



climate and human pressure.

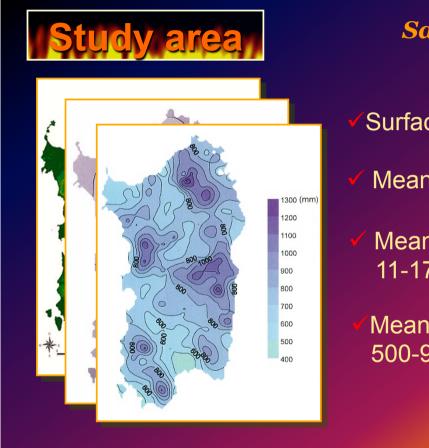


To propose a method for relating fire occurrence in time and space to its main biophysical and anthropogenic drivers









Sardinia

✓ Surface: 24098 km²

- ✓ Mean altitude: 338 m
- Mean temperature: 11-17°C

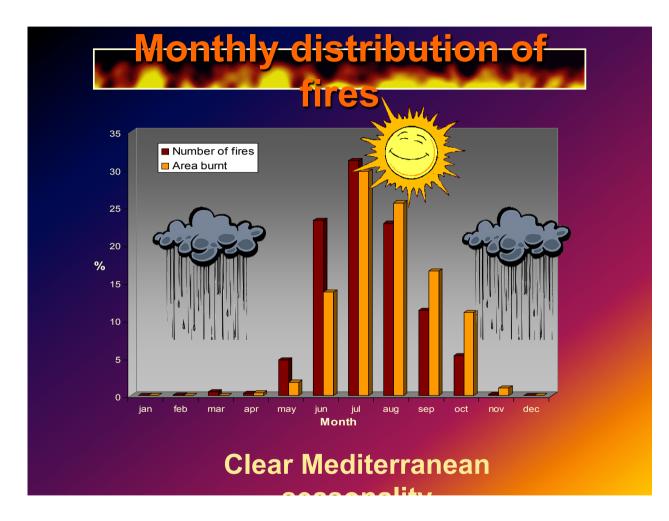
Mean precipitations: 500-900 mm

Wildfire database

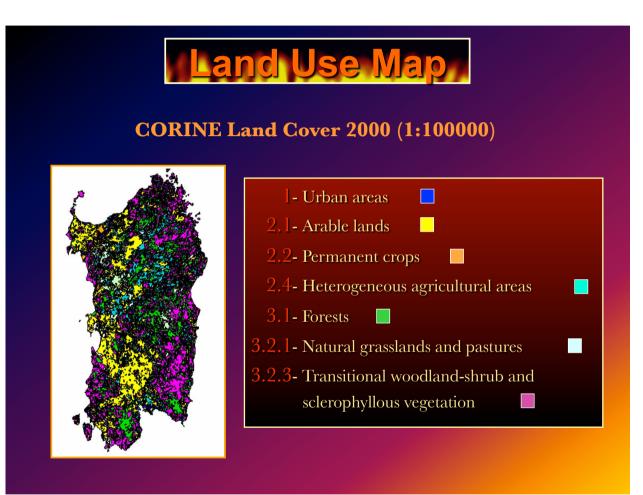
38.217 fires from 2000 to 2013; total burnt area > 200.000 ha

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	A	B	C		D	E	F		G	Н		j	
1	ANNO	DATA	COMUNE		LONG	LAT	UTM		BOSCO	PASCOLO	ALTRO	TOTALE	
2	2000	10/02/2000	JERZU		547100	4403900	NK 471	039	0.7000	0.0000	0.0000	0.7000	
3	2000	15/02/2000	JERZU		549100	4403500	NK 491	035	0.7000	0.0000	0.0000	0.7000	
4	2000	20/02/2000	TERTENIA		548300	4397900	NJ 483	979	0.1000	0.0000	0.0000	0.1000	
5	2000	20/02/2000	BARISARDO		553100	4410700	NK 531	107	1.0000	0.0000	0.0000	1.0000	
6	2000	20/02/2000	ALGHERO		442100	4499200	MK 421	992	0.0000	9.0000	0.0000	9.0000	
7	2000	02/03/2000	TEULADA		476500	4311700	MJ 765	117	0.0000	0.0000	6.0000	6.0000	
8	2000	09/03/2000	DORGALI		550500	4464400	NK 505	644	0.0000	0.0000	0.1200	0.1200	
9	2000	09/03/2000	TONARA		515900	4427800	NK 159	278	0.1000	0.0000	0.0000	0.1000	
10	2000	10/03/2000	LOCERI		548800	4412200	NK 488	122	0.3000	0.0000	0.0000	0.3000	
11	2000	10/03/2000	ALGHERO		436800	4493200	MK 368	3 932	0.0150	0.0000	0.0000	0.0150	
12	2000	12/03/2000	AGLIENTU		505700	4531300	NL 057	313	0.0000	0.0000	0.6000	0.6000	
13	2000	12/03/2000	SANTADI		478800	4327200	MJ 788	272	0.0000	0.0000	0.0600	0.0600	
14	2000	12/03/2000	SILIQUA		484100	4342900	MJ 841	429	0.0000	0.0000	0.0300	0.0300	
15	2000	13/03/2000	DESULO		520700	4430900	NK 207	309	2.5000	0.0000	0.0000	2.5000	
16	2000	13/03/2000	ALGHERO		440900	4502500	ML 409	025	0.0000	0.0000	0.0400	0.0400	
17	2000	13/03/2000	PATTADA		507300	4487400	NK 073	874	0.0000	0.0000	3.0000	3.0000	
18	2000	16/03/2000	BULTEI		504600	4479500	NK 046	795	0.0000	2.0000	0.0000	2.0000	
19	2000	19/03/2000	OLBIA		550700	4527700	NL 507	277	0.1000	0.0000	0.0000	0.1000	
20	2000	23/03/2000	ORANI		516800	4455200	NK 168	552	1.0000	0.0000	0.0000	1.0000	
21	2000	24/03/2000	COLLINAS		487100	4390700	MJ 871	907	0.5000	0.3000	0.0000	0.8000	
22	2000	26/03/2000			440800	4495000			0.0000	0.0000	0.5000	0.5000	
23	2000	31/03/2000	VILLACIDRO		474100	4361800	MJ 741	618	0.0150	0.0000	0.0000	0.0150	
24	2000	03/04/2000	IGLESIAS		458200	4349100	MJ 582	491	0.5000	0.0000	0.5000	1.0000	~
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Pror	to										NUM		

For each wildfire: Date of ignition Coordinates of the ignition point Size in Hectares

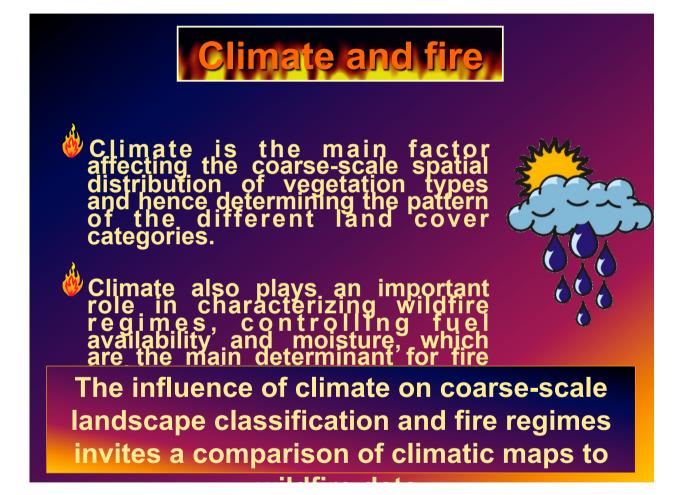


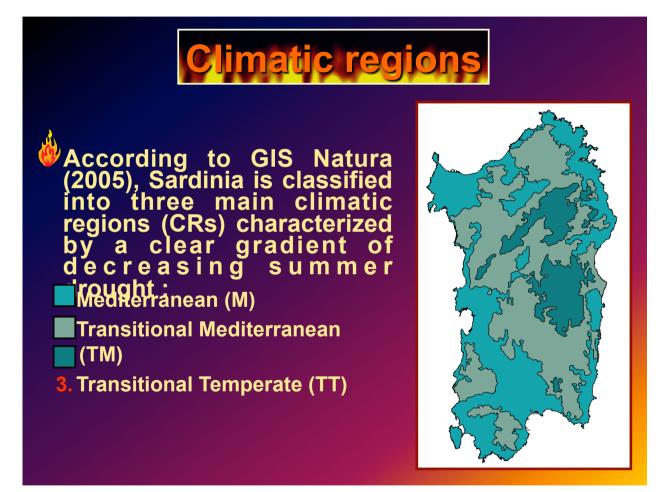


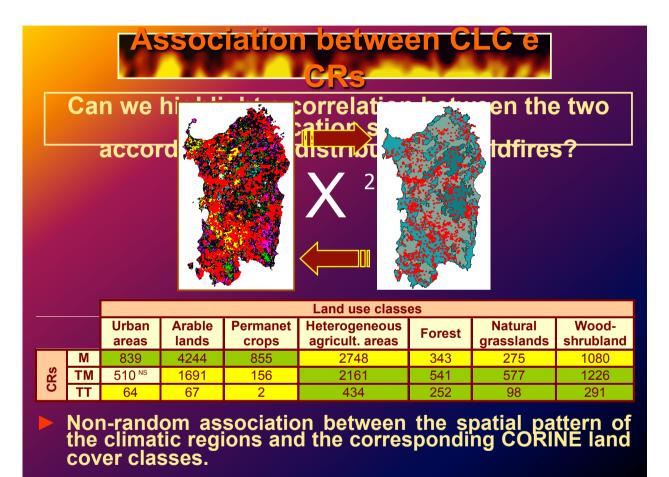


	elec and		number
For analyzing fire se used a randomiza Number of fires and bu tested separa	Number		
CORINE Land Cover classes	Burnt surface	Number of fires	
1. Urban areas	-	+	
2.1. Arable lands	+	+	
2.2. Permanent crops	-	+	
2.4. Heterogeneous agric. areas	-	+	
3.1. Forests	-	-	
3.2.1. Natural grasslands/ pastures	+	-	
3.2.3. Sclerophyllous vegetation	+	-	

Wildfires selectivity: date of ignition								
CORINE Land Cover classes	Ignition date	Day of Ignition						
1. Urban areas	E	July 19 th						
2.1. Arable lands	E	July 21 st						
2.2. Permanent crops	E	July 20 th						
2.4. Heterogeneous agric. areas	E	July 23 rd						
3.1. Forests	L	July 27 th						
3.2.1. Natural grasslands/ pastures	L	August 13 th						
3.2.3. Sclerophyllous vegetation	L	August 1 st						







Control of bioclimatic factors over land use

