAL: NO (6 yr)

Total biomass (g dw m⁻²)



399_cover

Pergent (unpublished)

SITE: Calvi (France – Mediterranean) – Po (-25 m)

OVERALL: Net = -4 %; Rate = -0.68 % yr⁻¹; Perc Final = 96 % > no change

DECADAL: NO (6 yr)

Cover (%)



399_density

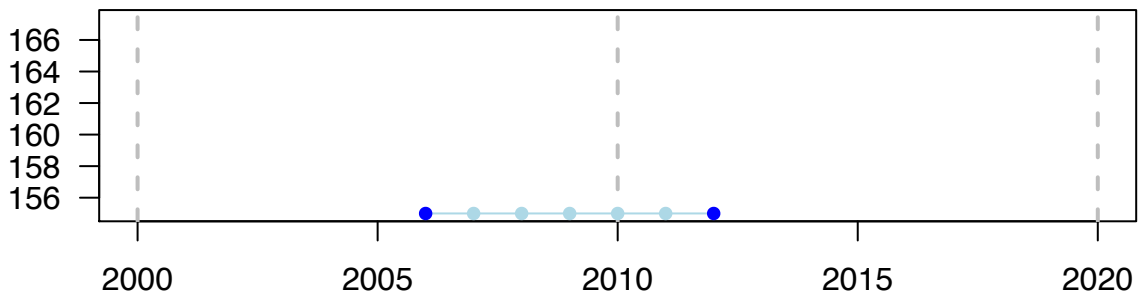
Pergent (unpublished)

SITE: Calvi (France – Mediterranean) – Po (-25 m)

OVERALL: Net = 0 shoot m⁻²; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



401_area

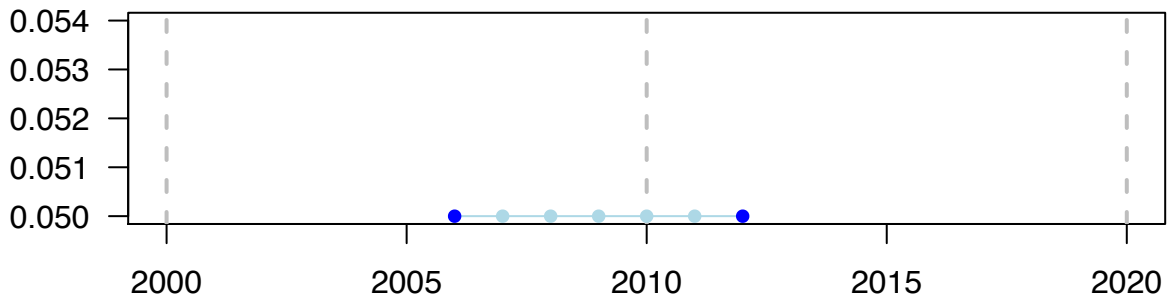
Pergent (unpublished)

SITE: Calvi (France – Mediterranean) – Po (-9 m)

OVERALL: Net = 0 ha; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (6 yr)

Area (ha)



401_biomass

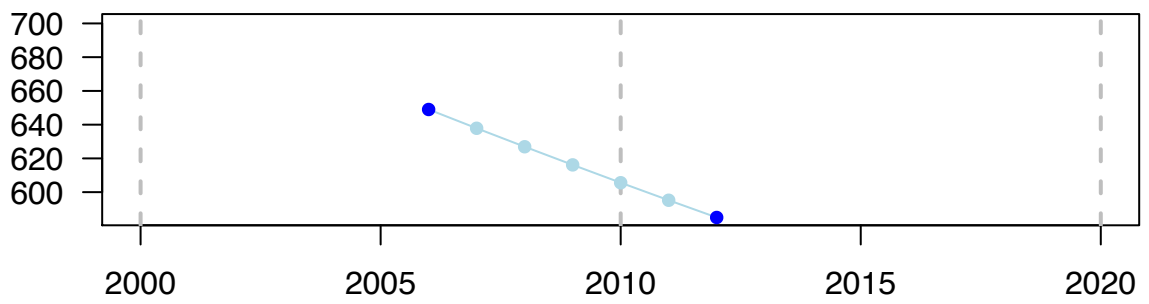
Pergent (unpublished)

SITE: Calvi (France – Mediterranean) – Po (-9 m)

OVERALL: Net = -64 g dw m⁻²; Rate = -1.73 % yr⁻¹; Perc Final = 90 % > no change

DECADAL: NO (6 yr)

Total biomass (g dw m⁻²)



401_cover

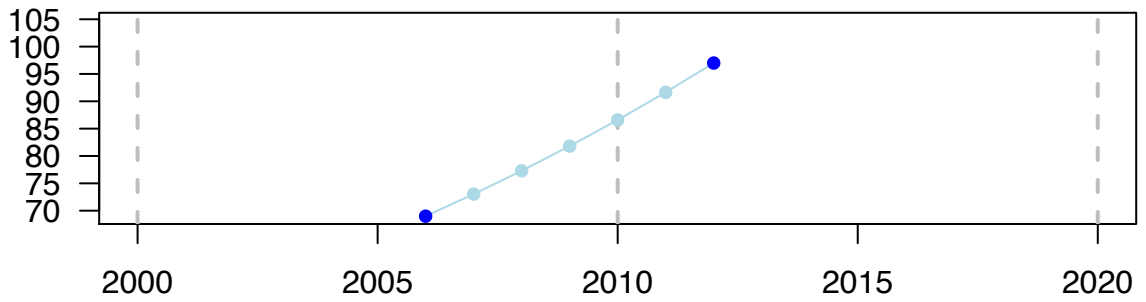
Pergent (unpublished)

SITE: Calvi (France – Mediterranean) – Po (-9 m)

OVERALL: Net = 28 %; Rate = 5.68 % yr⁻¹; Perc Final = 141 % > increase

DECADAL: NO (6 yr)

Cover (%)



401_density

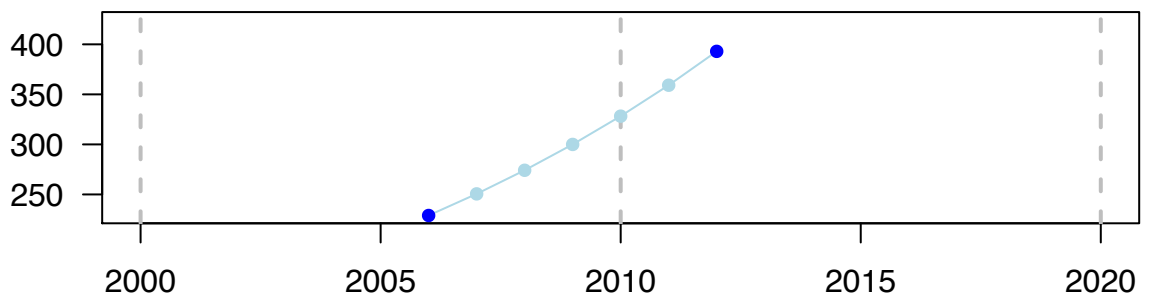
Pergent (unpublished)

SITE: Calvi (France – Mediterranean) – Po (-9 m)

OVERALL: Net = 164 shoot m⁻²; Rate = 9 % yr⁻¹; Perc Final = 172 % > increase

DECADAL: NO (6 yr)

Shoot density (shoot m⁻²)



402_area

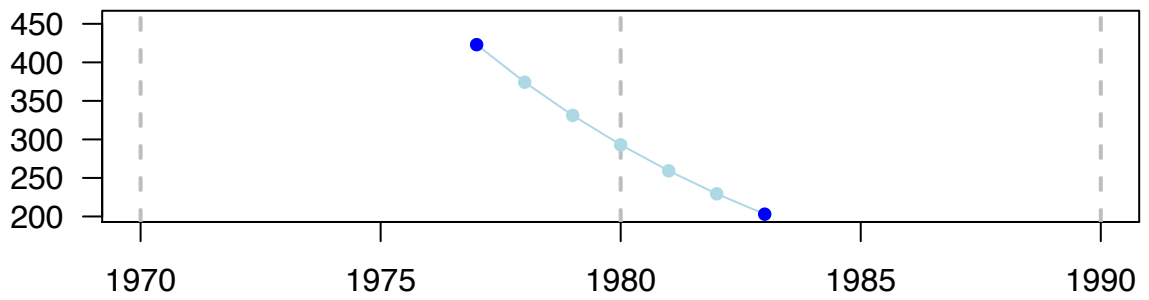
Bourcier 1989

SITE: Oest de Sanary (France – Mediterranean) – Po (? m)

OVERALL: Net = -220 ha; Rate = -12.24 % yr⁻¹; Perc Final = 48 % > decrease

DECADAL: NO (6 yr)

Area (ha)



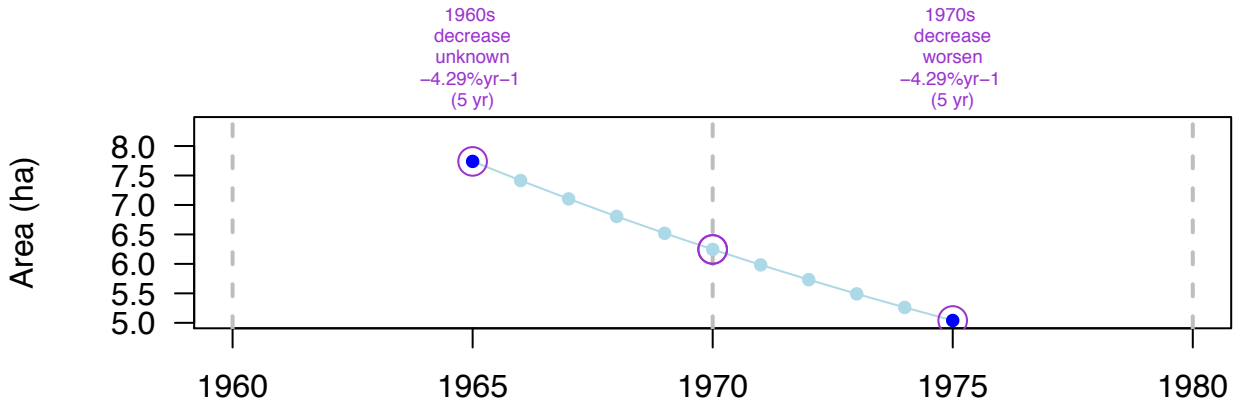
403_area

Augier and Boudouresque 1975

SITE: Baie de la Palud (France – Mediterranean) – Po (? m)

OVERALL: Net = -2.7 ha; Rate = -4.29 % yr⁻¹; Perc Final = 65 % > decrease

DECADAL: YES (10 yr)



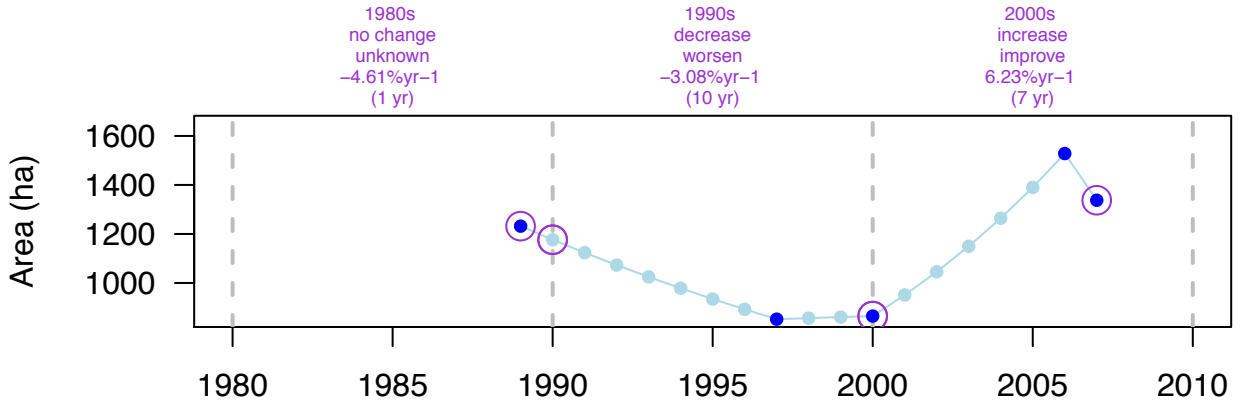
404_area

Auby et al. 2010

SITE: Pertuis Charentais (France – Atlantic) – Zn (? m)

OVERALL: Net = 105.65 ha; Rate = 0.46 % yr⁻¹; Perc Final = 109 % > no change

DECADAL: YES (18 yr)



405_density

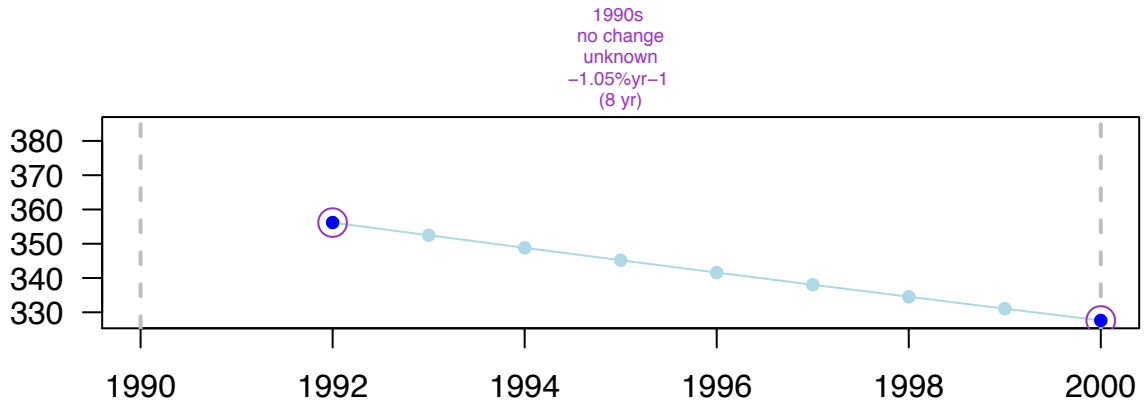
Zupo et al. 2006

SITE: Lacco Ameno (Ischia) (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -28.57 shoot m⁻²; Rate = -1.05 % yr⁻¹; Perc Final = 92 % > no change

DECADAL: YES (8 yr)

Shoot density (shoot m⁻²)



406_cover

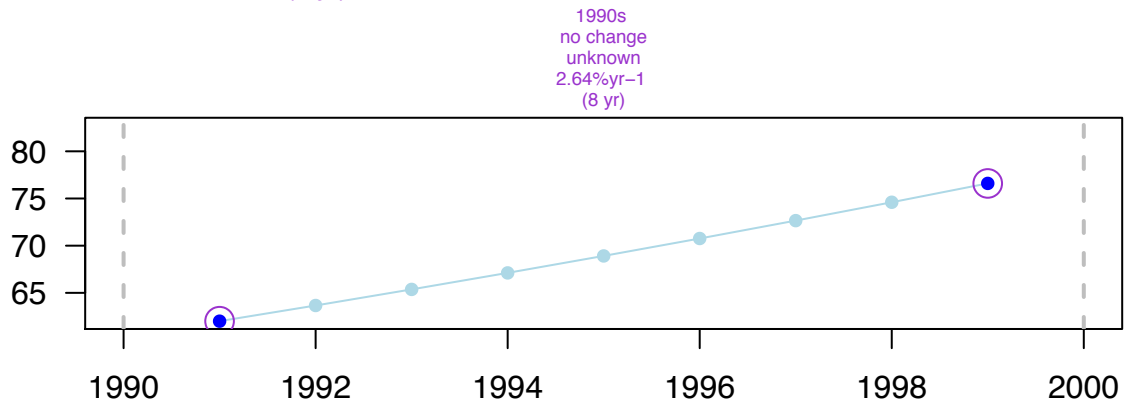
Coll et al. 1999

SITE: Port de Cabrera (Spain – Mediterranean) – Po (? m)

OVERALL: Net = 14.6 %; Rate = 2.64 % yr⁻¹; Perc Final = 124 % > no change

DECADAL: YES (8 yr)

Cover (%)



407_density

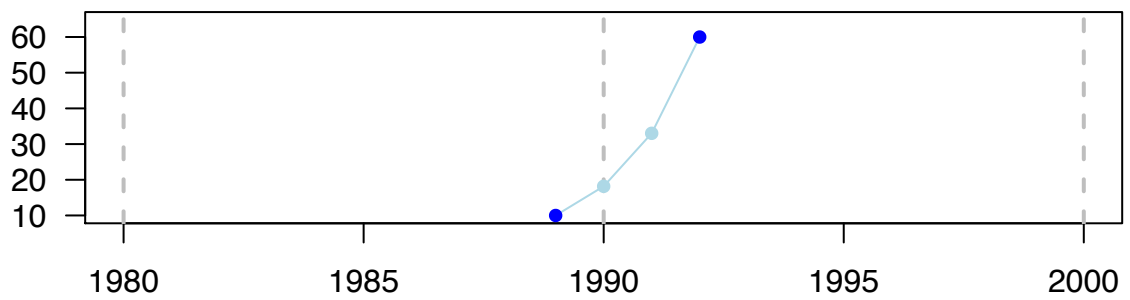
Guillén-Nieto and Ramos-Esplá 1994

SITE: Isla de Tabarca (Spain – Mediterranean) – Po (-19.3 m)

OVERALL: Net = 50 shoot m⁻²; Rate = 59.73 % yr⁻¹; Perc Final = 600 % > increase

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



408_area

Ruiz et al. 1993, Ruiz and Romero 2003

SITE: Levante Bay (Spain – Mediterranean) – Po (? m)

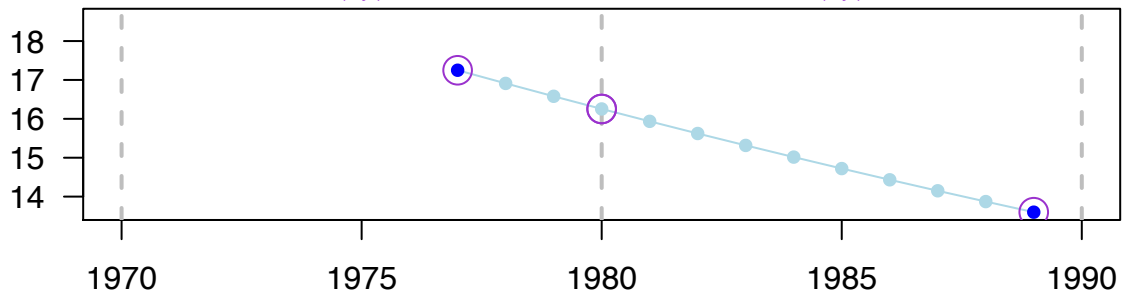
OVERALL: Net = -3.65 ha; Rate = -1.98 % yr⁻¹; Perc Final = 79 % > decrease

DECADAL: YES (12 yr)

1970s
no change
unknown
-1.98%yr⁻¹
(3 yr)

1980s
decrease
worsen
-1.98%yr⁻¹
(9 yr)

Area (ha)



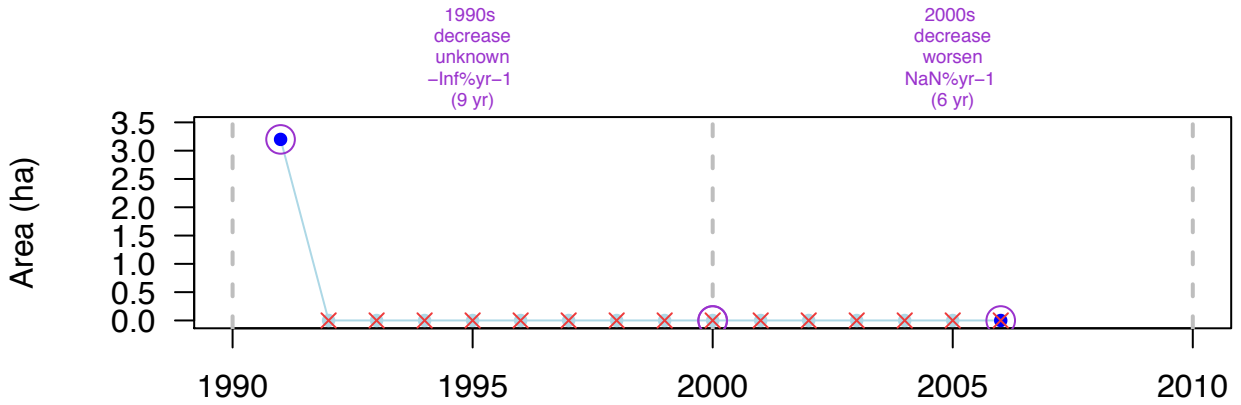
410_area

Montefalcone et al. 2013

SITE: Genova Vesima (Italy – Mediterranean) – Po (-3.3 m)

OVERALL: Net = -3.2 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (15 yr)



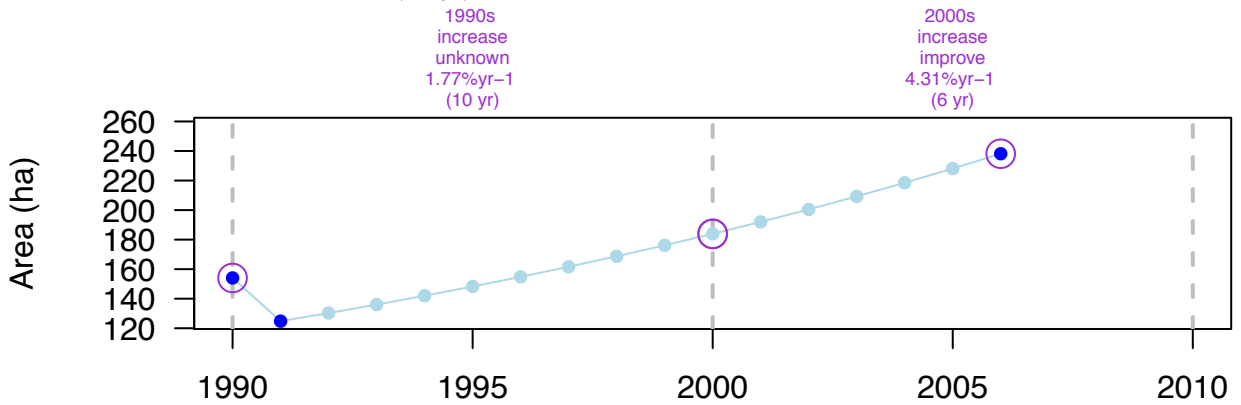
416_area

Montefalcone et al. 2013

SITE: Ventimiglia (Italy – Mediterranean) – Po (-12.5 m)

OVERALL: Net = 84.098 ha; Rate = 2.72 % yr⁻¹; Perc Final = 155 % > increase

DECADAL: YES (16 yr)



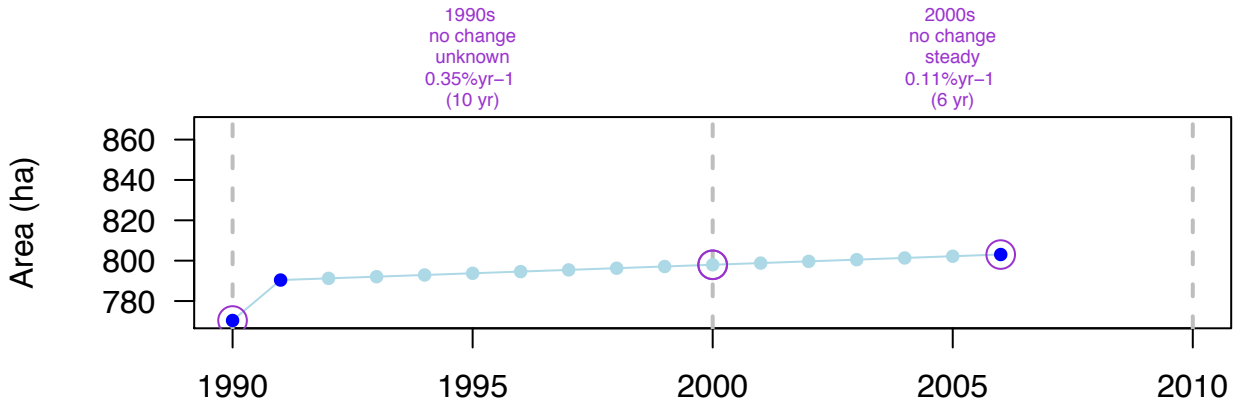
417_area

Montefalcone et al. 2013

SITE: Sanremo (Italy – Mediterranean) – Po (-16.4 m)

OVERALL: Net = 32.683 ha; Rate = 0.26 % yr⁻¹; Perc Final = 104 % > no change

DECADAL: YES (16 yr)



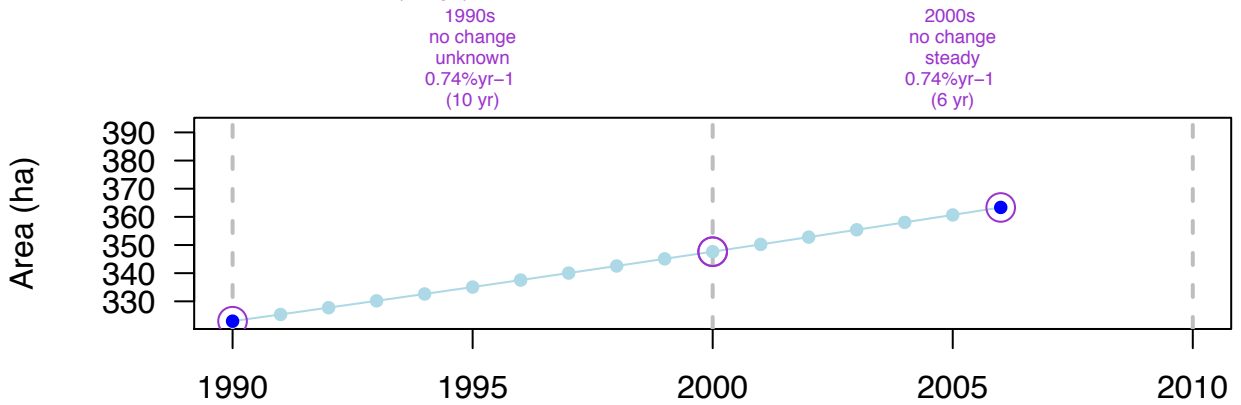
418_area

Montefalcone et al. 2013

SITE: Santo Stefano al Mare (Italy – Mediterranean) – Po (-18.2 m)

OVERALL: Net = 40.399 ha; Rate = 0.74 % yr⁻¹; Perc Final = 113 % > increase

DECADAL: YES (16 yr)



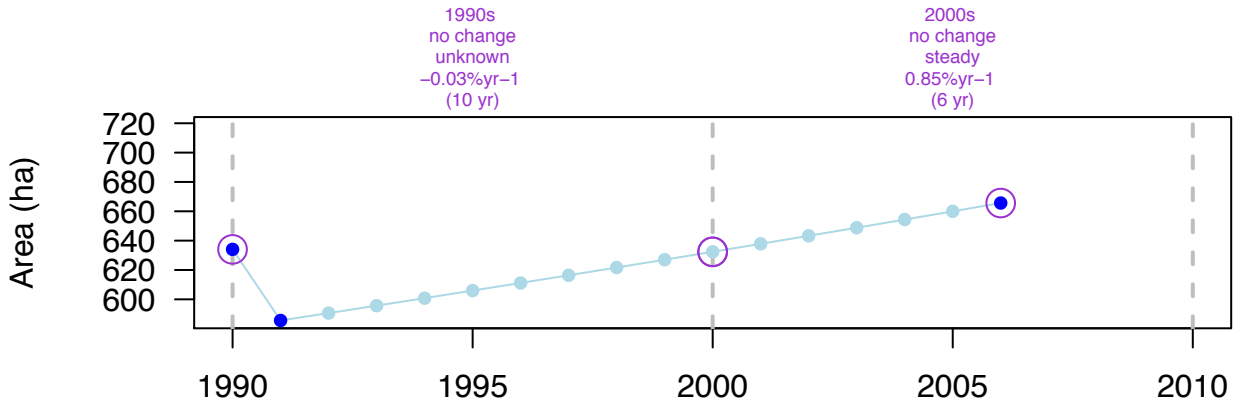
419_area

Montefalcone et al. 2013

SITE: Porto Maurizio (Italy – Mediterranean) – Po (-17.5 m)

OVERALL: Net = 31.575 ha; Rate = 0.3 % yr⁻¹; Perc Final = 105 % > no change

DECADAL: YES (16 yr)



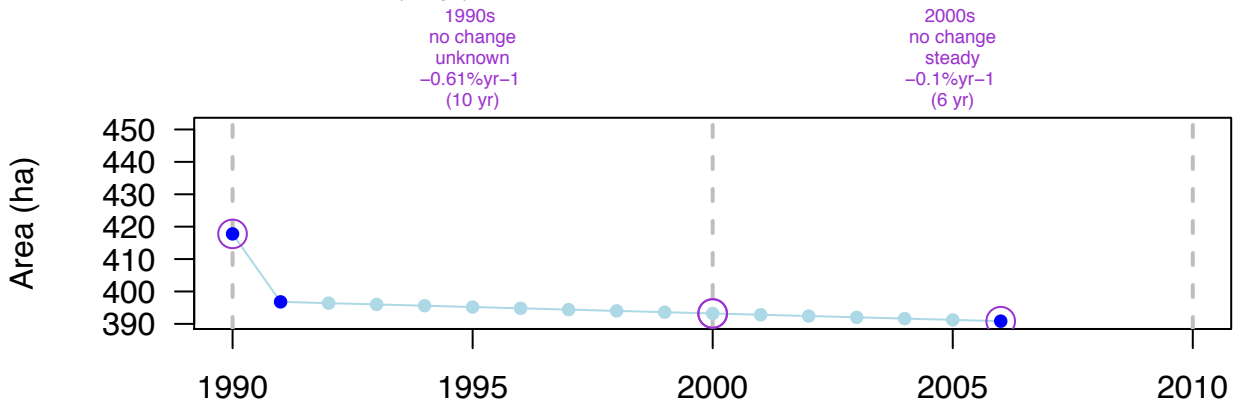
420_area

Montefalcone et al. 2013

SITE: Diano Marina (Italy – Mediterranean) – Po (-16.4 m)

OVERALL: Net = -26.938 ha; Rate = -0.42 % yr⁻¹; Perc Final = 94 % > no change

DECADAL: YES (16 yr)



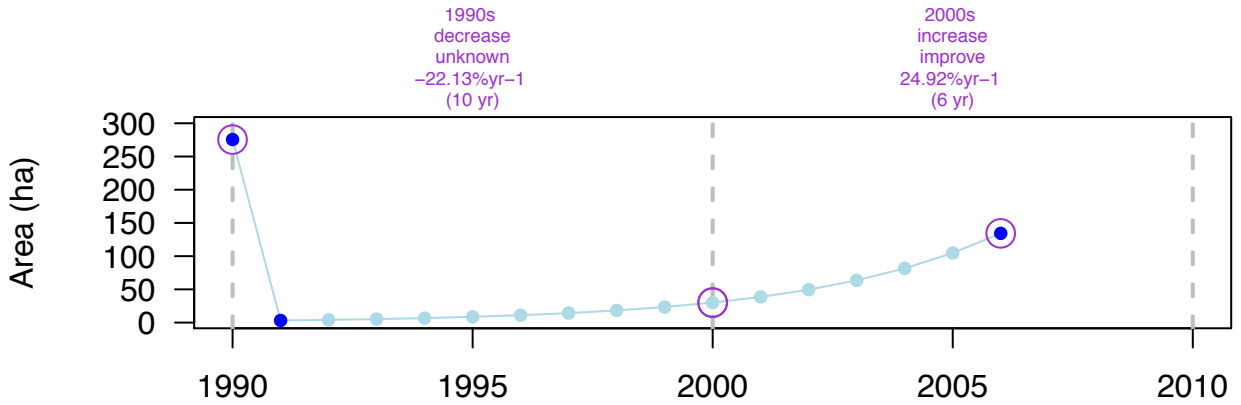
421_area

Montefalcone et al. 2013

SITE: Laigueglia (Italy – Mediterranean) – Po (-15 m)

OVERALL: Net = -141.205 ha; Rate = -4.49 % yr⁻¹; Perc Final = 49 % > decrease

DECADAL: YES (16 yr)



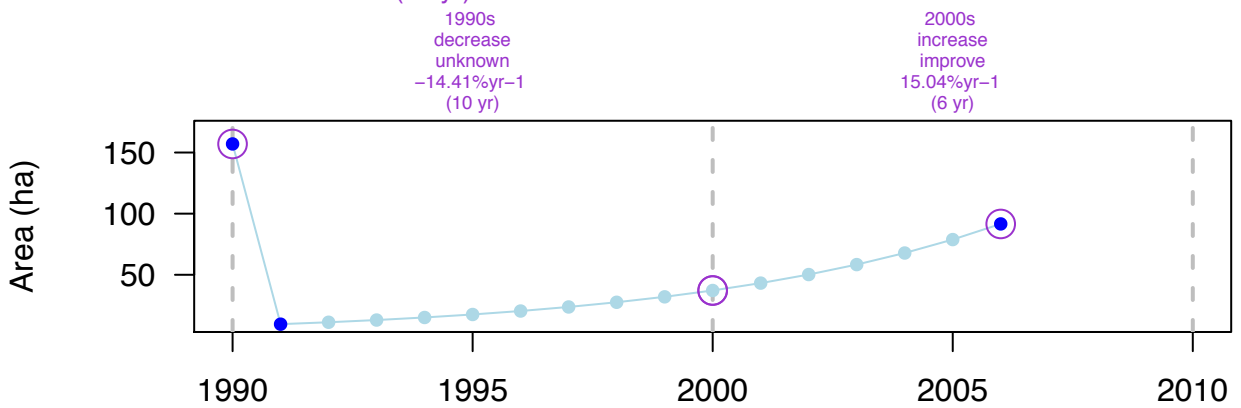
422_area

Montefalcone et al. 2013

SITE: Isola Gallinara (Italy – Mediterranean) – Po (-10.6 m)

OVERALL: Net = -65.434 ha; Rate = -3.37 % yr⁻¹; Perc Final = 58 % > decrease

DECADAL: YES (16 yr)



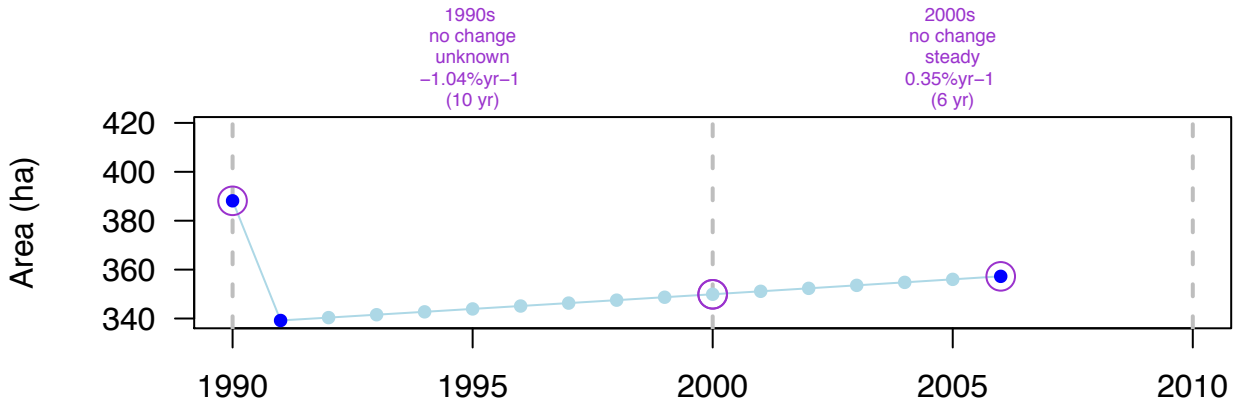
423_area

Montefalcone et al. 2013

SITE: Albenga – Loano (Italy – Mediterranean) – Po (-14.3 m)

OVERALL: Net = -30.896 ha; Rate = -0.52 % yr⁻¹; Perc Final = 92 % > no change

DECADAL: YES (16 yr)



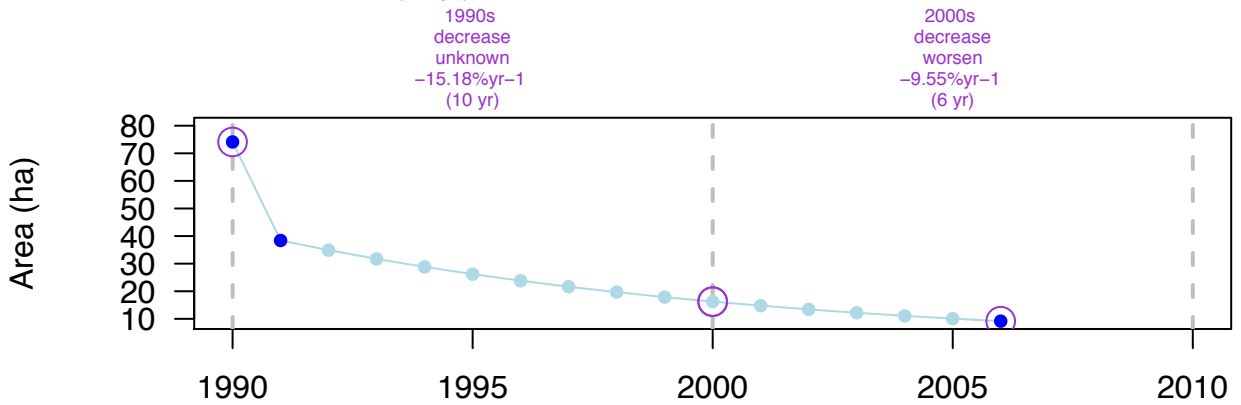
424_area

Montefalcone et al. 2013

SITE: Pietra Ligure (Italy – Mediterranean) – Po (-9 m)

OVERALL: Net = -64.962 ha; Rate = -13.07 % yr⁻¹; Perc Final = 12 % > decrease

DECADAL: YES (16 yr)



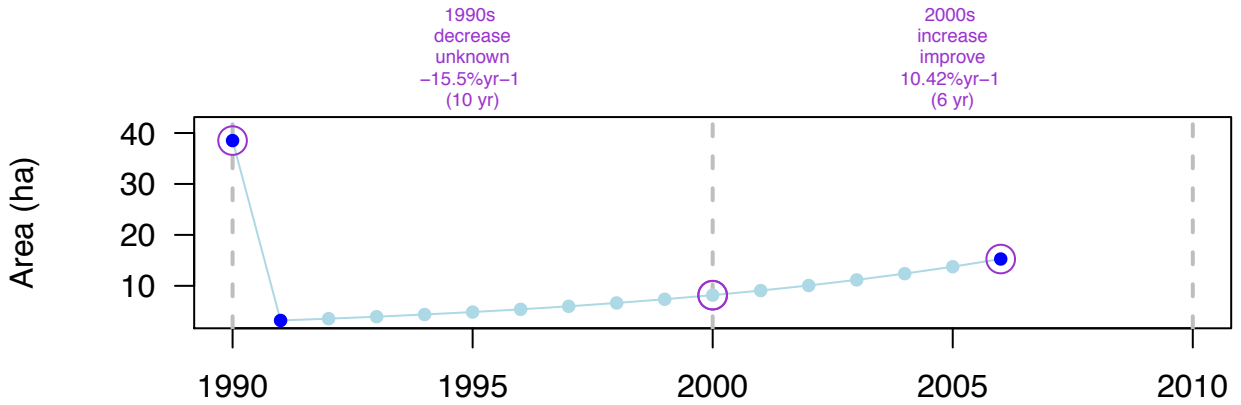
425_area

Montefalcone et al. 2013

SITE: Noli – Spotorno (Italy – Mediterranean) – Po (-14.2 m)

OVERALL: Net = -23.252 ha; Rate = -5.78 % yr⁻¹; Perc Final = 40 % > decrease

DECADAL: YES (16 yr)



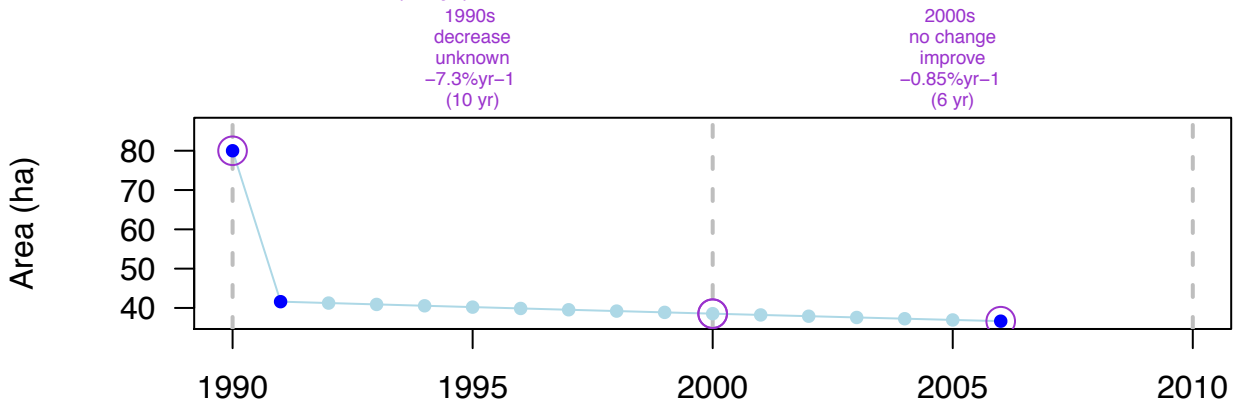
426_area

Montefalcone et al. 2013

SITE: Isola di Bergoggi (Italy – Mediterranean) – Po (-15.7 m)

OVERALL: Net = -43.359 ha; Rate = -4.88 % yr⁻¹; Perc Final = 46 % > decrease

DECADAL: YES (16 yr)



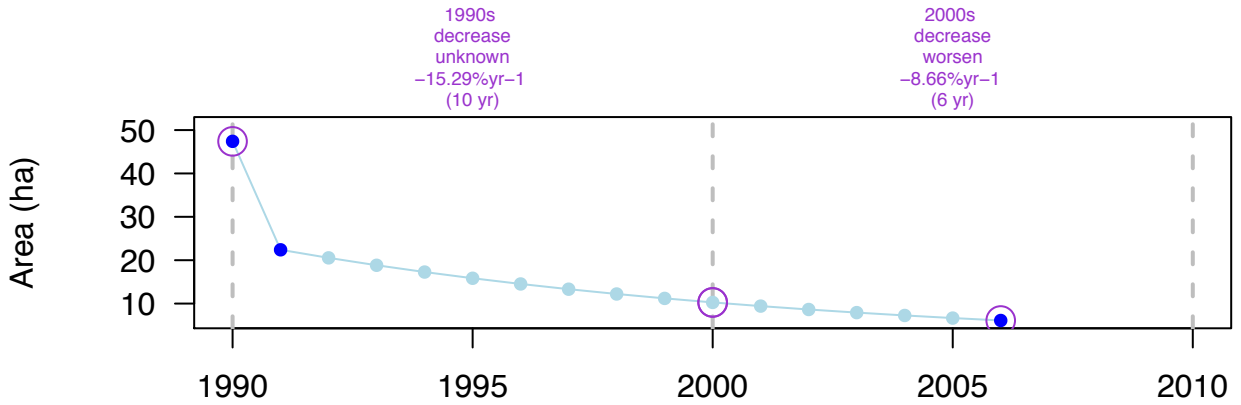
427_area

Montefalcone et al. 2013

SITE: Vado Ligure (Italy – Mediterranean) – Po (-18.8 m)

OVERALL: Net = -41.3 ha; Rate = -12.81 % yr⁻¹; Perc Final = 13 % > decrease

DECADAL: YES (16 yr)



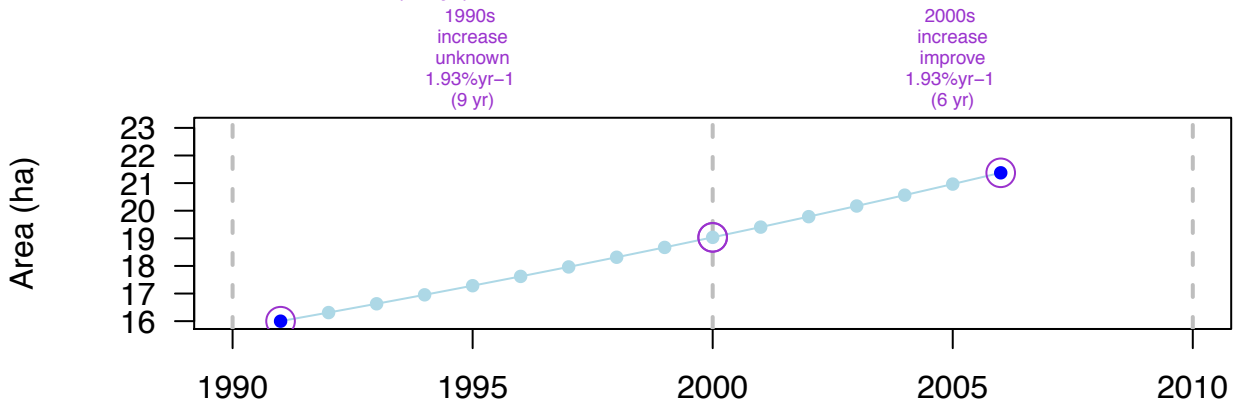
428_area

Montefalcone et al. 2013

SITE: Savona (Italy – Mediterranean) – Po (? m)

OVERALL: Net = 5.374 ha; Rate = 1.93 % yr⁻¹; Perc Final = 134 % > increase

DECADAL: YES (15 yr)



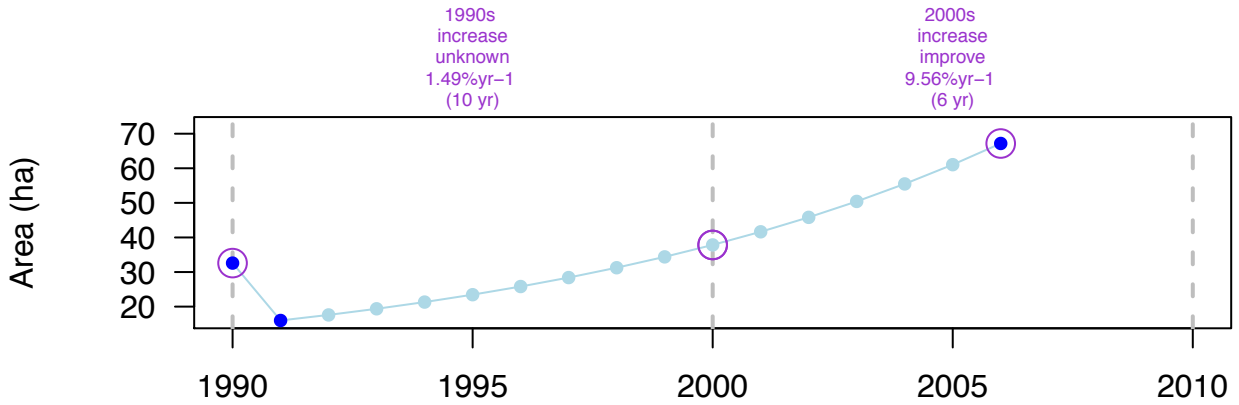
429_area

Montefalcone et al. 2013

SITE: Albissola Marina – Celle Ligure (Italy – Mediterranean) – Po (? m)

OVERALL: Net = 34.583 ha; Rate = 4.52 % yr⁻¹; Perc Final = 206 % > increase

DECADAL: YES (16 yr)



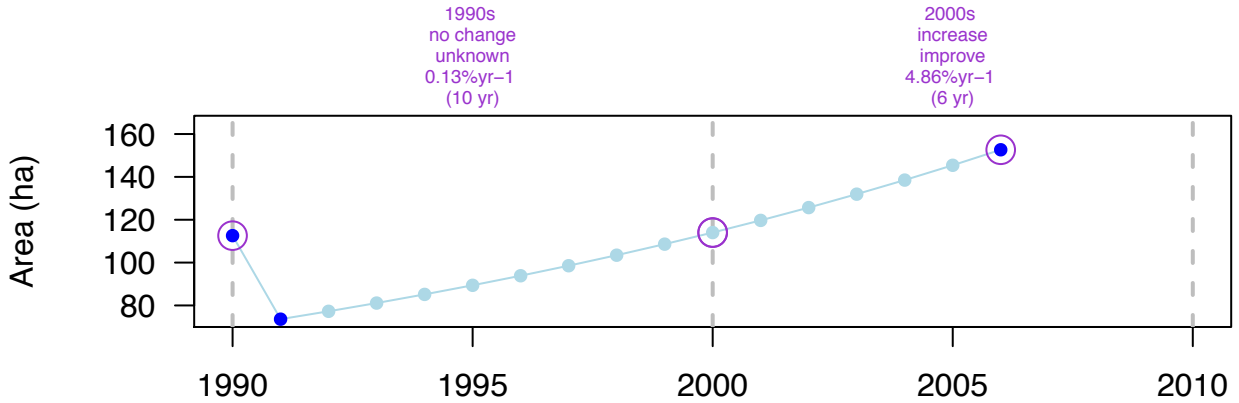
430_area

Montefalcone et al. 2013

SITE: Arenzano (Italy – Mediterranean) – Po (? m)

OVERALL: Net = 40.082 ha; Rate = 1.9 % yr⁻¹; Perc Final = 136 % > increase

DECADAL: YES (16 yr)



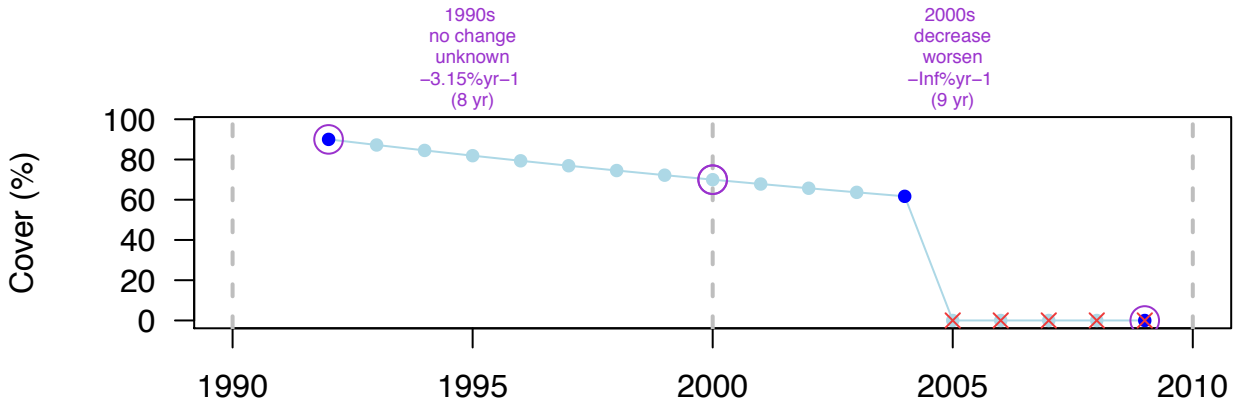
431_cover

Sandulli et al. 1994, Bianchi et al. 2009, Montefalcone et al. 2007 (a)

SITE: Bergeggi (Italy – Mediterranean) – Cn (-8 m)

OVERALL: Net = -90 %; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (17 yr)



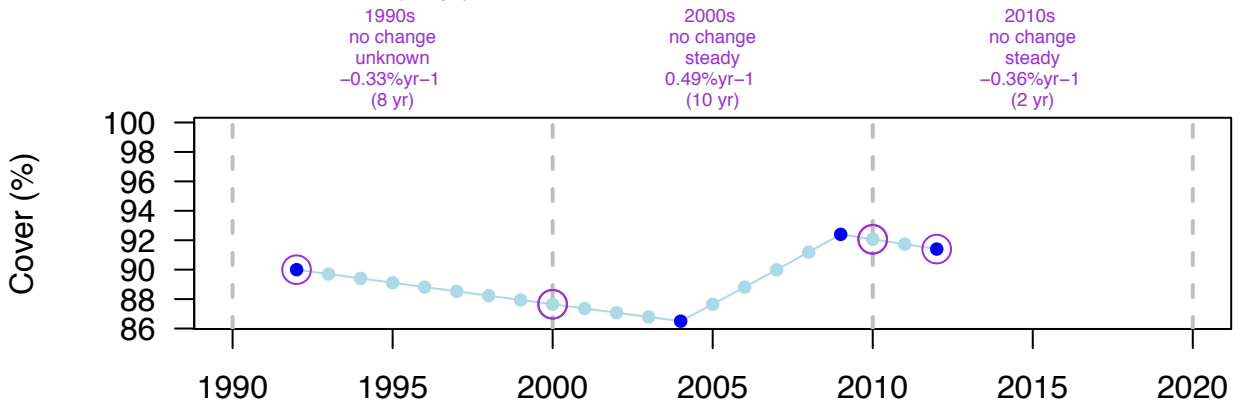
432_cover

Vetere and Pessani 1989, Sandulli et al. 1994, Montefalcone et al 2007a, Bianchi et al. 2009, Oprandi et al. 2014

SITE: Bergeggi (Italy – Mediterranean) – Po (? m)

OVERALL: Net = 1.4 %; Rate = 0.08 % yr⁻¹; Perc Final = 102 % > no change

DECADAL: YES (20 yr)



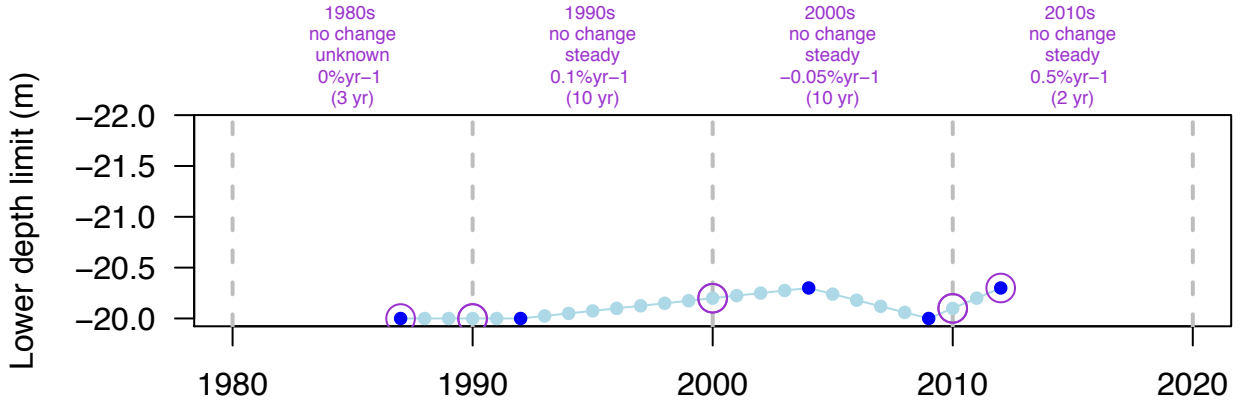
432_lowerlimit

Vetere and Pessani 1989, Sandulli et al. 1994, Montefalcone et al 2007a, Bianchi et al. 2009, Oprandi et al. 2014

SITE: Bergeggi (Italy – Mediterranean) – Po (? m)

OVERALL: Net = 0.3 m; Rate = 0.06 % yr⁻¹; Perc Final = 102 % > no change

DECADAL: YES (25 yr)



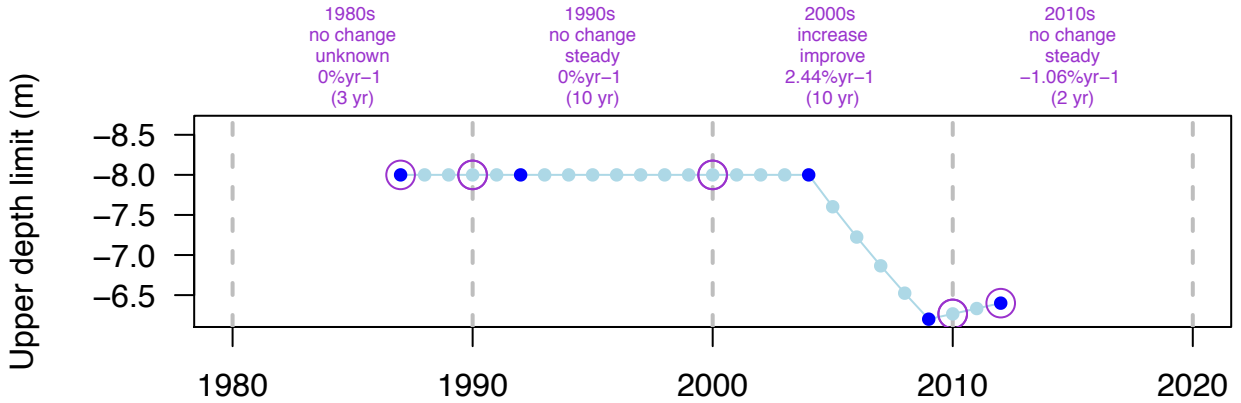
432_upperlimit

Vetere and Pessani 1989, Sandulli et al. 1994, Montefalcone et al 2007a, Bianchi et al. 2009, Oprandi et al. 2014

SITE: Bergeggi (Italy – Mediterranean) – Po (? m)

OVERALL: Net = 1.6 m; Rate = 0.89 % yr⁻¹; Perc Final = 125 % > increase

DECADAL: YES (25 yr)



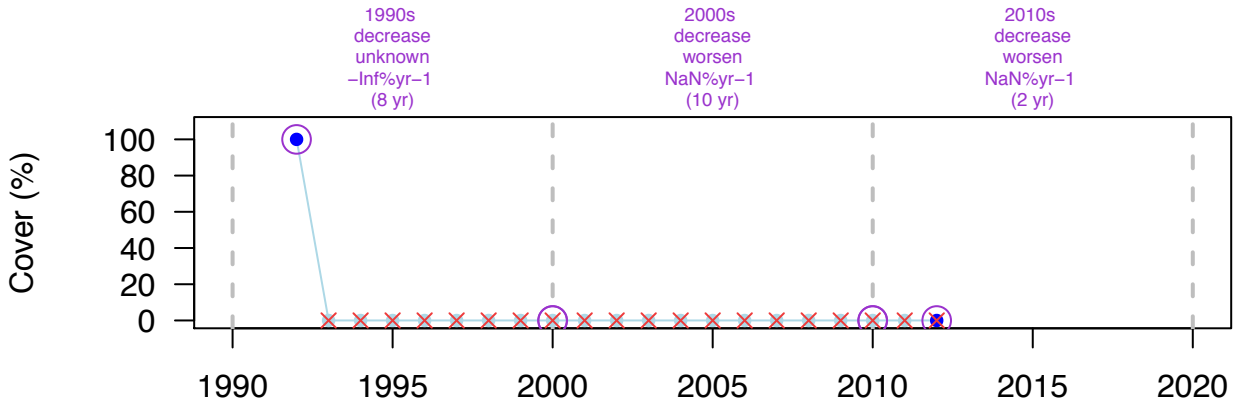
433_cover

Bianchi and Sandulli 1992, Oprandi et al. 2014

SITE: Noli (Italy – Mediterranean) – Cn (-4 m)

OVERALL: Net = -100 %; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (20 yr)



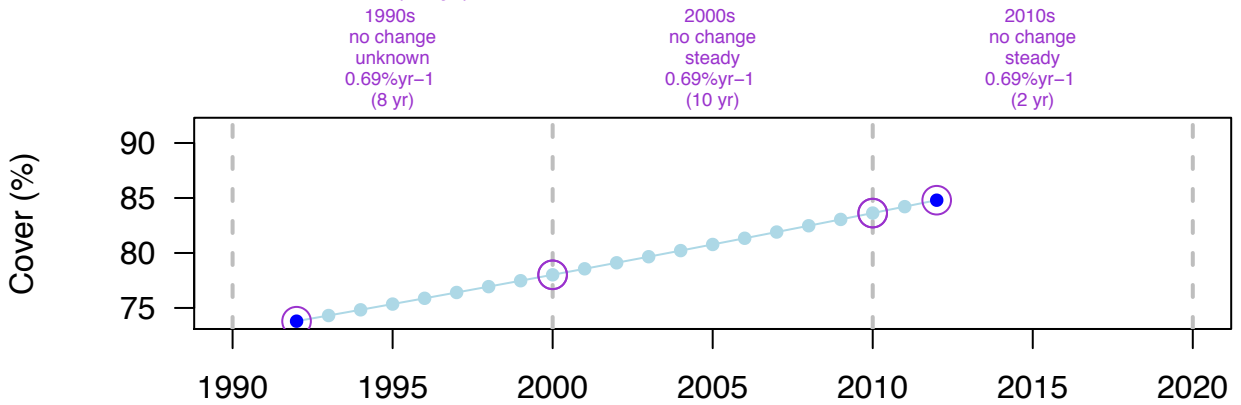
434_cover

Bianchi and Sandulli 1992, Oprandi et al. 2014

SITE: Noli (Italy – Mediterranean) – Po (? m)

OVERALL: Net = 11 %; Rate = 0.69 % yr⁻¹; Perc Final = 115 % > no change

DECADAL: YES (20 yr)



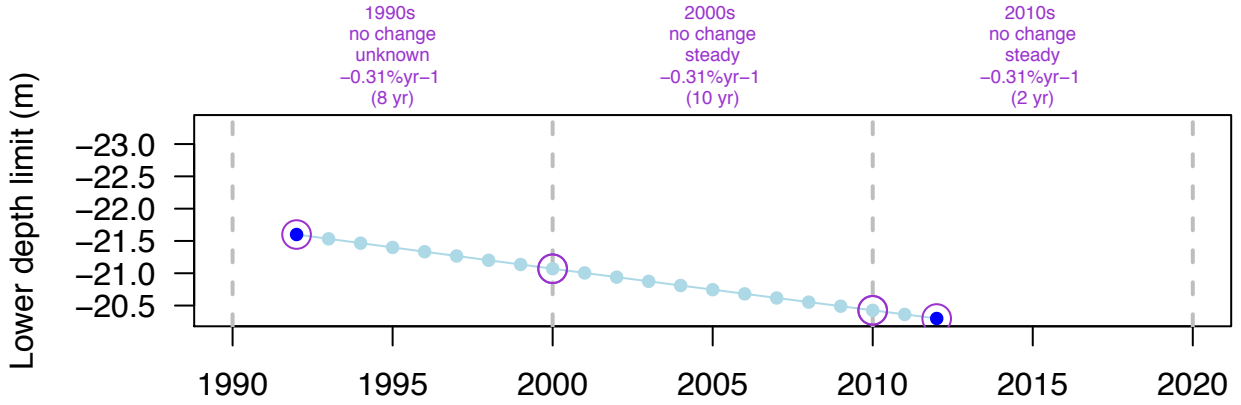
434_lowerlimit

Bianchi and Sandulli 1992, Oprandi et al. 2014

SITE: Noli (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -1.3 m; Rate = -0.31 % yr⁻¹; Perc Final = 94 % > no change

DECADAL: YES (20 yr)



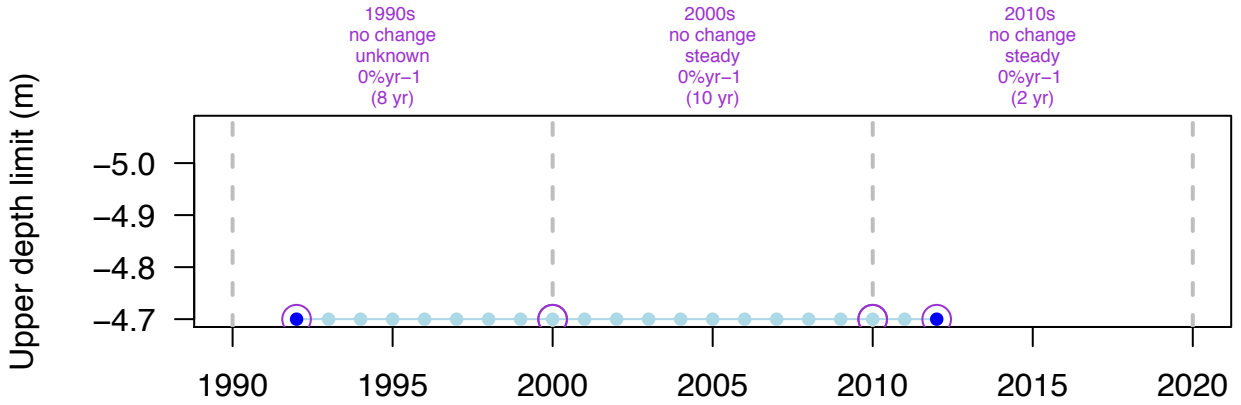
434_upperlimit

Bianchi and Sandulli 1992, Oprandi et al. 2014

SITE: Noli (Italy – Mediterranean) – Po (? m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (20 yr)



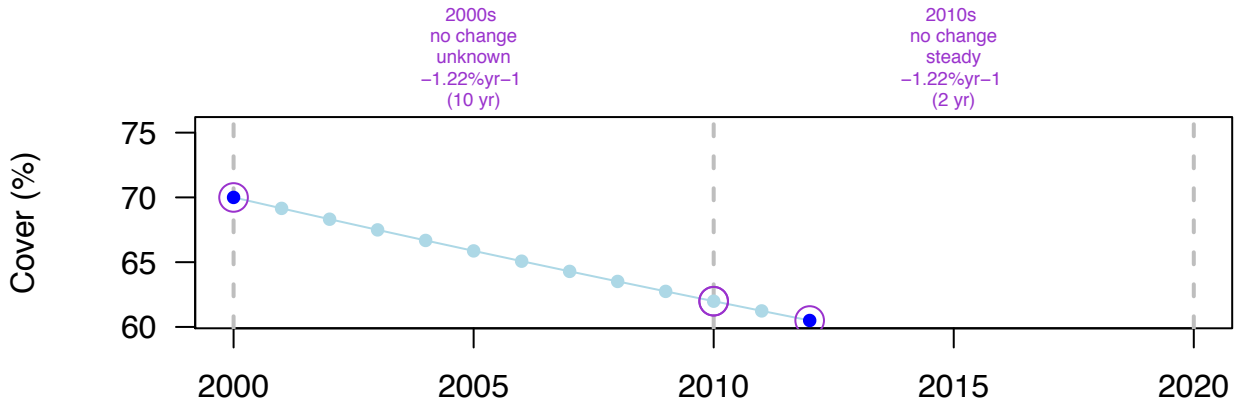
435_cover

Diviacco 2000, Oprandi et al. 2014, Montefalcone (unpublished)

SITE: Spotorno (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -9.5 %; Rate = -1.22 % yr⁻¹; Perc Final = 86 % > no change

DECADAL: YES (12 yr)



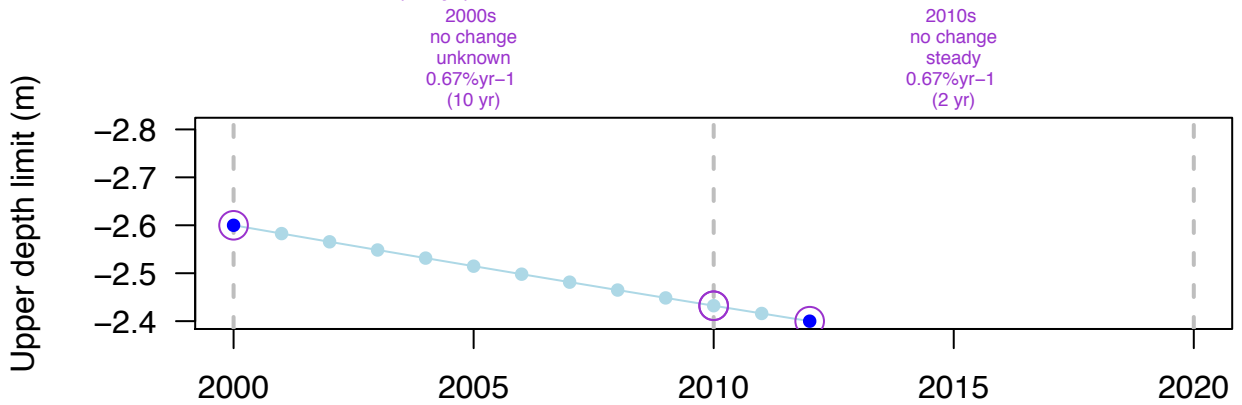
435_upperlimit

Diviacco 2000, Oprandi et al. 2014, Montefalcone (unpublished)

SITE: Spotorno (Italy – Mediterranean) – Po (? m)

OVERALL: Net = 0.2 m; Rate = 0.67 % yr⁻¹; Perc Final = 108 % > no change

DECADAL: YES (12 yr)



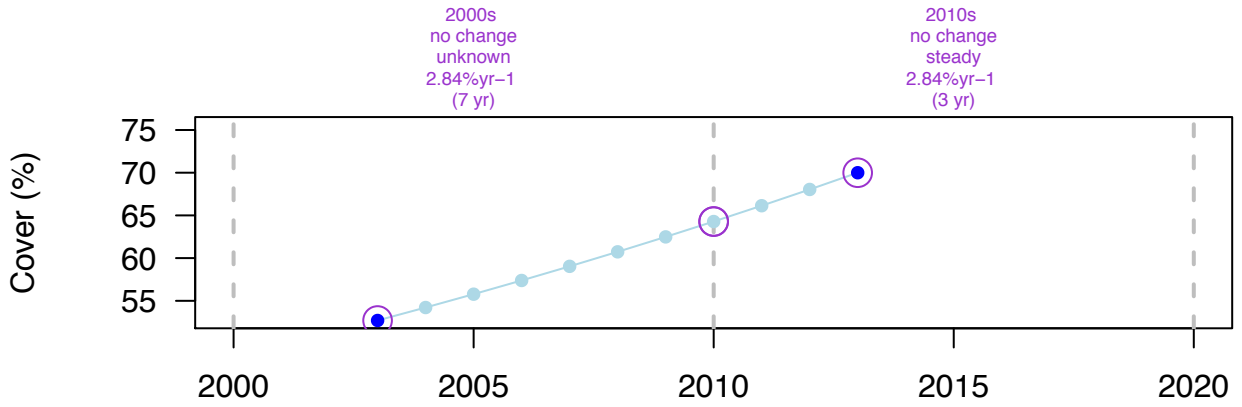
437_cover

Montefalcone et al. 2007b, Montefalcone (unpublished)

SITE: Prelo (Italy – Mediterranean) – Po (? m)

OVERALL: Net = 17.3 %; Rate = 2.84 % yr⁻¹; Perc Final = 133 % > increase

DECADAL: YES (10 yr)



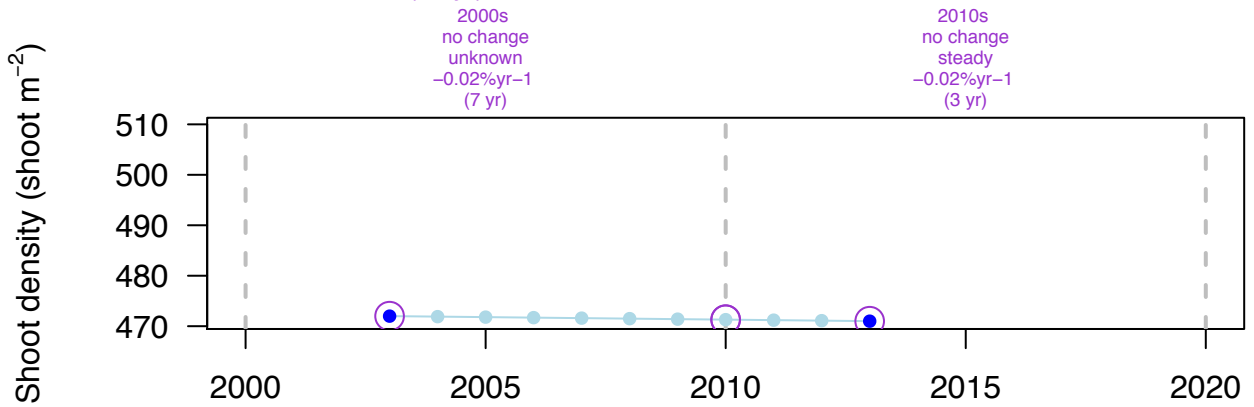
437_density

Montefalcone et al. 2007b, Montefalcone (unpublished)

SITE: Prelo (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -1 shoot m⁻²; Rate = -0.02 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (10 yr)



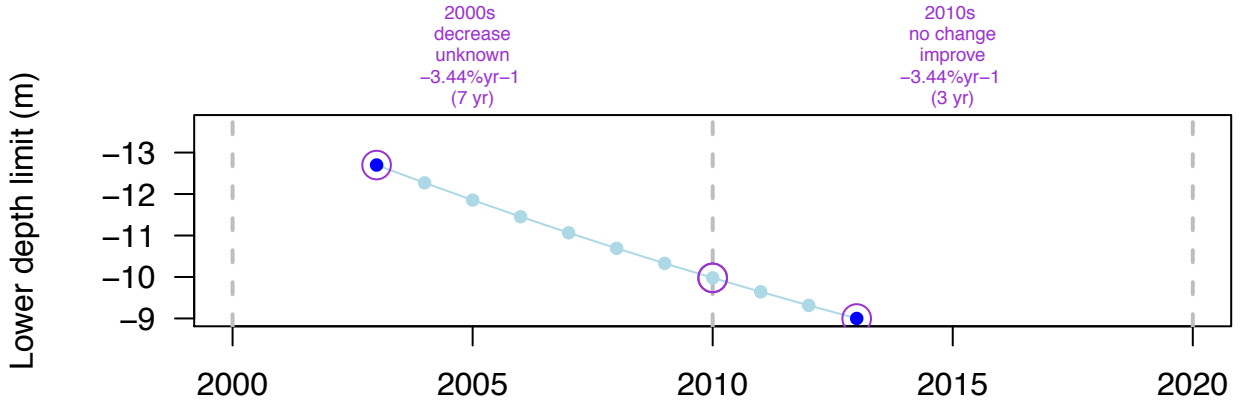
437_lowerlimit

Montefalcone et al. 2007b, Montefalcone (unpublished)

SITE: Prelo (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -3.7 m; Rate = -3.44 % yr⁻¹; Perc Final = 71 % > decrease

DECADAL: YES (10 yr)



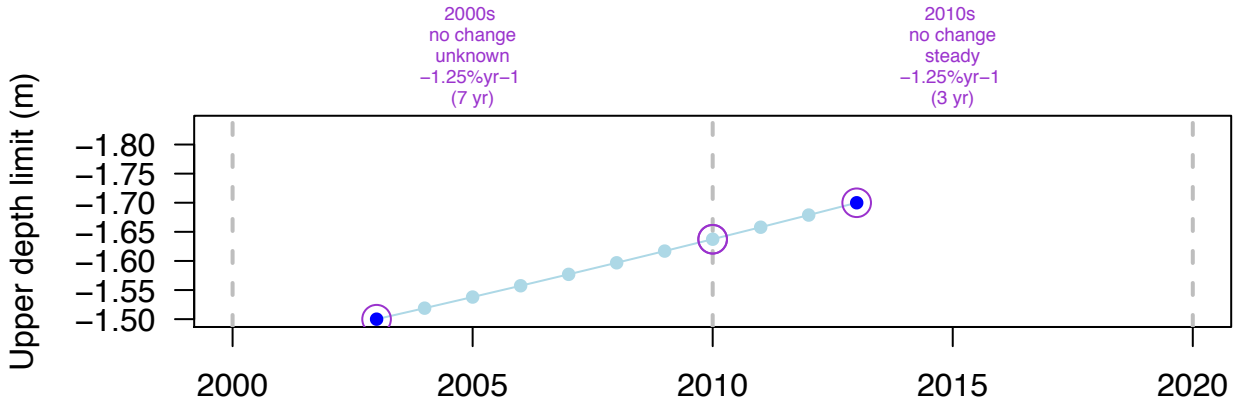
437_upperlimit

Montefalcone et al. 2007b, Montefalcone (unpublished)

SITE: Prelo (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -0.2 m; Rate = -1.25 % yr⁻¹; Perc Final = 88 % > decrease

DECADAL: YES (10 yr)



441_area

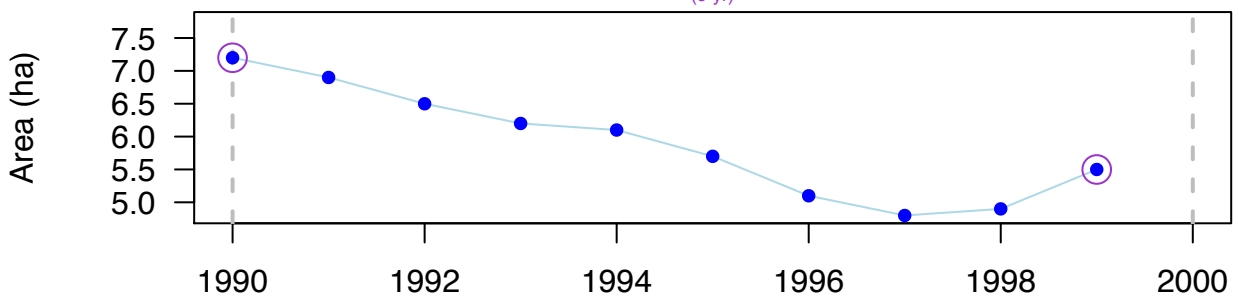
Fournier 2002

SITE: Baie de Locquirec (France – Atlantic) – Zm (–4 m)

OVERALL: Net = –1.7 ha; Rate = –2.99 % yr⁻¹; Perc Final = 76 % > decrease

DECADAL: YES (9 yr)

1990s
decrease
unknown
–2.99%yr⁻¹
(9 yr)



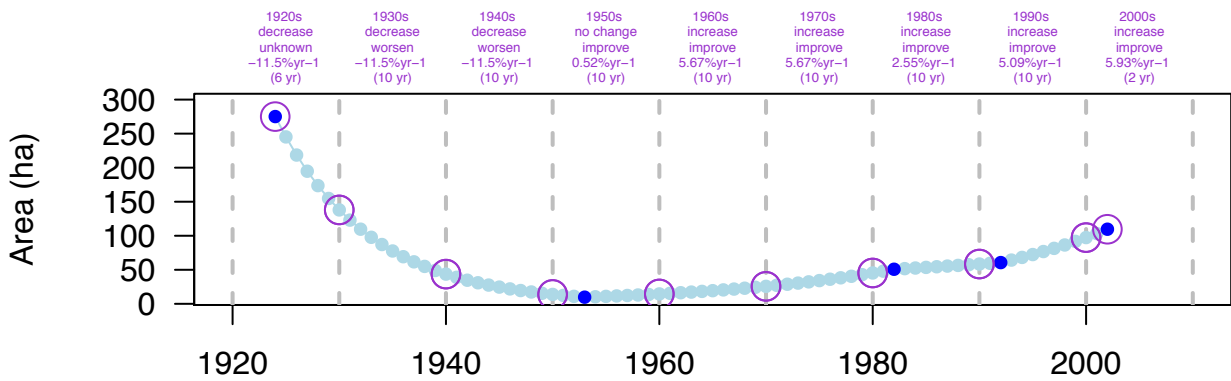
442_area

Godet et al. 2008, Auby et al. 2010

SITE: Chausey Archipelago (intertidal) (France – Atlantic) – Zm (? m)

OVERALL: Net = –165.5 ha; Rate = –1.18 % yr⁻¹; Perc Final = 40 % > decrease

DECADAL: YES (78 yr)



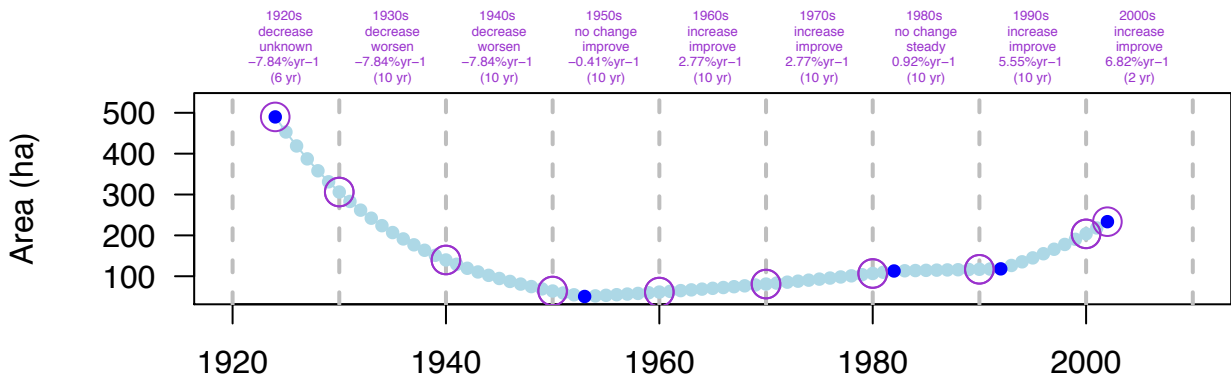
443_area

Godet et al. 2008, Auby et al. 2010

SITE: Chausey Archipelago (subtidal) (France – Atlantic) – Zm (-4 m)

OVERALL: Net = -256.4 ha; Rate = -0.95 % yr⁻¹; Perc Final = 48 % > decrease

DECADAL: YES (78 yr)



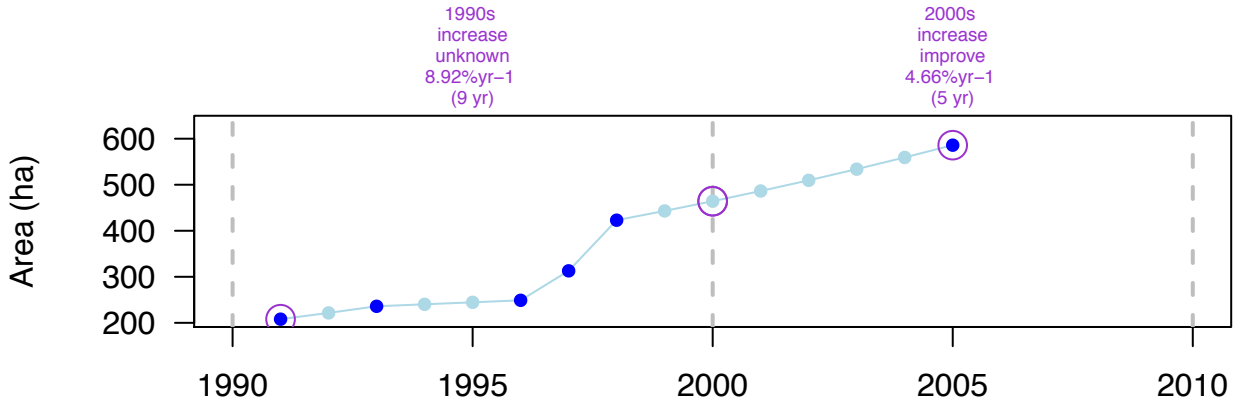
444_area

Barillé et al. 2010

SITE: Bourgneuf Bay (France – Atlantic) – Zn (? m)

OVERALL: Net = 378 ha; Rate = 7.4 % yr⁻¹; Perc Final = 282 % > increase

DECADAL: YES (14 yr)



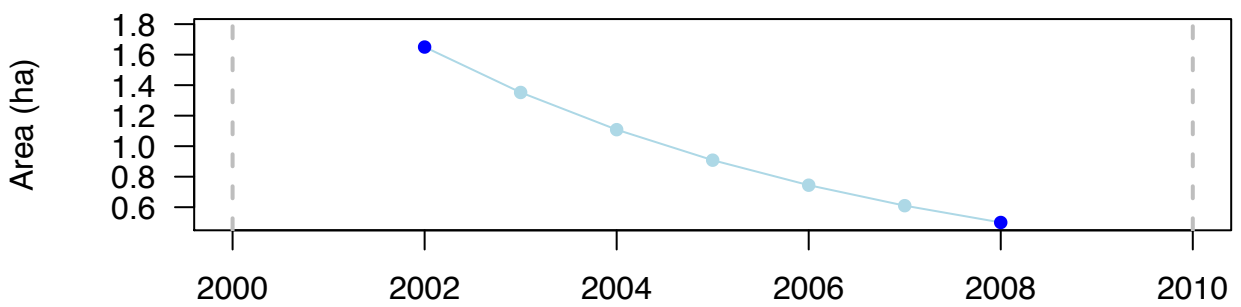
446_area

Fournier 2003, Nebout et al. 2008

SITE: La Canue (France – Atlantic) – Zn (? m)

OVERALL: Net = -1.15 ha; Rate = -19.9 % yr⁻¹; Perc Final = 30 % > decrease

DECADAL: NO (6 yr)



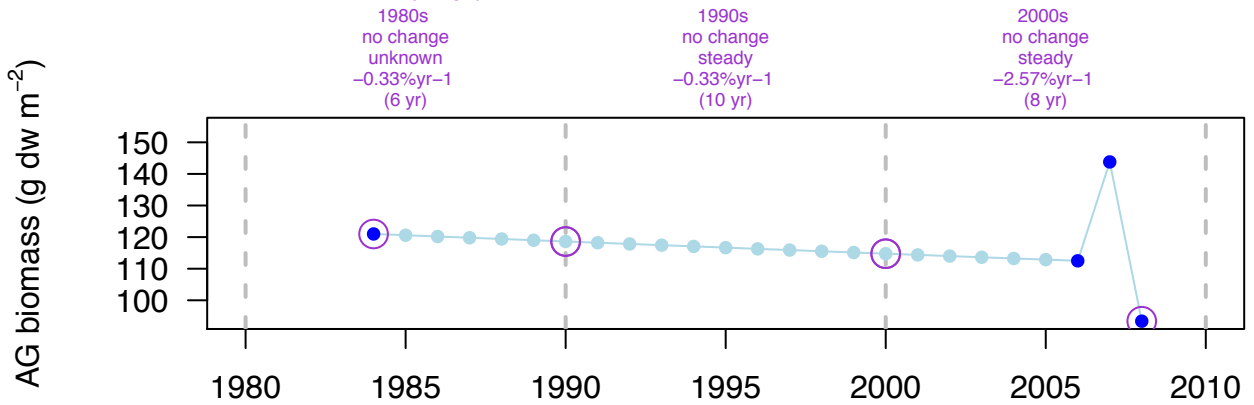
448_abiomass

Auby et al. 2010

SITE: Arcachon Bay (France – Atlantic) – Zn (0 m)

OVERALL: Net = -27.6 g dw m⁻²; Rate = -1.08 % yr⁻¹; Perc Final = 77 % > no change

DECADAL: YES (24 yr)



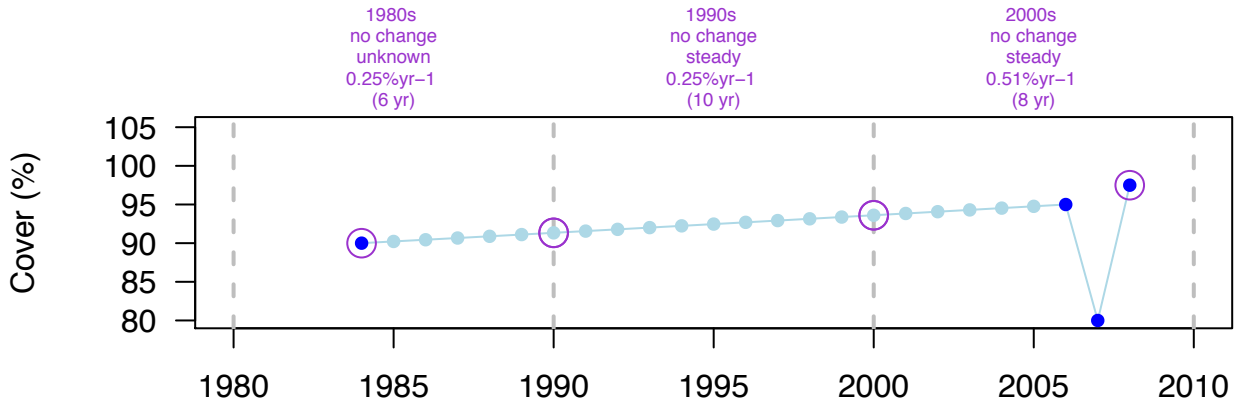
448_cover

Auby et al. 2010

SITE: Arcachon Bay (France – Atlantic) – Zn (0 m)

OVERALL: Net = 7.5 %; Rate = 0.33 % yr⁻¹; Perc Final = 108 % > no change

DECADAL: YES (24 yr)



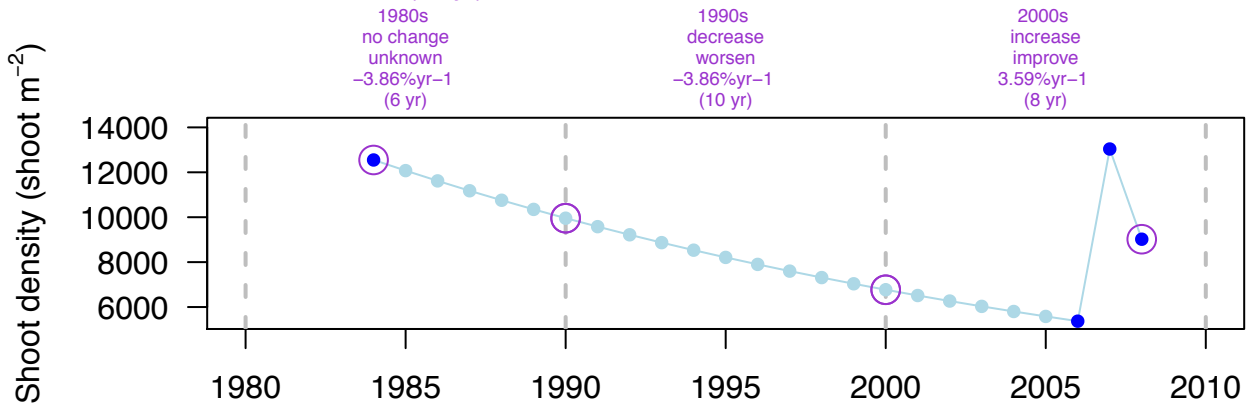
448_density

Auby et al. 2010

SITE: Arcachon Bay (France – Atlantic) – Zn (0 m)

OVERALL: Net = -3529 shoot m⁻²; Rate = -1.38 % yr⁻¹; Perc Final = 72 % > decrease

DECADAL: YES (24 yr)



449_abiomass

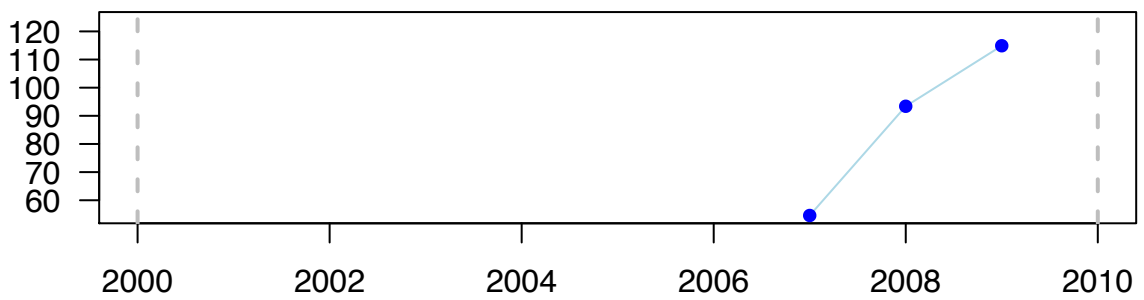
Plus et al. 2010

SITE: Arcachon Bay (France – Atlantic) – Zm (-5 m)

OVERALL: Net = 60.3 g dw m⁻²; Rate = 37.2 % yr⁻¹; Perc Final = 210 % > increase

DECADAL: NO (2 yr)

AG biomass (g dw m⁻²)



449_density

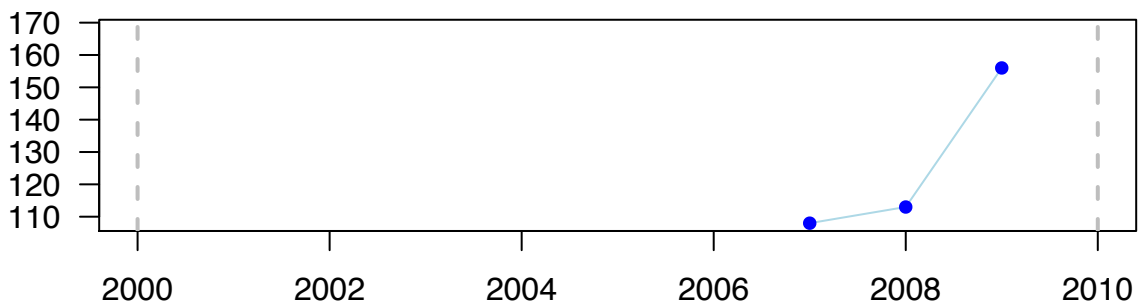
Plus et al. 2010

SITE: Arcachon Bay (France – Atlantic) – Zm (-5 m)

OVERALL: Net = 48 shoot m⁻²; Rate = 18.39 % yr⁻¹; Perc Final = 144 % > increase

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



454_abiomass

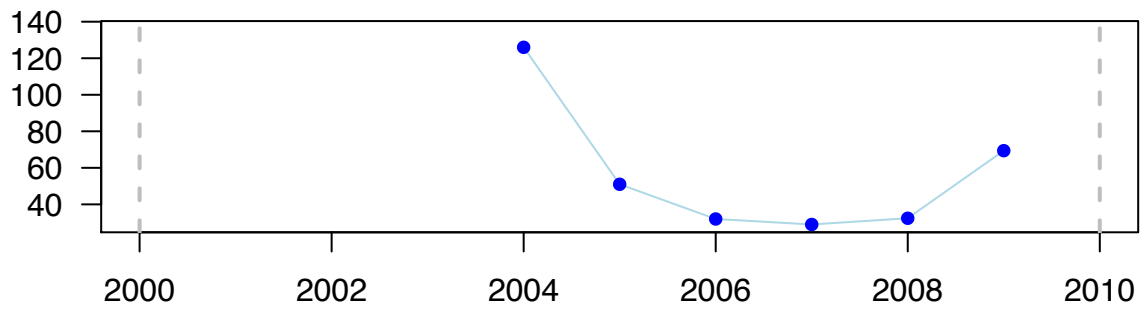
Auby et al. 2010

SITE: Callot (Baie de Morlaix) (France – Atlantic) – Zm (? m)

OVERALL: Net = -56.6 g dw m⁻²; Rate = -11.93 % yr⁻¹; Perc Final = 55 % > decrease

DECADAL: NO (5 yr)

AG biomass (g dw m⁻²)



454_density

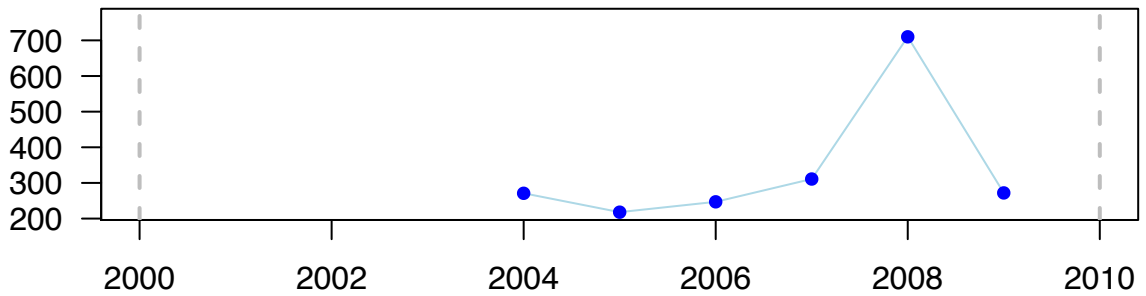
Auby et al. 2010

SITE: Callot (Baie de Morlaix) (France – Atlantic) – Zm (? m)

OVERALL: Net = 1 shoot m⁻²; Rate = 0.07 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



469_abiomass

Auby et al. 2010

SITE: Concarneau (Glenan Archipelago) (France – Atlantic) – Zm (? m)

OVERALL: Net = 37.2 g dw m⁻²; Rate = 23.29 % yr⁻¹; Perc Final = 159 % > increase

DECADAL: NO (2 yr)

AG biomass (g dw m⁻²)



469_density

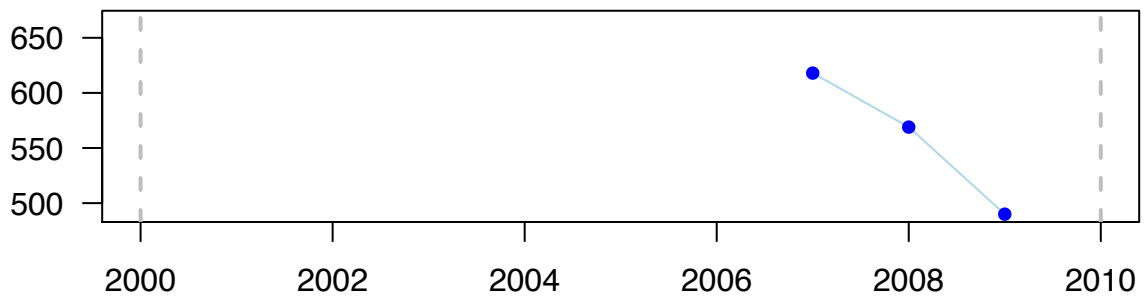
Auby et al. 2010

SITE: Concarneau (Glenan Archipelago) (France – Atlantic) – Zm (? m)

OVERALL: Net = -128 shoot m⁻²; Rate = -11.6 % yr⁻¹; Perc Final = 79 % > no change

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



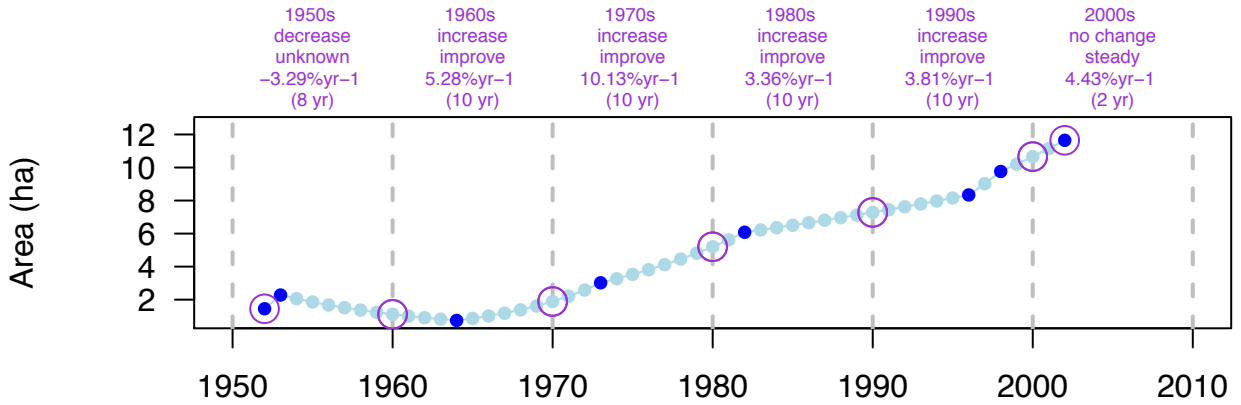
473_area

Nebout et al. 2008, Auby et al. 2010

SITE: Plage de L'Ecluse (France – Atlantic) – Zm (? m)

OVERALL: Net = 10.2 ha; Rate = 4.17 % yr⁻¹; Perc Final = 803 % > increase

DECADAL: YES (50 yr)



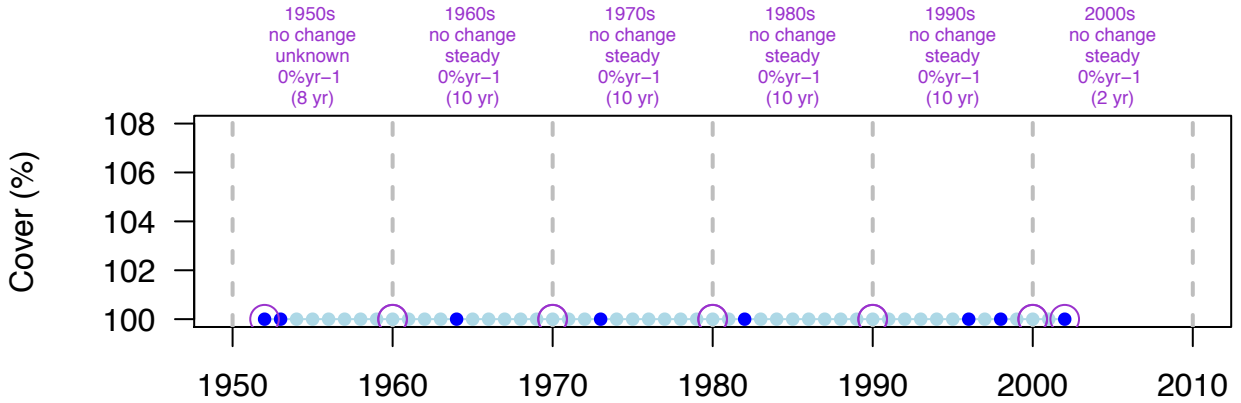
473_cover

Nebout et al. 2008, Auby et al. 2010

SITE: Plage de L'Ecluse (France – Atlantic) – Zm (? m)

OVERALL: Net = 0 %; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (50 yr)



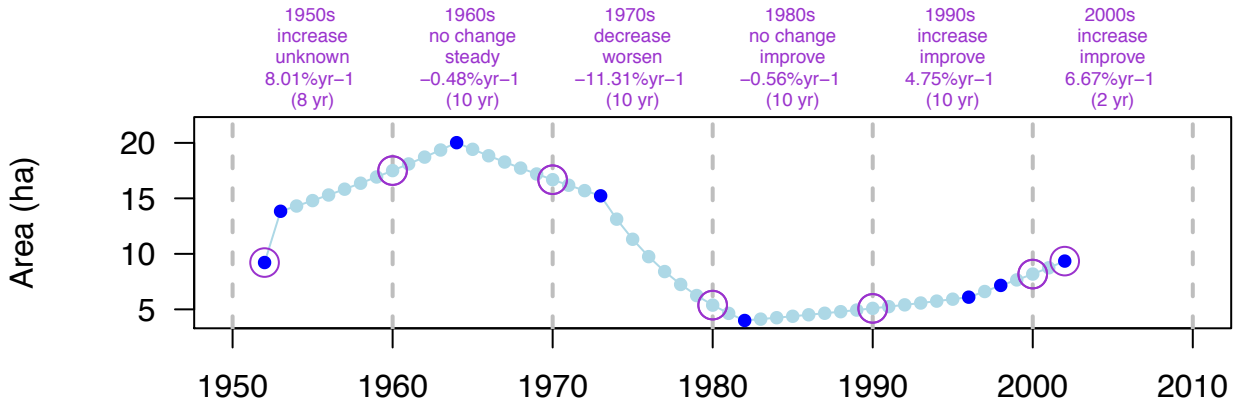
474_area

Nebout et al. 2008, Auby et al. 2010

SITE: Baie du Prieuré (France – Atlantic) – Zm (? m)

OVERALL: Net = 0.13 ha; Rate = 0.03 % yr⁻¹; Perc Final = 101 % > no change

DECADAL: YES (50 yr)



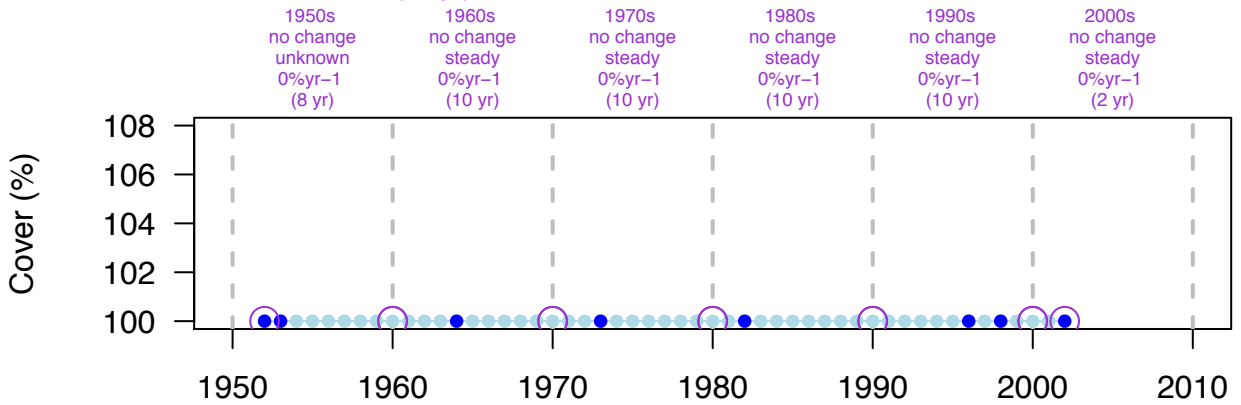
474_cover

Nebout et al. 2008, Auby et al. 2010

SITE: Baie du Prieuré (France – Atlantic) – Zm (? m)

OVERALL: Net = 0 %; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (50 yr)



475_abiomass

Auby et al. 2010

SITE: Estuaire Bidassoa (France – Atlantic) – Zn (? m)

OVERALL: Net = 15.42 g dw m⁻²; Rate = 19.94 % yr⁻¹; Perc Final = 149 % > increase

DECADAL: NO (2 yr)

AG biomass (g dw m⁻²)



475_cover

Auby et al. 2010

SITE: Estuaire Bidassoa (France – Atlantic) – Zn (? m)

OVERALL: Net = 0 %; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (2 yr)

Cover (%)



475_density

Auby et al. 2010

SITE: Estuaire Bidassoa (France – Atlantic) – Zn (? m)

OVERALL: Net = 2375 shoot m⁻²; Rate = 23.14 % yr⁻¹; Perc Final = 159 % > increase

DECADAL: NO (2 yr)



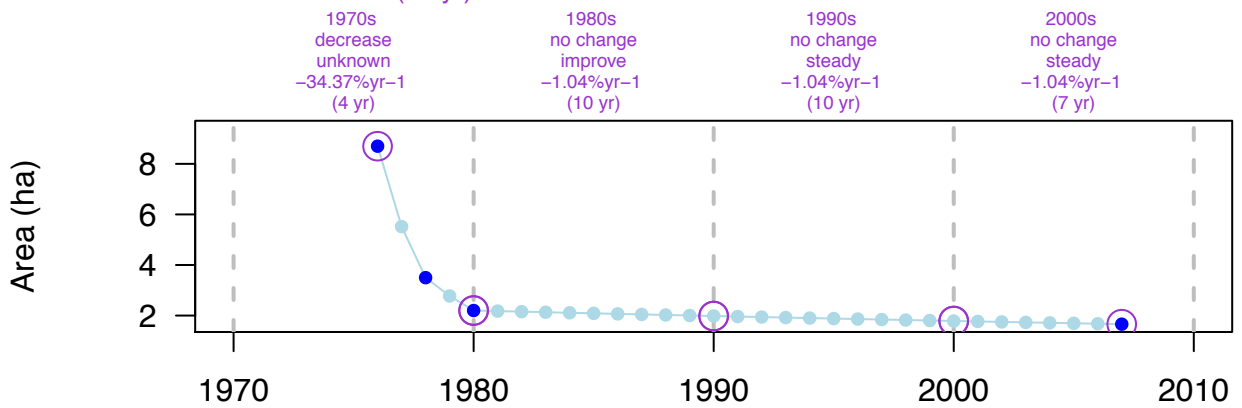
476_area

Auby et al. 2010

SITE: Estuaire Bidassoa (France – Atlantic) – Zn (? m)

OVERALL: Net = -7.04 ha; Rate = -5.34 % yr⁻¹; Perc Final = 19 % > decrease

DECADAL: YES (31 yr)



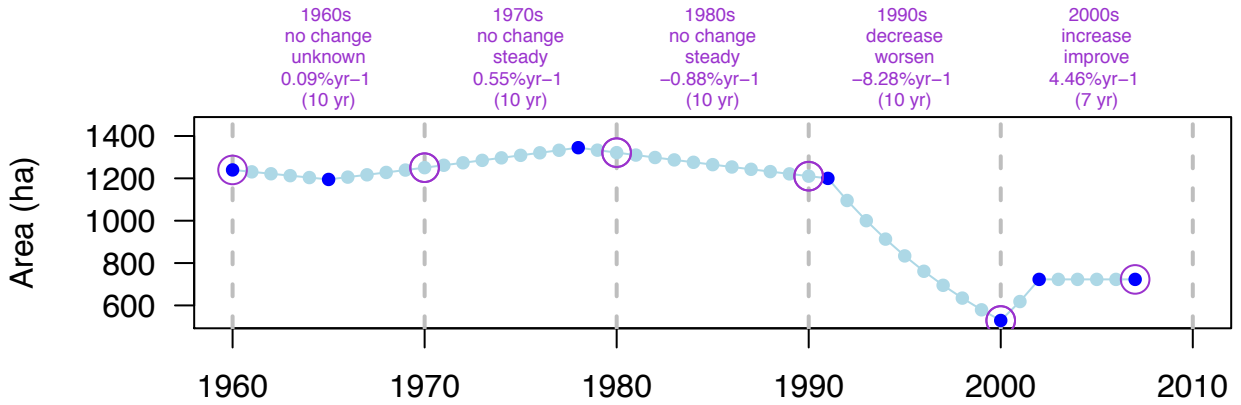
480_area

Auby et al. 2010

SITE: Golfe du Morbihan (France – Atlantic) – Zn (0 m)

OVERALL: Net = -517 ha; Rate = -1.15 % yr⁻¹; Perc Final = 58 % > decrease

DECADAL: YES (47 yr)



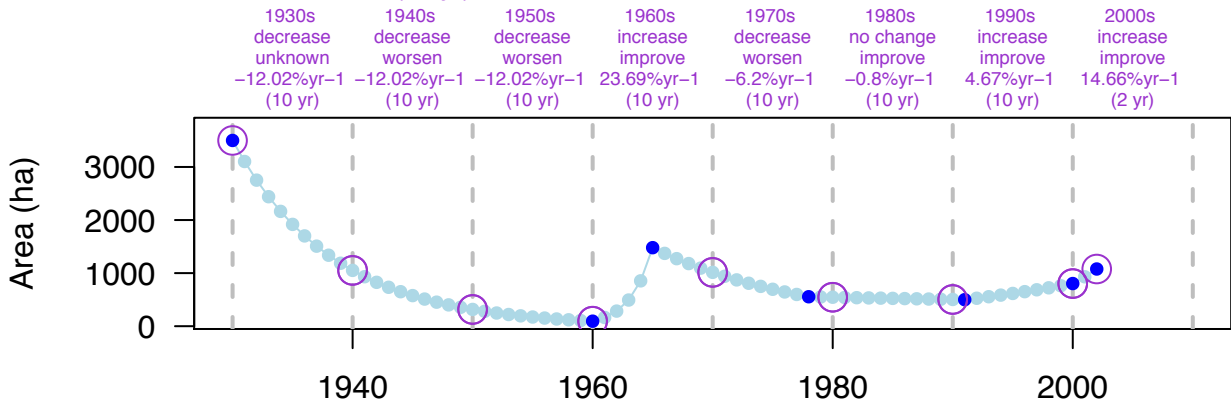
481_area

Auby et al. 2010

SITE: Golfe du Morbihan (France – Atlantic) – Zm (0 m)

OVERALL: Net = -2422 ha; Rate = -1.64 % yr⁻¹; Perc Final = 31 % > decrease

DECADAL: YES (72 yr)



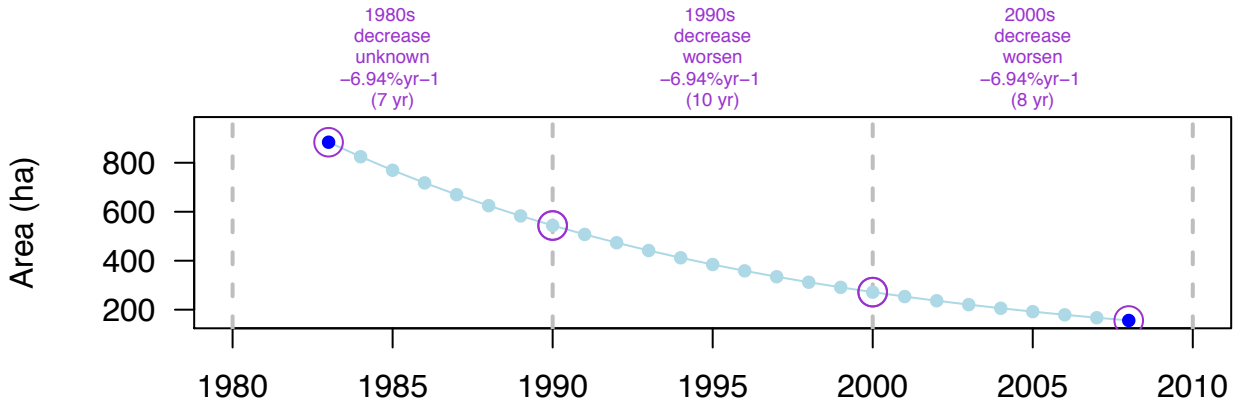
482_area

Auby et al. 2010

SITE: Ouest Cotentin (France – Atlantic) – Zm (? m)

OVERALL: Net = -728 ha; Rate = -6.94 % yr⁻¹; Perc Final = 18 % > decrease

DECADAL: YES (25 yr)



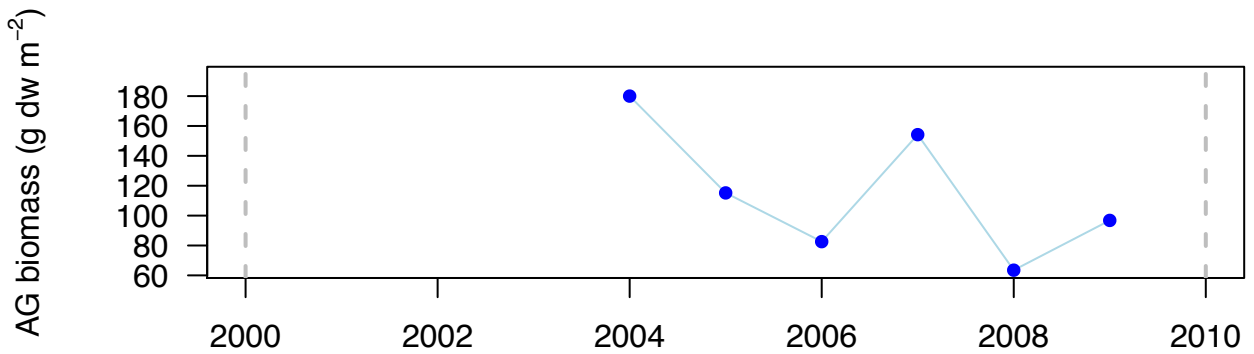
487_abiomass

Auby et al. 2010

SITE: Molène (France – Atlantic) – Zm (? m)

OVERALL: Net = -83.2 g dw m⁻²; Rate = -12.41 % yr⁻¹; Perc Final = 54 % > decrease

DECADAL: NO (5 yr)



487_density

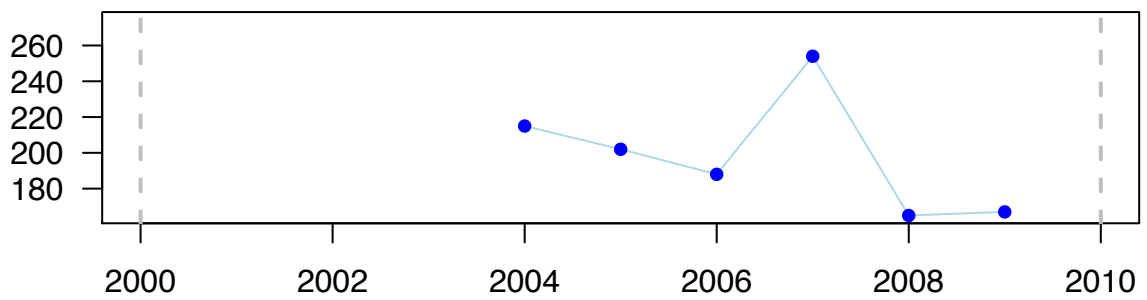
Auby et al. 2010

SITE: Molène (France – Atlantic) – Zm (? m)

OVERALL: Net = -48 shoot m⁻²; Rate = -5.05 % yr⁻¹; Perc Final = 78 % > no change

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



496_area

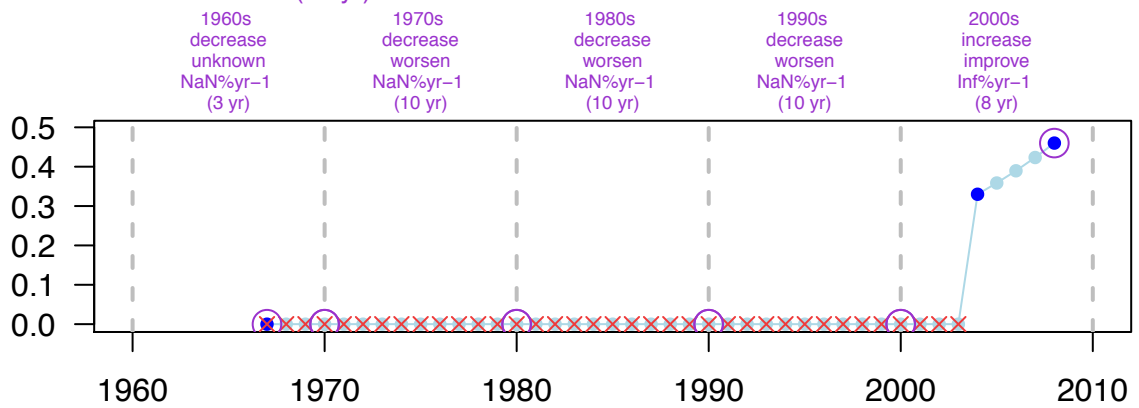
Auby et al. 2010

SITE: Lac d'Hossegor (France – Atlantic) – Zn (? m)

OVERALL: Net = 0.46 ha; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: YES (41 yr)

Area (ha)



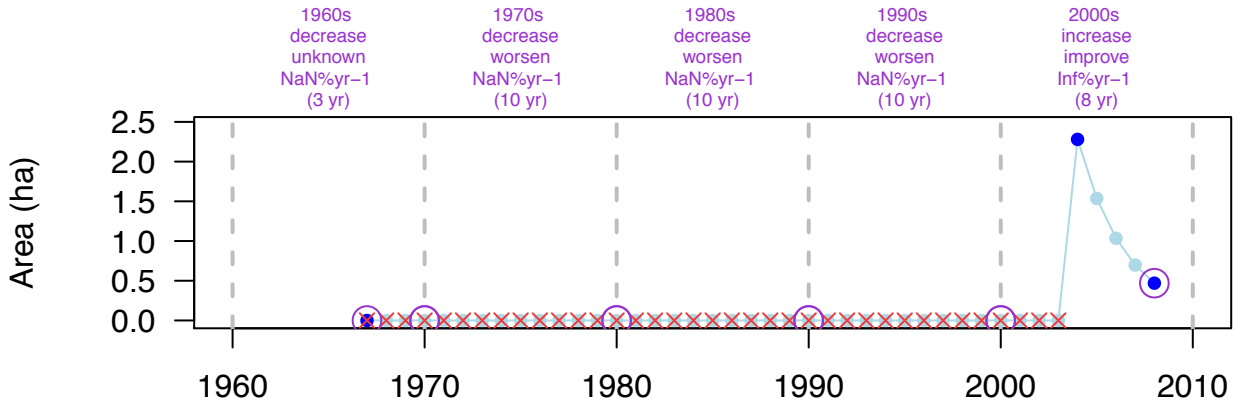
497_area

Auby et al. 2010

SITE: Lac d'Hossegor (France – Atlantic) – Zm (? m)

OVERALL: Net = 0.47 ha; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: YES (41 yr)



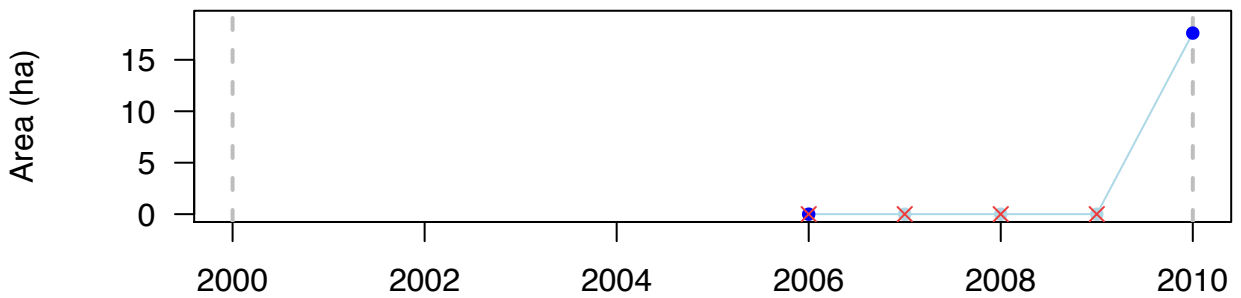
506_area

Auby et al. 2010

SITE: L'estuaire du Lay (France – Atlantic) – Zn (? m)

OVERALL: Net = 17.6 ha; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: NO (4 yr)



507_abiomass

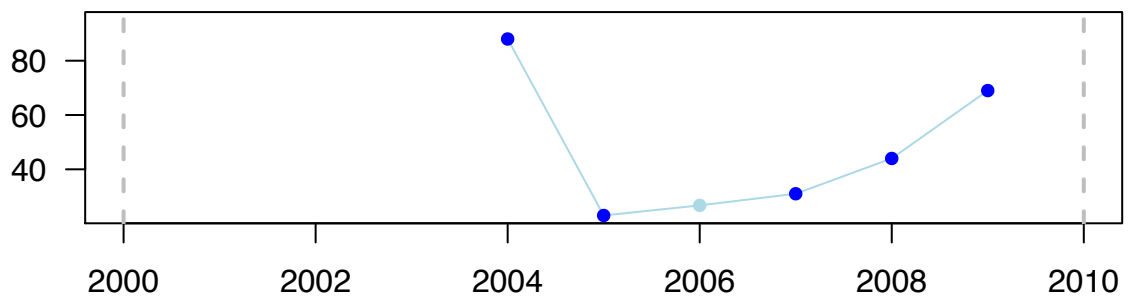
Auby et al. 2010

SITE: Sainte-Marquerite (France – Atlantic) – Zm (? m)

OVERALL: Net = -19 g dw m⁻²; Rate = -4.86 % yr⁻¹; Perc Final = 78 % > no change

DECADAL: NO (5 yr)

AG biomass (g dw m⁻²)



507_density

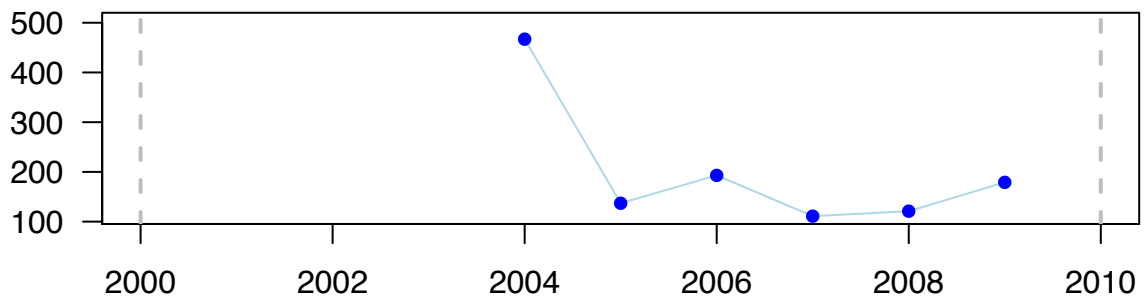
Auby et al. 2010

SITE: Sainte-Marquerite (France – Atlantic) – Zm (? m)

OVERALL: Net = -288 shoot m⁻²; Rate = -19.18 % yr⁻¹; Perc Final = 38 % > decrease

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



519_abiomass

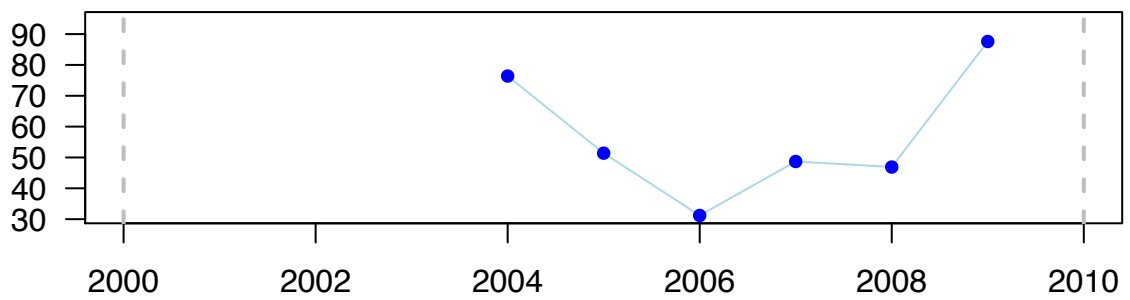
Auby et al. 2010

SITE: Paimpol (France – Atlantic) – Zm (? m)

OVERALL: Net = 11.2 g dw m⁻²; Rate = 2.74 % yr⁻¹; Perc Final = 115 % > no change

DECADAL: NO (5 yr)

AG biomass (g dw m⁻²)



519_density

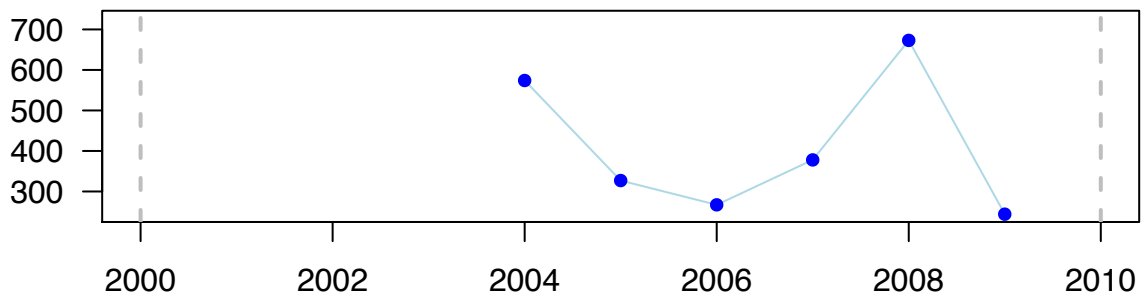
Auby et al. 2010

SITE: Paimpol (France – Atlantic) – Zm (? m)

OVERALL: Net = -330 shoot m⁻²; Rate = -17.11 % yr⁻¹; Perc Final = 43 % > decrease

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



520_abiomass

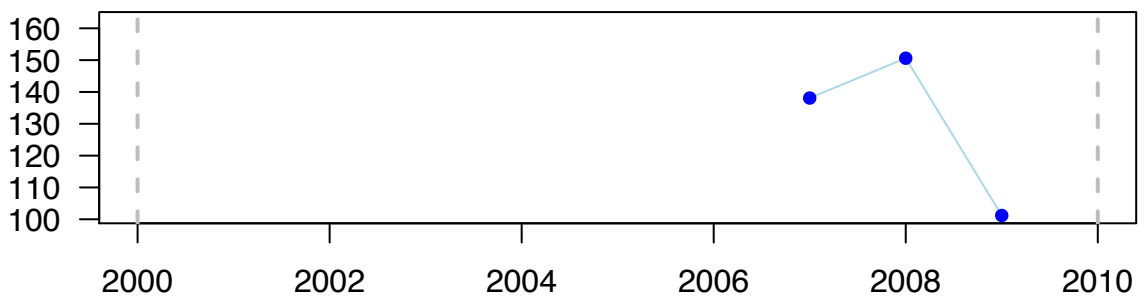
Auby et al. 2010

SITE: Les Sept Îles (France – Atlantic) – Zm (? m)

OVERALL: Net = $-36.9 \text{ g dw m}^{-2}$; Rate = $-15.54 \text{ \% yr}^{-1}$; Perc Final = 73 % > decrease

DECADAL: NO (2 yr)

AG biomass (g dw m^{-2})



520_density

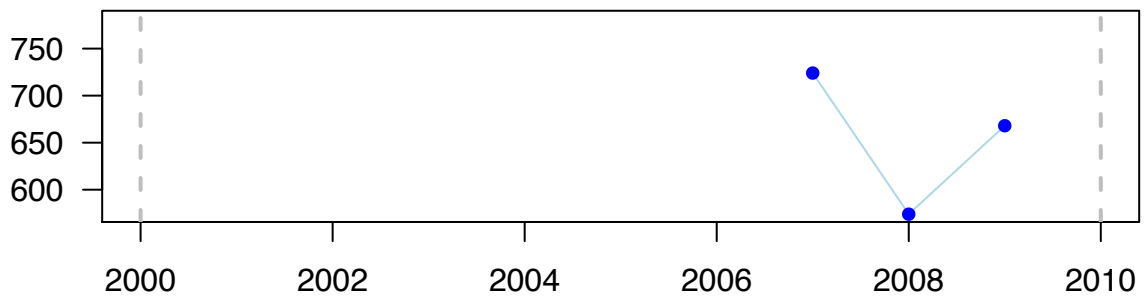
Auby et al. 2010

SITE: Les Sept Îles (France – Atlantic) – Zm (? m)

OVERALL: Net = -56 shoot m^{-2} ; Rate = -4.03 \% yr^{-1} ; Perc Final = 92 % > no change

DECADAL: NO (2 yr)

Shoot density (shoot m^{-2})



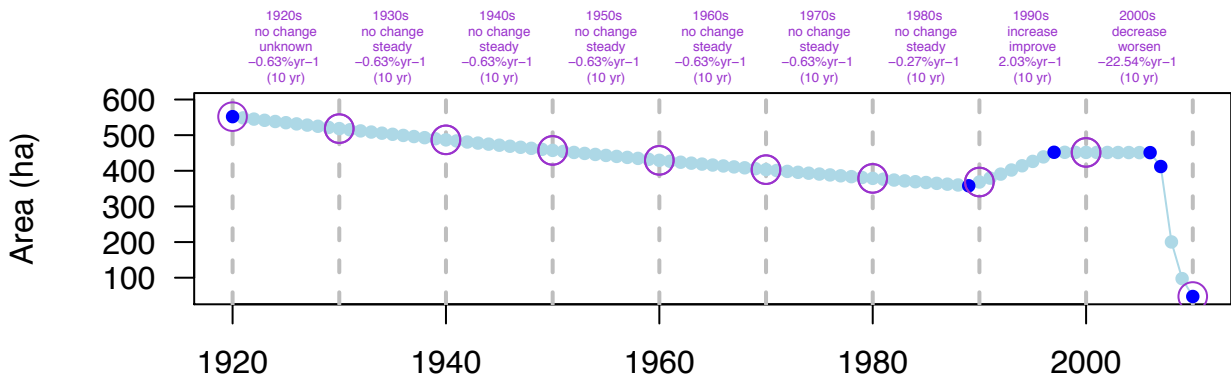
521_area

Auby et al. 2010

SITE: Pertuis Breton (France – Atlantic) – Zn (? m)

OVERALL: Net = -504.6 ha; Rate = -2.73 % yr⁻¹; Perc Final = 9 % > decrease

DECADAL: YES (90 yr)



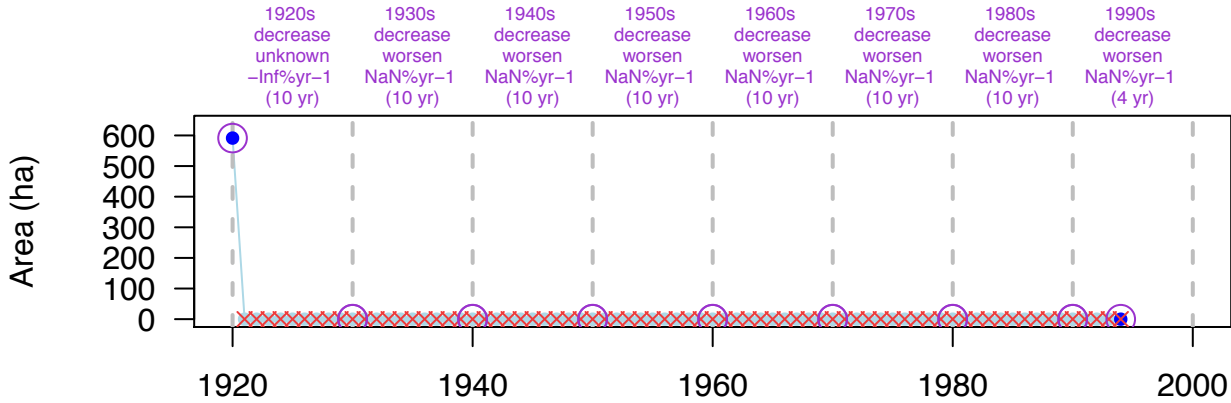
522_area

Auby et al. 2010

SITE: Pertuis Breton (France – Atlantic) – Zm (? m)

OVERALL: Net = -591.45 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (74 yr)



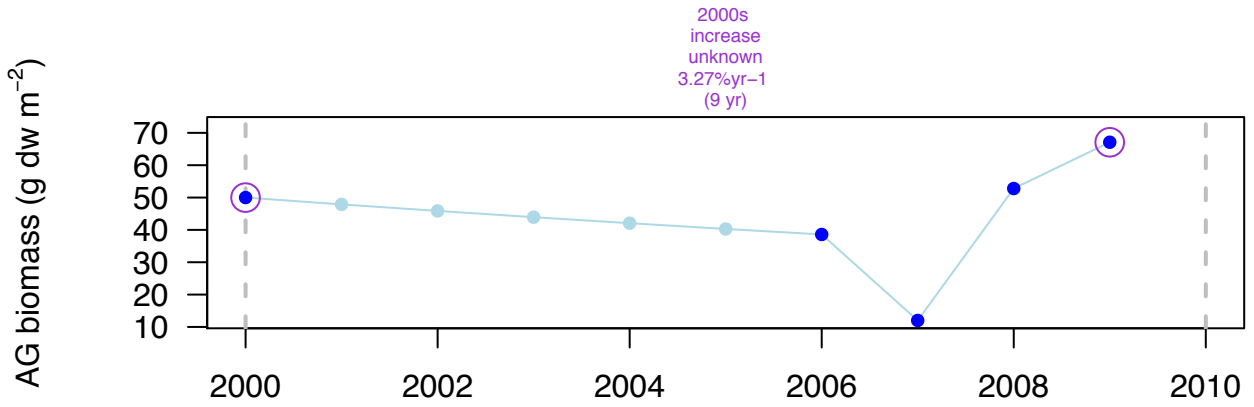
523_abiomass

Auby et al. 2010

SITE: Les Doux (Pertuis Charentais) (France – Atlantic) – Zn (? m)

OVERALL: Net = 17.1 g dw m⁻²; Rate = 3.27 % yr⁻¹; Perc Final = 134 % > increase

DECADAL: YES (9 yr)



523_density

Auby et al. 2010

SITE: Les Doux (Pertuis Charentais) (France – Atlantic) – Zn (? m)

OVERALL: Net = 2934 shoot m⁻²; Rate = 24.48 % yr⁻¹; Perc Final = 163 % > increase

DECADAL: NO (2 yr)



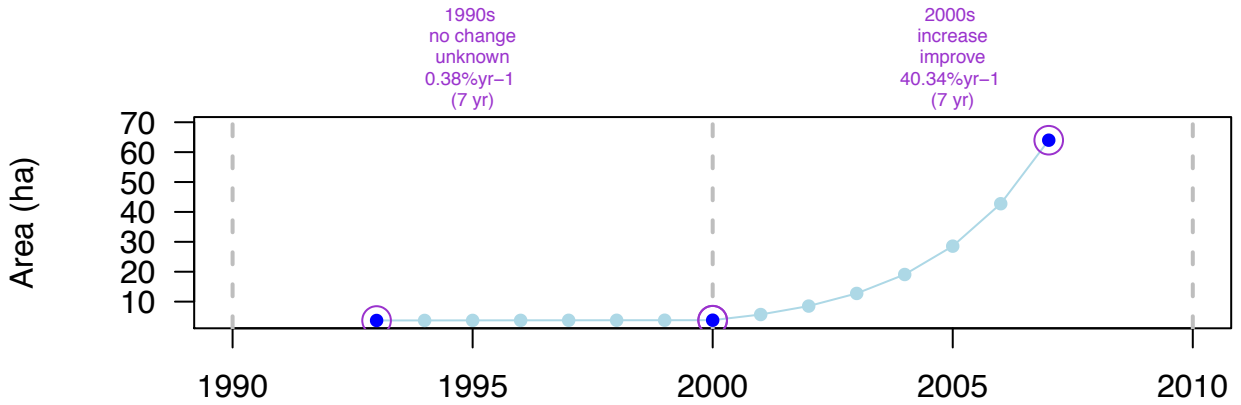
531_area

Auby et al. 2010

SITE: Rade de Brest (France – Atlantic) – Zm (? m)

OVERALL: Net = 60.3 ha; Rate = 20.36 % yr⁻¹; Perc Final = 1730 % > increase

DECADAL: YES (14 yr)



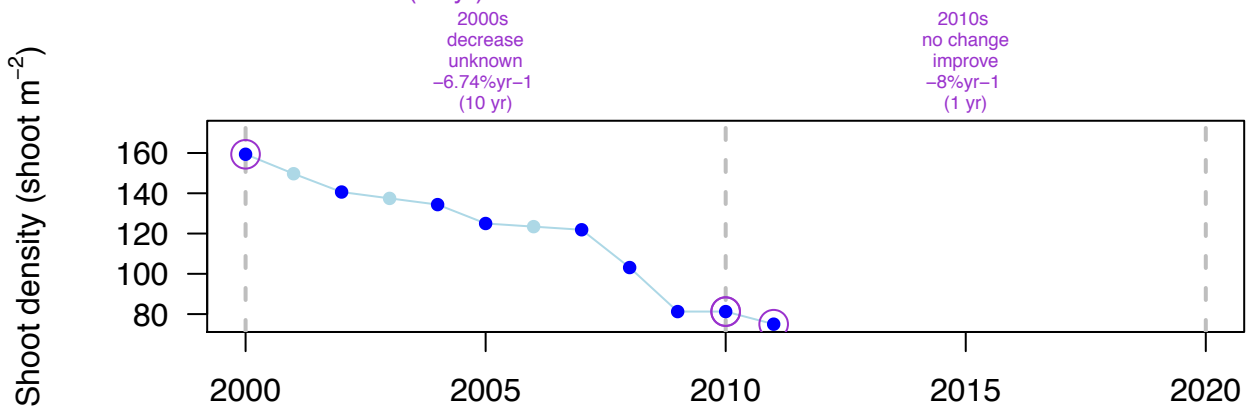
556_density

Marbà and Duarte 2010, Duarte and Marbà (unpublished)

SITE: El Castell (Spain – Mediterranean) – Po (-25 m)

OVERALL: Net = -84.38 shoot m⁻²; Rate = -6.85 % yr⁻¹; Perc Final = 47 % > decrease

DECADAL: YES (11 yr)



557_density

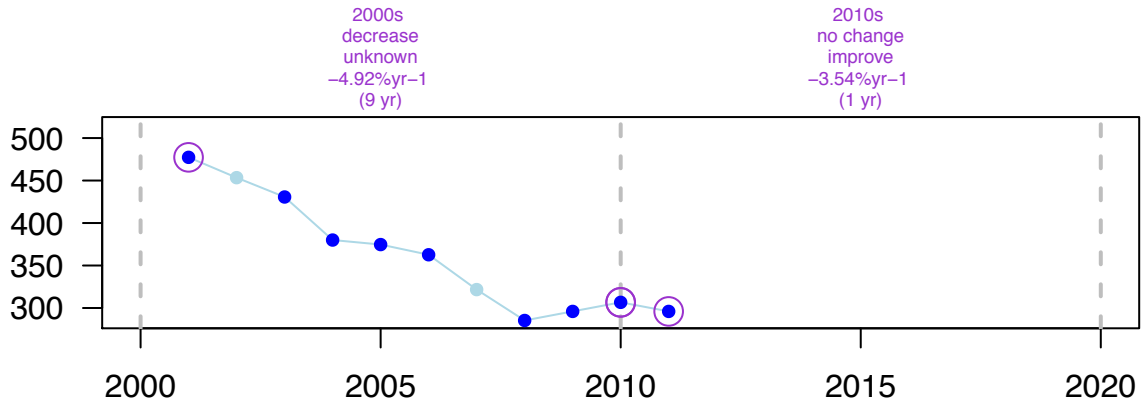
Marbà and Duarte 2010, Duarte and Marbà (unpublished)

SITE: Cala Santa María (Spain – Mediterranean) – Po (-17 m)

OVERALL: Net = -181.33 shoot m⁻²; Rate = -4.78 % yr⁻¹; Perc Final = 62 % > decrease

DECADAL: YES (10 yr)

Shoot density (shoot m⁻²)



558_density

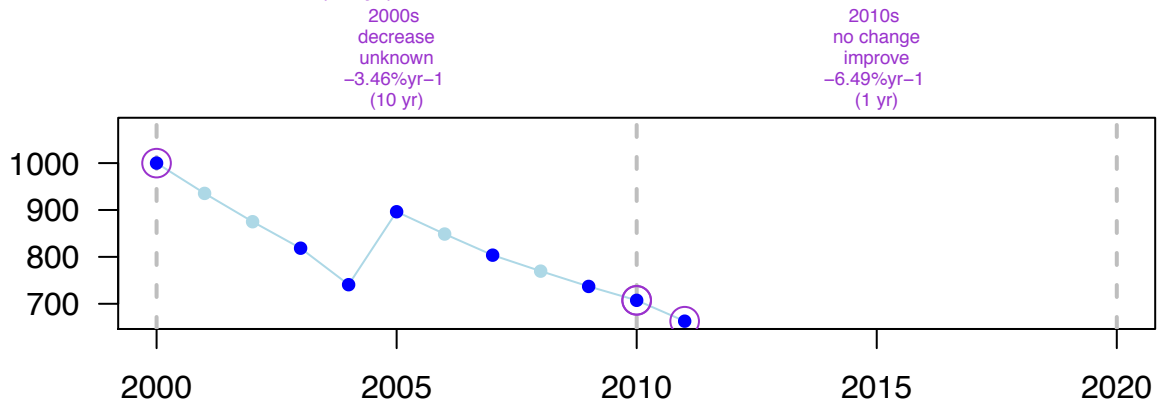
Marbà and Duarte 2010, Duarte and Marbà (unpublished)

SITE: Cala Santa María (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = -337.04 shoot m⁻²; Rate = -3.74 % yr⁻¹; Perc Final = 66 % > decrease

DECADAL: YES (11 yr)

Shoot density (shoot m⁻²)



559_density

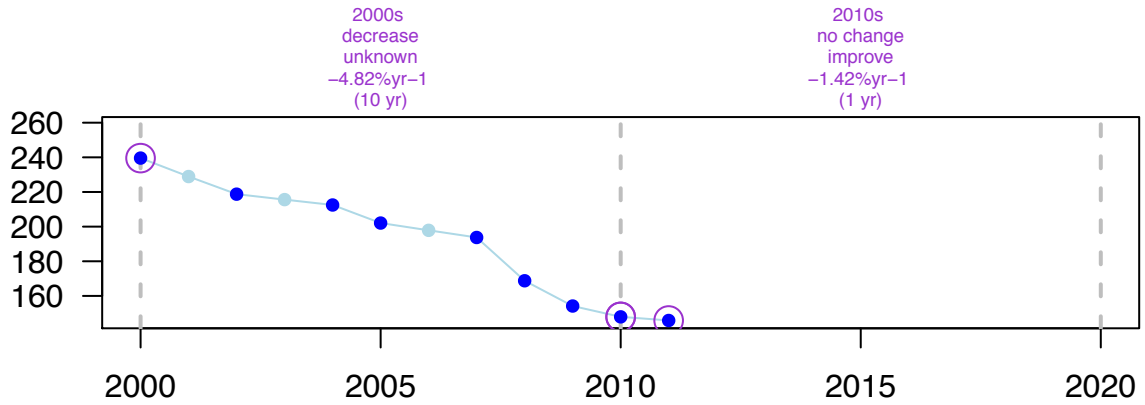
Marbà and Duarte 2010, Duarte and Marbà (unpublished)

SITE: El Castell (Spain – Mediterranean) – Po (–20 m)

OVERALL: Net = –93.75 shoot m⁻²; Rate = –4.51 % yr⁻¹; Perc Final = 61 % > decrease

DECADAL: YES (11 yr)

Shoot density (shoot m⁻²)



560_lowerlimit

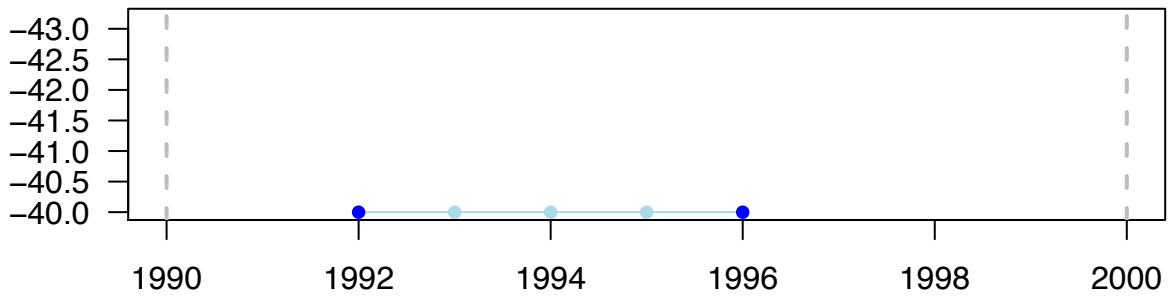
Aliani et al. 1998, Dando et al. 1995

SITE: Paleochori Bay (Greece – Mediterranean) – Po (? m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (4 yr)

Lower depth limit (m)



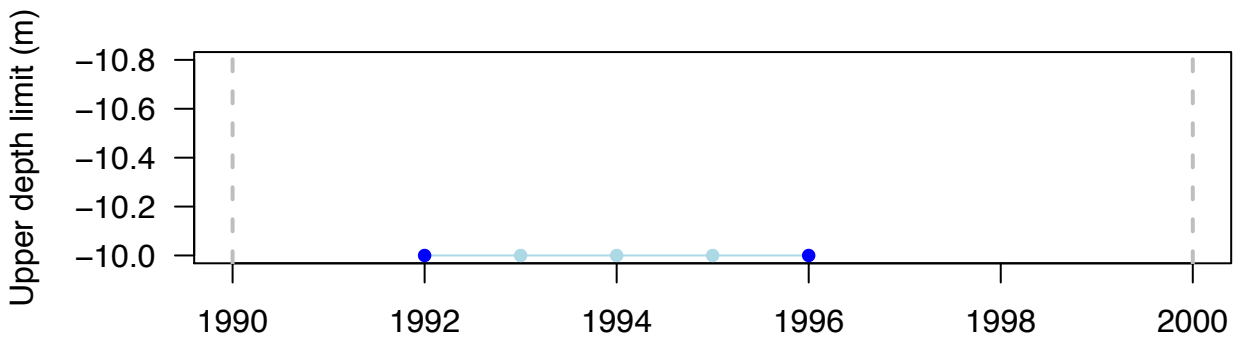
560_upperlimit

Aliani et al. 1998, Dando et al. 1995

SITE: Paleochori Bay (Greece – Mediterranean) – Po (? m)

OVERALL: Net = 0 m; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: NO (4 yr)



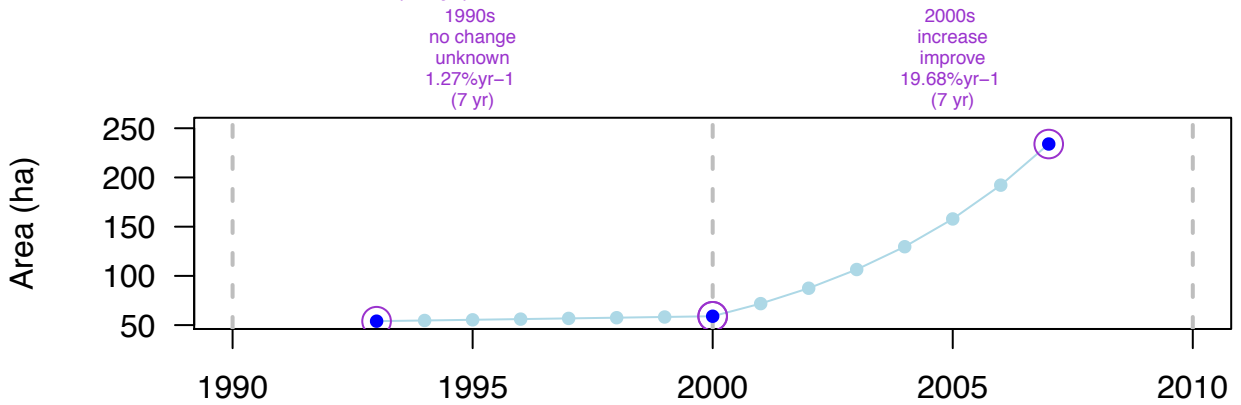
561_area

Auby et al. 2010

SITE: Baie de Morlaix (France – Atlantic) – Zm (? m)

OVERALL: Net = 180 ha; Rate = 10.47 % yr⁻¹; Perc Final = 433 % > increase

DECADAL: YES (14 yr)



563_abiomass

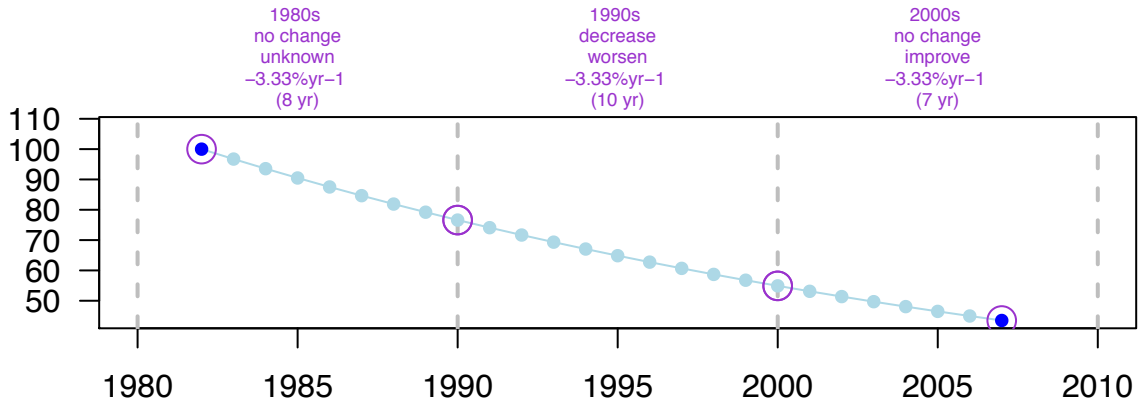
Auby et al. 2010

SITE: Golfe du Morbihan (France – Atlantic) – Zn (0 m)

OVERALL: Net = -56.5 g dw m⁻²; Rate = -3.33 % yr⁻¹; Perc Final = 44 % > decrease

DECADAL: YES (25 yr)

AG biomass (g dw m⁻²)



563_density

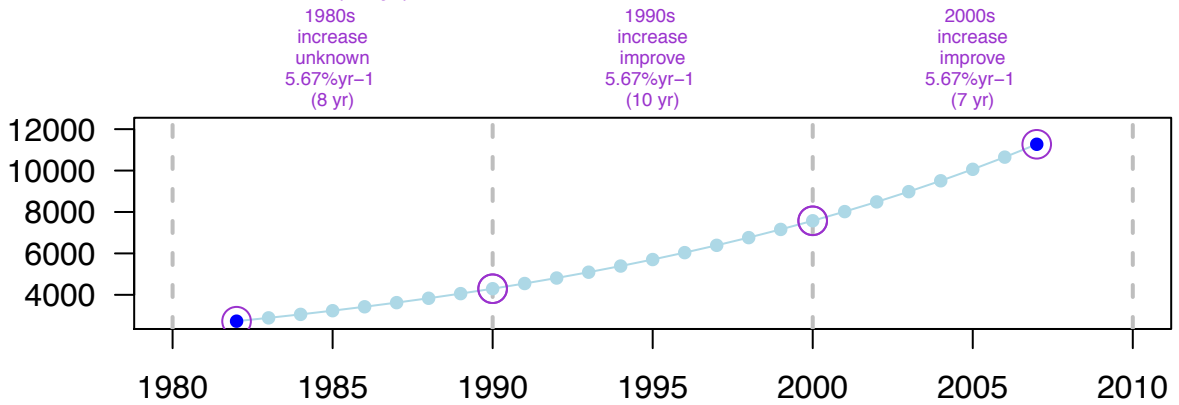
Auby et al. 2010

SITE: Golfe du Morbihan (France – Atlantic) – Zn (0 m)

OVERALL: Net = 8543 shoot m⁻²; Rate = 5.67 % yr⁻¹; Perc Final = 413 % > increase

DECADAL: YES (25 yr)

Shoot density (shoot m⁻²)



564_abiomass

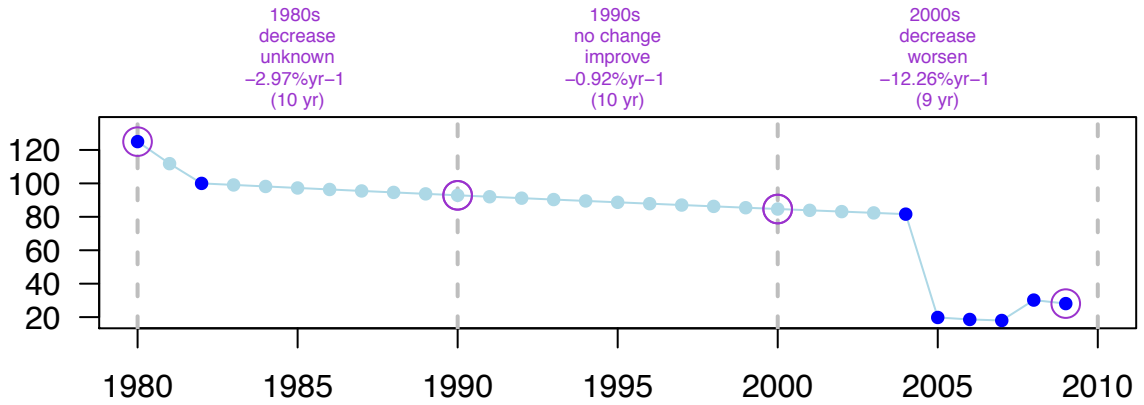
Auby et al. 2010

SITE: Golfe du Morbihan (France – Atlantic) – Zm (0 m)

OVERALL: Net = -96.9 g dw m⁻²; Rate = -5.15 % yr⁻¹; Perc Final = 22 % > decrease

DECADAL: YES (29 yr)

AG biomass (g dw m⁻²)



564_density

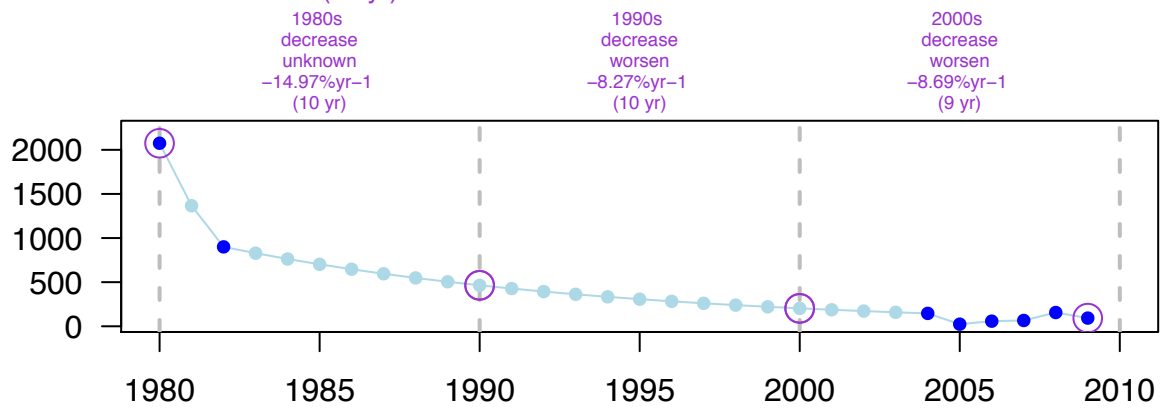
Auby et al. 2010

SITE: Golfe du Morbihan (France – Atlantic) – Zm (0 m)

OVERALL: Net = -1982 shoot m⁻²; Rate = -10.71 % yr⁻¹; Perc Final = 4 % > decrease

DECADAL: YES (29 yr)

Shoot density (shoot m⁻²)



567_area

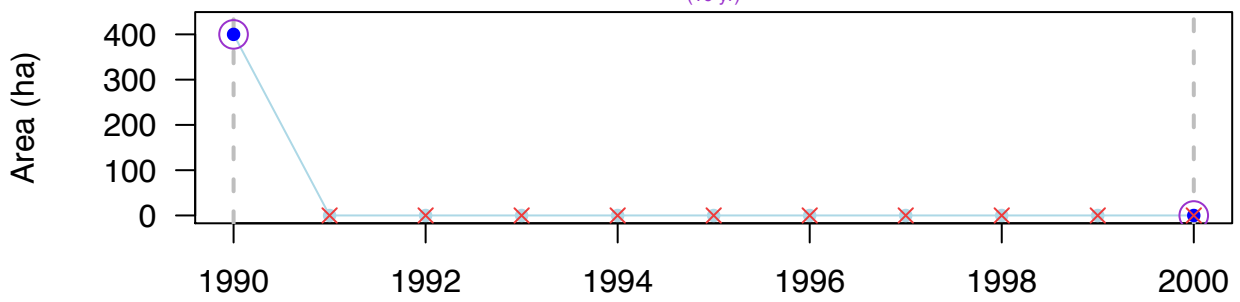
Arroyo et al. 2015

SITE: Bahía de Algeciras (Spain – Mediterranean) – Cn (? m)

OVERALL: Net = -400 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (10 yr)

1990s
decrease
unknown
-Inf%yr⁻¹
(10 yr)



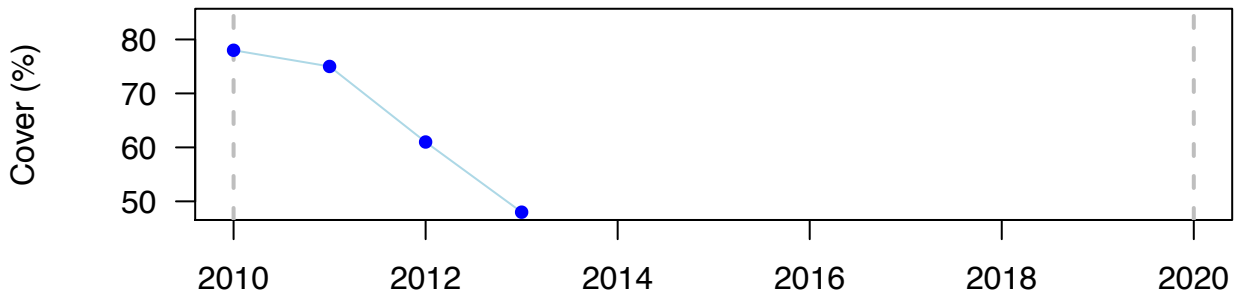
568_cover

Arroyo et al. 2015

SITE: Cala Chinchas (Spain – Mediterranean) – Po (? m)

OVERALL: Net = -30 %; Rate = -16.18 % yr⁻¹; Perc Final = 62 % > decrease

DECADAL: NO (3 yr)



568_density

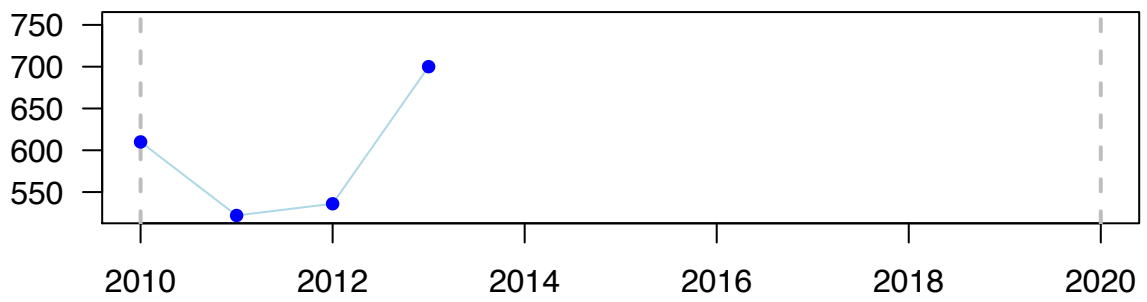
Arroyo et al. 2015

SITE: Cala Chinchas (Spain – Mediterranean) – Po (? m)

OVERALL: Net = 90 shoot m⁻²; Rate = 4.59 % yr⁻¹; Perc Final = 115 % > no change

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



569_density

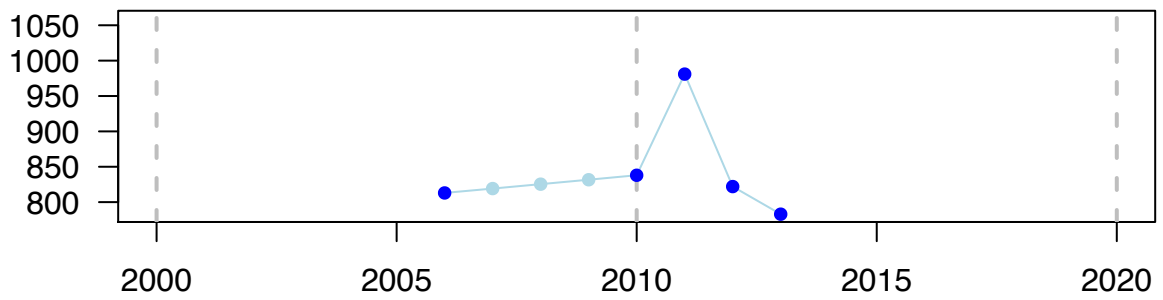
Arroyo et al. 2015

SITE: Calaburras (Peñón del Fraile) (Spain – Mediterranean) – Po (? m)

OVERALL: Net = -30 shoot m⁻²; Rate = -0.54 % yr⁻¹; Perc Final = 96 % > no change

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



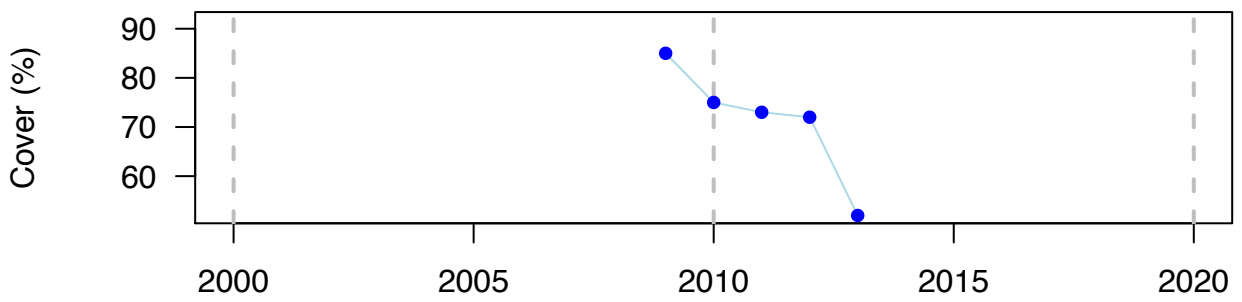
570_cover

Arroyo et al. 2015

SITE: Cambriles (Spain – Mediterranean) – Po (? m)

OVERALL: Net = -33 %; Rate = -12.29 % yr⁻¹; Perc Final = 61 % > decrease

DECADAL: NO (4 yr)



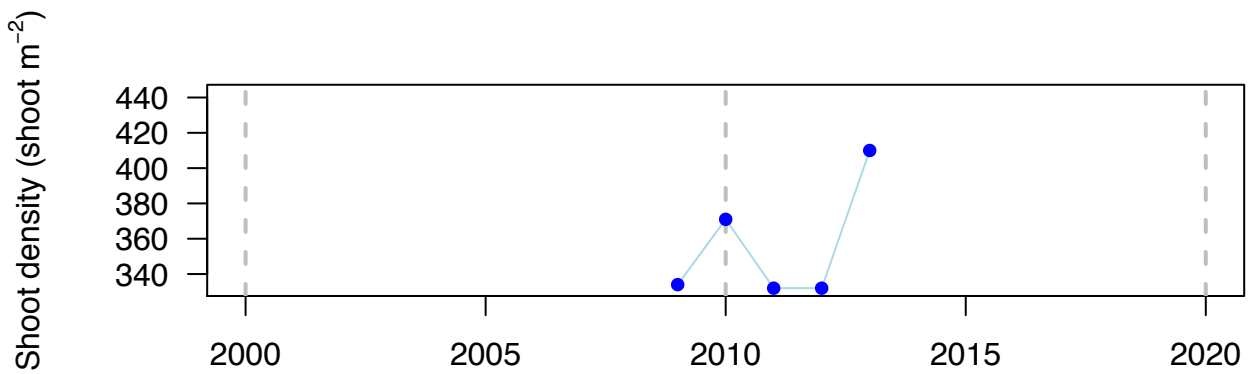
570_density

Arroyo et al. 2015

SITE: Cambriles (Spain – Mediterranean) – Po (? m)

OVERALL: Net = 76 shoot m⁻²; Rate = 5.13 % yr⁻¹; Perc Final = 123 % > no change

DECADAL: NO (4 yr)



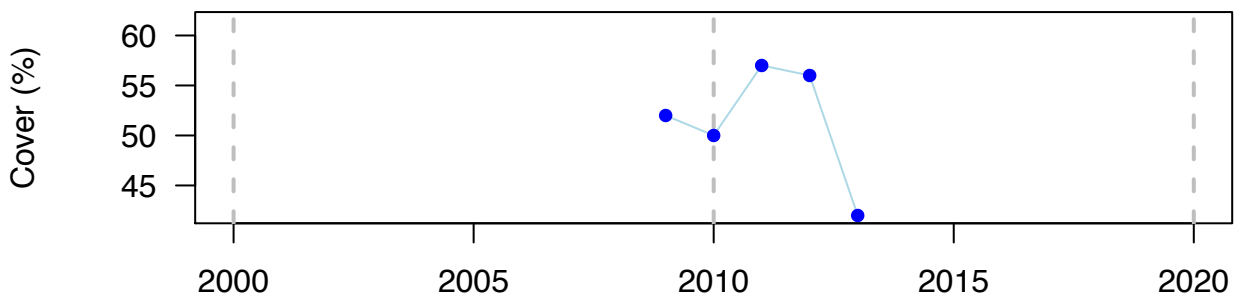
571_cover

Arroyo et al. 2015

SITE: El Lance (Spain – Mediterranean) – Po (? m)

OVERALL: Net = -10 %; Rate = -5.34 % yr⁻¹; Perc Final = 81 % > no change

DECADAL: NO (4 yr)



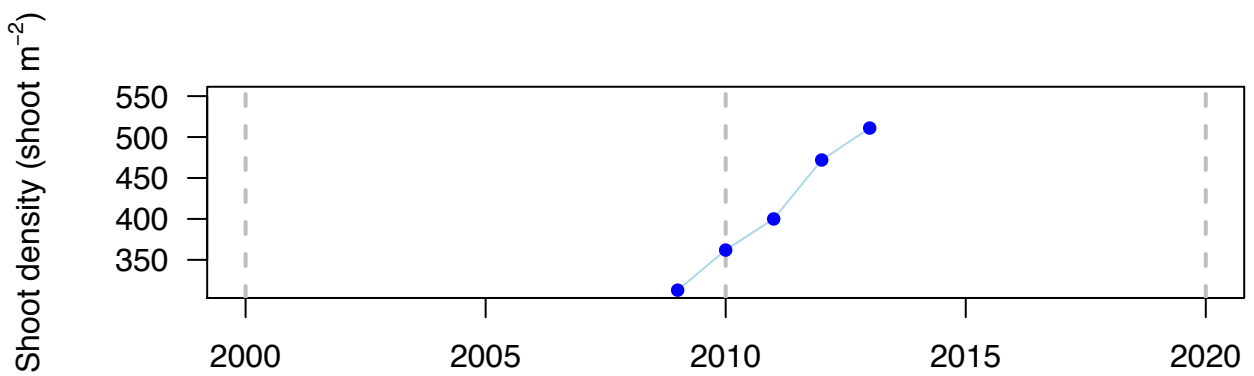
571_density

Arroyo et al. 2015

SITE: El Lance (Spain – Mediterranean) – Po (? m)

OVERALL: Net = 198 shoot m⁻²; Rate = 12.25 % yr⁻¹; Perc Final = 163 % > increase

DECADAL: NO (4 yr)



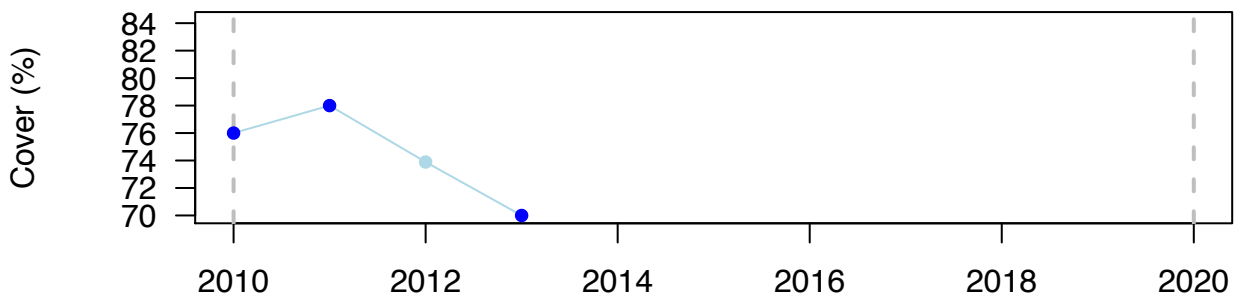
572_cover

Arroyo et al. 2015

SITE: Melicena (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = -6 %; Rate = -2.74 % yr⁻¹; Perc Final = 92 % > no change

DECADAL: NO (3 yr)



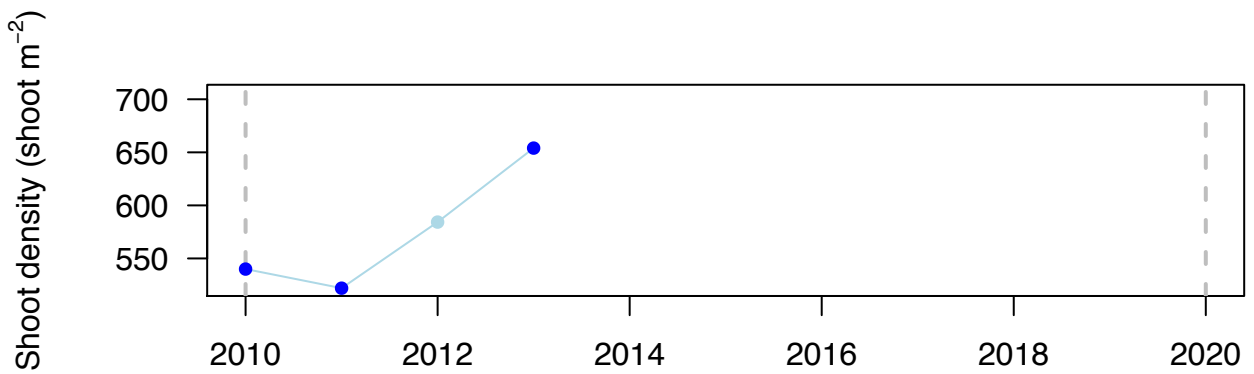
572_density

Arroyo et al. 2015

SITE: Melicena (Spain – Mediterranean) – Po (-7 m)

OVERALL: Net = 114 shoot m⁻²; Rate = 6.38 % yr⁻¹; Perc Final = 121 % > no change

DECADAL: NO (3 yr)



573_density

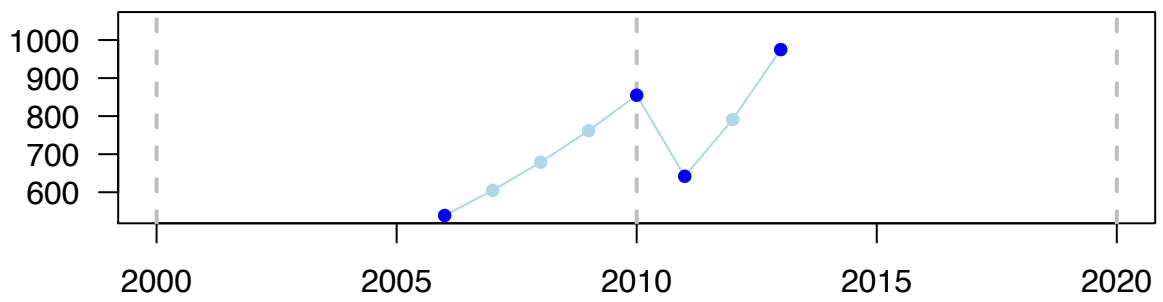
Arroyo et al. 2015

SITE: Nerja (Spain – Mediterranean) – Po (? m)

OVERALL: Net = 436 shoot m⁻²; Rate = 8.47 % yr⁻¹; Perc Final = 181 % > increase

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



574_density

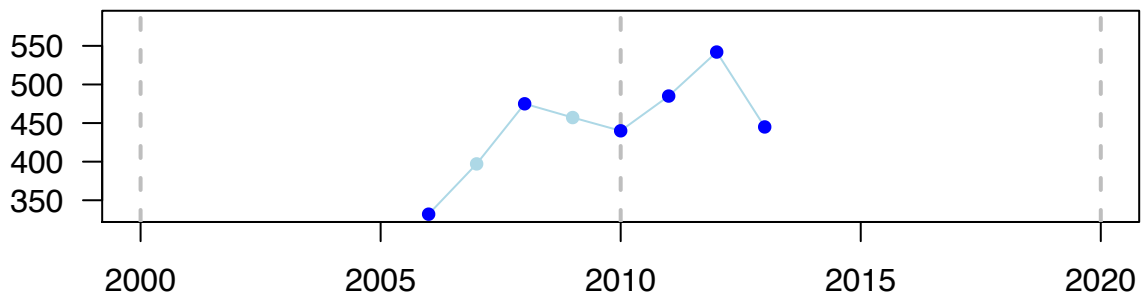
Arroyo et al. 2015

SITE: Molino de Papel (Spain – Mediterranean) – Po (? m)

OVERALL: Net = 113 shoot m⁻²; Rate = 4.18 % yr⁻¹; Perc Final = 134 % > increase

DECADAL: NO (7 yr)

Shoot density (shoot m⁻²)



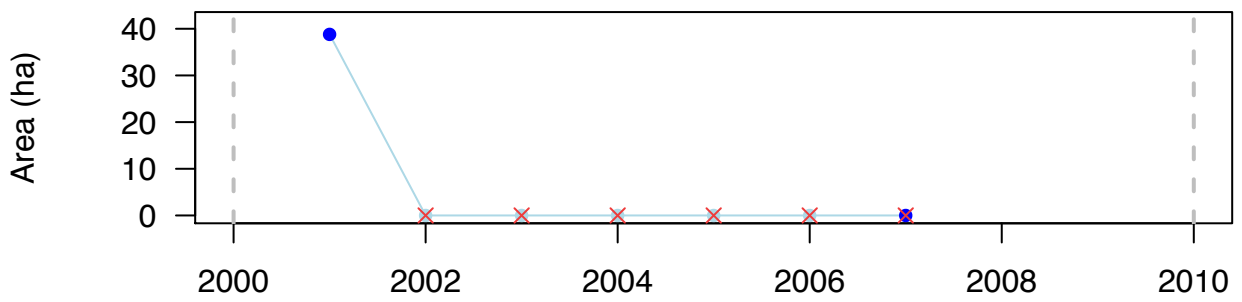
578_area

Rueda et al. 2009

SITE: Playa del Cañuelo (Spain – Mediterranean) – Zm (? m)

OVERALL: Net = -38.8 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (6 yr)



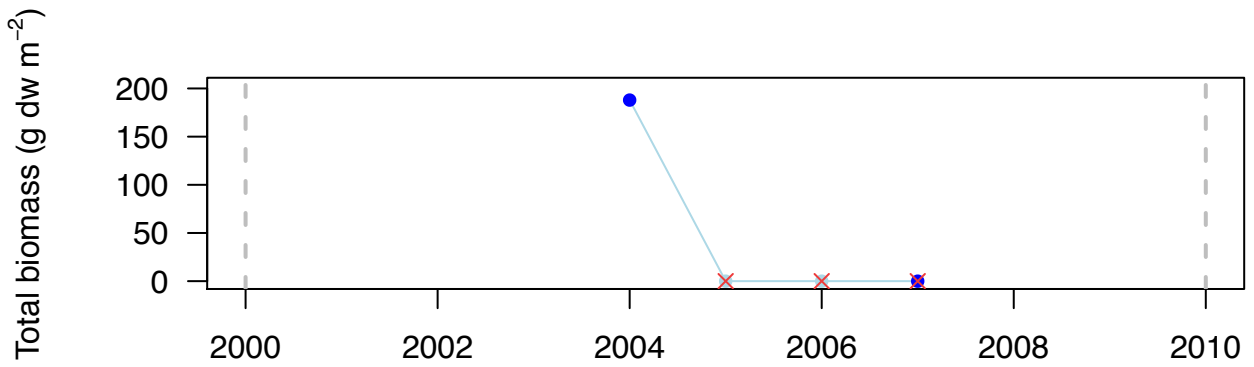
578_biomass

Rueda et al. 2009

SITE: Playa del Cañuelo (Spain – Mediterranean) – Zm (? m)

OVERALL: Net = -187.97 g dw m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (3 yr)



578_density

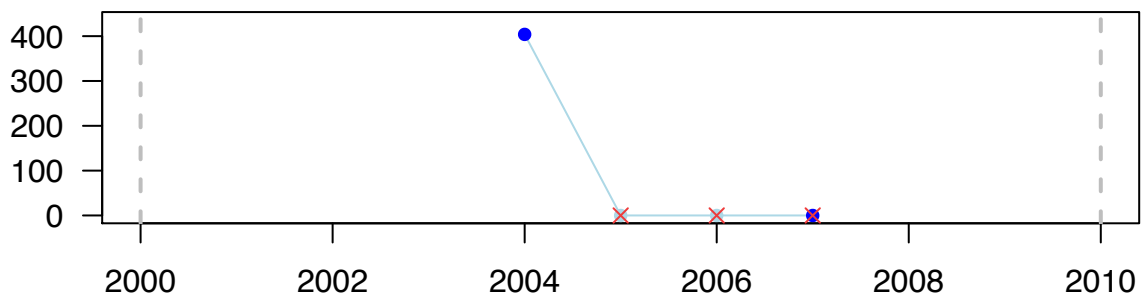
Rueda et al. 2009

SITE: Playa del Cañuelo (Spain – Mediterranean) – Zm (? m)

OVERALL: Net = -404 shoot m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



586_upperlimit

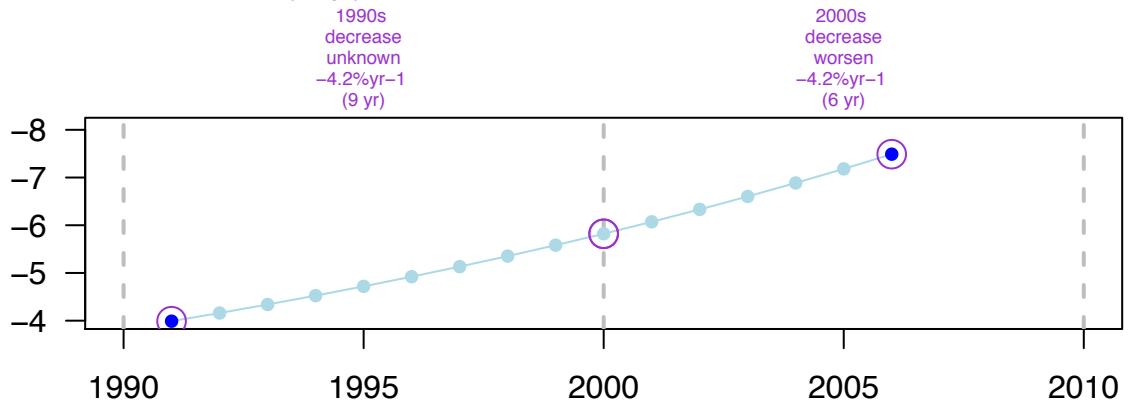
Aragonés et al. 2015

SITE: Poniente Beach Benidorm (Spain – Mediterranean) – Po (? m)

OVERALL: Net = -3.5 m; Rate = -4.2 % yr⁻¹; Perc Final = 53 % > decrease

DECADAL: YES (15 yr)

Upper depth limit (m)



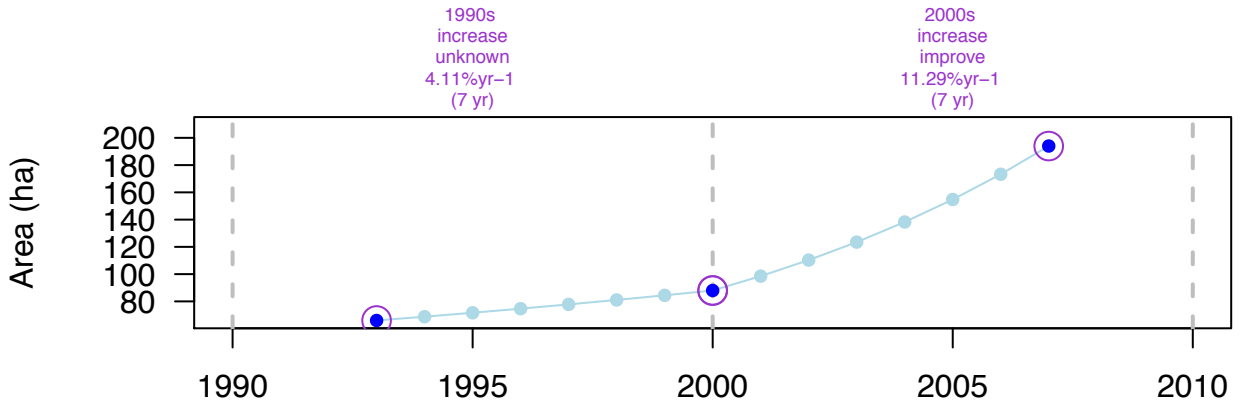
596_area

Auby et al. 2010

SITE: Les Abers Large (France – Atlantic) – Zm (? m)

OVERALL: Net = 128 ha; Rate = 7.7 % yr⁻¹; Perc Final = 294 % > increase

DECADAL: YES (14 yr)



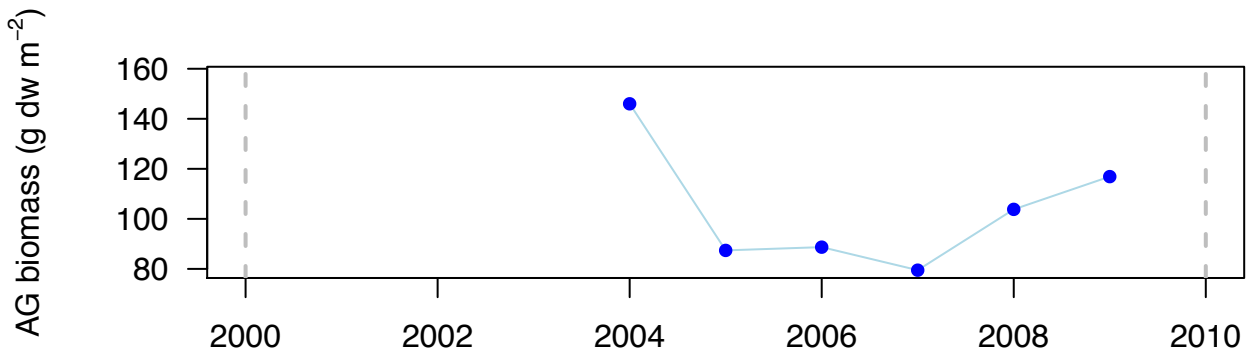
597_abiomass

Auby et al. 2010

SITE: Roscanavel (France – Atlantic) – Zm (? m)

OVERALL: Net = -29.1 g dw m⁻²; Rate = -4.45 % yr⁻¹; Perc Final = 80 % > no change

DECADAL: NO (5 yr)



597_density

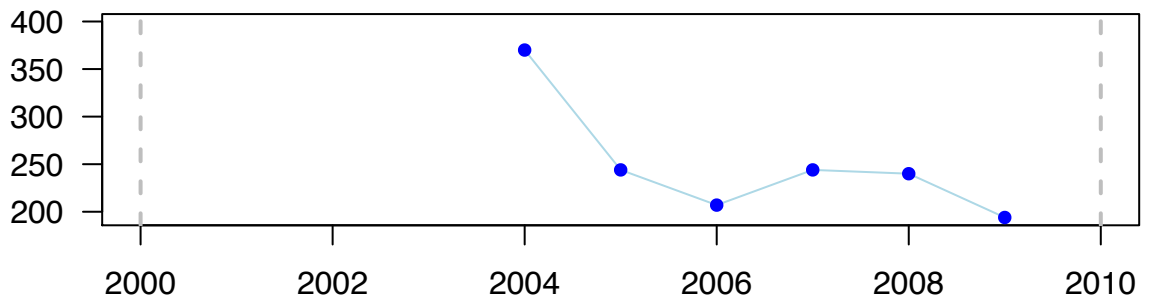
Auby et al. 2010

SITE: Roscanavel (France – Atlantic) – Zm (? m)

OVERALL: Net = -176 shoot m⁻²; Rate = -12.91 % yr⁻¹; Perc Final = 52 % > decrease

DECADAL: NO (5 yr)

Shoot density (shoot m⁻²)



598_abiomass

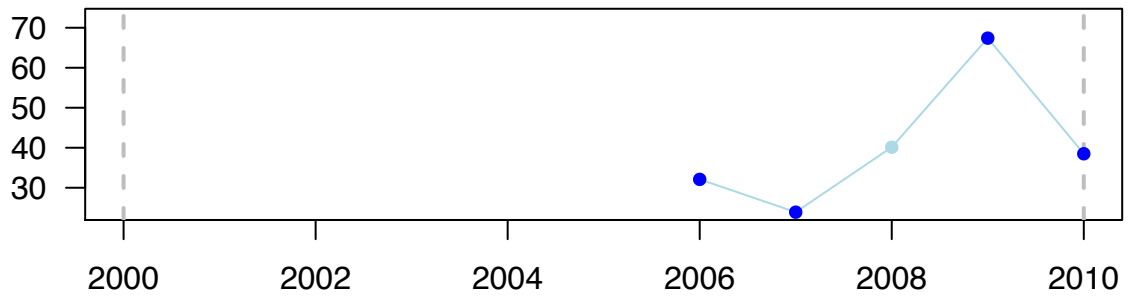
Auby et al. 2010

SITE: Plage de la Charge Neuve (France – Atlantic) – Zn (? m)

OVERALL: Net = 6.4 g dw m⁻²; Rate = 4.55 % yr⁻¹; Perc Final = 120 % > no change

DECADAL: NO (4 yr)

AG biomass (g dw m⁻²)



598_density

Auby et al. 2010

SITE: Plage de la Charge Neuve (France – Atlantic) – Zn (? m)

OVERALL: Net = -4506 shoot m⁻²; Rate = -13.25 % yr⁻¹; Perc Final = 59 % > decrease

DECADAL: NO (4 yr)



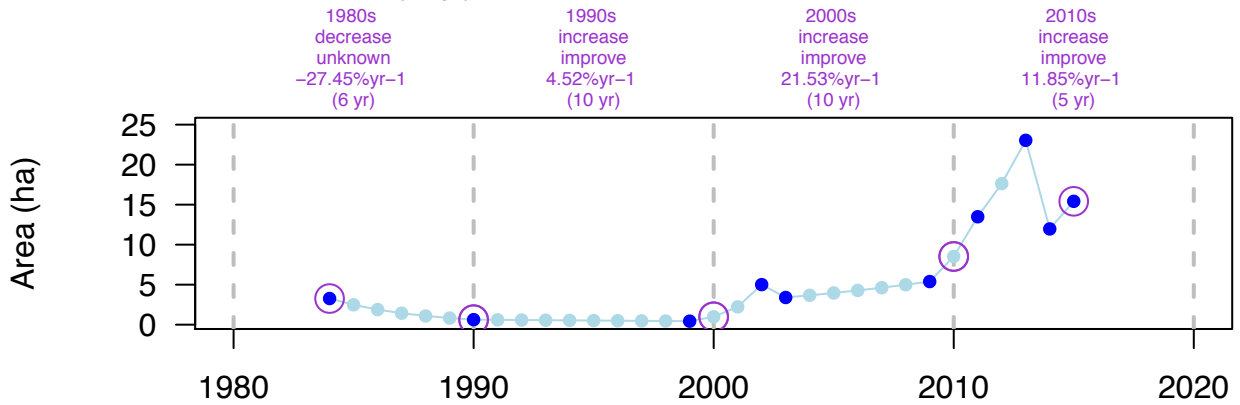
620_area

Calleja et al. 2017

SITE: Santander Bay (Spain – Atlantic) – Zn (0.9 m)

OVERALL: Net = 12.15 ha; Rate = 5 % yr⁻¹; Perc Final = 472 % > increase

DECADAL: YES (31 yr)



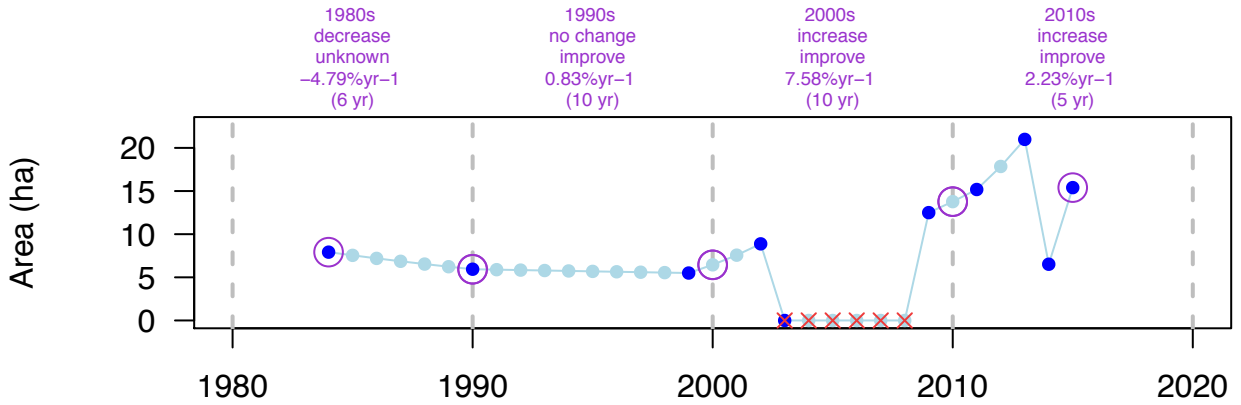
621_area

Calleja et al. 2017

SITE: Santander Bay (Spain – Atlantic) – Zn (0.3 m)

OVERALL: Net = 7.48 ha; Rate = 2.15 % yr⁻¹; Perc Final = 194 % > increase

DECADAL: YES (31 yr)



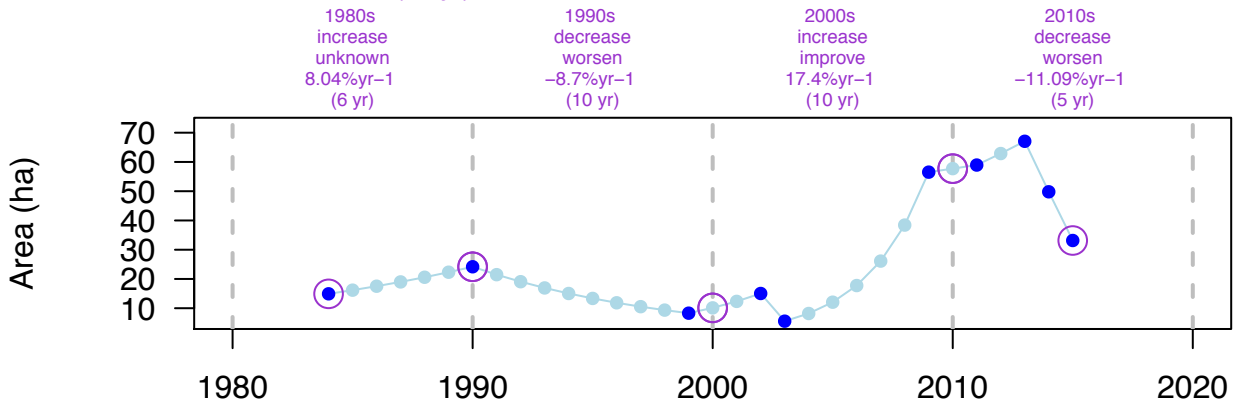
622_area

Calleja et al. 2017

SITE: Santander Bay (Spain – Atlantic) – Zn (0.4 m)

OVERALL: Net = 18.23 ha; Rate = 2.57 % yr⁻¹; Perc Final = 222 % > increase

DECADAL: YES (31 yr)



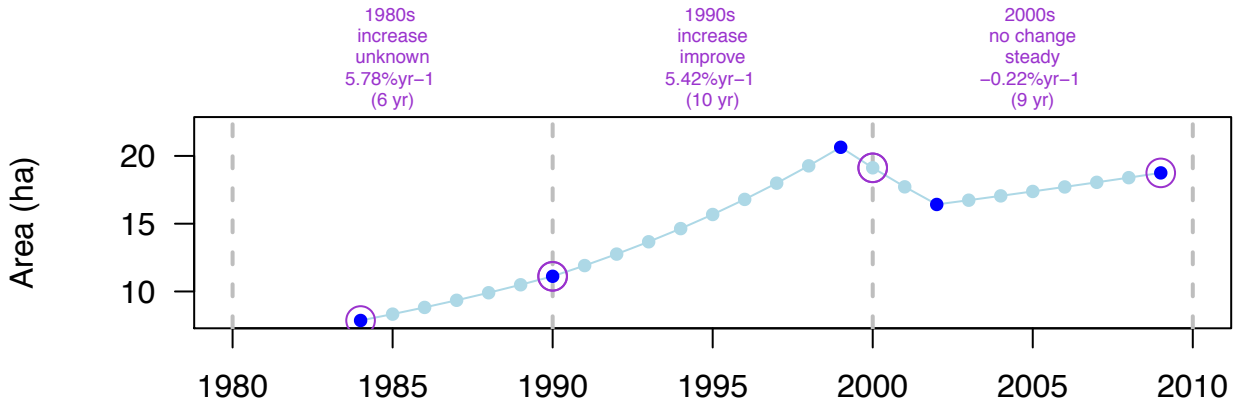
623_area

Calleja et al. 2017

SITE: Santander Bay (Spain – Atlantic) – Zn (-0.7 m)

OVERALL: Net = 10.89 ha; Rate = 3.48 % yr⁻¹; Perc Final = 239 % > increase

DECADAL: YES (25 yr)



624_density

Bernard et al. 2005

SITE: Berre Lagoon (La Mède oil terminal) (France – Mediterranean) – Zn (-2 m)

OVERALL: Net = 66.5 shoot m⁻²; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: NO (2 yr)



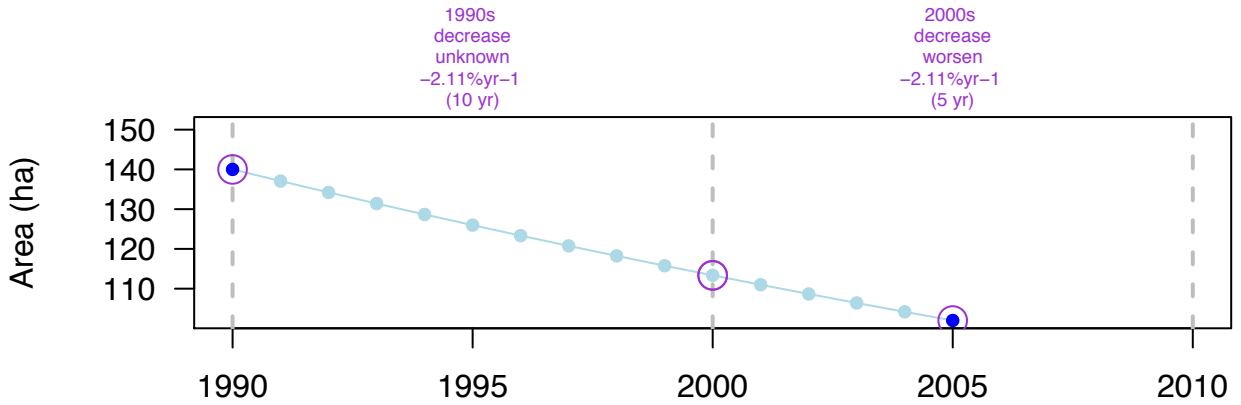
641_area

de Paz et al. 2008

SITE: Linera inlet (Spain – Atlantic) – Zn (? m)

OVERALL: Net = -38 ha; Rate = -2.11 % yr⁻¹; Perc Final = 73 % > decrease

DECADAL: YES (15 yr)



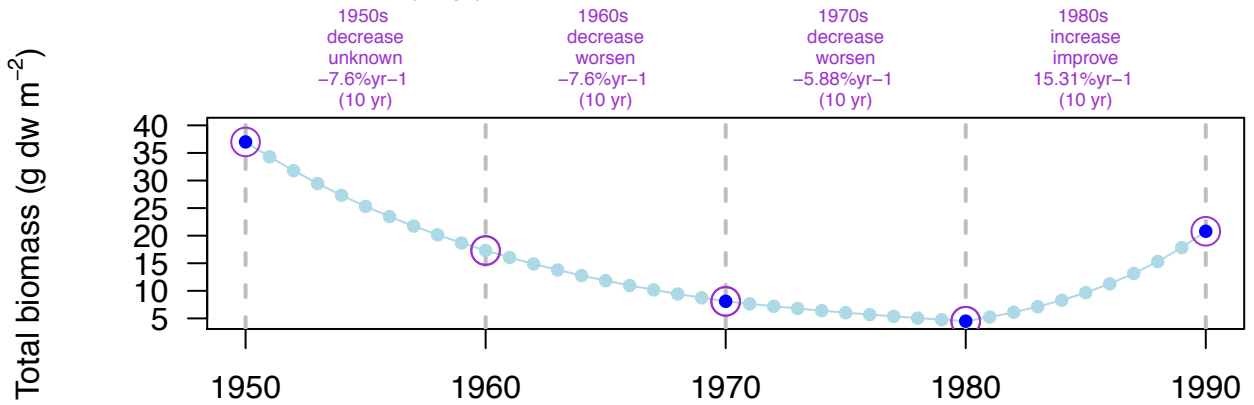
658_biomass

Kruk-Dowgiallo 1991, Gic-Grusza et al. 2009, Kruk-Dowgiallo and Szaniawska 2008

SITE: Puck Bay (Poland – Baltic) – Zm (-3.1 m)

OVERALL: Net = -16.2 g dw m⁻²; Rate = -1.44 % yr⁻¹; Perc Final = 56 % > decrease

DECADAL: YES (40 yr)



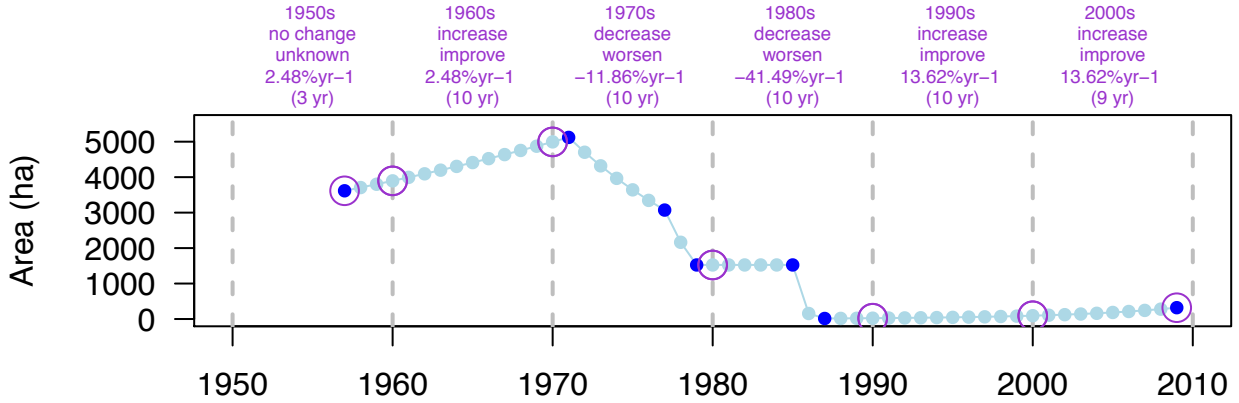
658_area

Kruk-Dowgiallo 1991, Gic-Grusza et al. 2009, Kruk-Dowgiallo and Szaniawska 2008

SITE: Puck Bay (Poland – Baltic) – Zm (-3.1 m)

OVERALL: Net = -3296.08 ha; Rate = -4.66 % yr⁻¹; Perc Final = 9 % > decrease

DECADAL: YES (52 yr)



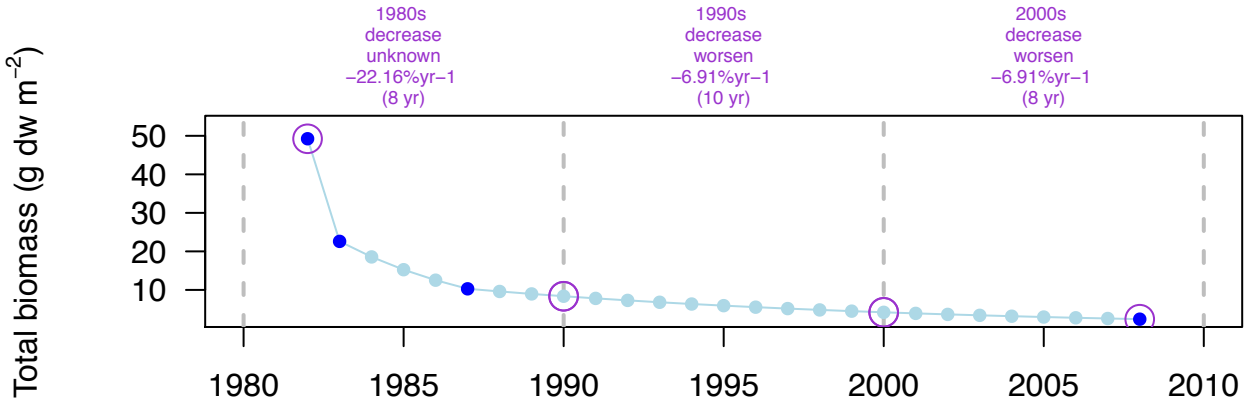
670_biomass

Pérez-Ruzafa et al. 2012

SITE: Mar Menor (Spain – Mediterranean) – Cn (? m)

OVERALL: Net = -46.83 g dw m⁻²; Rate = -11.6 % yr⁻¹; Perc Final = 5 % > decrease

DECADAL: YES (26 yr)



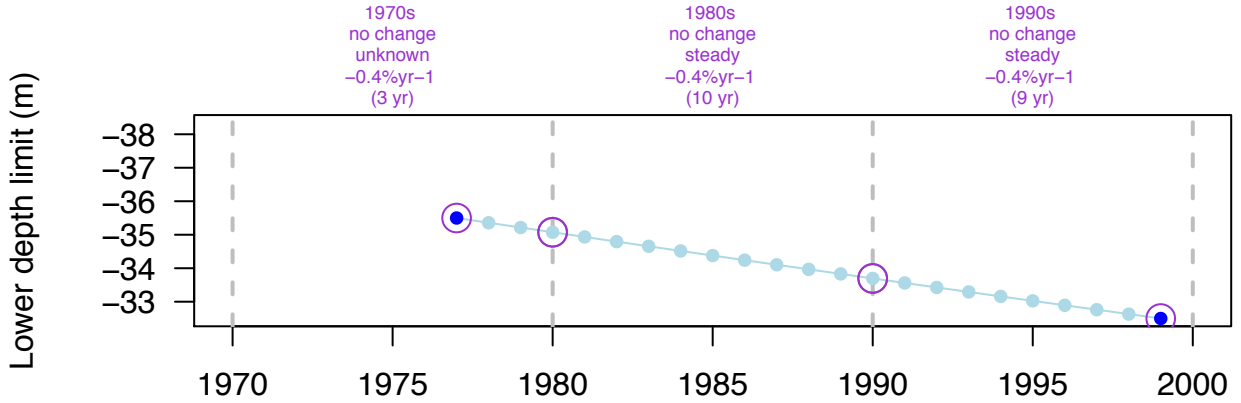
684_lowerlimit

Meinesz et al. 2002

SITE: Elbu Bay (France – Mediterranean) – Po (–35.5 m)

OVERALL: Net = –3 m; Rate = –0.4 % yr⁻¹; Perc Final = 92 % > no change

DECADAL: YES (22 yr)



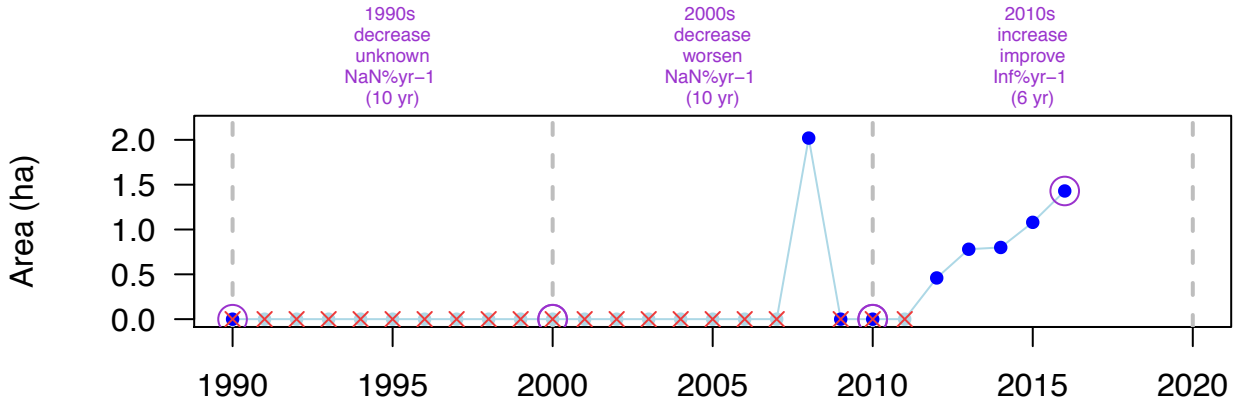
691_area

Arroyo et al. 2015, Consejería de Medio Ambiente 2016

SITE: Palmones (Spain – Mediterranean) – Zn (? m)

OVERALL: Net = 1.43 ha; Rate = NA % yr⁻¹; Perc Final = NA % > increase

DECADAL: YES (26 yr)



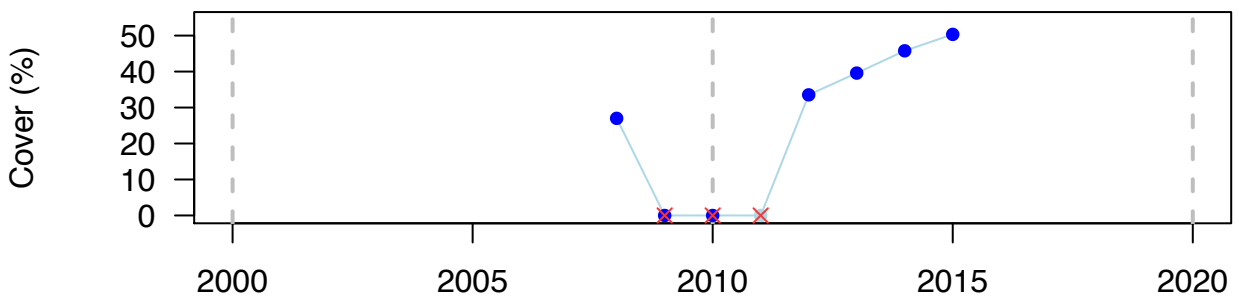
691_cover

Arroyo et al. 2015, Consejería de Medio Ambiente 2016

SITE: Palmones (Spain – Mediterranean) – Zn (? m)

OVERALL: Net = 23.34 %; Rate = 8.9 % yr⁻¹; Perc Final = 186 % > increase

DECADAL: NO (7 yr)



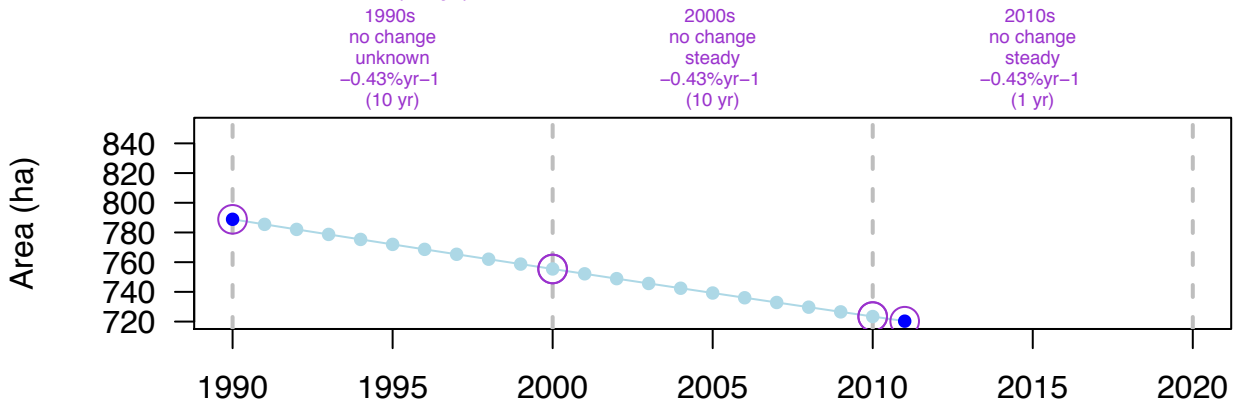
730_area

Mancusi et al. 2011

SITE: Piombino (Italy – Mediterranean) – Po (? m)

OVERALL: Net = -68.6 ha; Rate = -0.43 % yr⁻¹; Perc Final = 91 % > no change

DECADAL: YES (21 yr)



773_abiomass

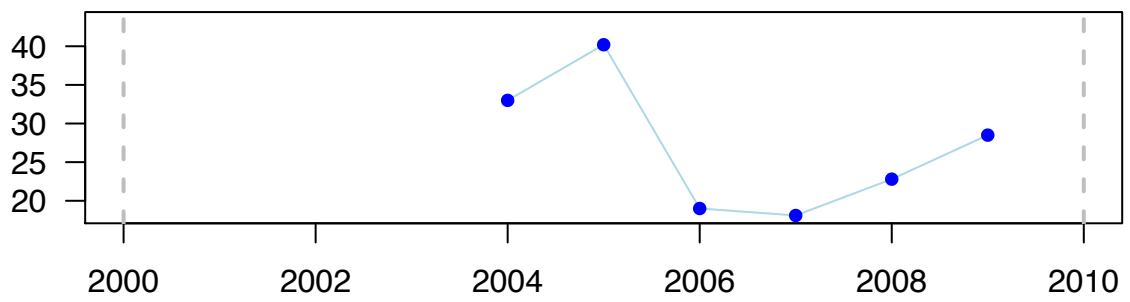
Auby et al. 2010

SITE: Saint Malo (Rance – Fresnaye) (France – Atlantic) – Zm (? m)

OVERALL: Net = -4.5 g dw m^{-2} ; Rate = -2.93 \% yr^{-1} ; Perc Final = 86 % > no change

DECADAL: NO (5 yr)

AG biomass (g dw m^{-2})



773_density

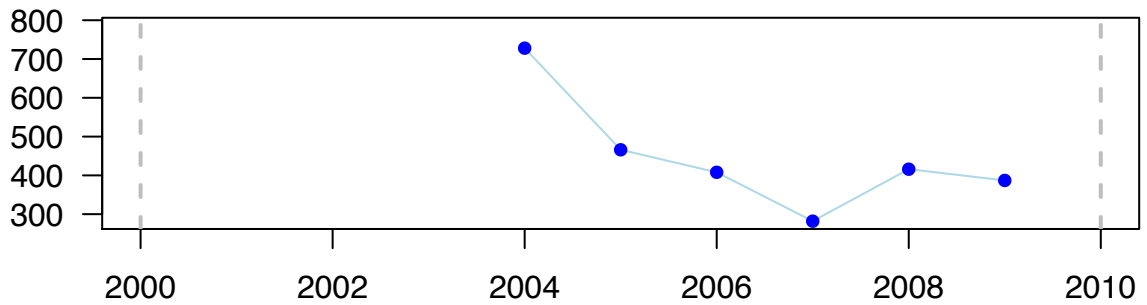
Auby et al. 2010

SITE: Saint Malo (Rance – Fresnaye) (France – Atlantic) – Zm (? m)

OVERALL: Net = $-341 \text{ shoot m}^{-2}$; Rate = $-12.64 \text{ \% yr}^{-1}$; Perc Final = 53 % > decrease

DECADAL: NO (5 yr)

Shoot density (shoot m^{-2})



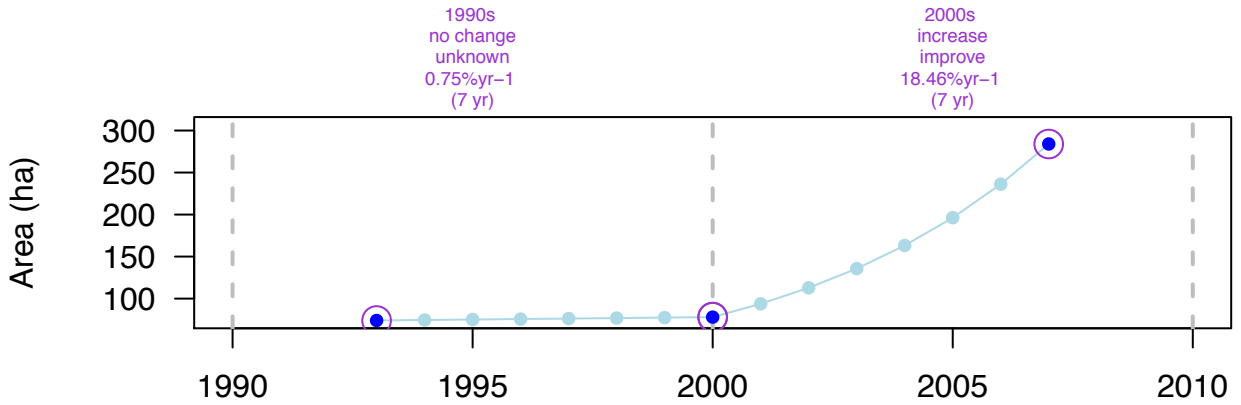
774_area

Auby et al. 2010

SITE: Rance – Fresnaye (France – Atlantic) – Zm (? m)

OVERALL: Net = 210 ha; Rate = 9.61 % yr⁻¹; Perc Final = 384 % > increase

DECADAL: YES (14 yr)



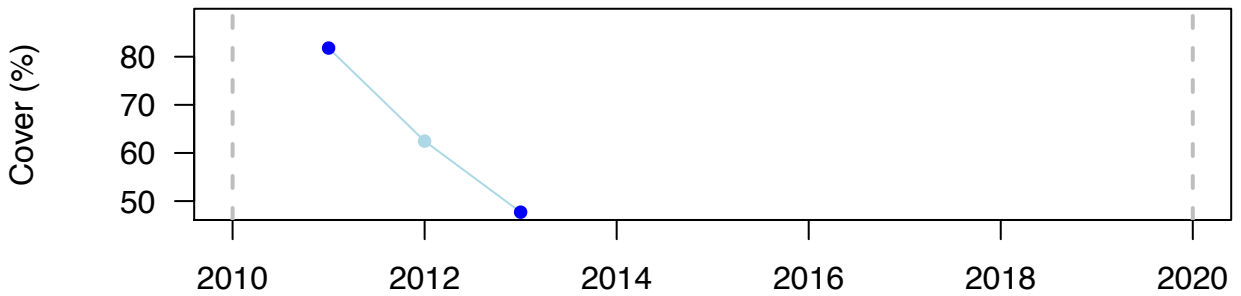
789_cover

Consejería de Medio Ambiente 2016

SITE: Río Piedras (Spain – Atlantic) – Zn (? m)

OVERALL: Net = -34.1 %; Rate = -26.97 % yr⁻¹; Perc Final = 58 % > decrease

DECADAL: NO (2 yr)



789_density

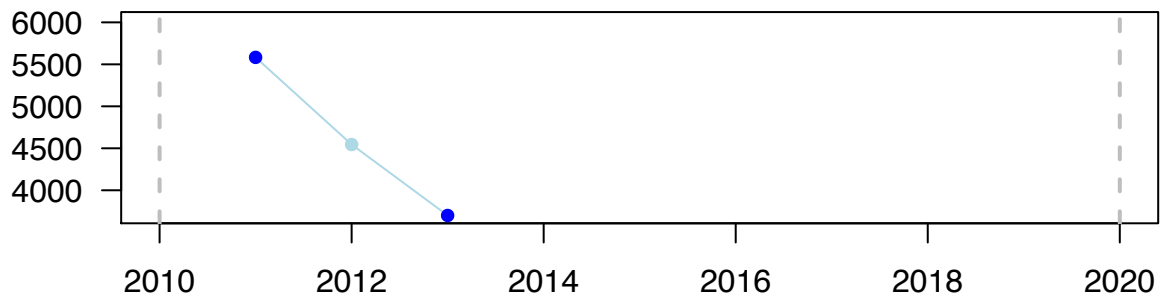
Consejería de Medio Ambiente 2016

SITE: Río Piedras (Spain – Atlantic) – Zn (? m)

OVERALL: Net = -1883 shoot m⁻²; Rate = -20.57 % yr⁻¹; Perc Final = 66 % > decrease

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



798_area

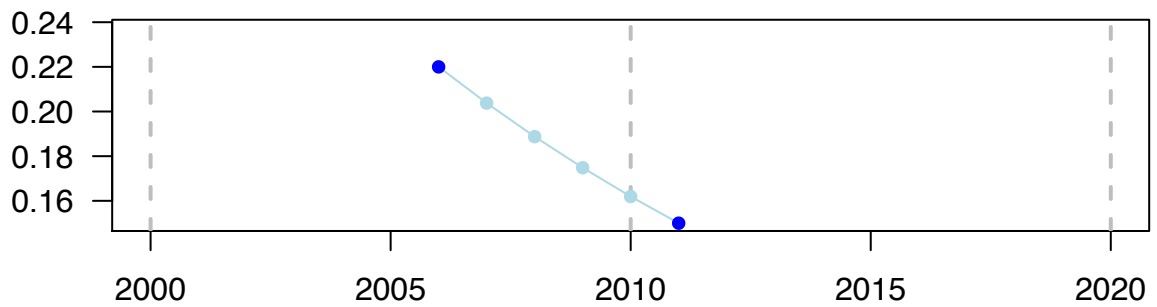
Cole 2016

SITE: Fishcombe Cove (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = -0.07 ha; Rate = -7.66 % yr⁻¹; Perc Final = 68 % > decrease

DECADAL: NO (5 yr)

Area (ha)



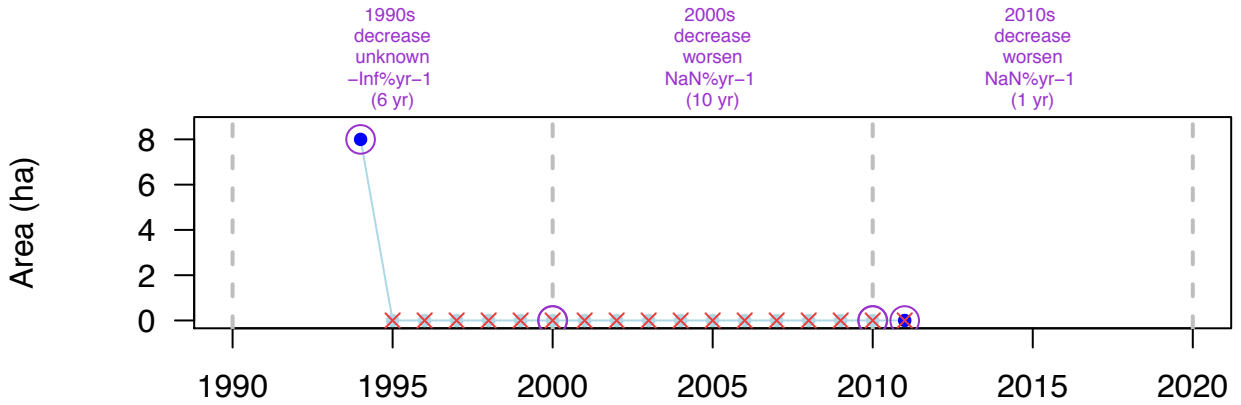
799_area

Wirtz 1995, Kaufmann and Maranhão 2017

SITE: Machico Bay (Portugal – Atlantic) – Cn (? m)

OVERALL: Net = -8 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (17 yr)



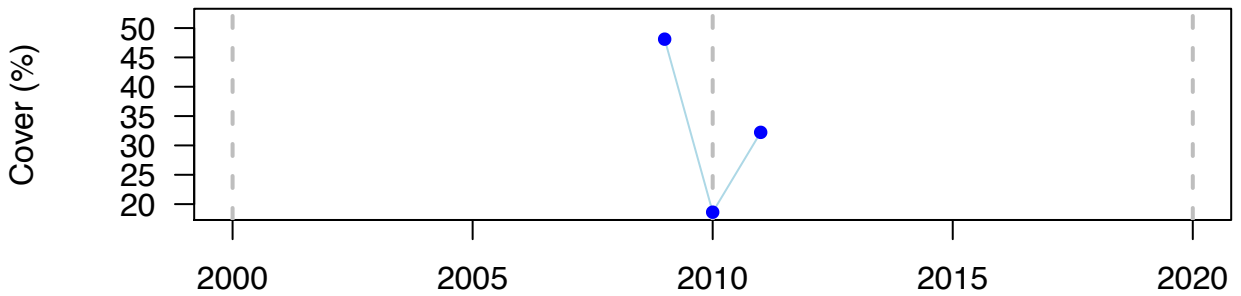
800_cover

Cook (unpublished)

SITE: Portsmouth Harbour (coastal) (United Kingdom – Atlantic) – Zm (? m)

OVERALL: Net = -15.88 %; Rate = -20.03 % yr⁻¹; Perc Final = 67 % > decrease

DECADAL: NO (2 yr)



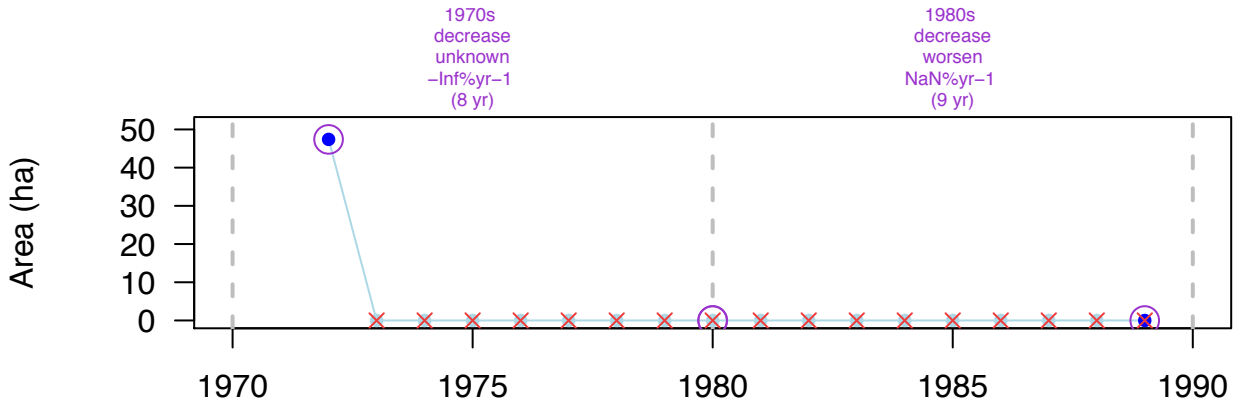
803_area

Polderman and Den Hartog 1975, de Jong (unpublished)

SITE: Balgzand (The Netherlands – Atlantic) – Zn (–0.6 m)

OVERALL: Net = –47.4 ha; Rate = NA % yr–1; Perc Final = NA % > decrease

DECADAL: YES (17 yr)



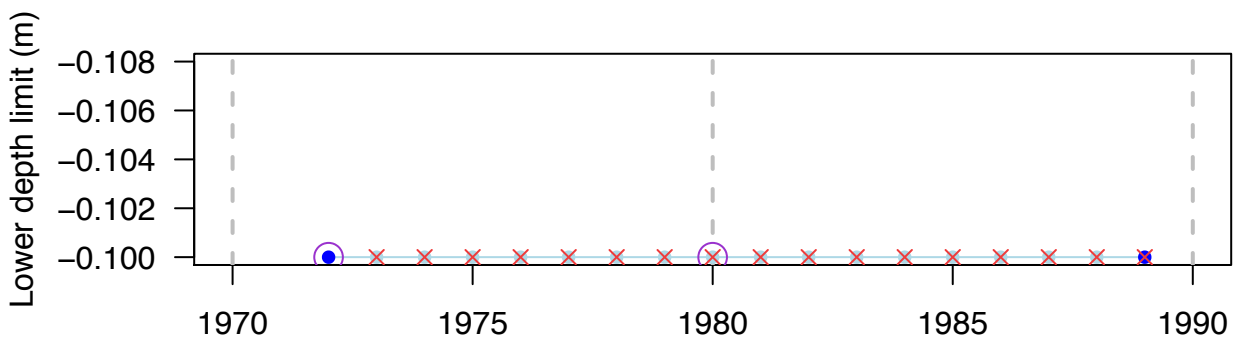
803_lowerlimit

Polderman and Den Hartog 1975, de Jong (unpublished)

SITE: Balgzand (The Netherlands – Atlantic) – Zn (–0.6 m)

OVERALL: Net = NA m; Rate = NA % yr–1; Perc Final = NA % > decrease

DECADAL: YES (17 yr)



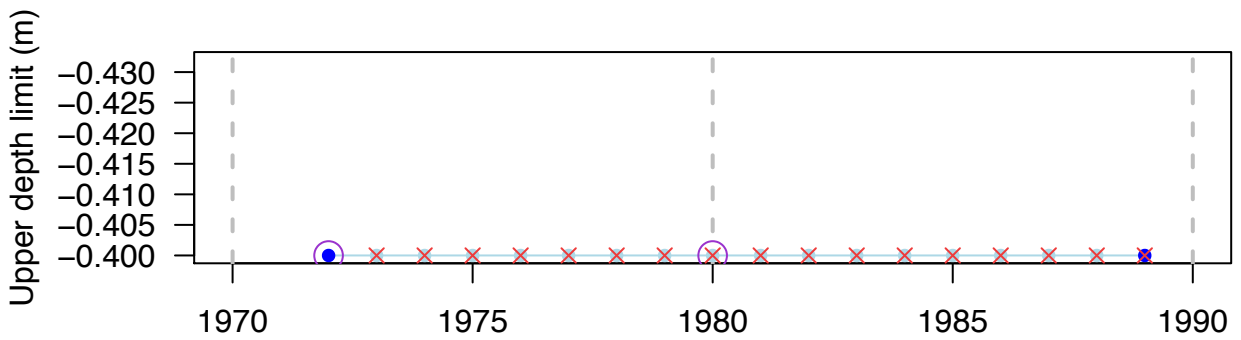
803_upperlimit

Polderman and Den Hartog 1975, de Jong (unpublished)

SITE: Balgzand (The Netherlands – Atlantic) – Zn (–0.6 m)

OVERALL: Net = NA m; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (17 yr)



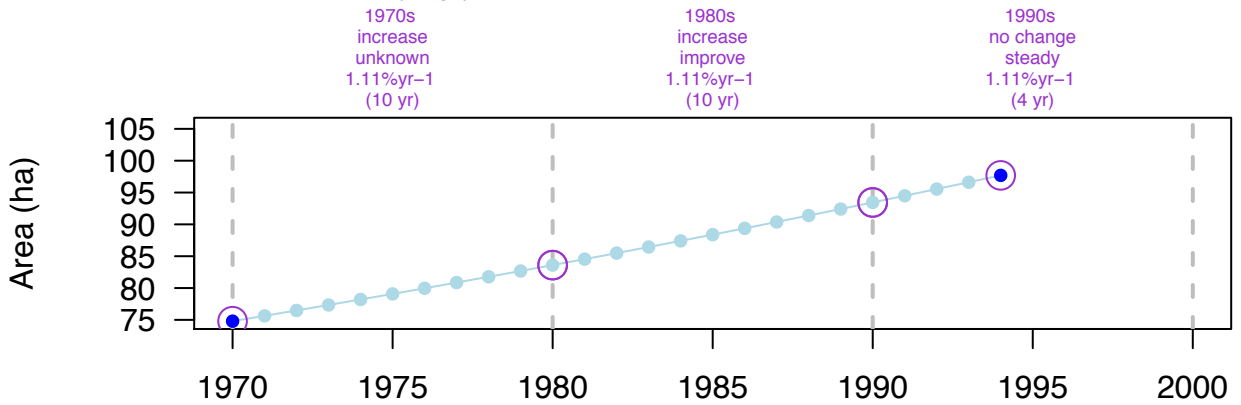
806_area

Kastler and Michaelis 1999

SITE: Borkum (Germany – Atlantic) – Zn (? m)

OVERALL: Net = 22.9 ha; Rate = 1.11 % yr⁻¹; Perc Final = 131 % > increase

DECADAL: YES (24 yr)



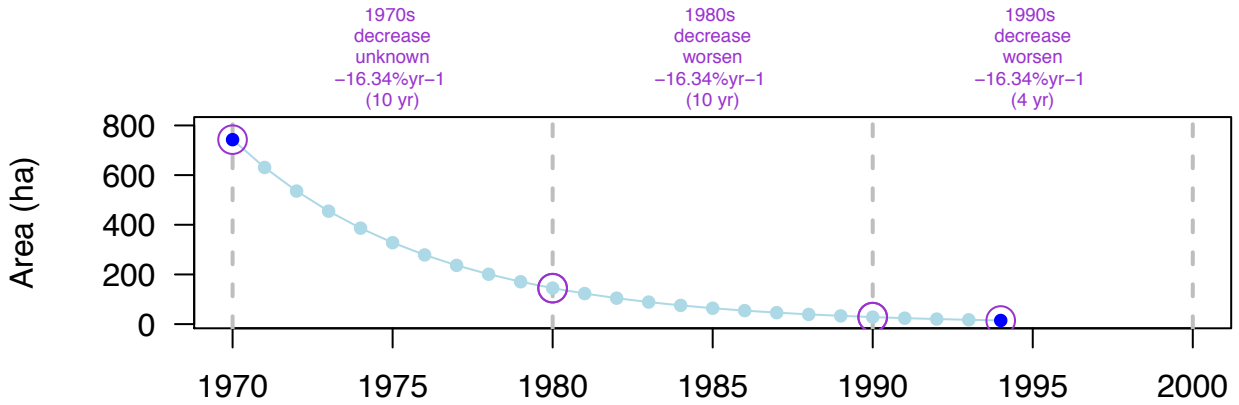
807_area

Kastler and Michaelis 1999

SITE: Juist (Germany – Atlantic) – Zn (? m)

OVERALL: Net = -728.1 ha; Rate = -16.34 % yr⁻¹; Perc Final = 2 % > decrease

DECADAL: YES (24 yr)



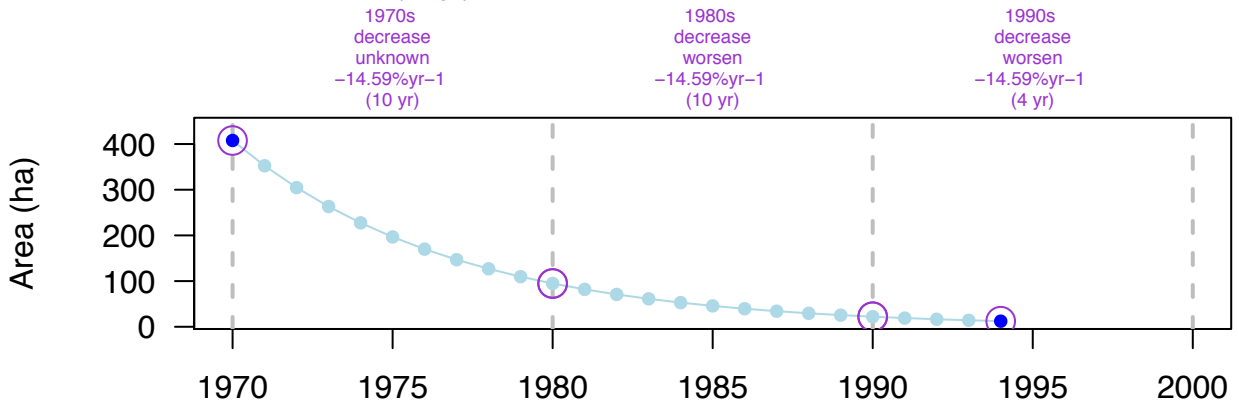
808_area

Kastler and Michaelis 1999

SITE: Norderney (Germany – Atlantic) – Zn (? m)

OVERALL: Net = -395.5 ha; Rate = -14.59 % yr⁻¹; Perc Final = 3 % > decrease

DECADAL: YES (24 yr)



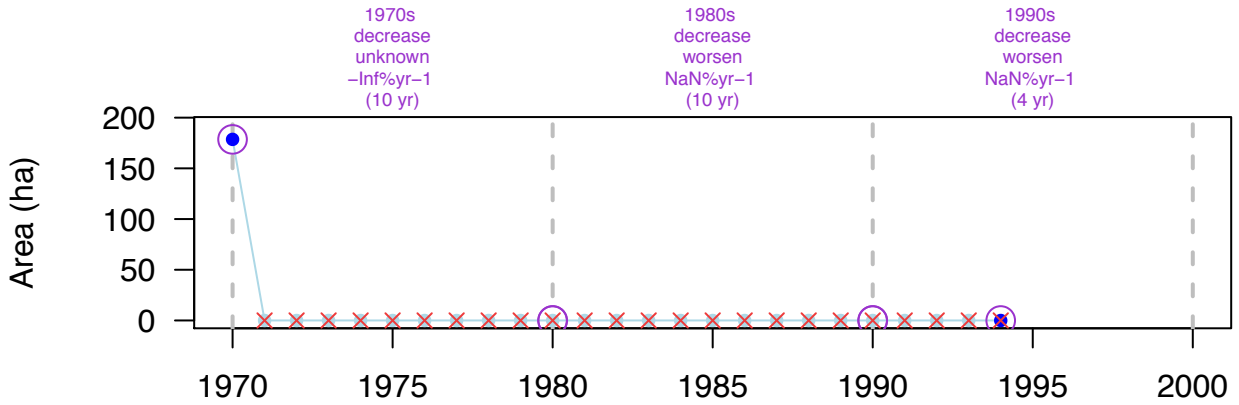
809_area

Kastler and Michaelis 1999

SITE: Baltrum (Germany – Atlantic) – Zn (? m)

OVERALL: Net = -178.6 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (24 yr)



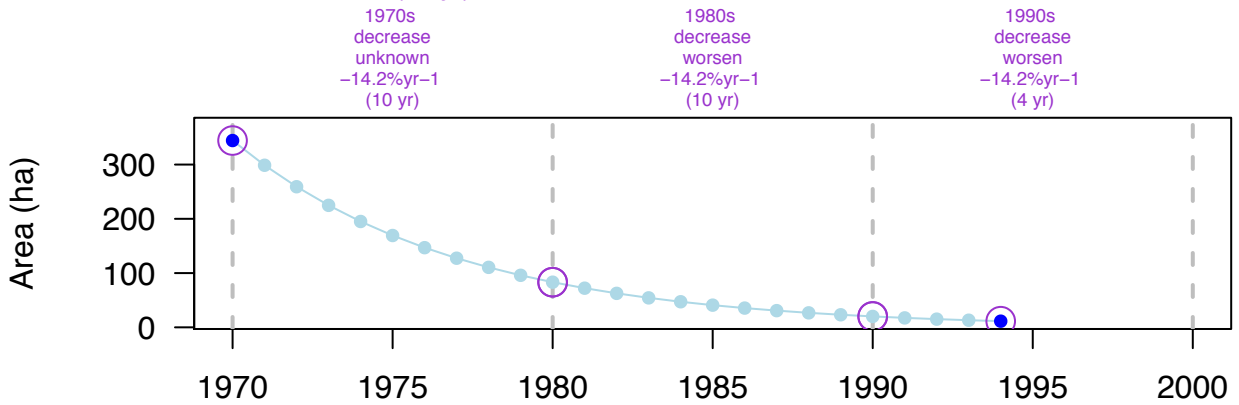
810_area

Kastler and Michaelis 1999

SITE: Langeoog (Germany – Atlantic) – Zn (? m)

OVERALL: Net = -332.9 ha; Rate = -14.2 % yr⁻¹; Perc Final = 3 % > decrease

DECADAL: YES (24 yr)



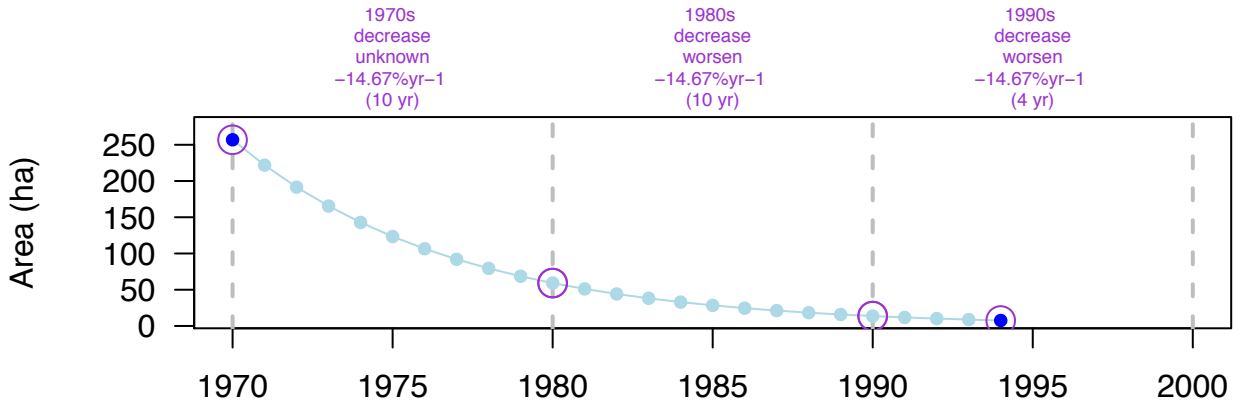
811_area

Kastler and Michaelis 1999

SITE: Spiekeroog (Germany – Atlantic) – Zn (? m)

OVERALL: Net = -249.3 ha; Rate = -14.67 % yr⁻¹; Perc Final = 3 % > decrease

DECADAL: YES (24 yr)



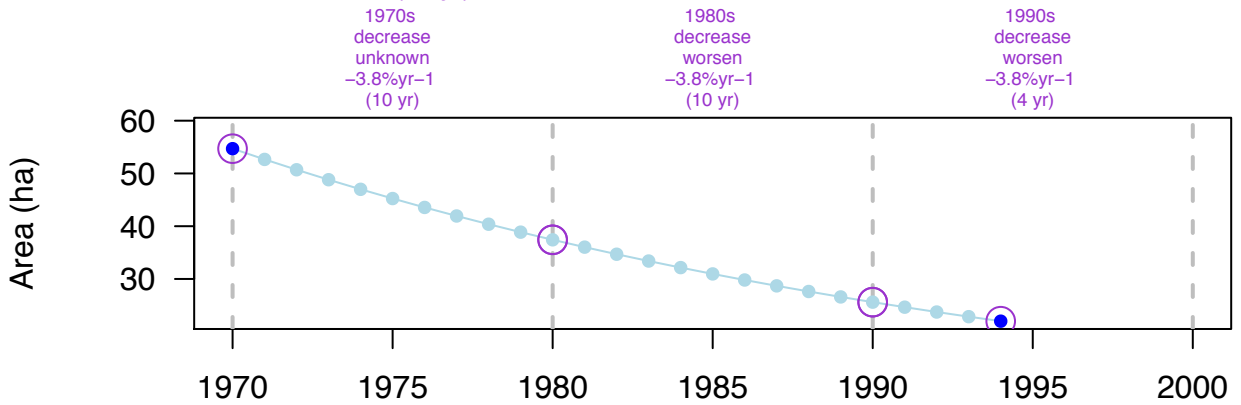
812_area

Kastler and Michaelis 1999

SITE: Wangerooge (Germany – Atlantic) – Zn (? m)

OVERALL: Net = -32.7 ha; Rate = -3.8 % yr⁻¹; Perc Final = 40 % > decrease

DECADAL: YES (24 yr)



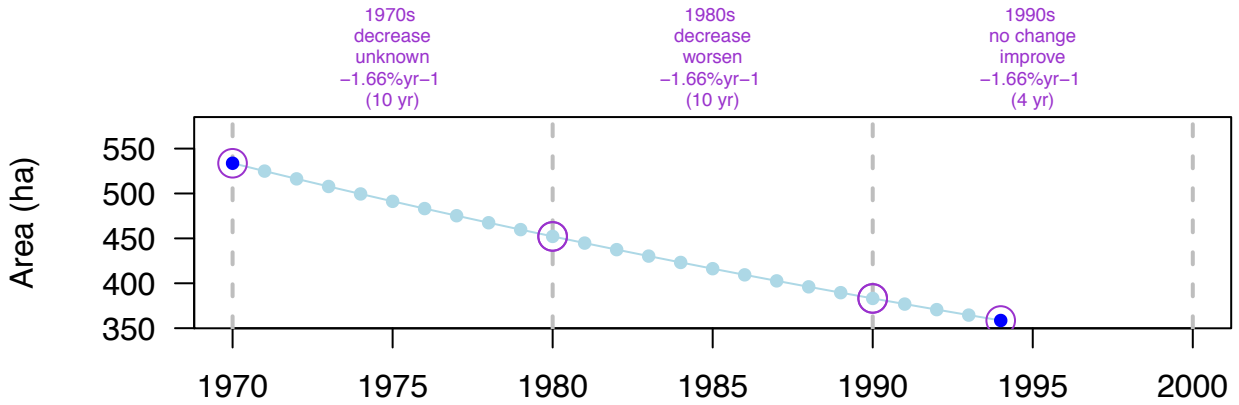
813_area

Kastler and Michaelis 1999

SITE: Wilhelmshaven (Germany – Atlantic) – Zn (? m)

OVERALL: Net = -175.1 ha; Rate = -1.66 % yr⁻¹; Perc Final = 67 % > decrease

DECADAL: YES (24 yr)



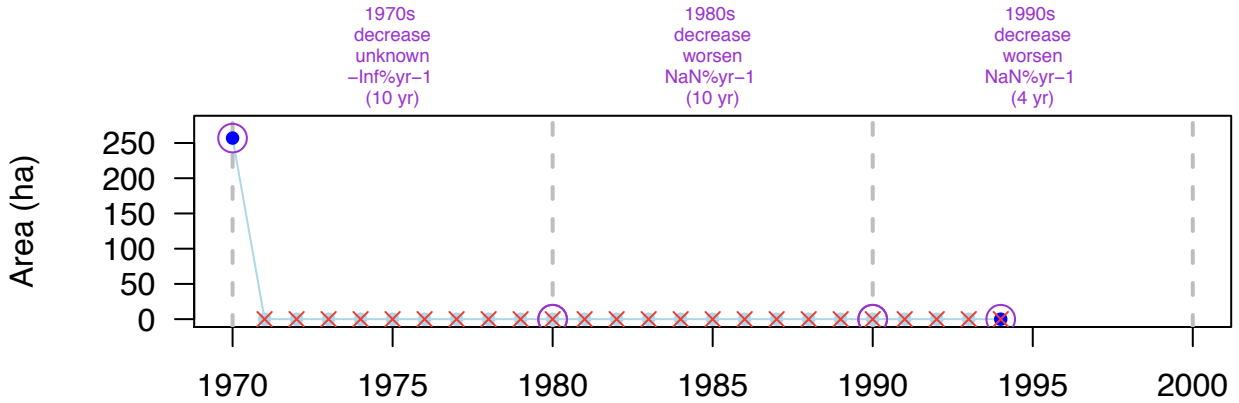
814_area

Kastler and Michaelis 1999

SITE: Jade Bright (Germany – Atlantic) – Zn (? m)

OVERALL: Net = -257 ha; Rate = NA % yr⁻¹; Perc Final = NA % > decrease

DECADAL: YES (24 yr)



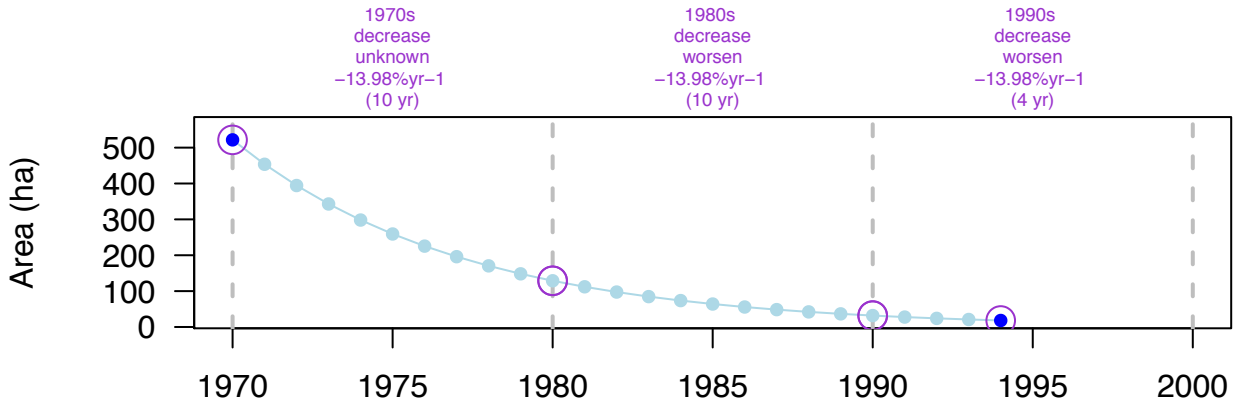
815_area

Kastler and Michaelis 1999

SITE: Weser Estuary (Germany – Atlantic) – Zn (? m)

OVERALL: Net = -503.5 ha; Rate = -13.98 % yr⁻¹; Perc Final = 3 % > decrease

DECADAL: YES (24 yr)



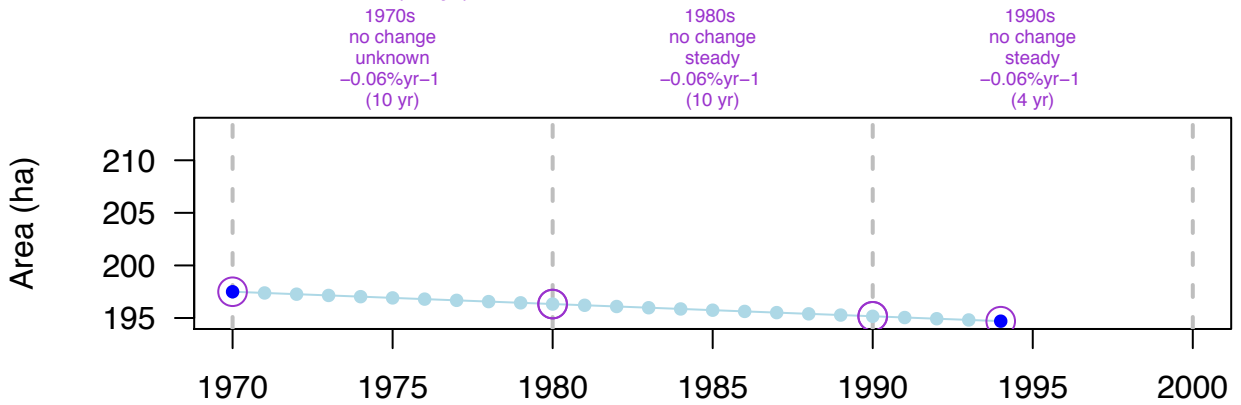
816_area

Kastler and Michaelis 1999

SITE: Bremerhaven (Germany – Atlantic) – Zn (? m)

OVERALL: Net = -2.8 ha; Rate = -0.06 % yr⁻¹; Perc Final = 99 % > no change

DECADAL: YES (24 yr)



817_density

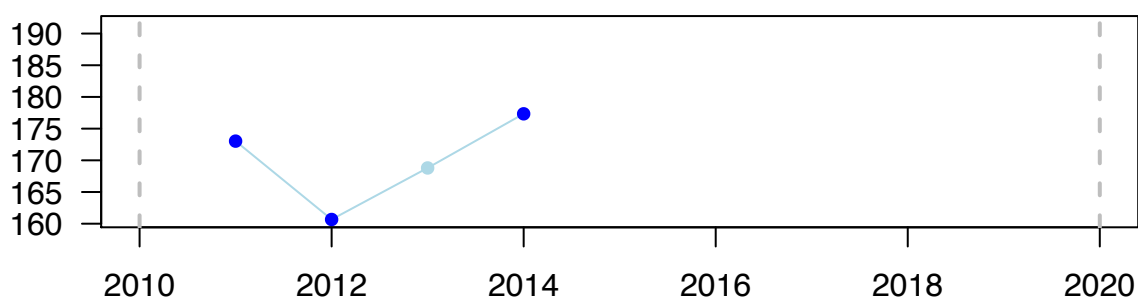
Jakl et al. 2015

SITE: Cuska Dumboka (Croatia – Mediterranean) – Po (? m)

OVERALL: Net = 4.31 shoot m⁻²; Rate = 0.82 % yr⁻¹; Perc Final = 102 % > no change

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



818_density

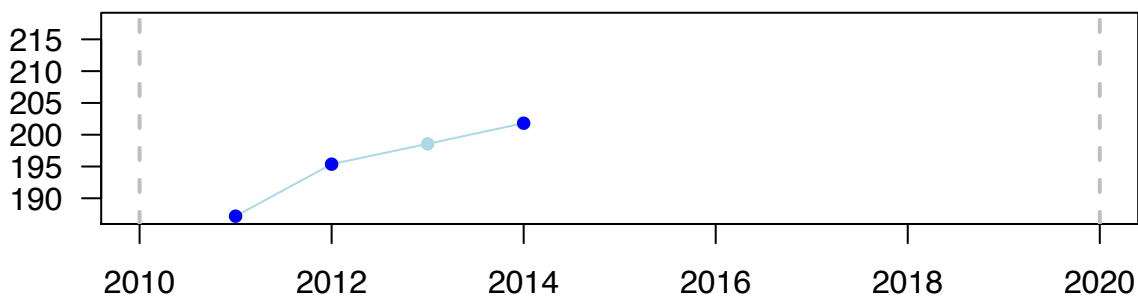
Jakl et al. 2015

SITE: Kobiljak (Croatia – Mediterranean) – Po (? m)

OVERALL: Net = 14.62 shoot m⁻²; Rate = 2.51 % yr⁻¹; Perc Final = 108 % > no change

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



819_density

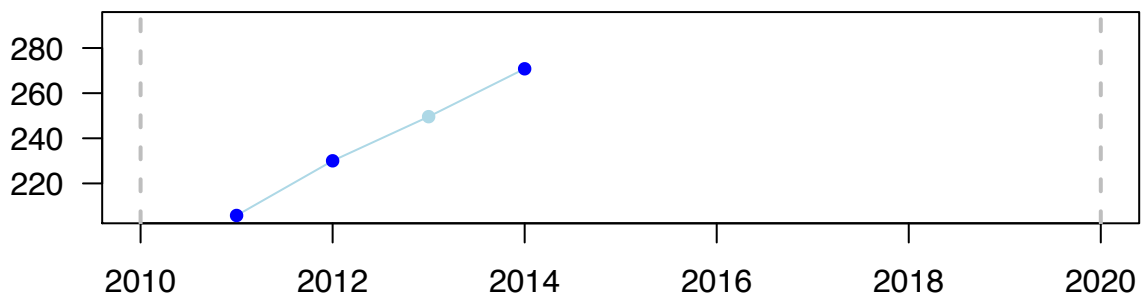
Jakl et al. 2015

SITE: Lucica (Croatia – Mediterranean) – Po (? m)

OVERALL: Net = 65 shoot m⁻²; Rate = 9.15 % yr⁻¹; Perc Final = 132 % > increase

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



820_density

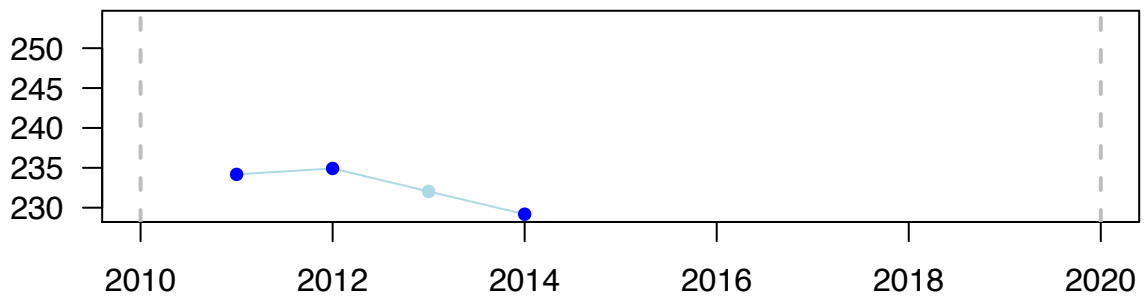
Jakl et al. 2015

SITE: Sestrica (Croatia – Mediterranean) – Po (? m)

OVERALL: Net = -4.99 shoot m⁻²; Rate = -0.72 % yr⁻¹; Perc Final = 98 % > no change

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



821_density

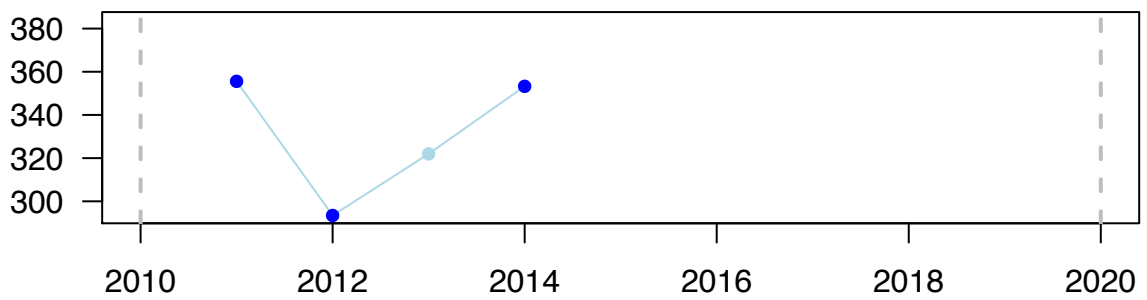
Jakl et al. 2015

SITE: Garmenjak (Croatia – Mediterranean) – Po (? m)

OVERALL: Net = -2.32 shoot m⁻²; Rate = -0.22 % yr⁻¹; Perc Final = 99 % > no change

DECADAL: NO (3 yr)

Shoot density (shoot m⁻²)



830_area

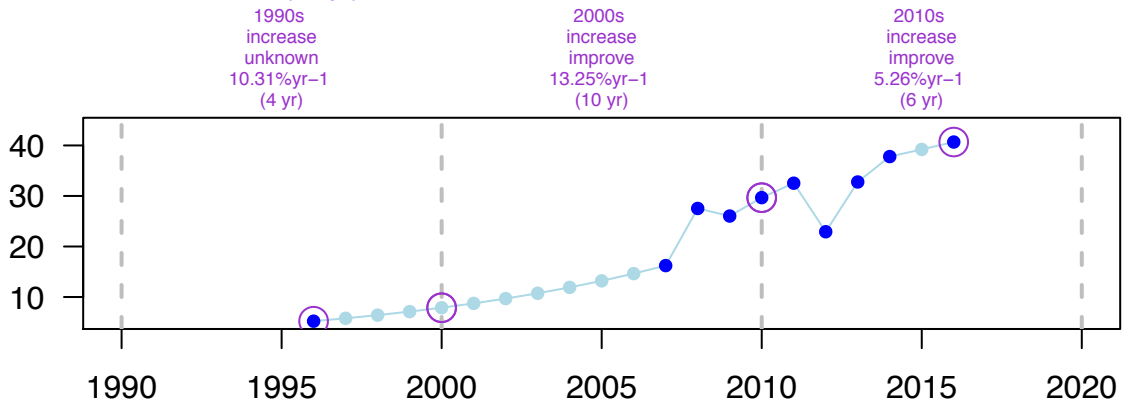
Bertelli et al. 2017

SITE: Angle Bay (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 35.46 ha; Rate = 10.27 % yr⁻¹; Perc Final = 779 % > increase

DECADAL: YES (20 yr)

Area (ha)



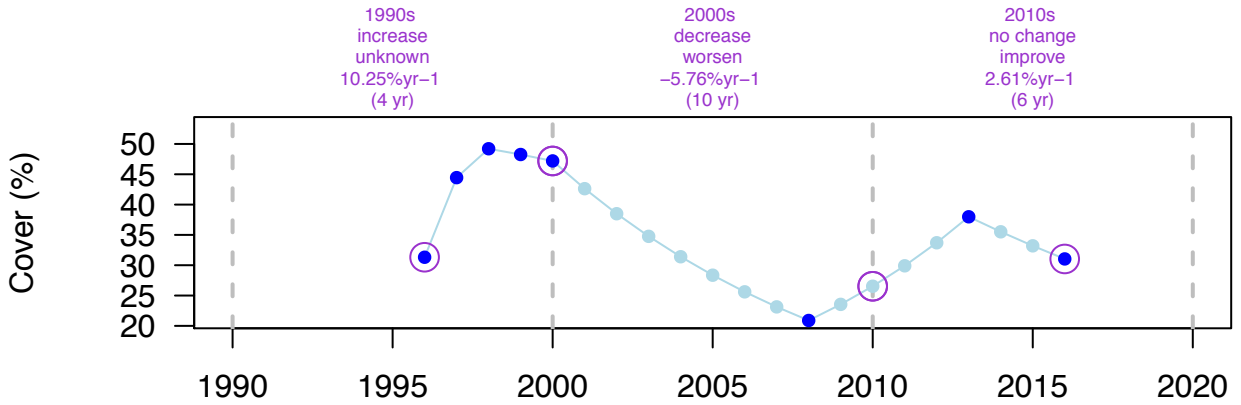
830_cover

Bertelli et al. 2017

SITE: Angle Bay (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = -0.28 %; Rate = -0.04 % yr⁻¹; Perc Final = 99 % > no change

DECADAL: YES (20 yr)



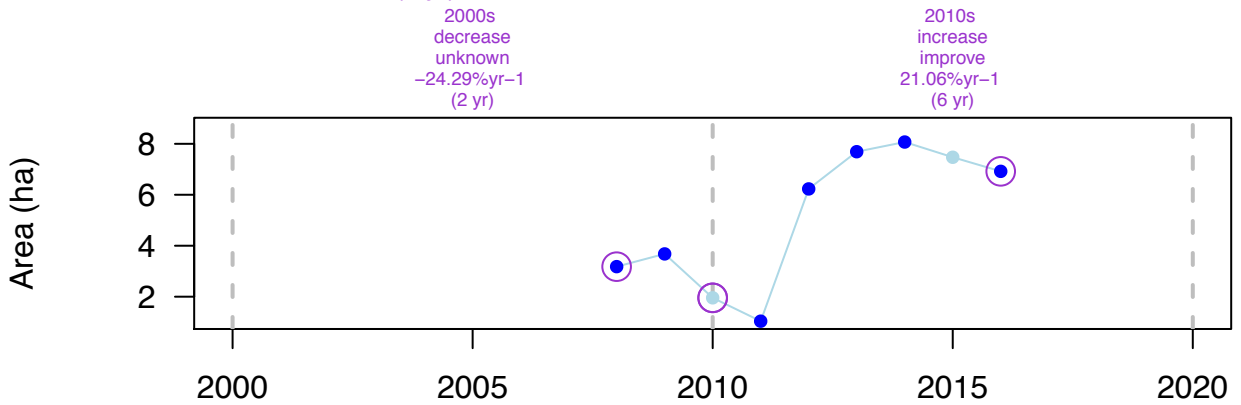
831_area

Bertelli et al. 2017

SITE: Carew (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 3.74 ha; Rate = 9.72 % yr⁻¹; Perc Final = 218 % > increase

DECADAL: YES (8 yr)



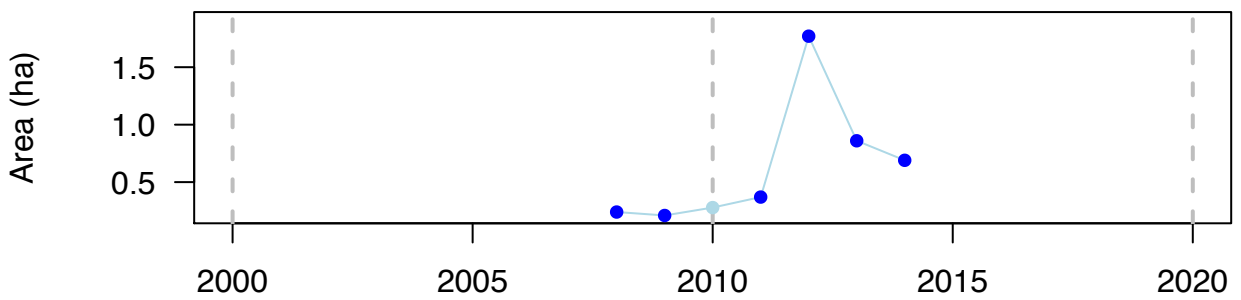
832_area

Bertelli et al. 2017

SITE: Cosheston (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 0.45 ha; Rate = 17.6 % yr⁻¹; Perc Final = 288 % > increase

DECADAL: NO (6 yr)



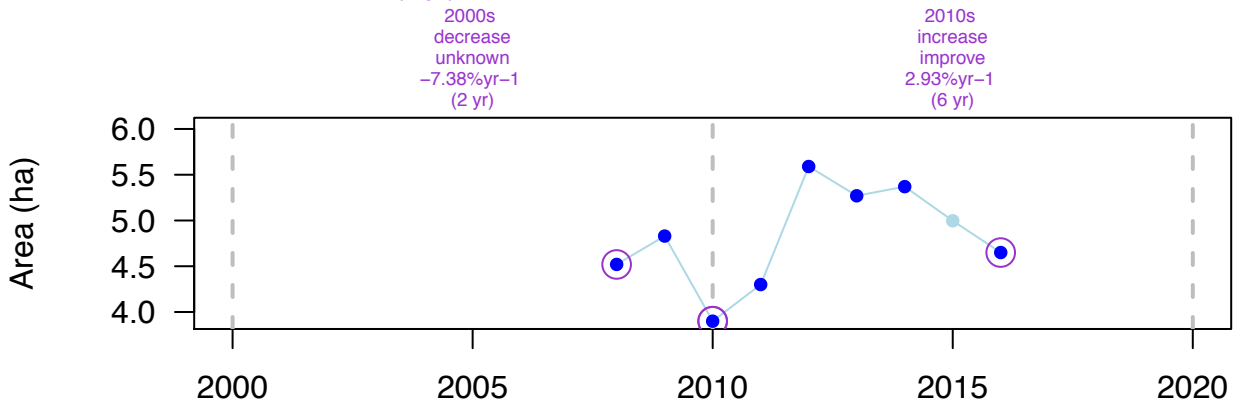
833_area

Bertelli et al. 2017

SITE: Garron pill (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 0.13 ha; Rate = 0.35 % yr⁻¹; Perc Final = 103 % > no change

DECADAL: YES (8 yr)



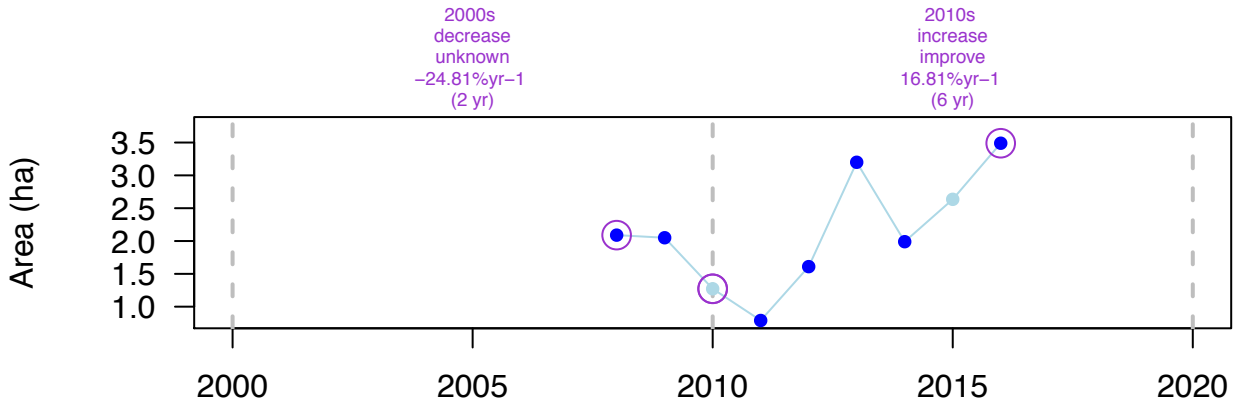
834_area

Bertelli et al. 2017

SITE: Hobbs point (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 1.4 ha; Rate = 6.41 % yr⁻¹; Perc Final = 167 % > increase

DECADAL: YES (8 yr)



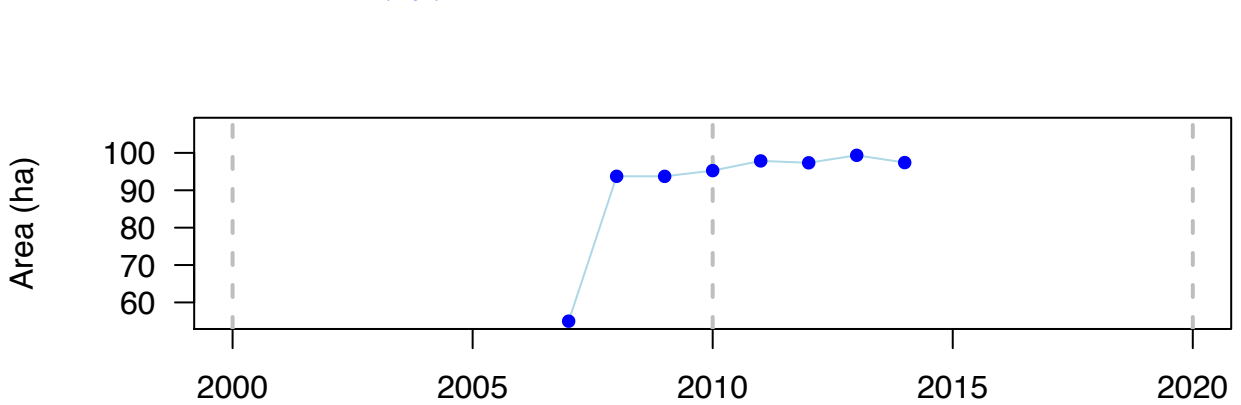
835_area

Bertelli et al. 2017

SITE: Pembroke river (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 42.42 ha; Rate = 8.17 % yr⁻¹; Perc Final = 177 % > increase

DECADAL: NO (7 yr)



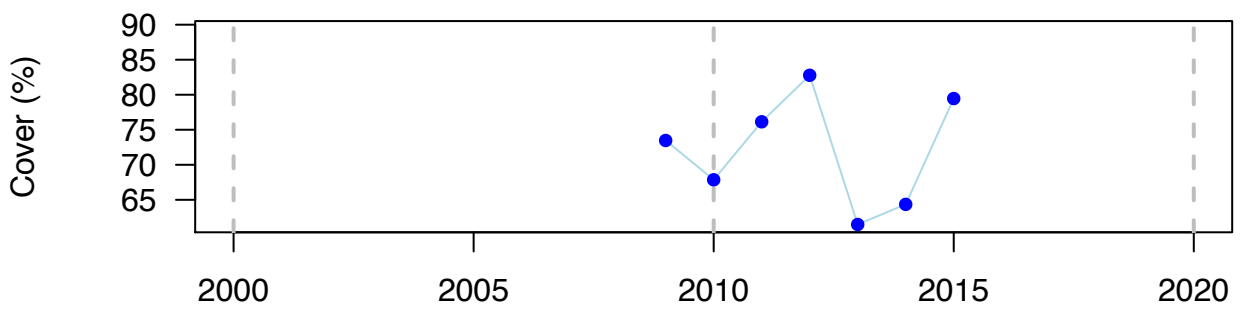
835_cover

Bertelli et al. 2017

SITE: Pembroke river (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 5.99 %; Rate = 1.31 % yr⁻¹; Perc Final = 108 % > no change

DECADAL: NO (6 yr)



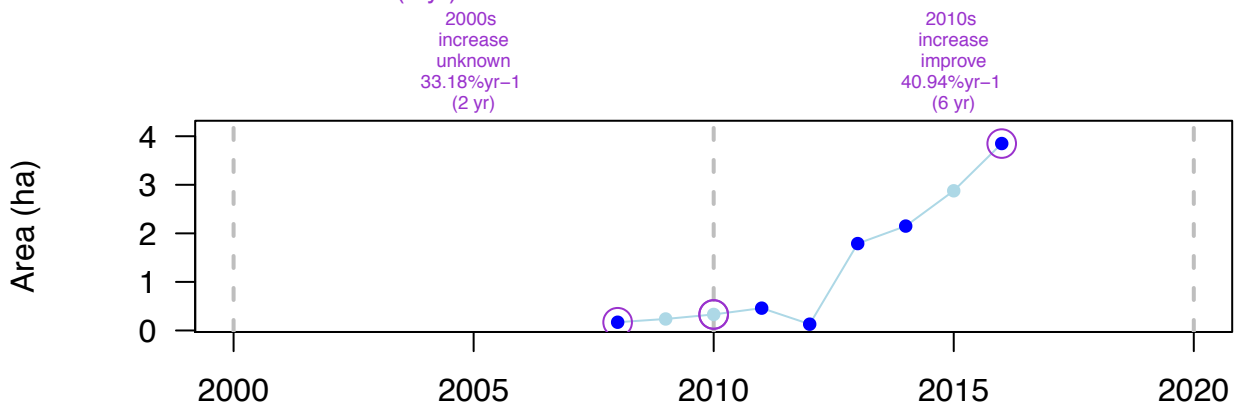
836_area

Bertelli et al. 2017

SITE: Pwllcrochan flats (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 3.68 ha; Rate = 39 % yr⁻¹; Perc Final = 2265 % > increase

DECADAL: YES (8 yr)



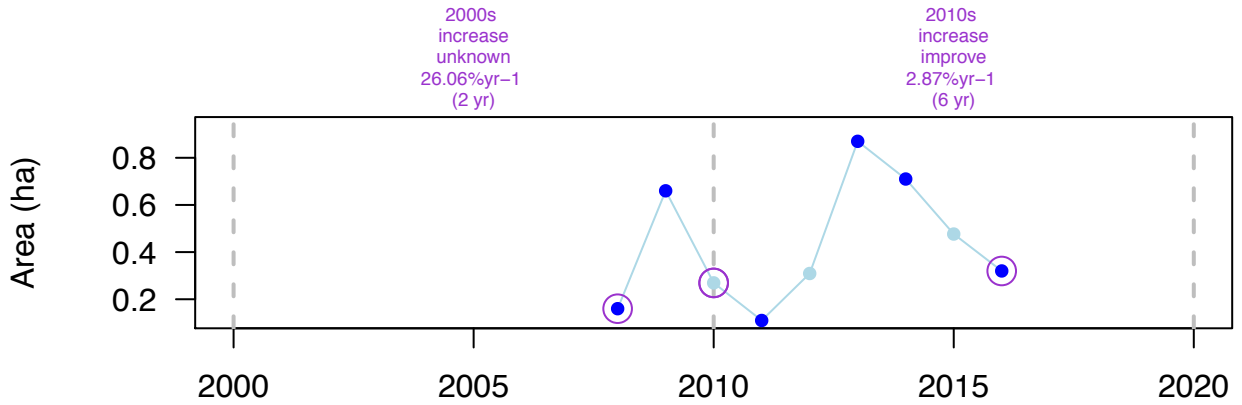
837_area

Bertelli et al. 2017

SITE: Sprinkle pill (United Kingdom – Atlantic) – Zn (? m)

OVERALL: Net = 0.16 ha; Rate = 8.66 % yr⁻¹; Perc Final = 200 % > increase

DECADAL: YES (8 yr)



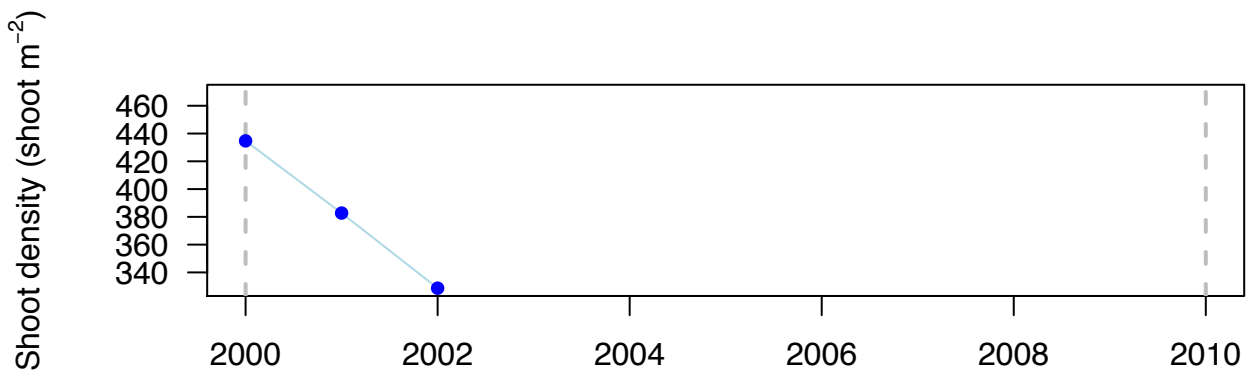
856_density

Lorenti et al. 2005

SITE: Lacco Ameno (Italy – Mediterranean) – Po (-5 m)

OVERALL: Net = -106.06 shoot m⁻²; Rate = -13.98 % yr⁻¹; Perc Final = 76 % > no change

DECADAL: NO (2 yr)



857_density

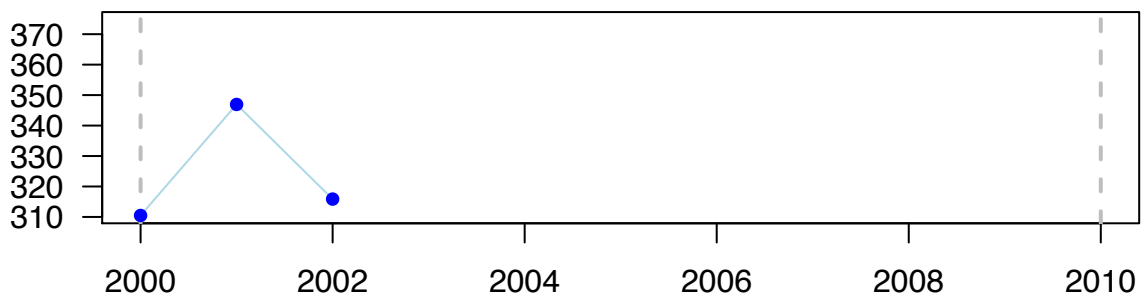
Lorenti et al. 2005

SITE: Lacco Ameno (Italy – Mediterranean) – Po (-10 m)

OVERALL: Net = 5.38 shoot m⁻²; Rate = 0.86 % yr⁻¹; Perc Final = 102 % > no change

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



858_density

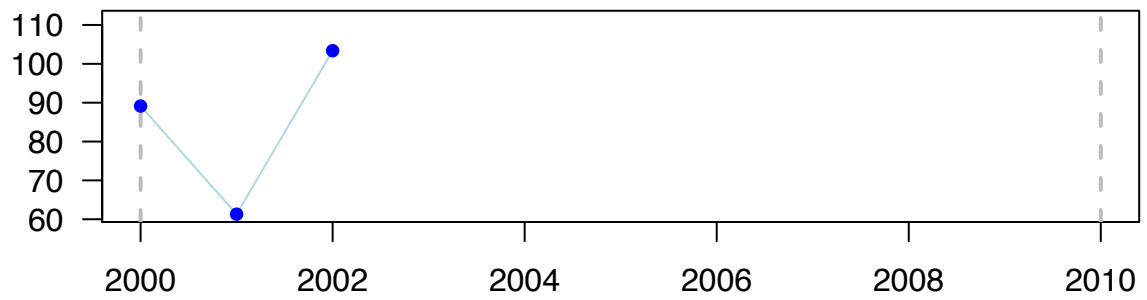
Lorenti et al. 2005

SITE: Lacco Ameno (Italy – Mediterranean) – Po (-30 m)

OVERALL: Net = 14.24 shoot m⁻²; Rate = 7.41 % yr⁻¹; Perc Final = 116 % > no change

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



859_density

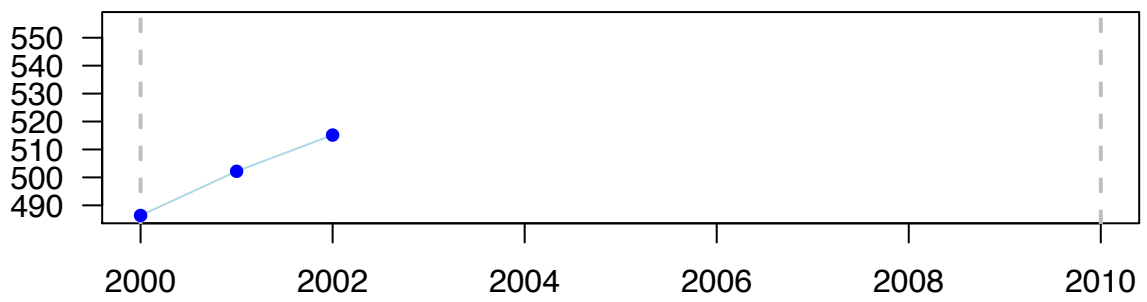
Lorenti et al. 2005

SITE: Off Scarrupata (Italy – Mediterranean) – Po (-10 m)

OVERALL: Net = 28.79 shoot m⁻²; Rate = 2.88 % yr⁻¹; Perc Final = 106 % > no change

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



860_density

Lorenti et al. 2005

SITE: Off Scarrupata (Italy – Mediterranean) – Po (-30 m)

OVERALL: Net = 4.89 shoot m⁻²; Rate = 1.49 % yr⁻¹; Perc Final = 103 % > no change

DECADAL: NO (2 yr)

Shoot density (shoot m⁻²)



861_density

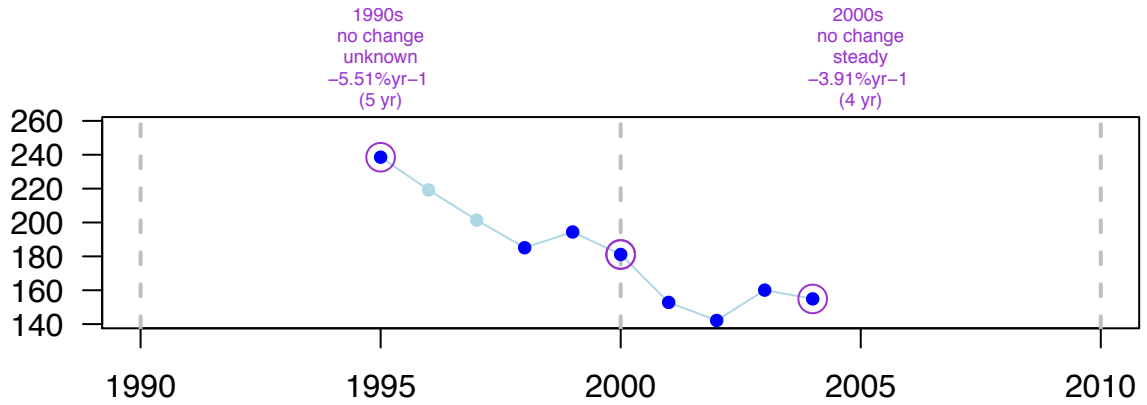
Molenaar et al. 2006

SITE: Cap Martin (France – Mediterranean) – Po (-20 m)

OVERALL: Net = -83.64 shoot m⁻²; Rate = -4.8 % yr⁻¹; Perc Final = 65 % > decrease

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



862_density

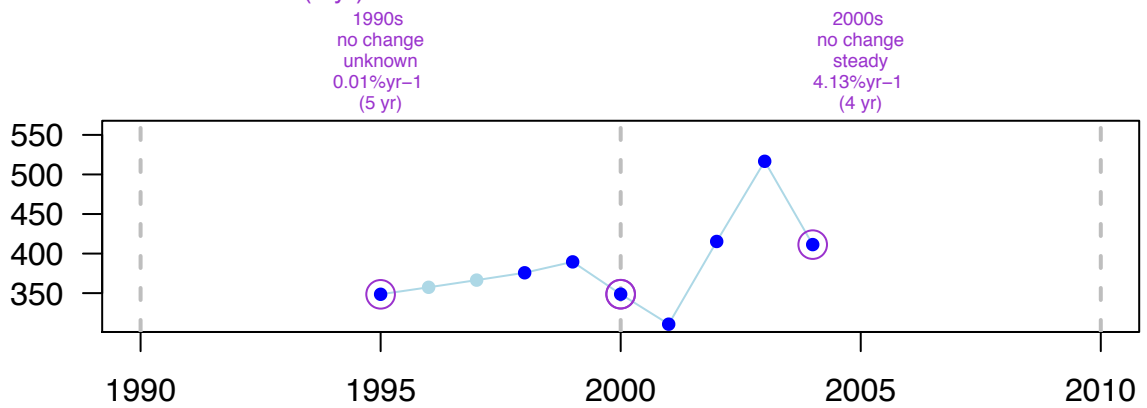
Molenaar et al. 2006

SITE: Cap Ferrat (France – Mediterranean) – Po (-20 m)

OVERALL: Net = 62.8 shoot m⁻²; Rate = 1.84 % yr⁻¹; Perc Final = 118 % > no change

DECADAL: YES (9 yr)

Shoot density (shoot m⁻²)



863_density

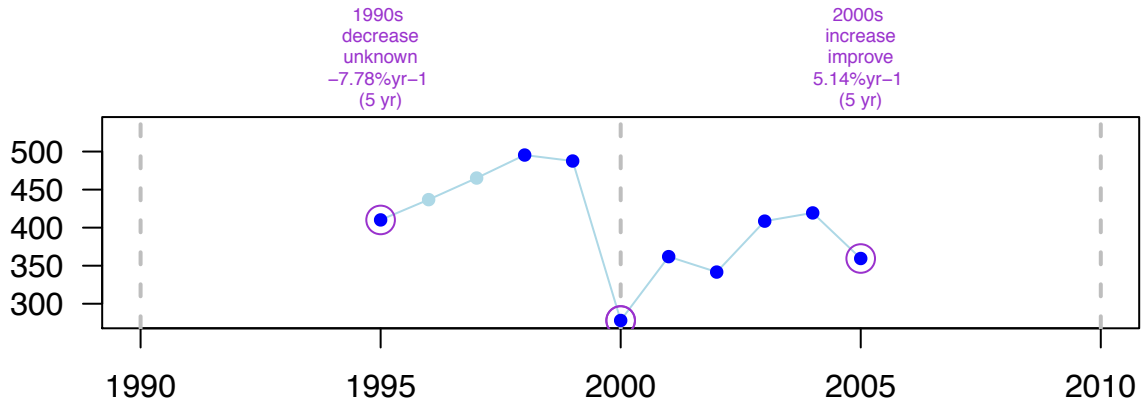
Molenaar et al. 2009

SITE: Cap d'Antibes (France – Mediterranean) – Po (-6 m)

OVERALL: Net = -50.7 shoot m⁻²; Rate = -1.32 % yr⁻¹; Perc Final = 88 % > no change

DECADAL: YES (10 yr)

Shoot density (shoot m⁻²)



864_density

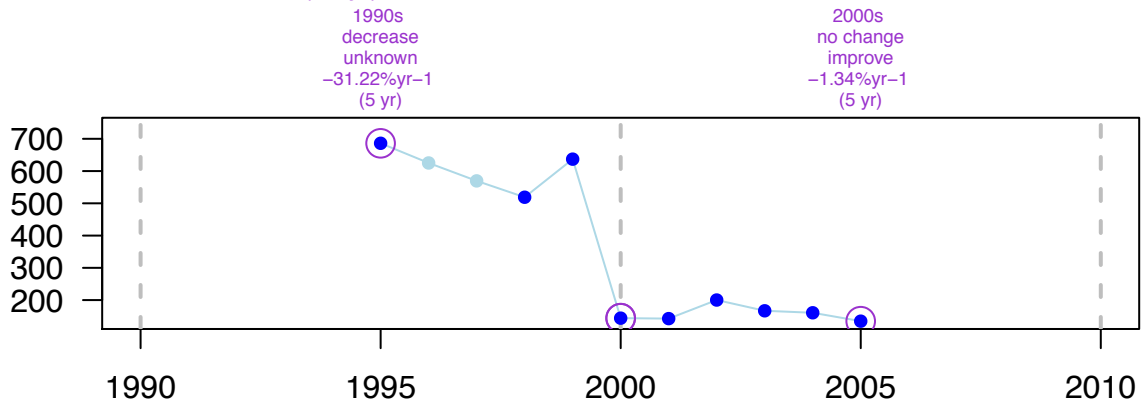
Molenaar et al. 2009

SITE: Cap Martin (France – Mediterranean) – Po (-6 m)

OVERALL: Net = -551.47 shoot m⁻²; Rate = -16.28 % yr⁻¹; Perc Final = 20 % > decrease

DECADAL: YES (10 yr)

Shoot density (shoot m⁻²)



875_area

Procaccini et al. 2003

SITE: Islas Medes (entire) (Spain – Mediterranean) – Po (? m)

OVERALL: Net = 0 ha; Rate = 0 % yr⁻¹; Perc Final = 100 % > no change

DECADAL: YES (17 yr)

