

## Supplementary Material

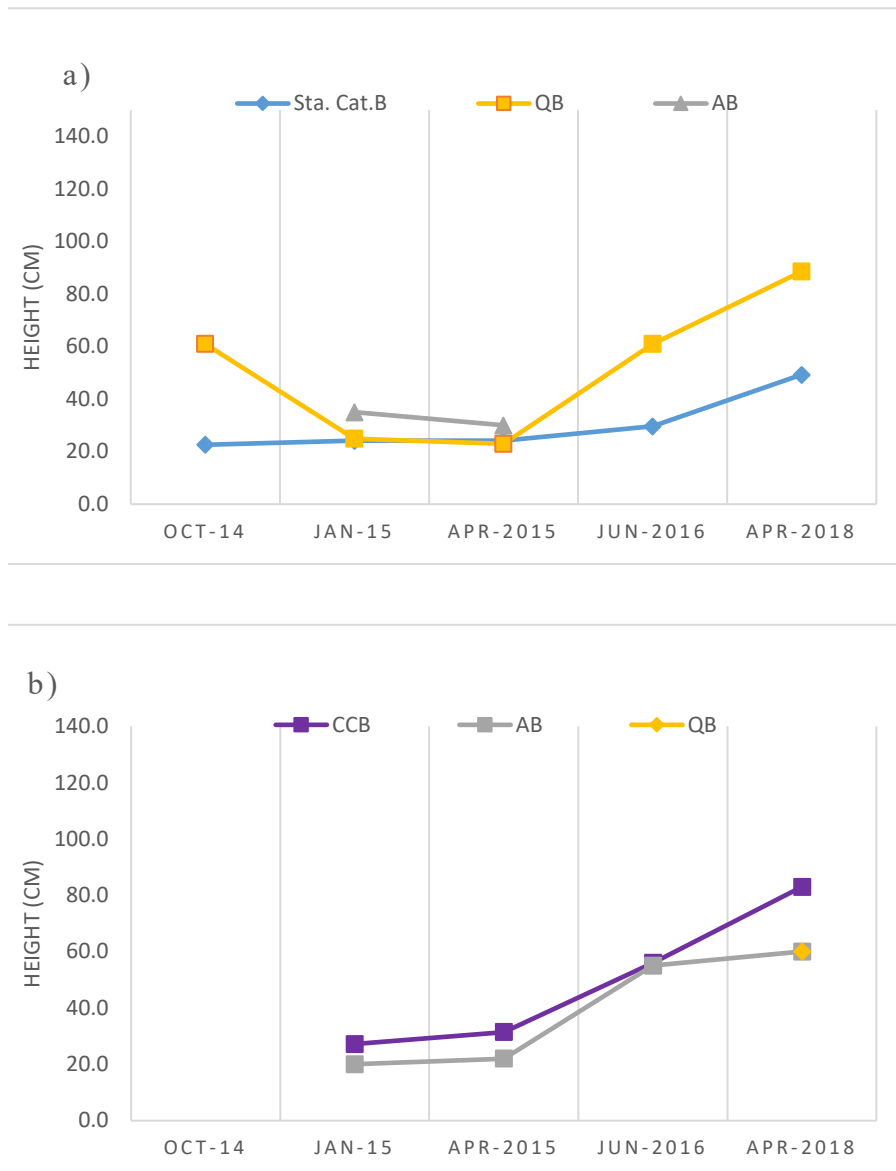


Figure S1. Plant height of Genisteae species a) *Cytisus scoparius* and b) *Retama sphaerocarpa* planted in pilot-plots, assessed through 4 years following the wildfires. The pilot plot abbreviation is as follows: Sta. Cat.<sub>B</sub>, Sta. Catalina – Risco Grande (Burned); Q<sub>B</sub>, Solana de los Quejigos (Burned); CC<sub>B</sub>, Camino de los Corrales (Burned); A<sub>B</sub>, Atalaya (Burned).

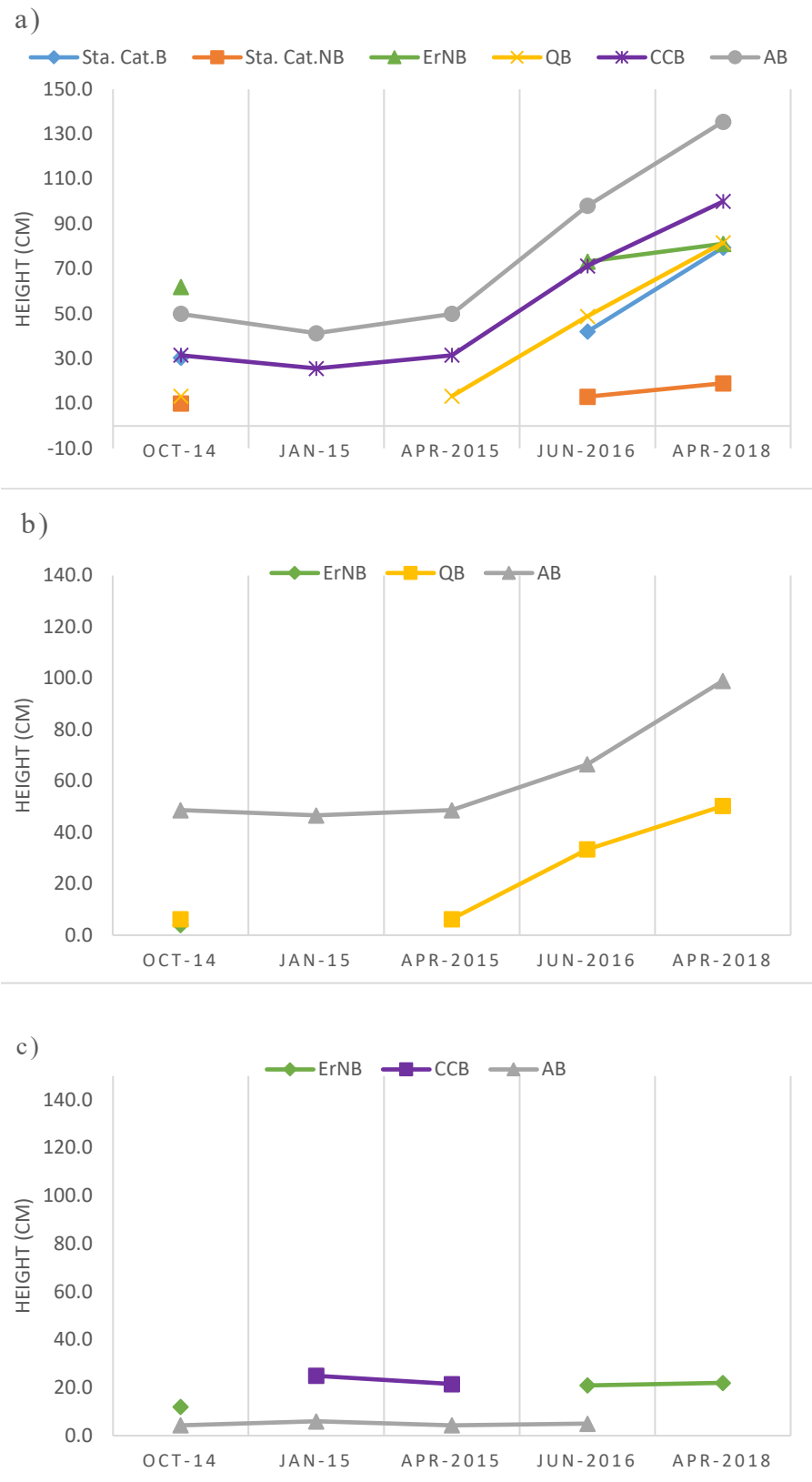


Figure S2. Variations in plant height of woody pioneer pyrophytes: a) *Cistus ladanifer* and b) *Rosmarinus officinalis*, and potential vegetation species c) *Quercus rotundifolia* in the pilot-plots through 4 years following the wildfires. The pilot plot abbreviation is as follows: Sta. Cat.<sub>B</sub>, Sta. Catalina – Risco Grande (Burned); Sta. Cat.<sub>NB</sub>, Sta. Catalina – Umbria (Not burned); ER<sub>NB</sub>, Ermita (Not burned); Q<sub>B</sub>, Solana de los Quejigos (Burned); C<sub>CB</sub>, Camino de los Corrales (Burned); A<sub>B</sub>, Atalaya (Burned).

Table S1. Comparison of the proportion of the size fractions (%) of soil samples collected in the pilot-plots' surroundings 5 and 7 years after wildfires (2015 and 2017).

Pilot-plot	2017					2015					Soil Texture
	% CS	% FS	% TOT S	%C	%L	% CS	% FS	% TOT S	%C	%L	
Sta. Cat <sub>B</sub>	43.52	28.89	72.41	7.73	19.86	51.11	23.95	75.06	11.49	13.45	SL
Sta. Cat <sub>NB</sub>	54.38	26.10	80.48	5.99	13.53	65.17	18.10	83.27	7.38	9.35	LS
Er <sub>NB</sub>	61.97	17.14	79.11	9.77	11.12	63.58	18.39	82.48	8.15	9.88	SL
Q <sub>B</sub>	63.56	21.41	84.97	5.54	9.50	69.26	18.58	87.84	6.37	5.79	LS
CC <sub>B</sub>	58.01	26.96	84.98	3.27	11.75	60.16	23.39	83.55	6.11	10.33	LS
A <sub>B</sub>	50.58	31.86	82.44	3.71	13.85	60.48	23.73	84.21	7.83	7.97	LS

% CS, coarse sand; % FS, fine sand; %TOT S, total sand fraction; %C, clay; %L, lime. Soil texture (according to the ISSS): LS= Loamy sand; SL: Sandy-loam.

Table S2. Geographic coordinates and details of the permanent pilot-plots established in the study.

Pilot-plot ID	Pilot-plot	Geographic coordinates
Sta. Cat <sub>B</sub>	Santa Catalina-Risco Grande	40°31'37.74" N, 4°17'4.95" W
Sta. Cat <sub>NB</sub>	Santa Catalina-Umbria	40°31'37.75" N, 4°17'5" W
Er <sub>NB</sub>	Ermita	40°32'10.08" N, 4°17'48.20" W
Q <sub>B</sub>	Solana de los Quejigos	40°30'46.53" N, 4°18'24.28" W
CC <sub>B</sub>	Camino de los Corrales	40°31'21.92" N, 4°16'16.98" W
A <sub>B</sub>	Atalaya	40°30'48.80" N, 4°16'41.69" W