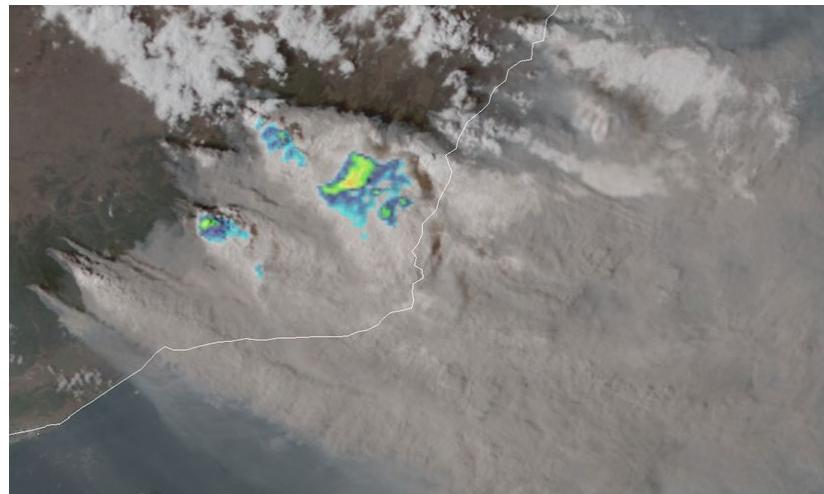
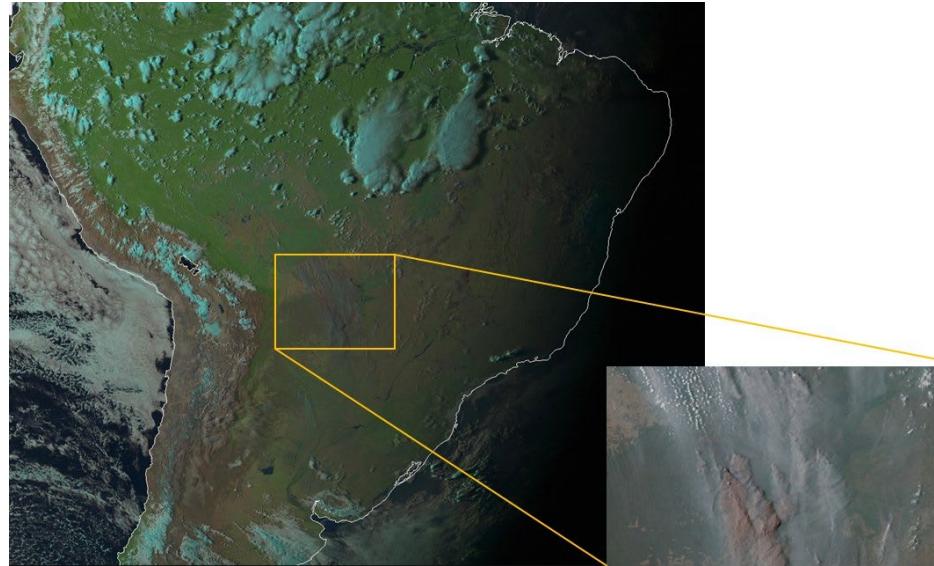


Incendis de 6^a generació

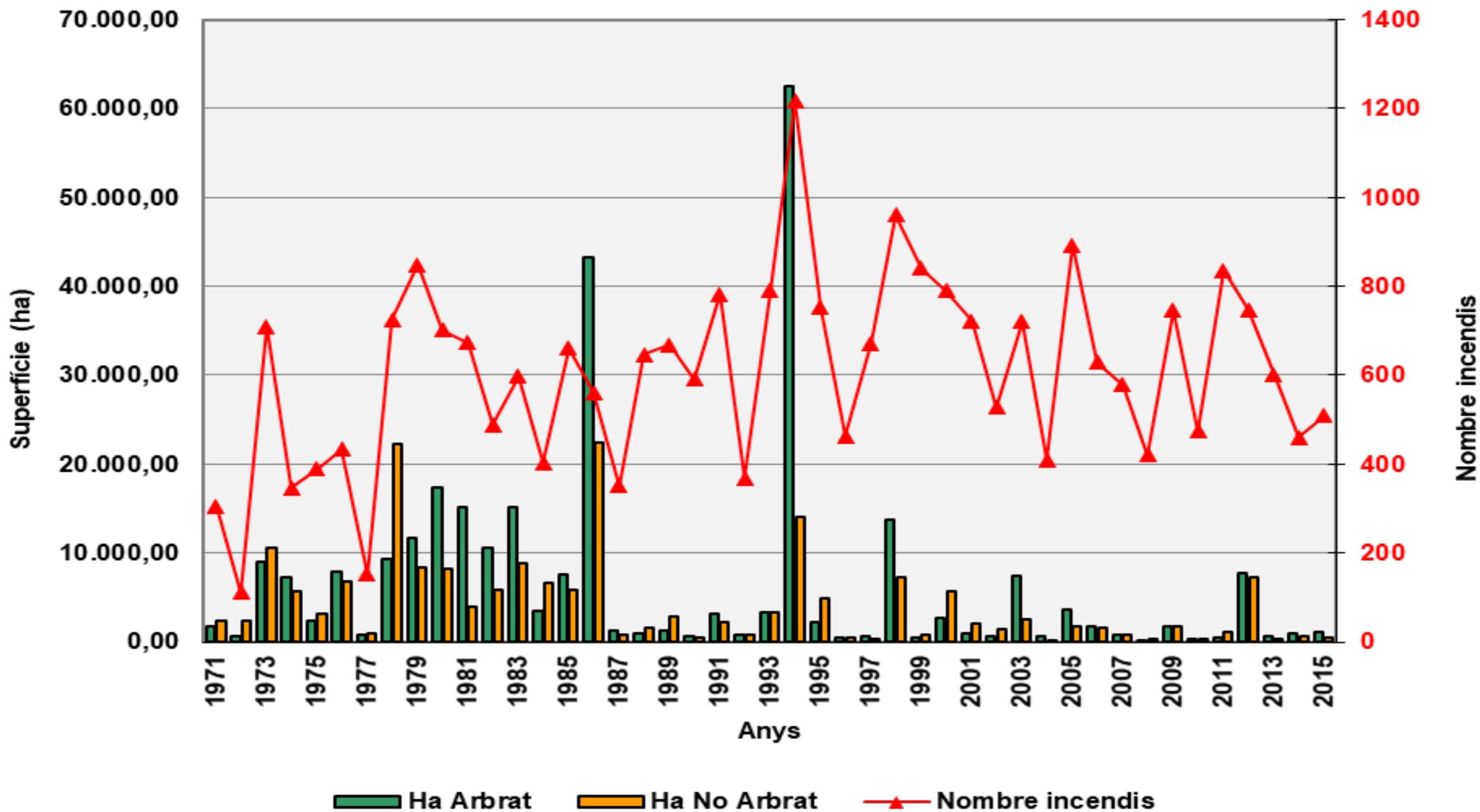


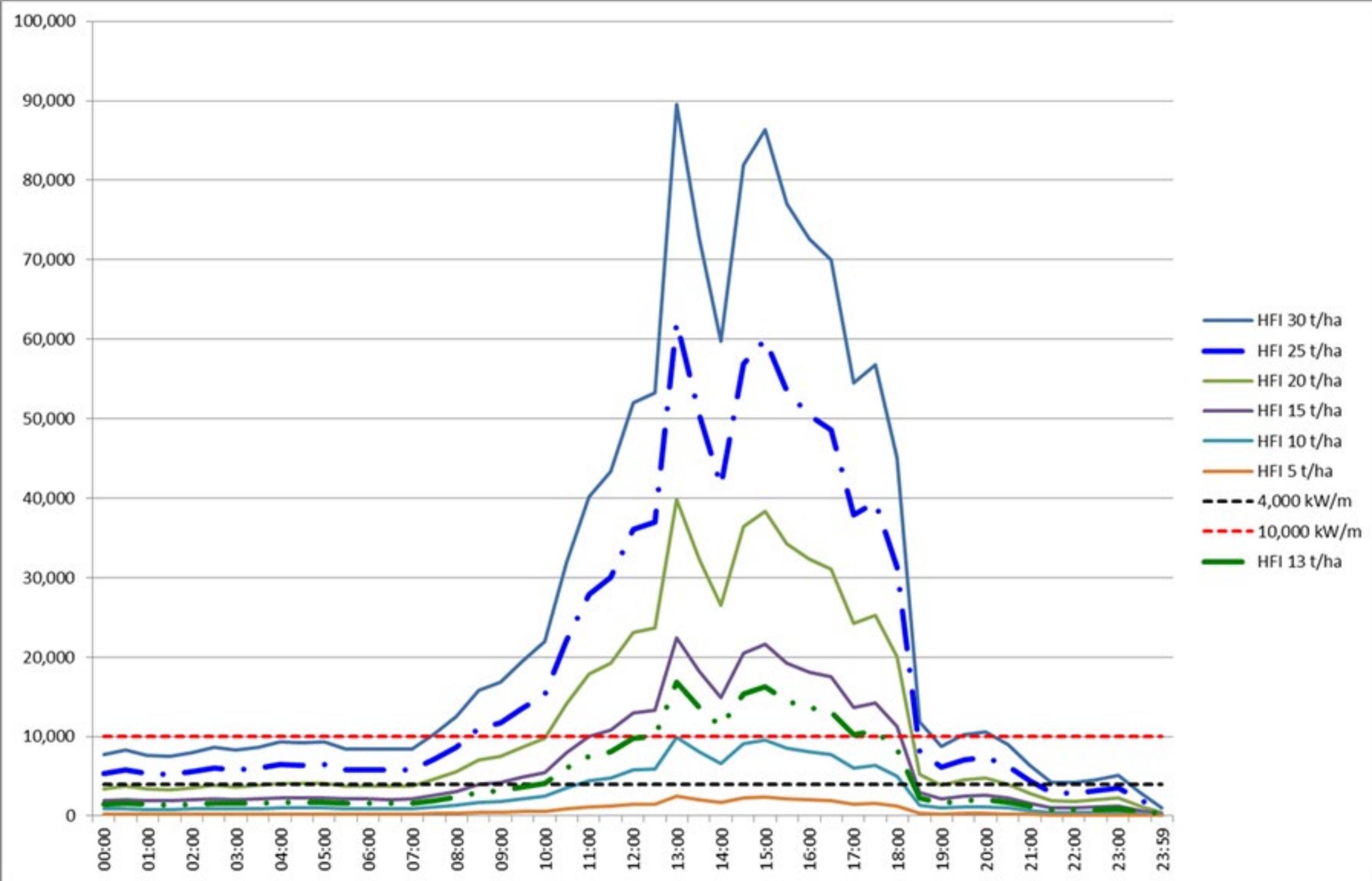
Marc Castellnou
Bombers GRAF
Generalitat Catalunya

Fire Category	Real Time Measurable Behavior Parameters			Real Time Observable Manifestations of EFB				Type of Fire and Capacity of Control *	
	FLI* (kWm^{-1})	ROS (m/min)	FL (m)	PyroCb	Downdrafts	Spotting Activity	Spotting Distance (m)		
Normal Fires	1	<500	<5 ^a <15 ^b	<1.5	Absent	Absent	Absent	0	Surface fire Fairly easy
	2	500–2000	<15 ^a <30 ^b	<2.5	Absent	Absent	Low	<100	Surface fire Moderately difficult
	3	2000–4000	<20 ^c <50 ^d	2.5–3.5	Absent	Absent	High	≥ 100	Surface fire, torching possible Very difficult
	4	4000–10,000	<50 ^c <100 ^d	3.5–10	Unlikely	In some localized cases	Prolific	500–1000	Surface fire, crowning likely depending on vegetation type and stand structure Extremely difficult
Extreme Wildfire Events	5	10,000–30,000	<150 ^c <250 ^d	10–50	Possible	Present	Prolific	>1000	Crown fire, either wind- or plume-driven Spotting plays a relevant role in fire growth Possible fire breaching across an extended obstacle to local spread Chaotic and unpredictable fire spread Virtually impossible
	6	30,000–100,000	<300	50–100	Probable	Present	Massive Spotting	>2000	Plume-driven, highly turbulent fire Chaotic and unpredictable fire spread Spotting, including long distance, plays a relevant role in fire growth Possible fire breaching across an extended obstacle to local spread Impossible
	7	>100,000 (possible)	>300 (possible)	>100 (possible)	Present	Present	Massive Spotting	>5000	Plume-driven, highly turbulent fire Area-wide ignition and firestorm development non-organized flame fronts because of extreme turbulence/vorticity and massive spotting Impossible

Note: ^a Forest and shrubland; ^b grassland; ^c forest; ^d shrubland and grassland; *FLI classes 1–4 follow the classification by Alexander and Lanoville [125].

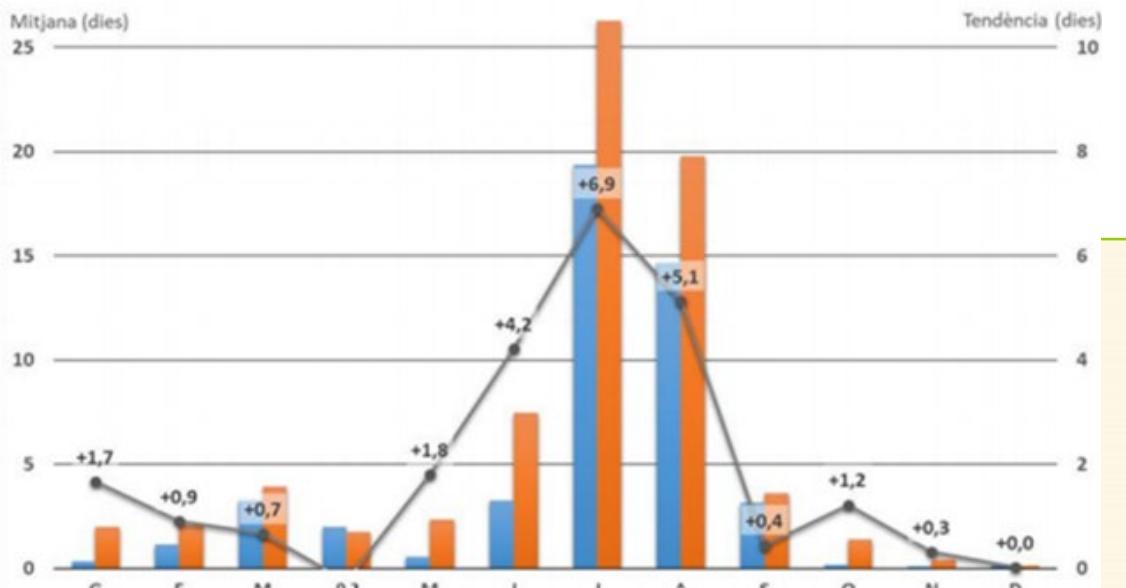
Gràfica de la paradoxa de l'extinció





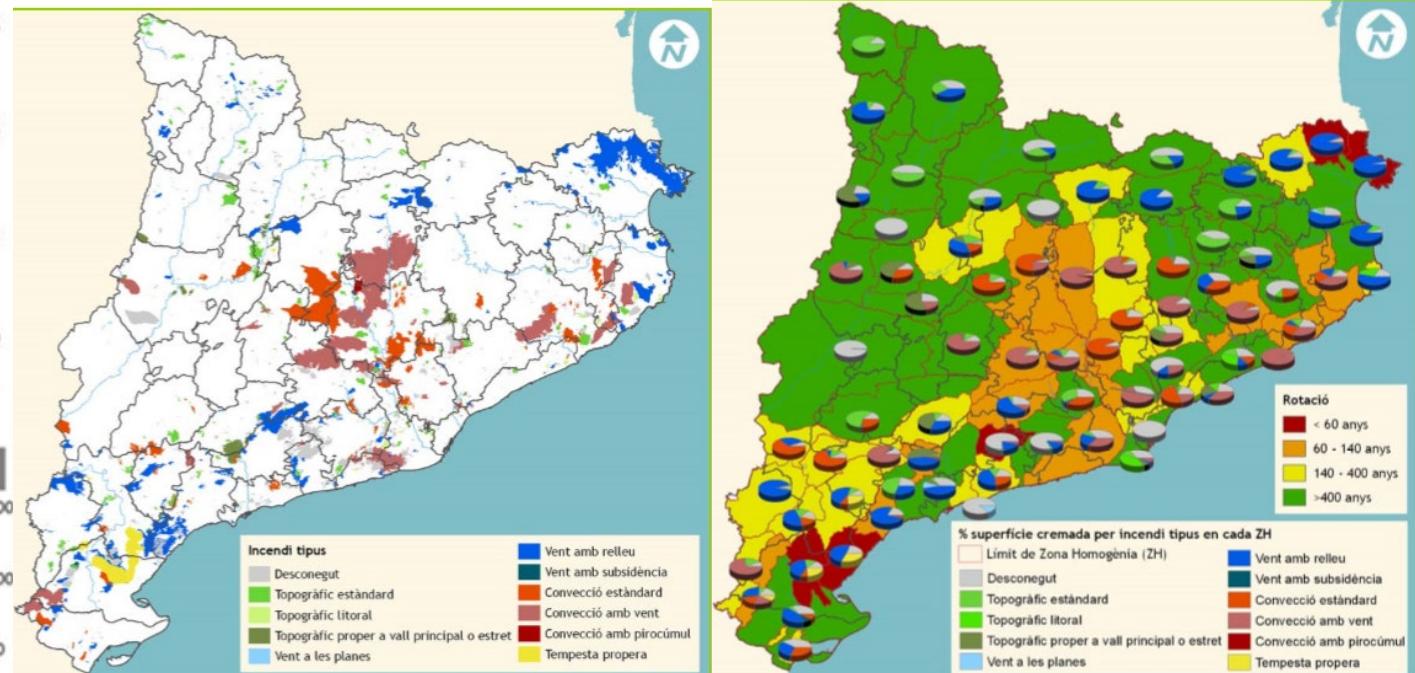
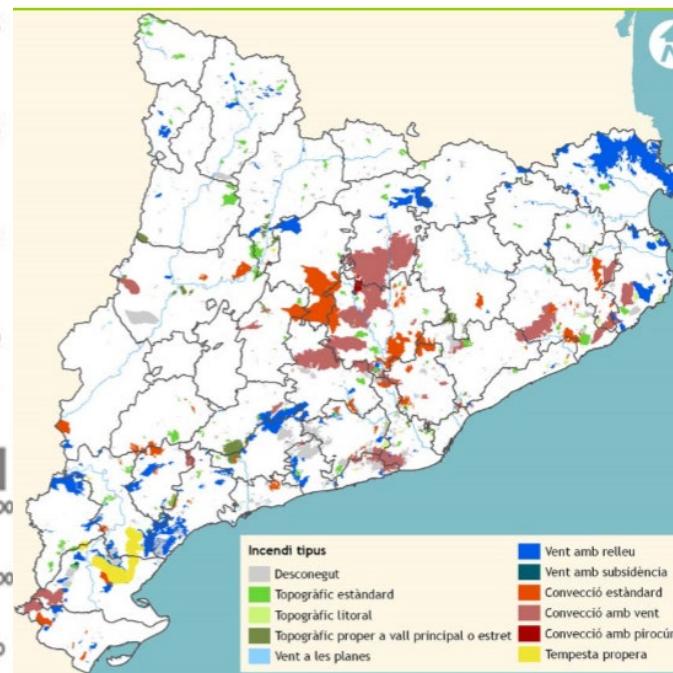
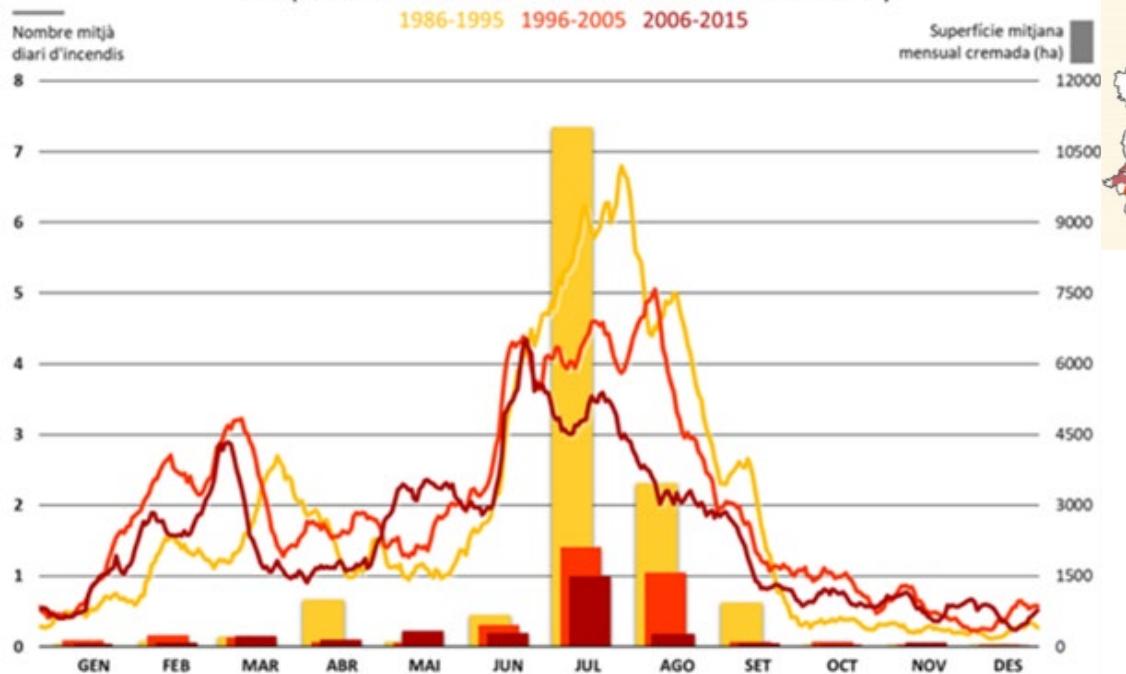
Mitjana mensual de dies amb meteorologia favorable al foc i tendència darrers 15 anys

■ 1958-2002 ■ 2003-2017 ■ Diferència entre els dos períodes



Comparativa de l'activitat dels incendis forestals a Catalunya

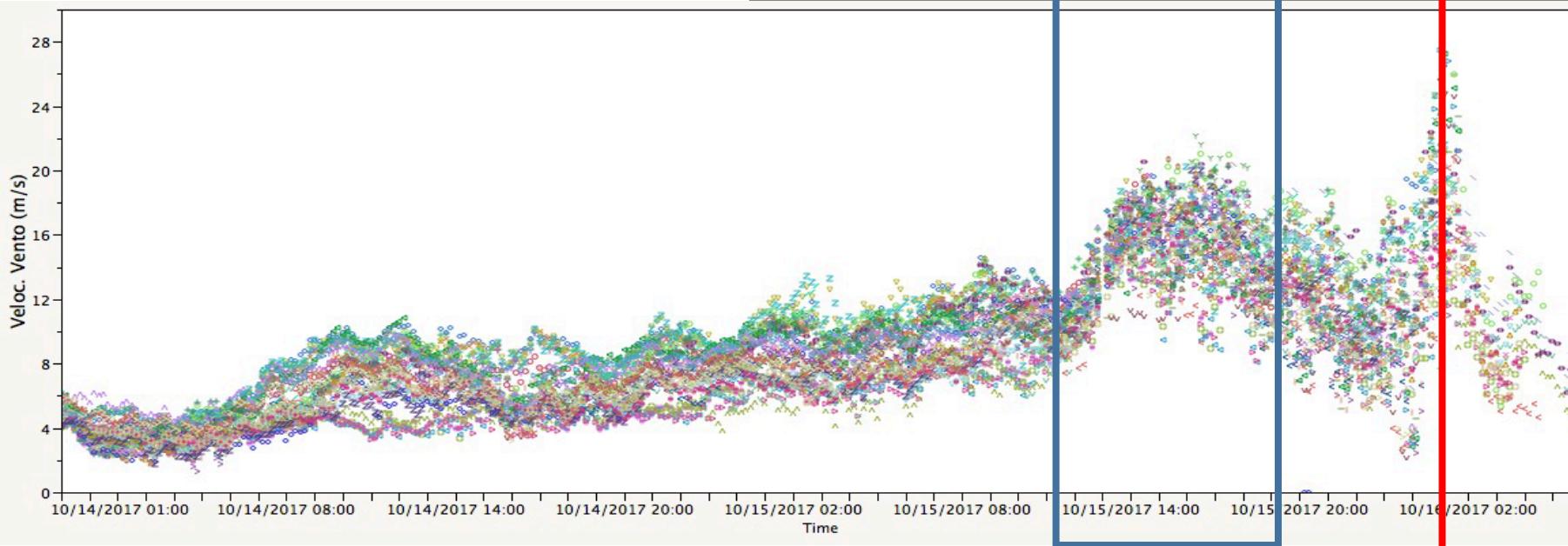
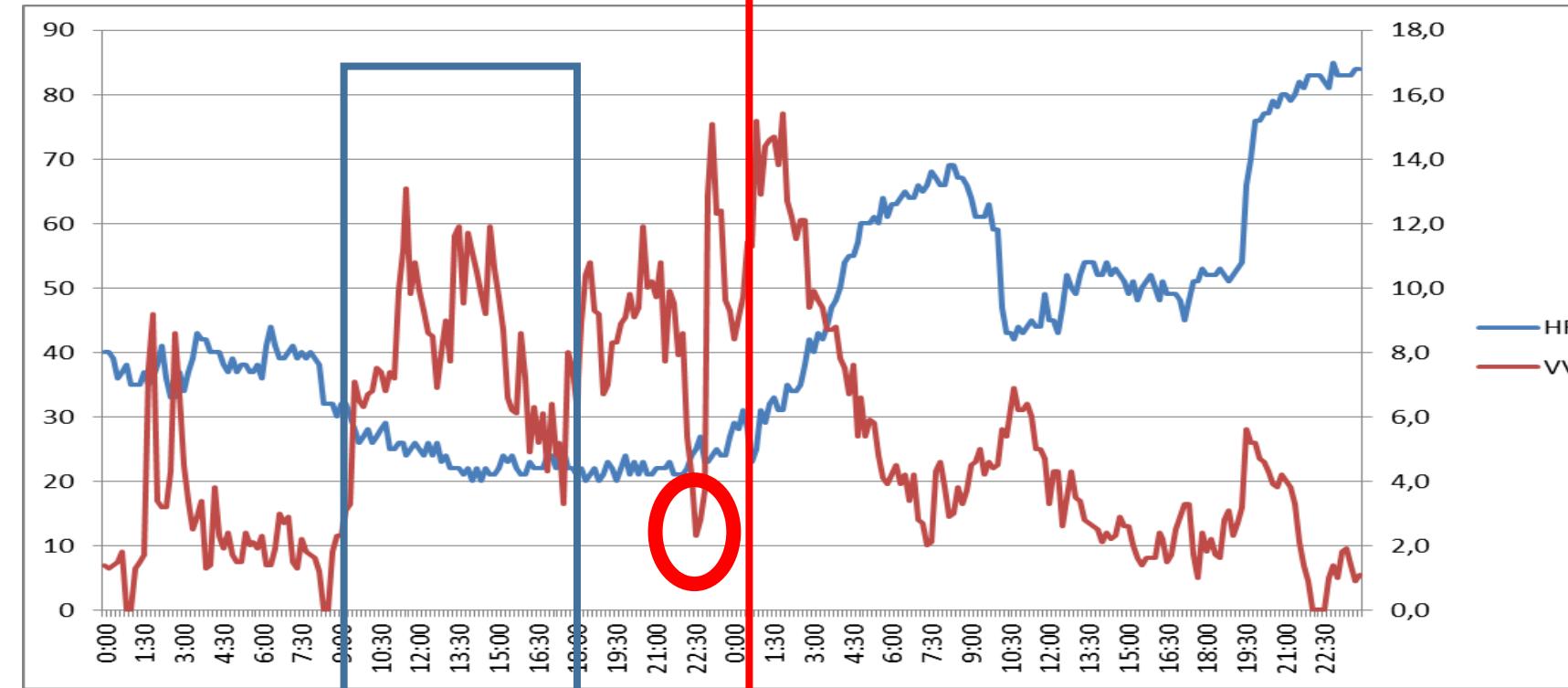
1986-1995 1996-2005 2006-2015



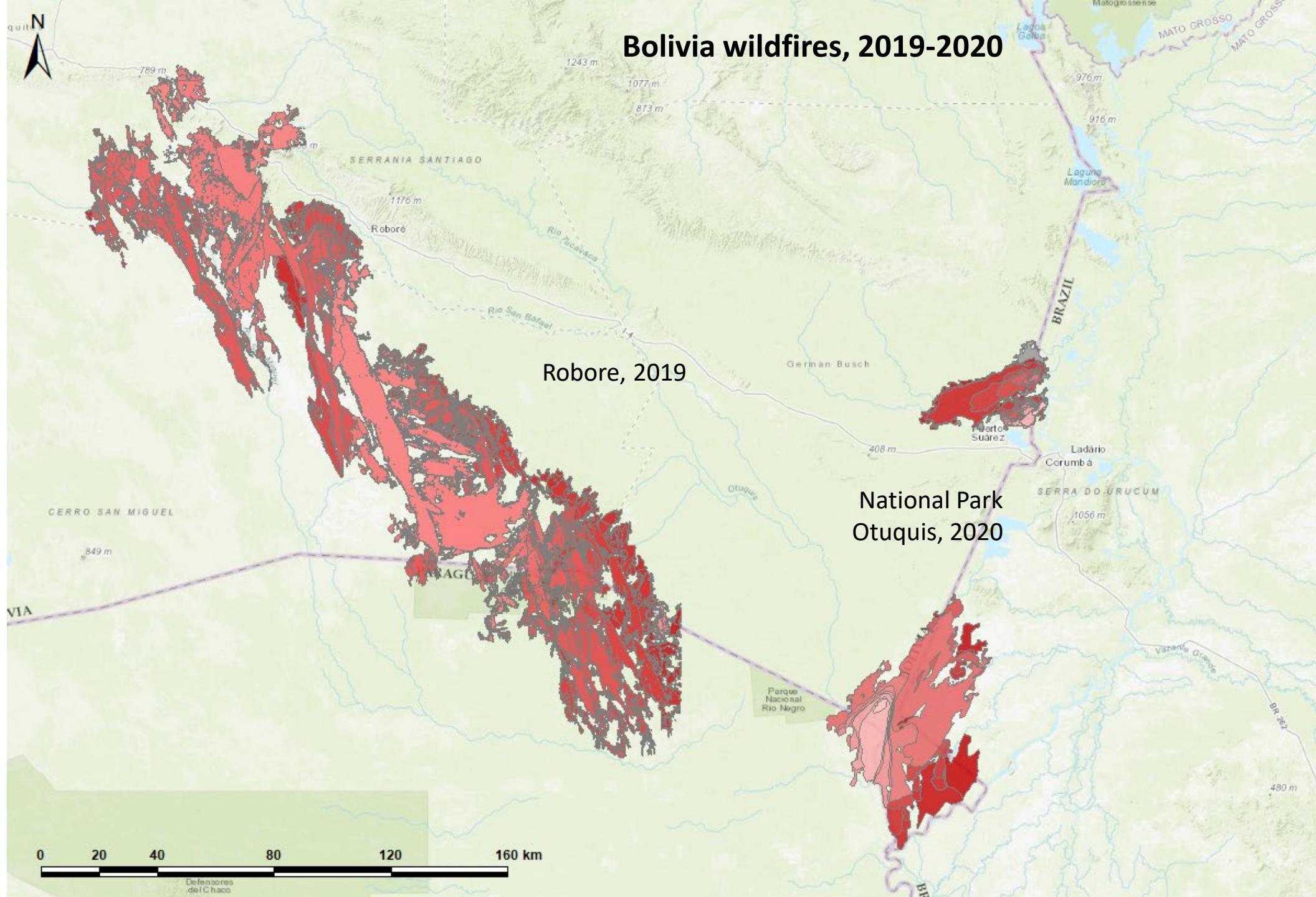




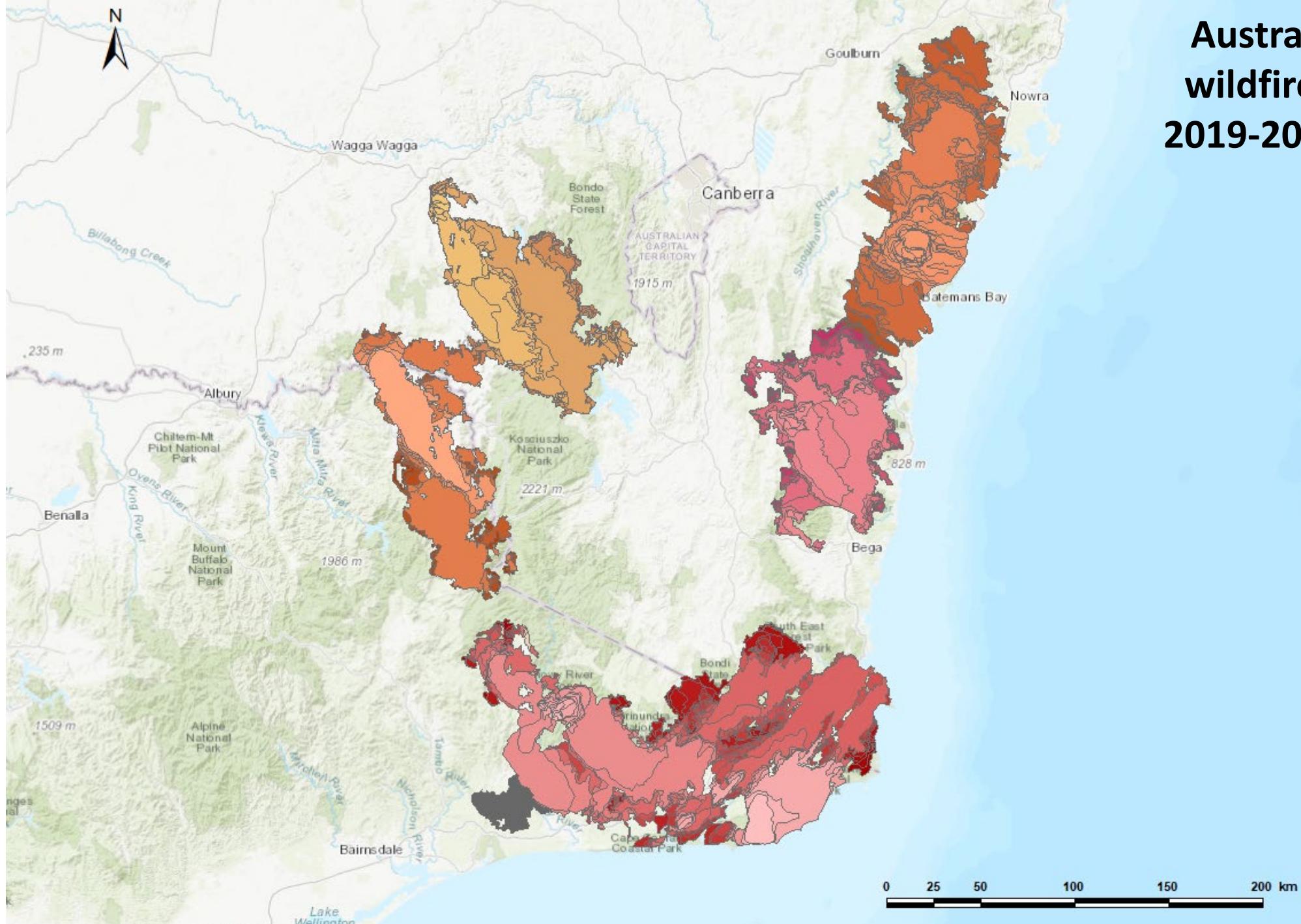




Bolivia wildfires, 2019-2020

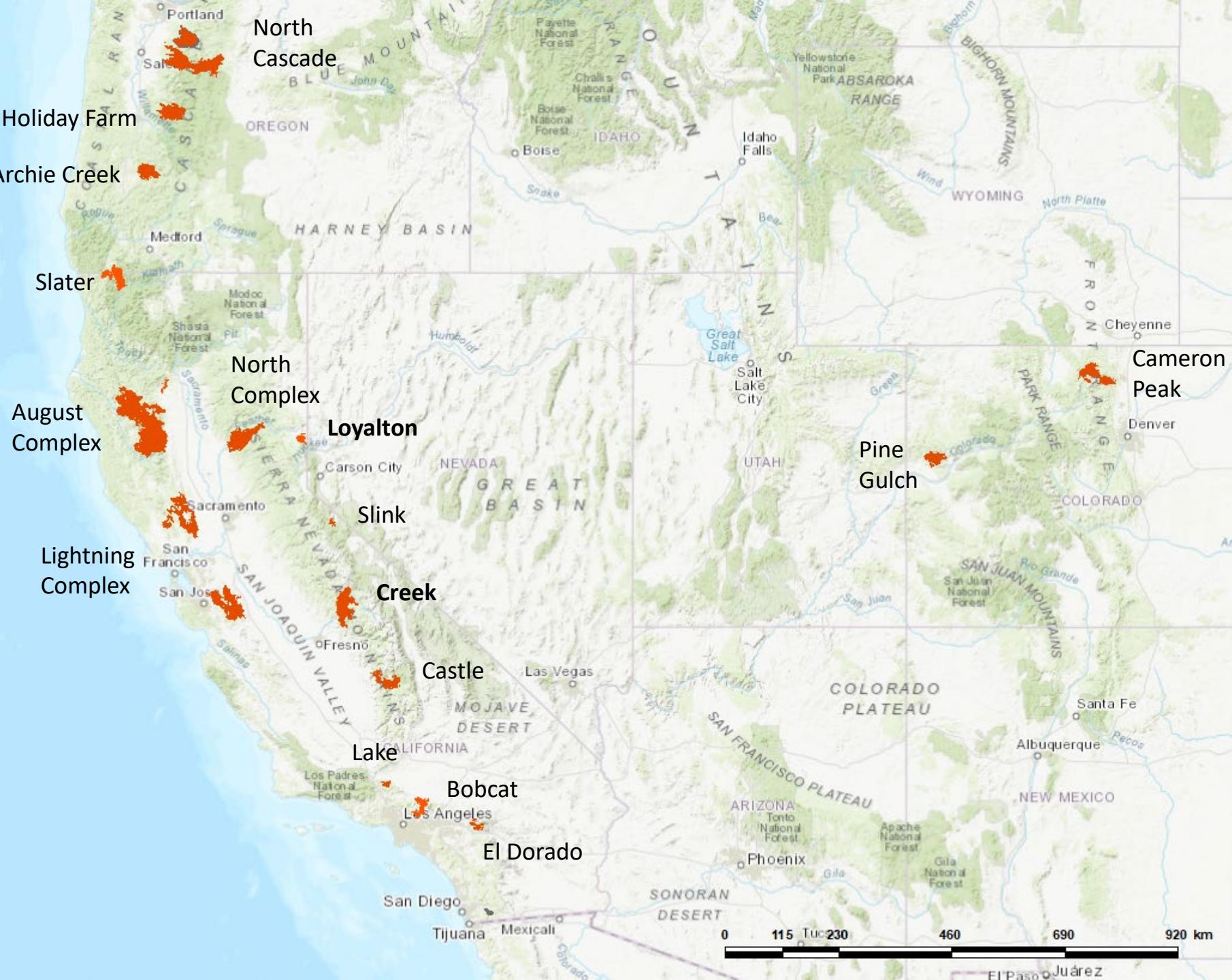


Australia wildfires, 2019-2020

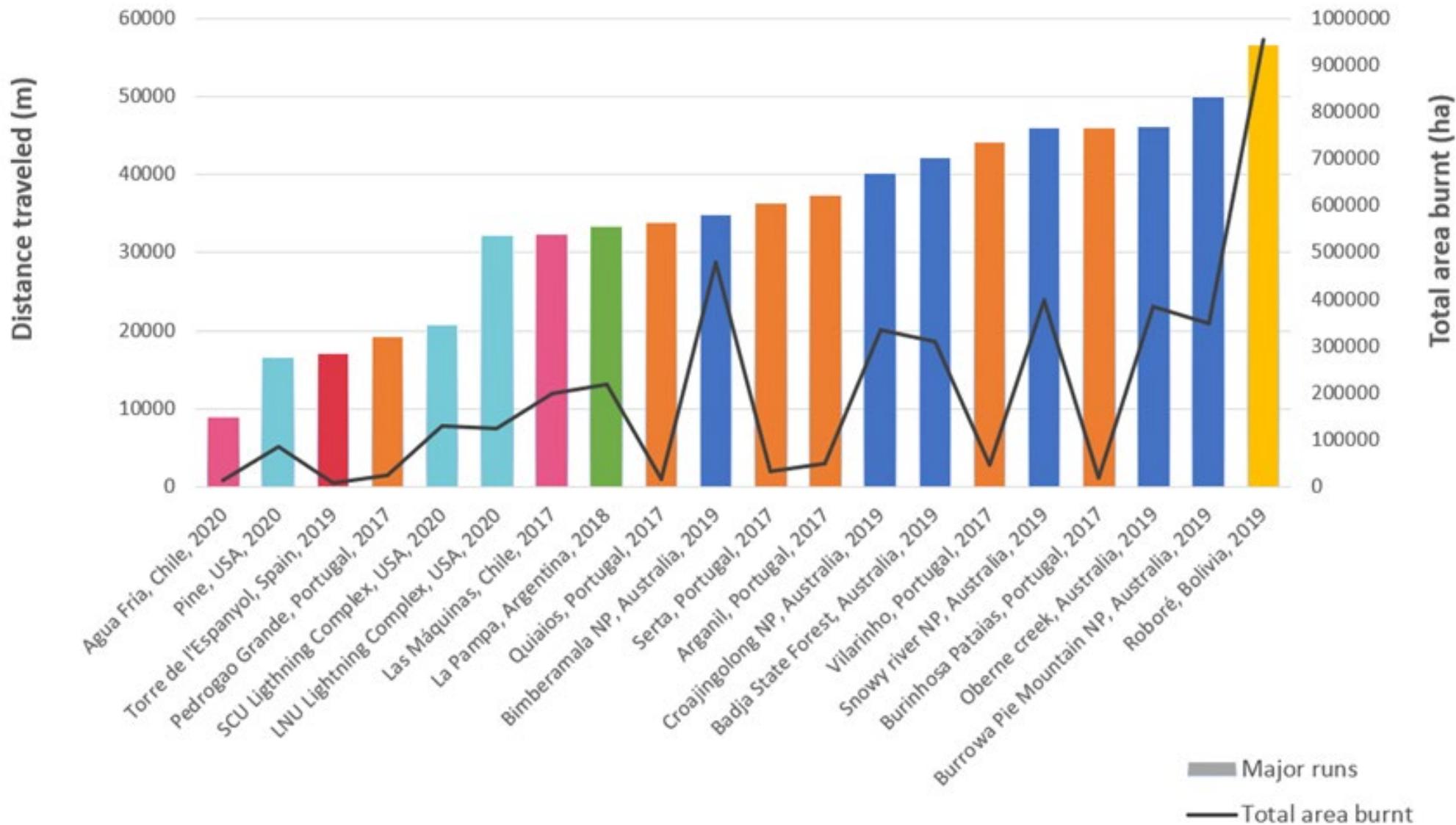


California, Oregon and Colorado wildfires, 2020

N

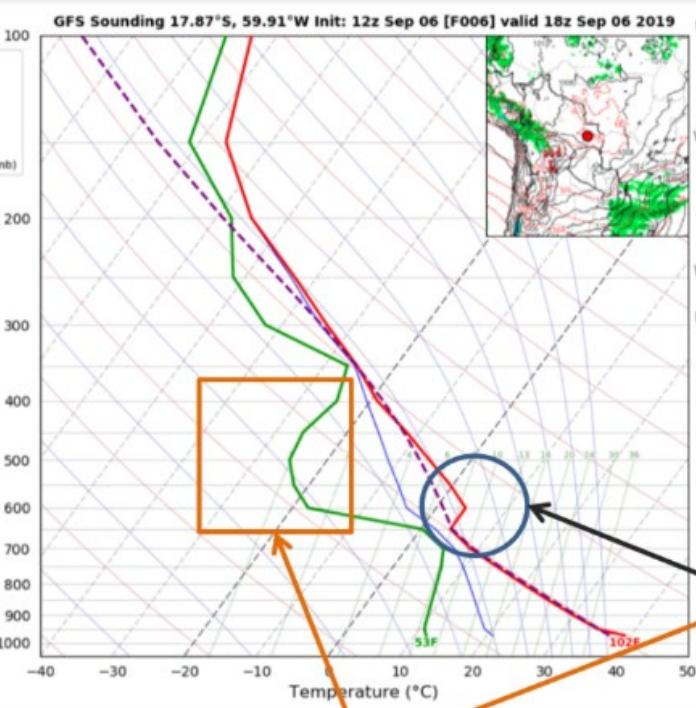


Global fire complex major runs in 12 hs (m)

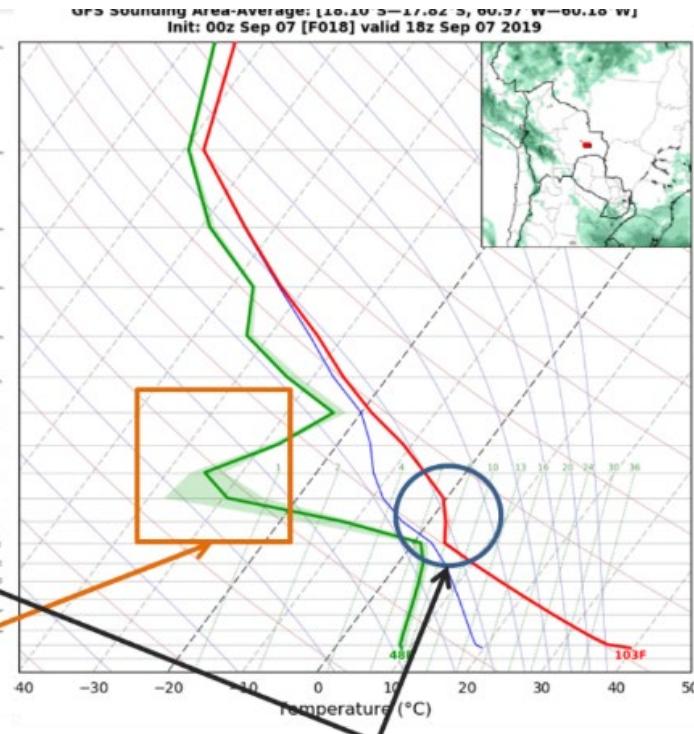




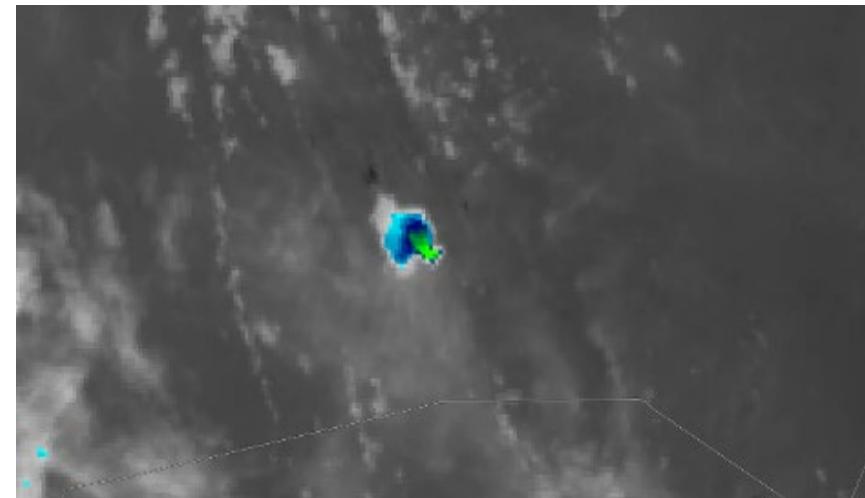
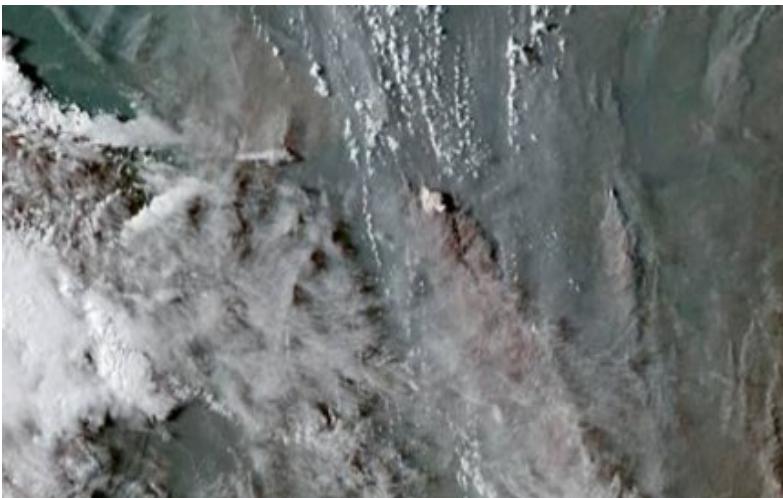
Source: Comissão Técnica Independente. 2018b.*

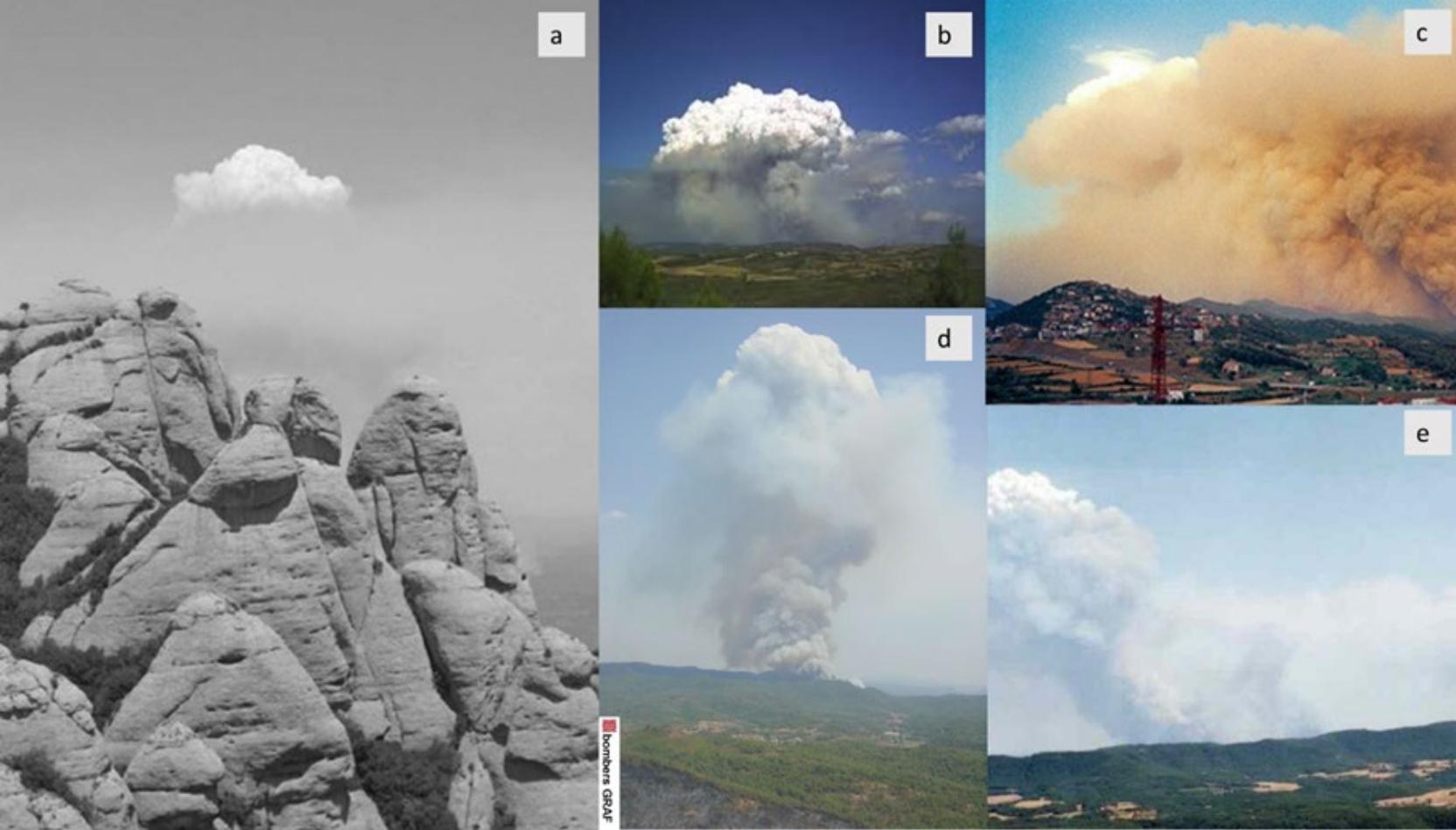


Aire más seco en altura para el
día 7



Capa de estabilidad más débil para el día 7

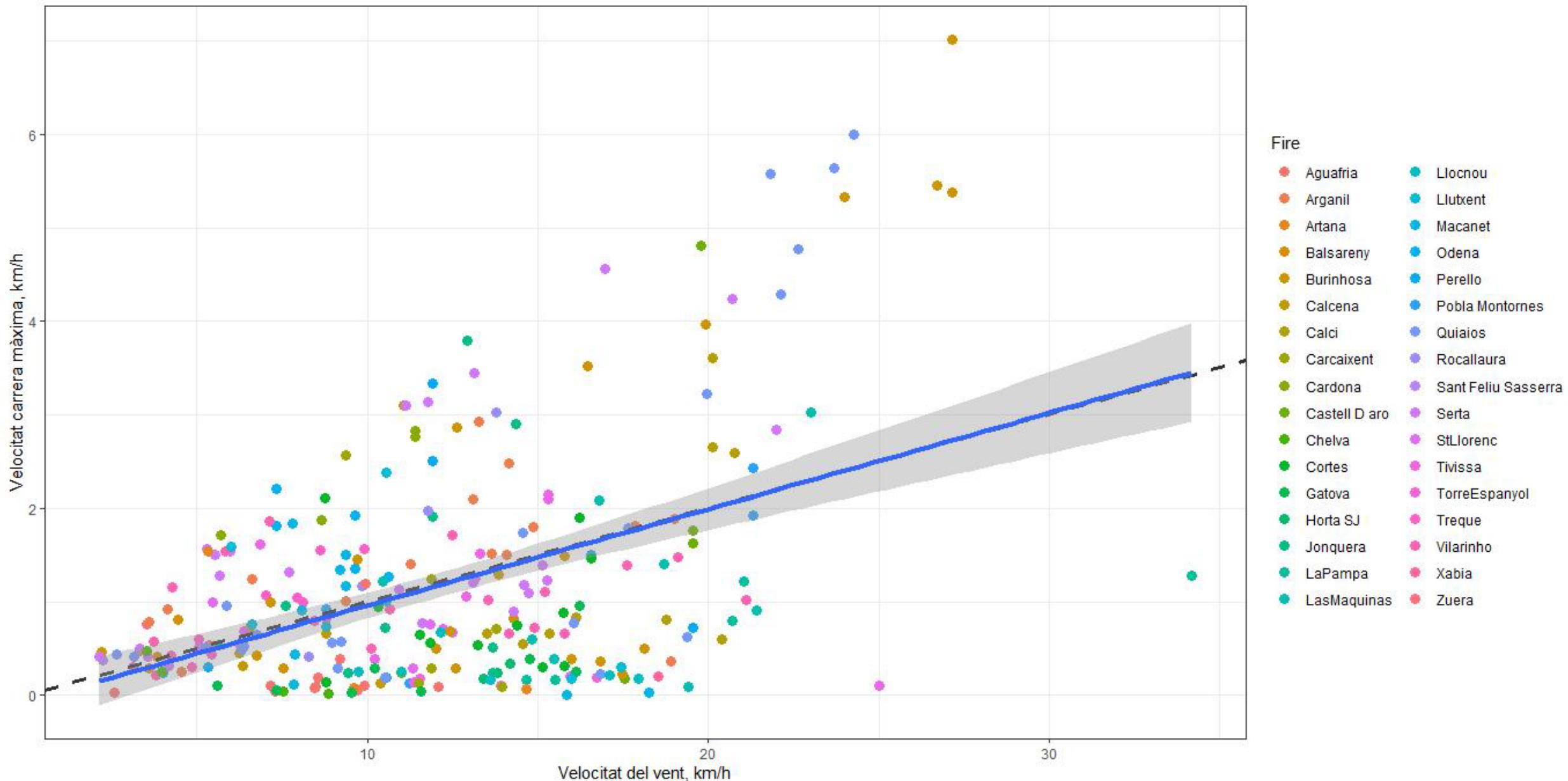




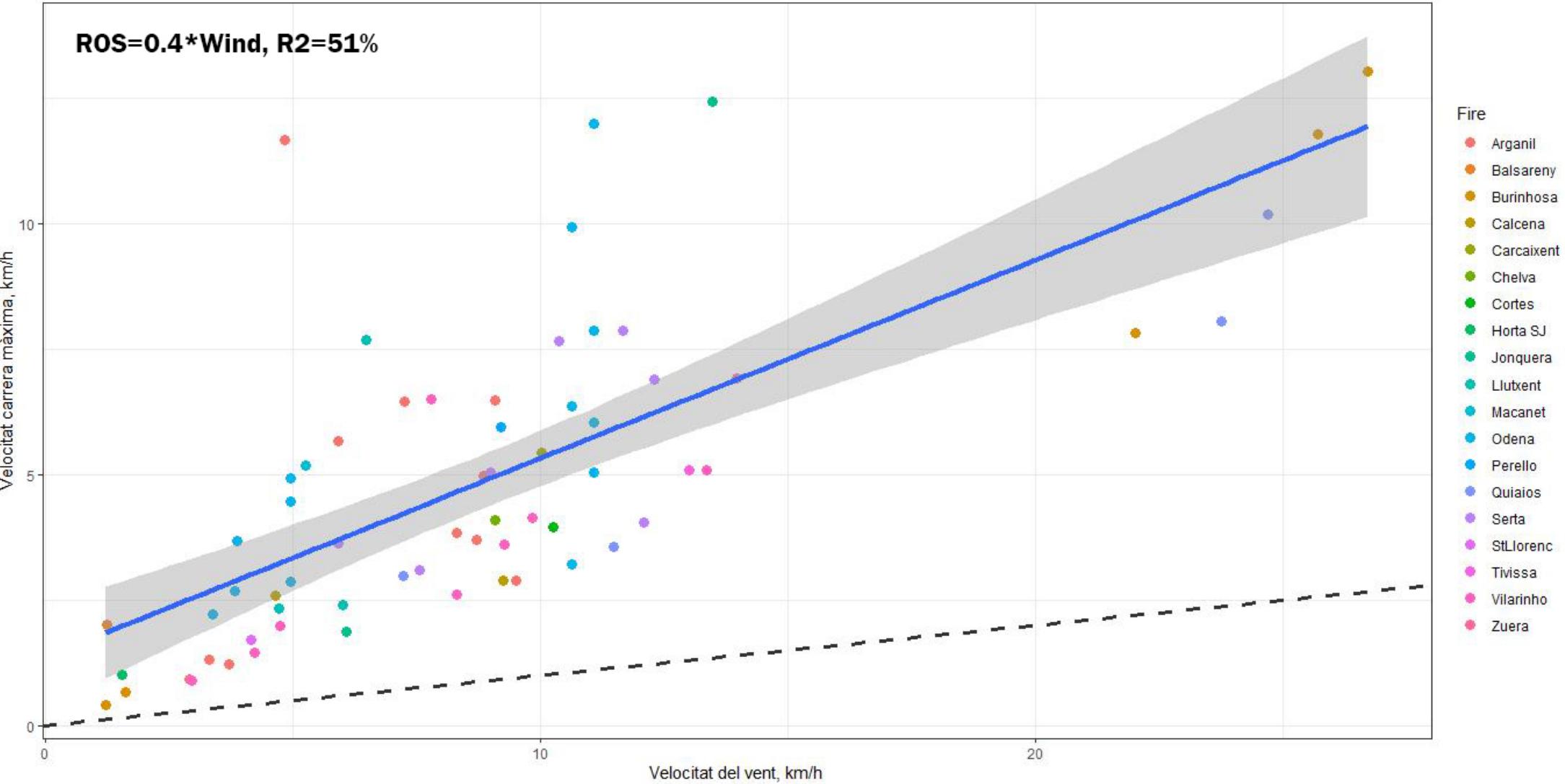
Històrics: Grans incendis excepcionals

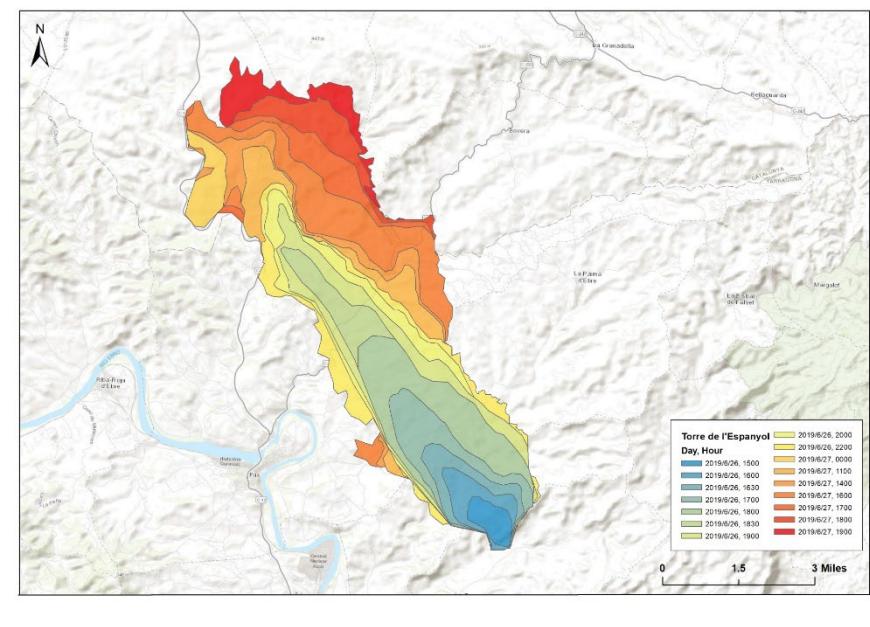


2021: Tots i cada un dels incendis

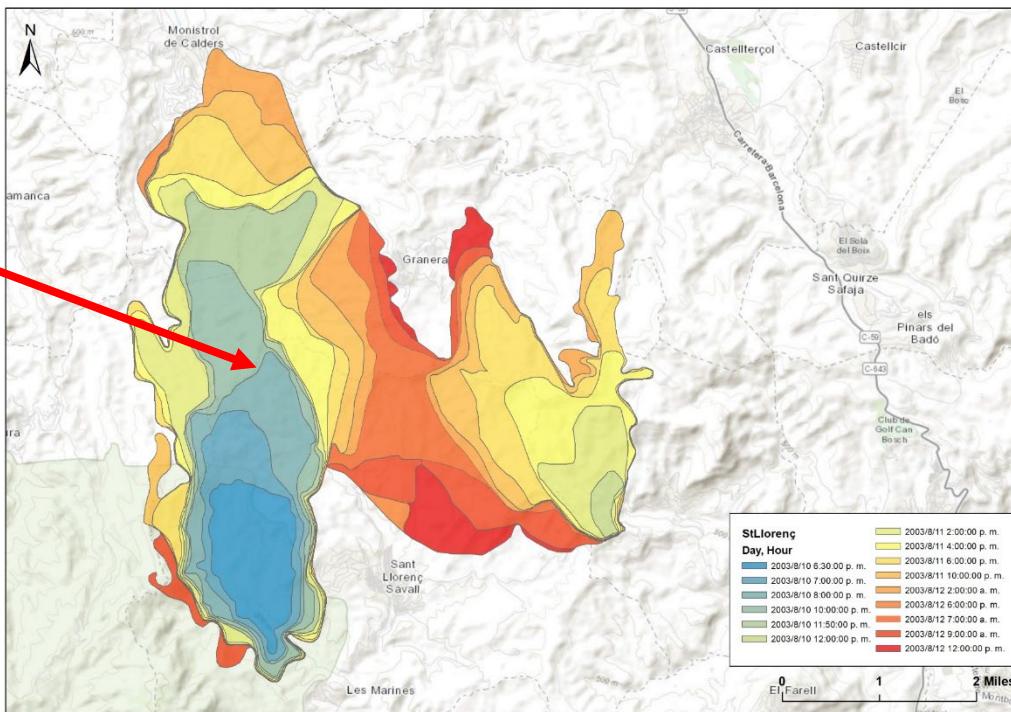
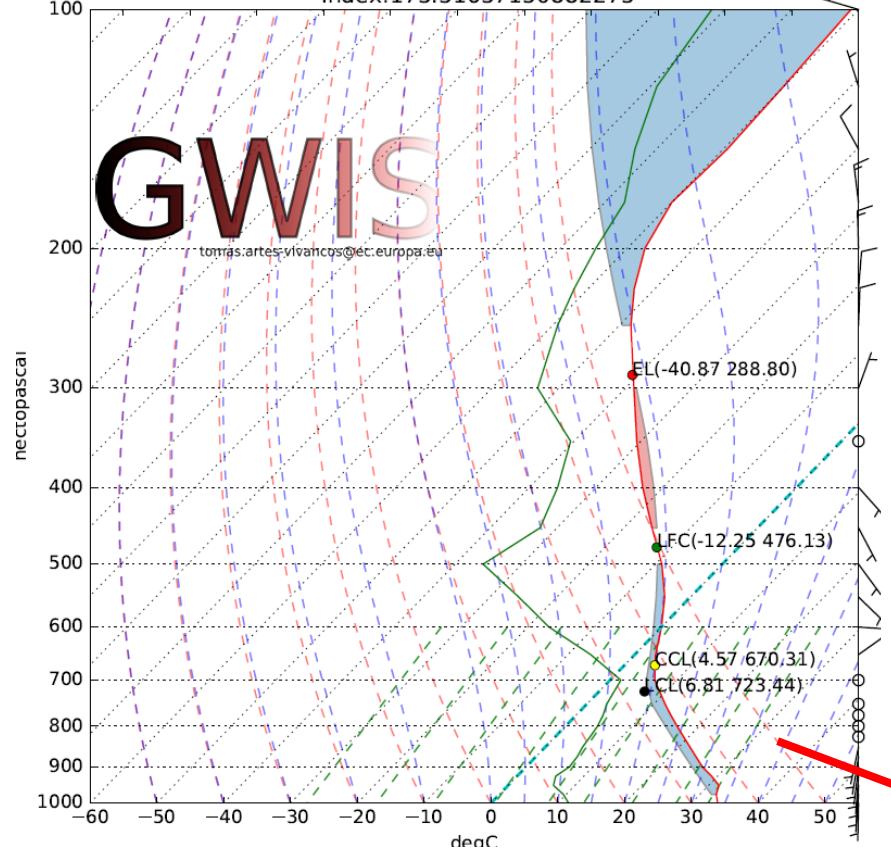


Carreres en moments extrems

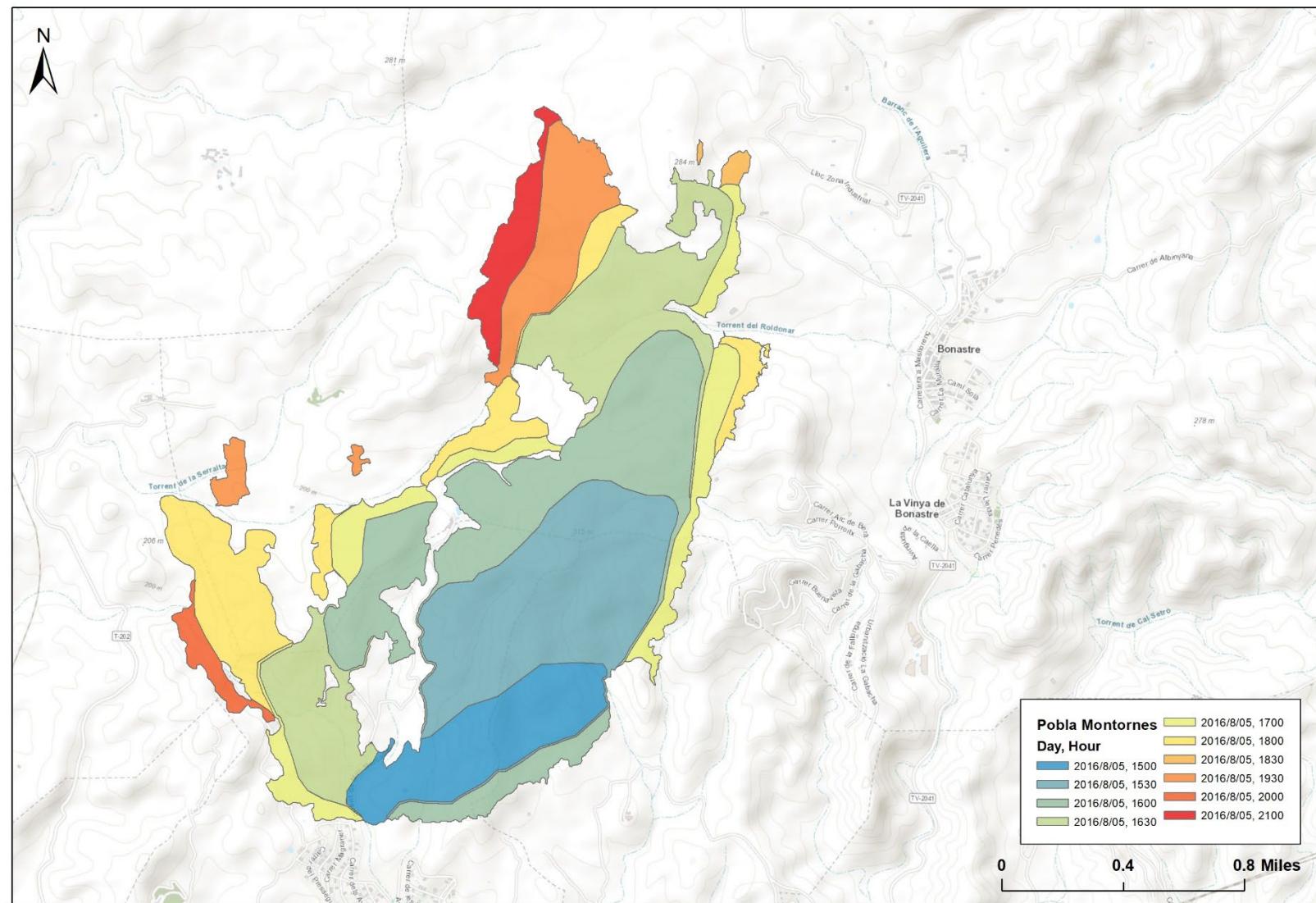
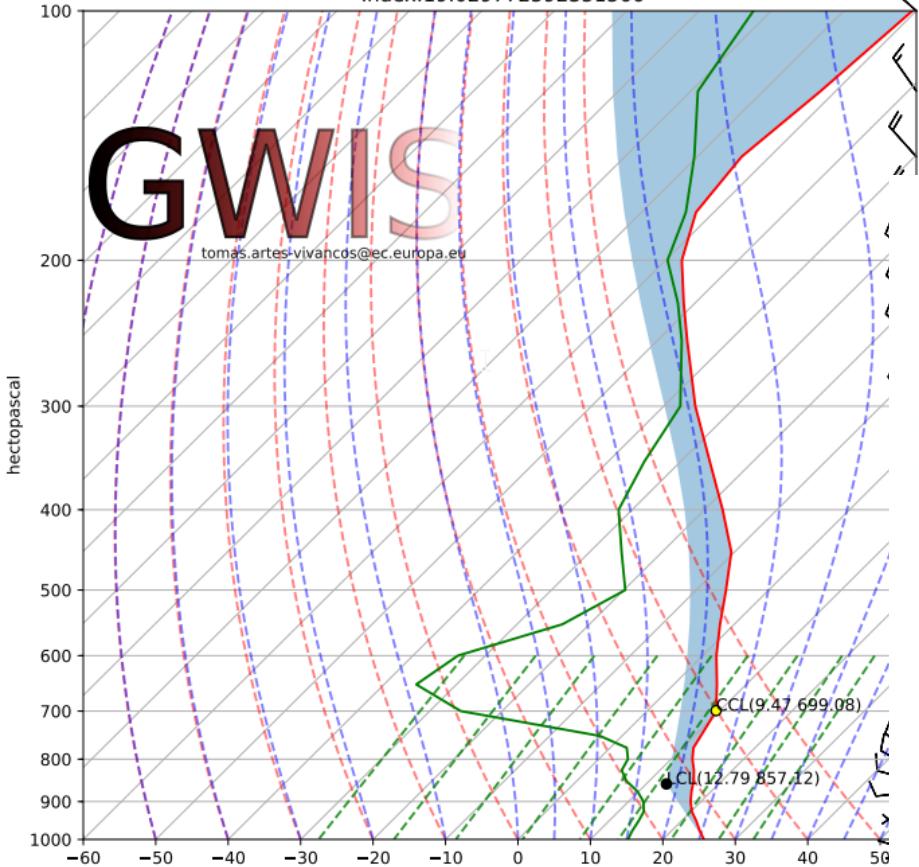


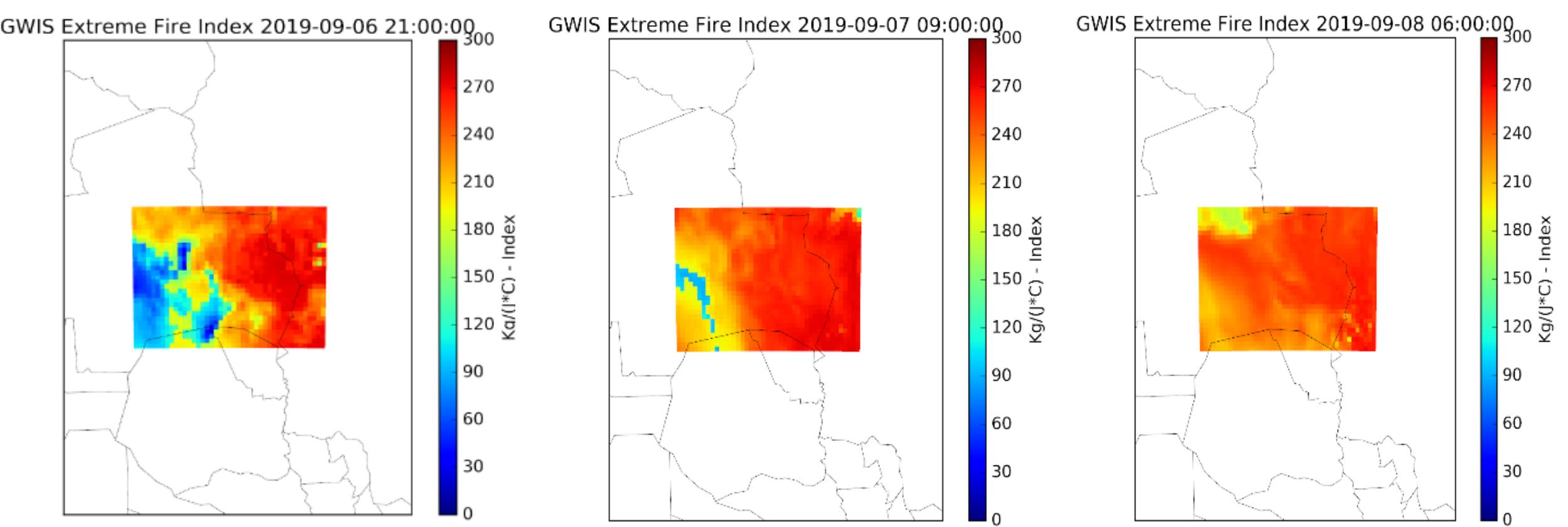


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GWIS

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