Видови штети од шумските пожари

Никола Николов, Проф. Д-р
Шумарски факултет-Скопје

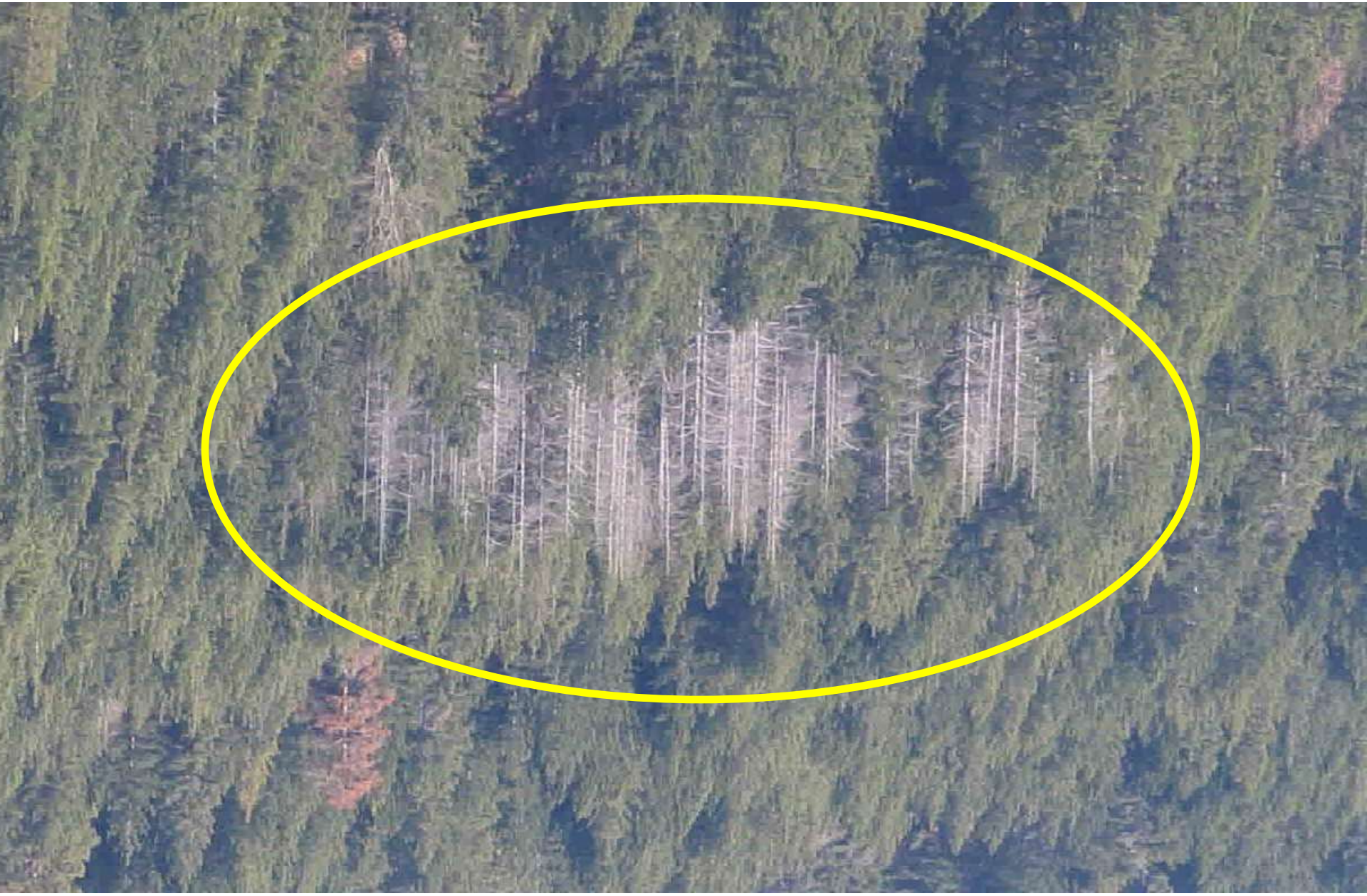
I - Влијание врз здравјето на луѓето, инфраструктурата и економијата

Човечки жртви во Македонија
Стумица-2012
4 жртви

II - Влијание на пожариште врз шумата и земјиштето :

1. **Деградација**
2. **Обезшумување**
3. **Ерозија на почвата**
4. **Појава на инсекти и болести**
5. **Намалување на биодиверзитет**

6. **Емисија на јаглеродни (CO_2,CO) и други гасови**

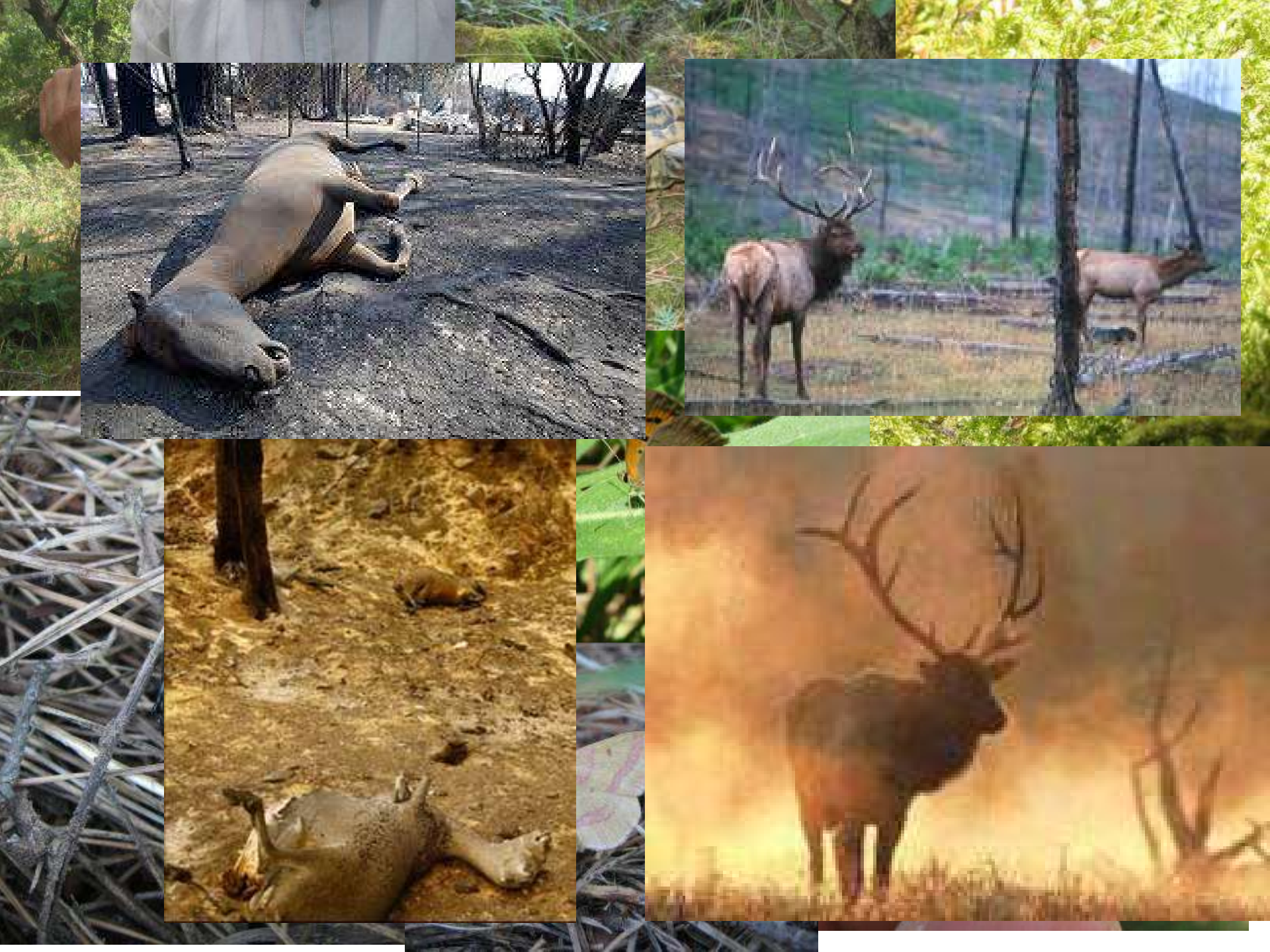



Битола Пред 100 год


Пошумувања 1955-75 год


Пожар 2007


Битола денес



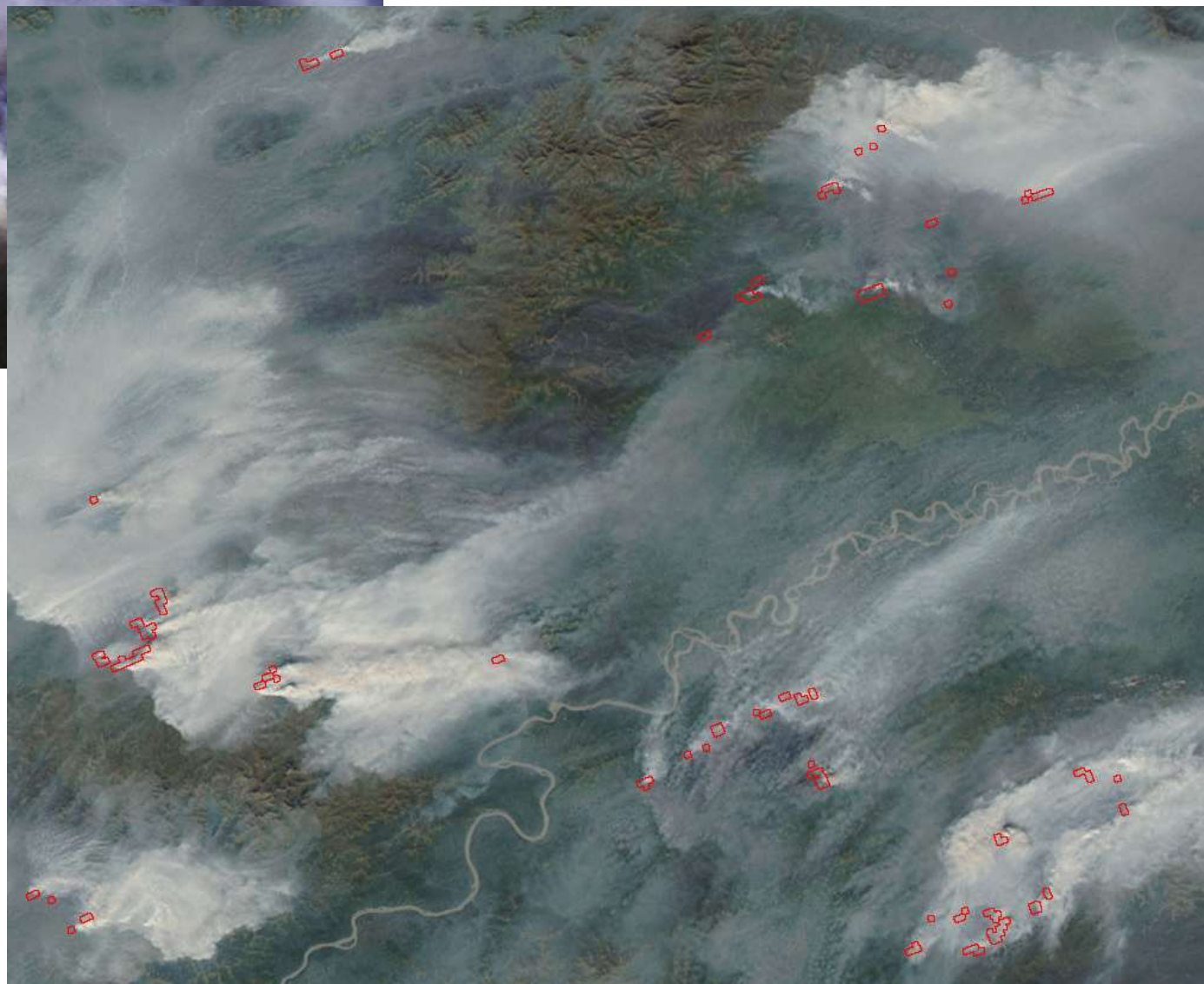
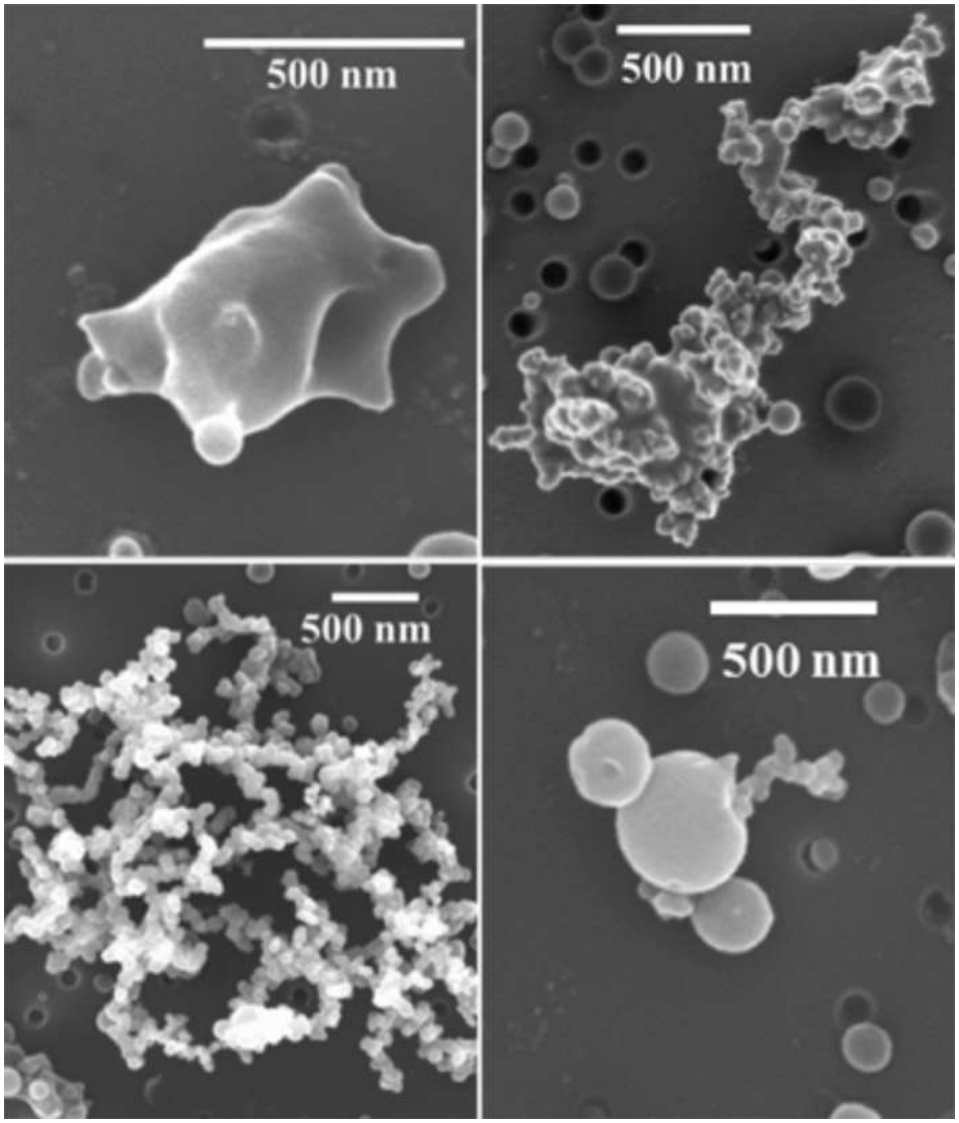


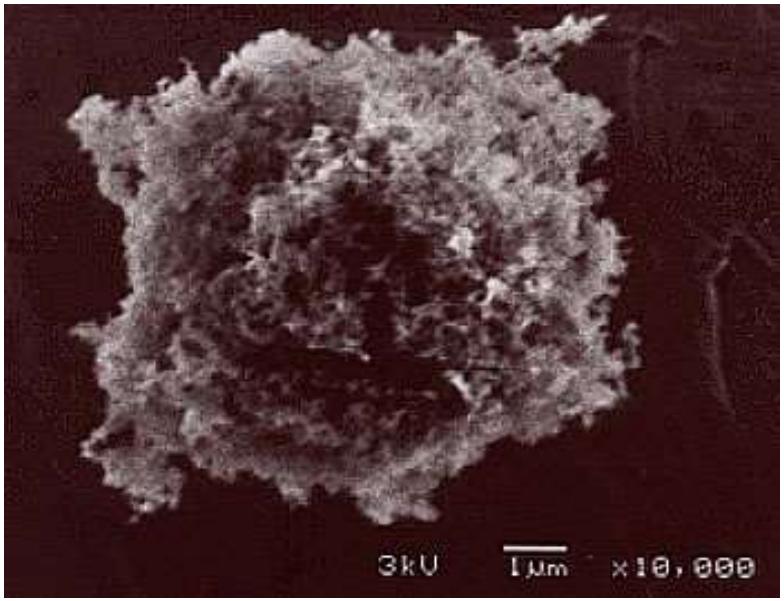
Table 13. Burned biomass and emission estimates from forest fires up to 31 August 2007 by country

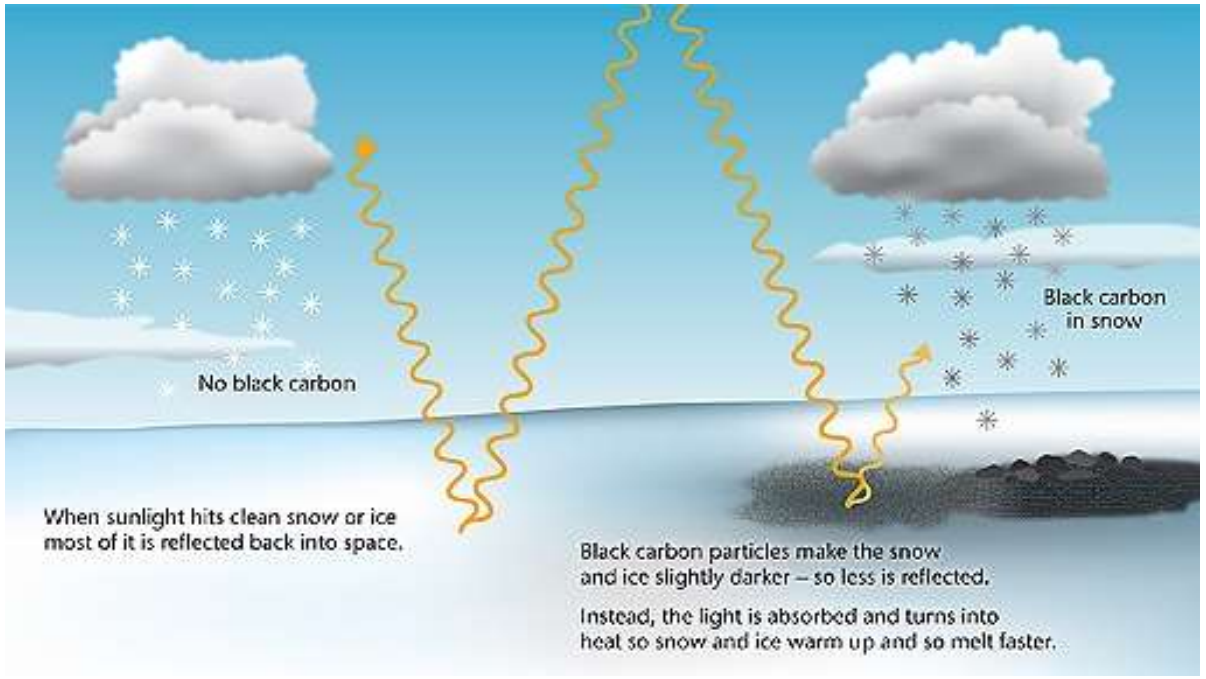
Emission type	Country emissions (10^3 ton)										
	Albania	Bosnia	Bulgaria	Croatia	Cyprus	France	FYROM	Greece	Italy	Portugal	Spain
CO_2	2052.6	1278.7	558.9	248.4	43.1	52.8	474.7	4500.5	1825.8	194.1	1045.1
CO	82.6	50.3	27.6	10.6	1.9	2.2	22.2	188.1	72.3	7.6	43.0
CH_4	4.3	2.6	1.4	0.5	0.1	0.1	1.1	9.7	3.8	0.4	2.2
PM2.5	8.2	5.0	2.6	1.0	0.2	0.2	2.1	18.6	7.2	0.8	4.3
PM10	9.7	6.0	3.1	1.2	0.2	0.3	2.5	21.9	8.6	0.9	5.0
PM	13.6	8.4	4.2	1.7	0.3	0.4	3.5	30.6	12.0	1.3	7.0
NMHC	3.5	2.2	1.1	0.4	0.1	0.1	0.9	7.9	3.1	0.3	1.8
VOC	4.3	2.6	1.3	0.5	0.1	0.1	1.1	9.6	3.8	0.4	2.2
NOX	5.8	3.5	1.9	0.7	0.1	0.2	1.5	13.1	5.0	0.5	3.0
OC	4.9	3.0	1.5	0.6	0.1	0.1	1.2	11.0	4.3	0.5	2.6
EC	0.6	0.4	0.2	0.1	0.0	0.0	0.1	1.3	0.5	0.1	0.3
Burned Biomass (10^3 ton)	1161.3	752.5	328.1	140.8	26.0	31.8	288.3	2703.1	1095.3	116.4	628.6

CO_2 - Carbon Dioxide
CO - Carbon Monoxide
CH_4 - Methane
PM2.5 - 2.5 micron particulate matter
PM10 - 10 micron particulate matter
PM - total particulate matter
NMHC - non-methane hydrocarbon
VOC - volatile organic compounds
NOX - nitric oxide
OC - organic carbon
EC - elemental carbon

“Black carbon” - “Црн јаглерод”






No black carbon
Black carbon in snow
When sunlight hits clean snow or ice most of it is reflected back into space.
Black carbon particles make the snow and ice slightly darker – so less is reflected.
Instead, the light is absorbed and turns into heat so snow and ice warm up and so melt faster.

ПРАШАЊА