

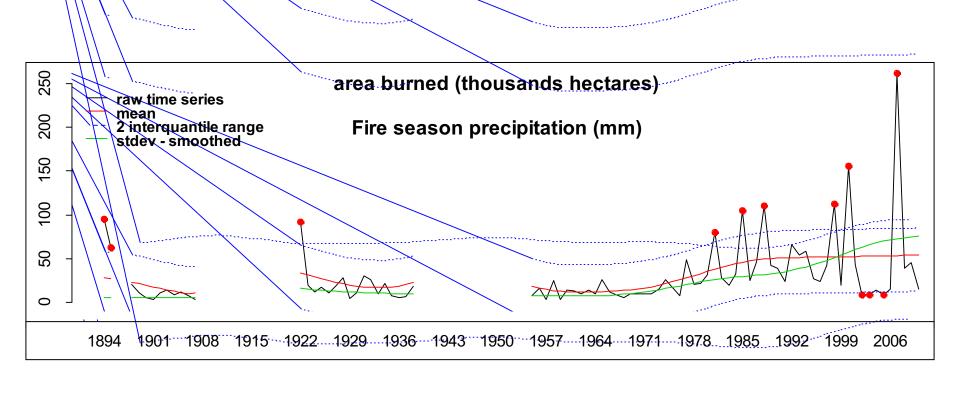


The challenges of European regions - Western Greece

Nikos Koutsias

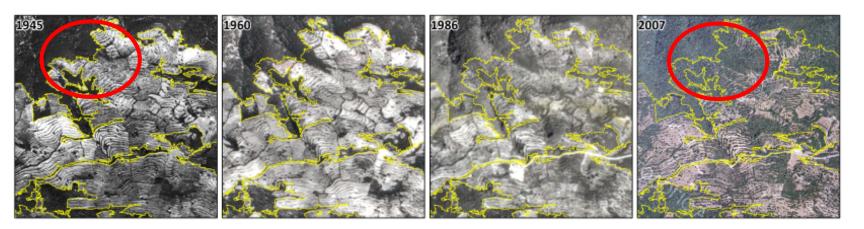
Professor, Department of Sustainable Agriculture, University of Patras nkoutsia@upatras.gr

30th June 2023 | Santiago de Compostela

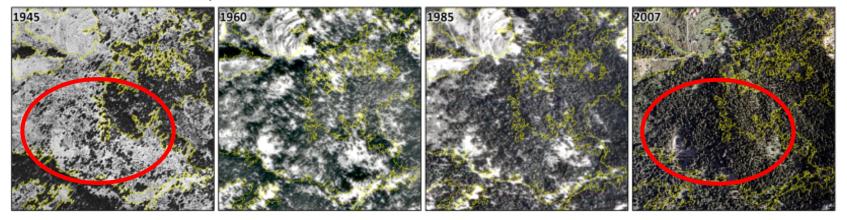


Processes favoring fuel built up

Agricultural abandonment: Here, croplands in terraces are abandoned.

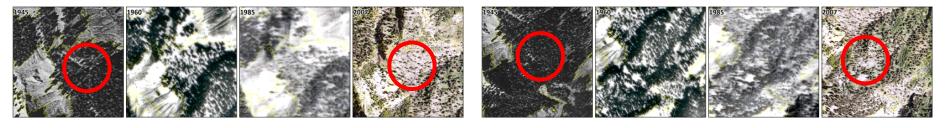


Afforestation: Here, open shrublands is transformed into dense forest

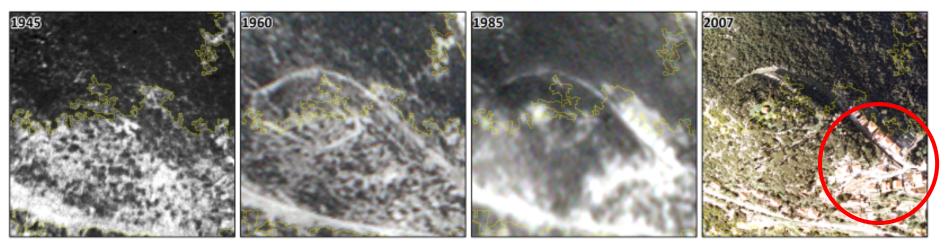


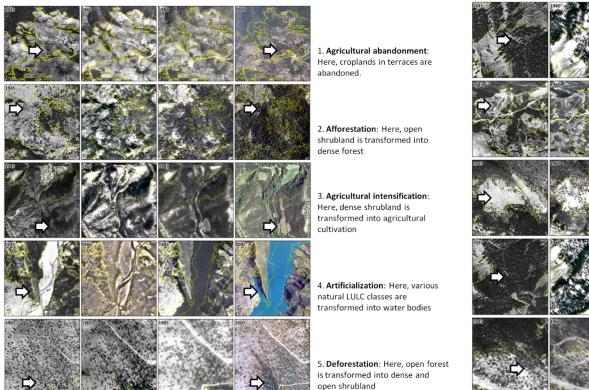
Opposite - Processes

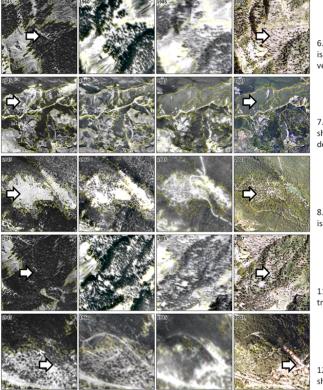
Degradation: Here, dense forest is transformed into sparse vegetation **Thinning**: Here, dense forest is transformed into open forest



Urbanization: Here, dense shrubland is transformed in urban Wildland Urban Interface (WUI)







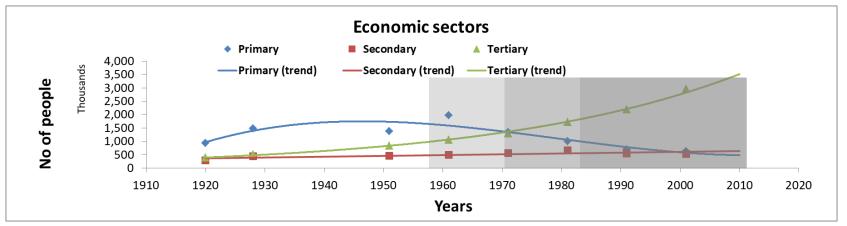
6. **Degradation**: Here, dense forest is transformed into sparse vegetation

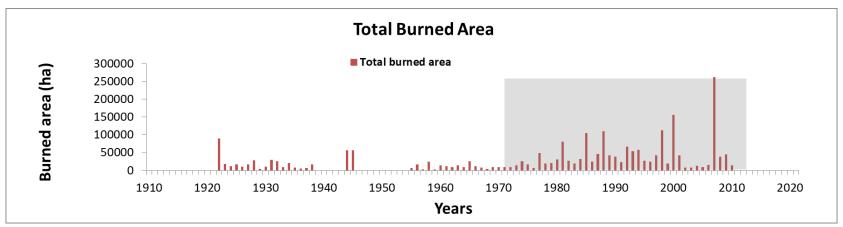
7. **Densification**: Here, open shrubland is transformed into dense shrubland

8. **Encroachment**: Here, grassland is transformed into shrubland

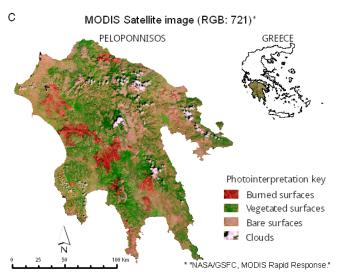
11. **Thinning**: Here, dense forest is transformed into open forest

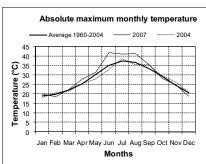
12. **Urbanization**: Here, dense shrubland is transformed in urban

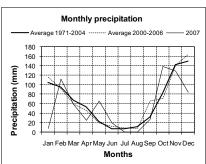


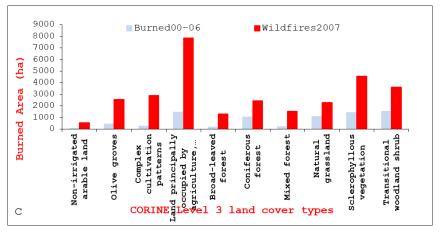


2007 large fires in the Peloponnese (Greece) - Synergy of fuel and weather





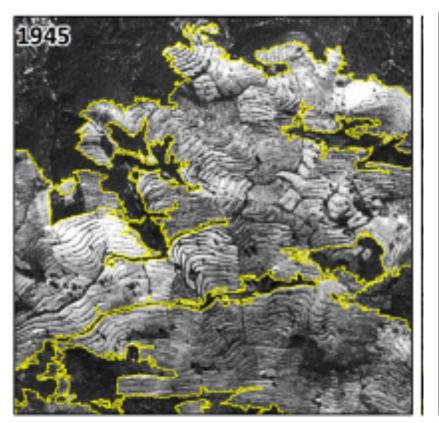


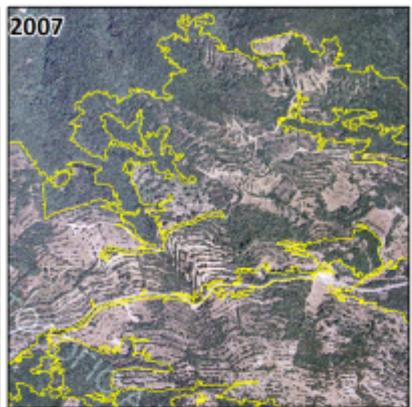




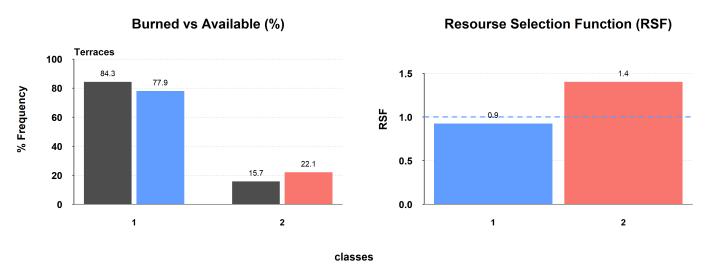
Koutsias N, Arianoutsou M, Kallimanis AS, Mallinis G, Halley JM, Dimopoulos P (2012) Where did the fires burn in Peloponnisos, Greece the summer of 2007? Evidence for a synergy of fuel and weather. Agricultural and Forest Meteorology 156:41-53

Agricultural abandonment: Here, croplands in terraces are abandoned.





Selectivity of Burned Areas on Terraces classes (Andros)



1 Other

2 Terraces

Terraces abandonment: Environmental and Cultural losses



Thank you for your attention