

Archaeological and cultural heritage as an strategic element in wildfire prevention for Atlantic Iberia: “Paleointerfaz”

Juan Picos – University of Vigo

Webinar on Landscape
management smart solutions
for wildfire risk mitigation

Wednesday 24 March 2021 (10-12:30h CET)

Format: Online

Join the activity:

<https://us02web.zoom.us/j/87368096156>

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Paleointerfaz : *Palaeointerface*

- **palaeo-** (in nouns, adjectives and adverbs) “connected with ancient times” from Greek *palaios* παλαιός ‘ancient’
- **interface** *noun* (between A and B) “the point where two subjects, systems, etc. meet and affect each other”





Paleointerfaz : *Palaeointerface*

Project funded by Spanish National Programme for Research Aimed at the Challenges of Society

ref: PID2019-111581RB-I00 (2020 – 2024)

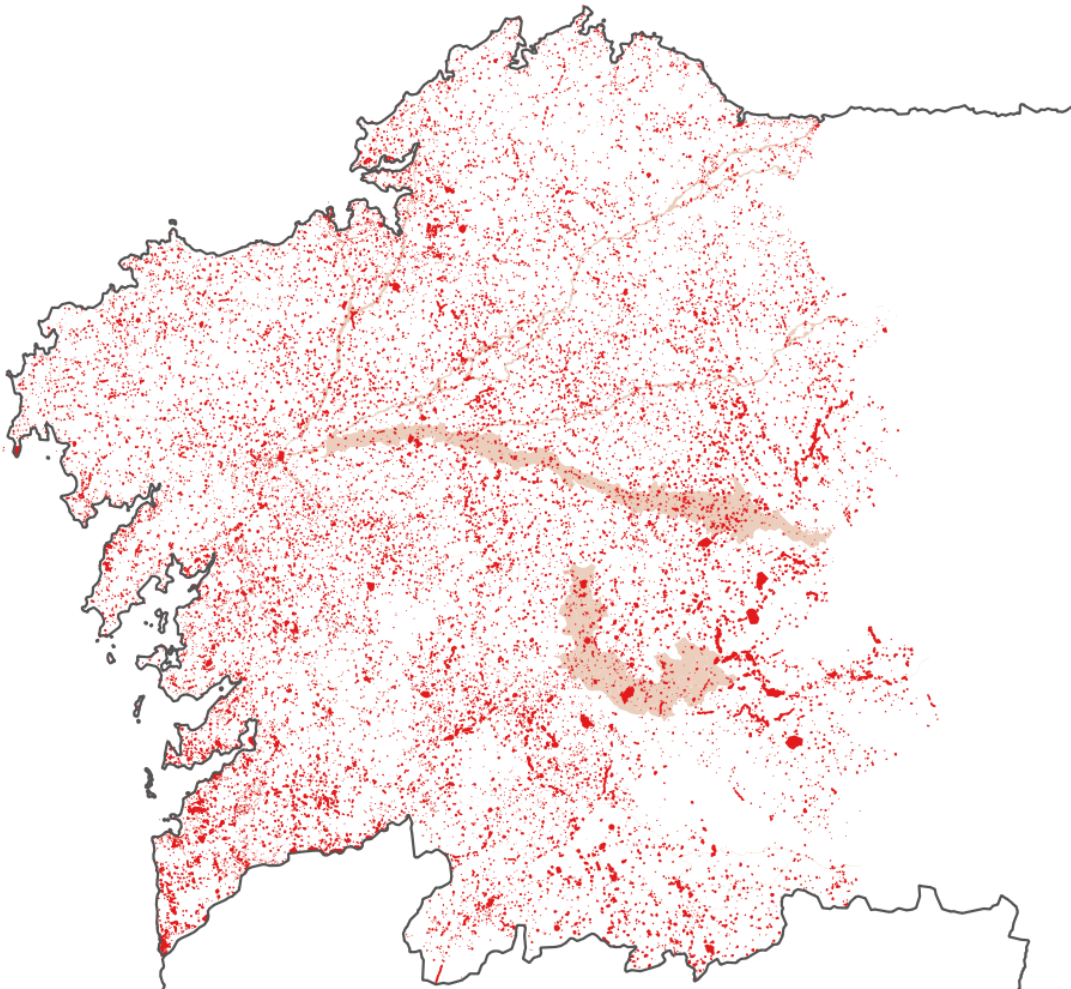
Main Researcher: JULIA ARMESTO GONZÁLEZ

Research Team: Juan Picos, Antonio Vaamonde, Domingo Molina, Pilar Muñoz,
Laura Alonso, Faustino Patiño, Fernando Carrera





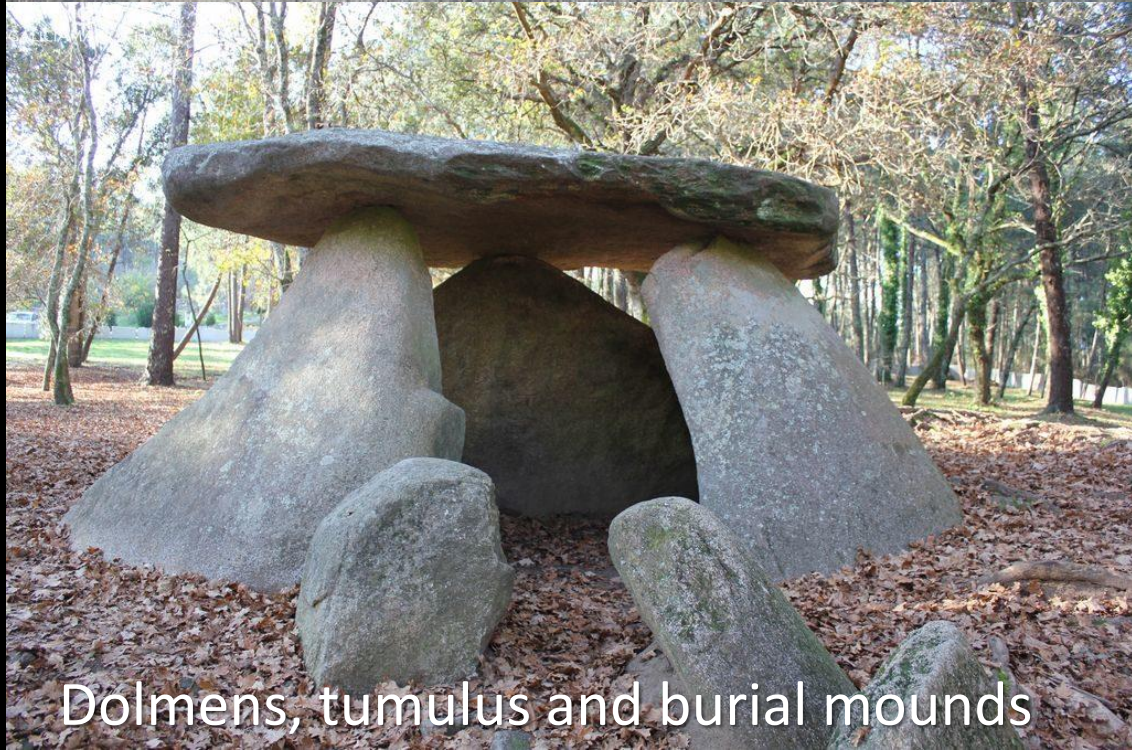
Galicia (NW Spain) shelters thousands of archaeological sites, mostly in rural and forest areas



Petroglyphs



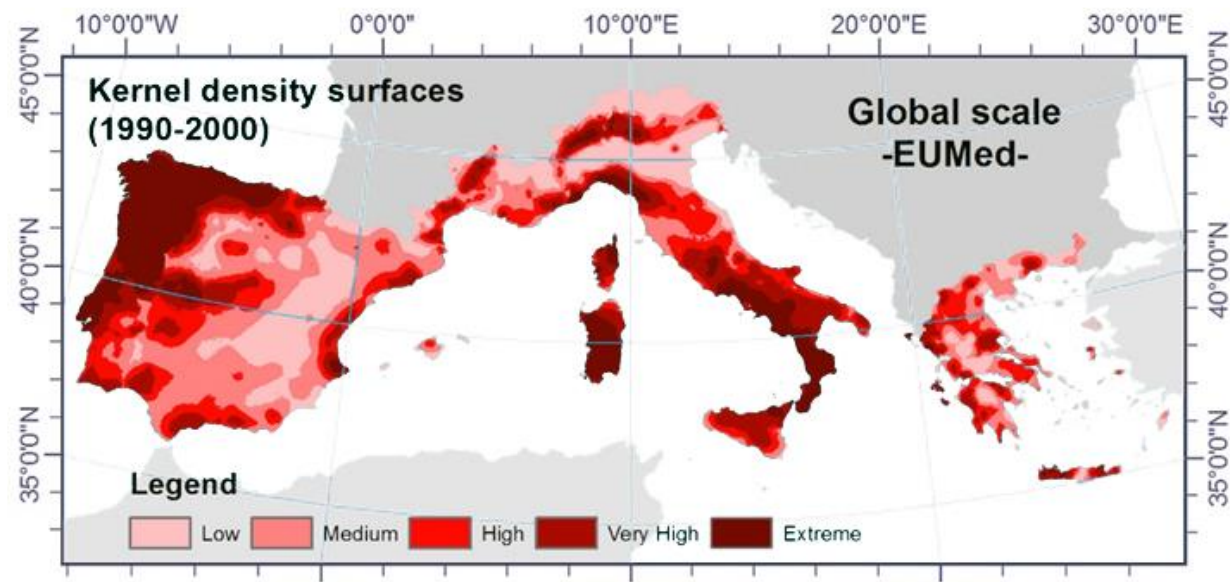
Hillforts



Dolmens, tumulus and burial mounds

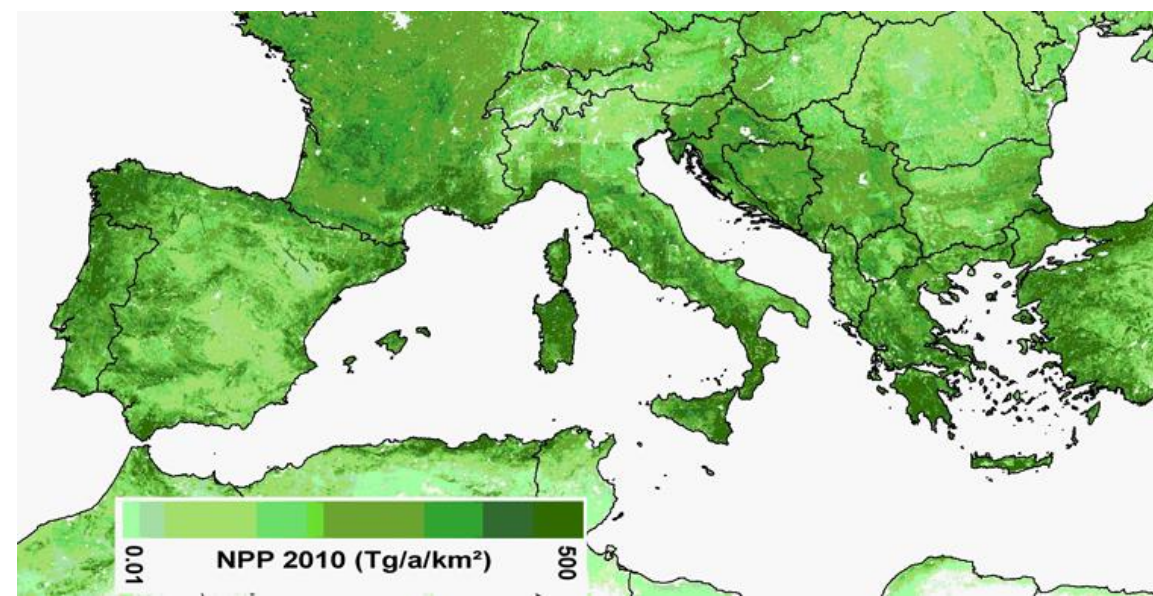


Other (wolves pits, roads, walls,...)



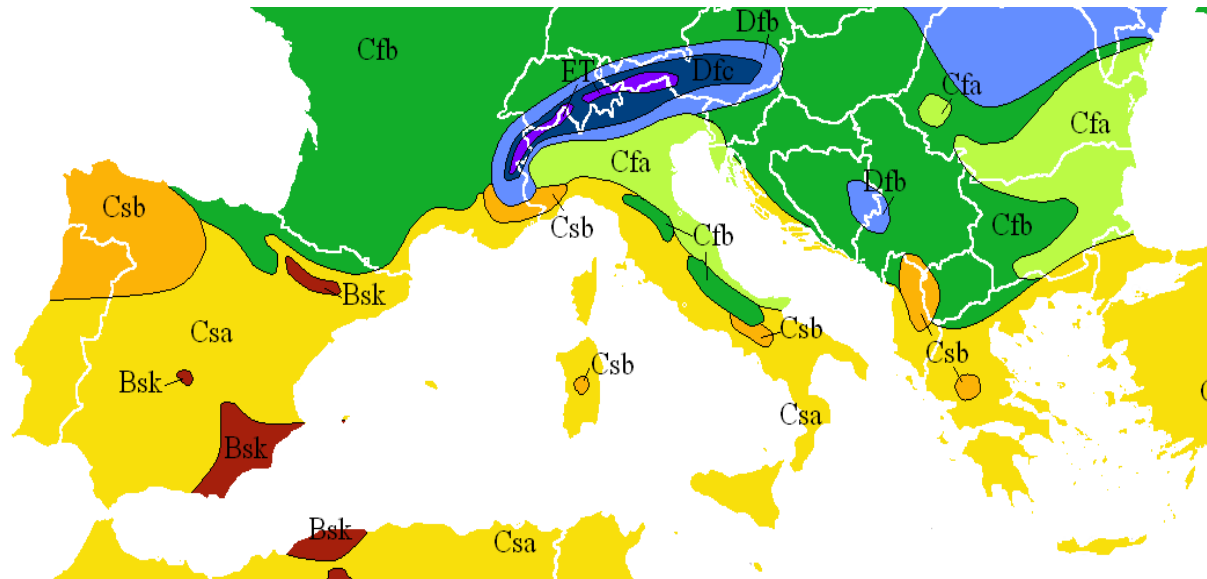
WILDFIRE FREQUENCY

Koutsias et al. 2015

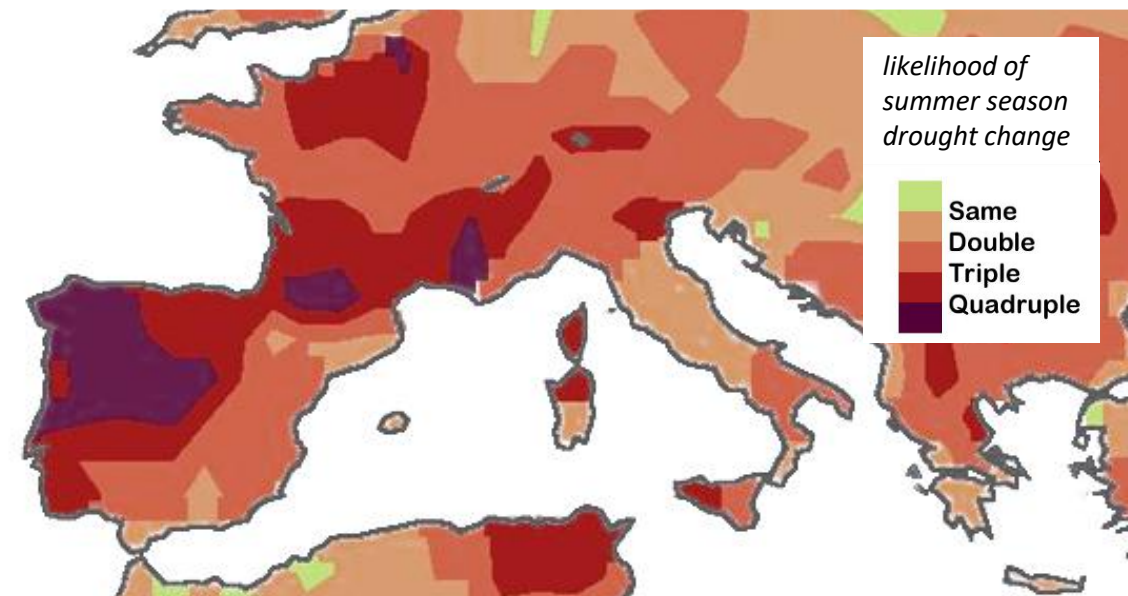


PRODUCTIVITY

World Data Center for Remote Sensing of the Atmosphere

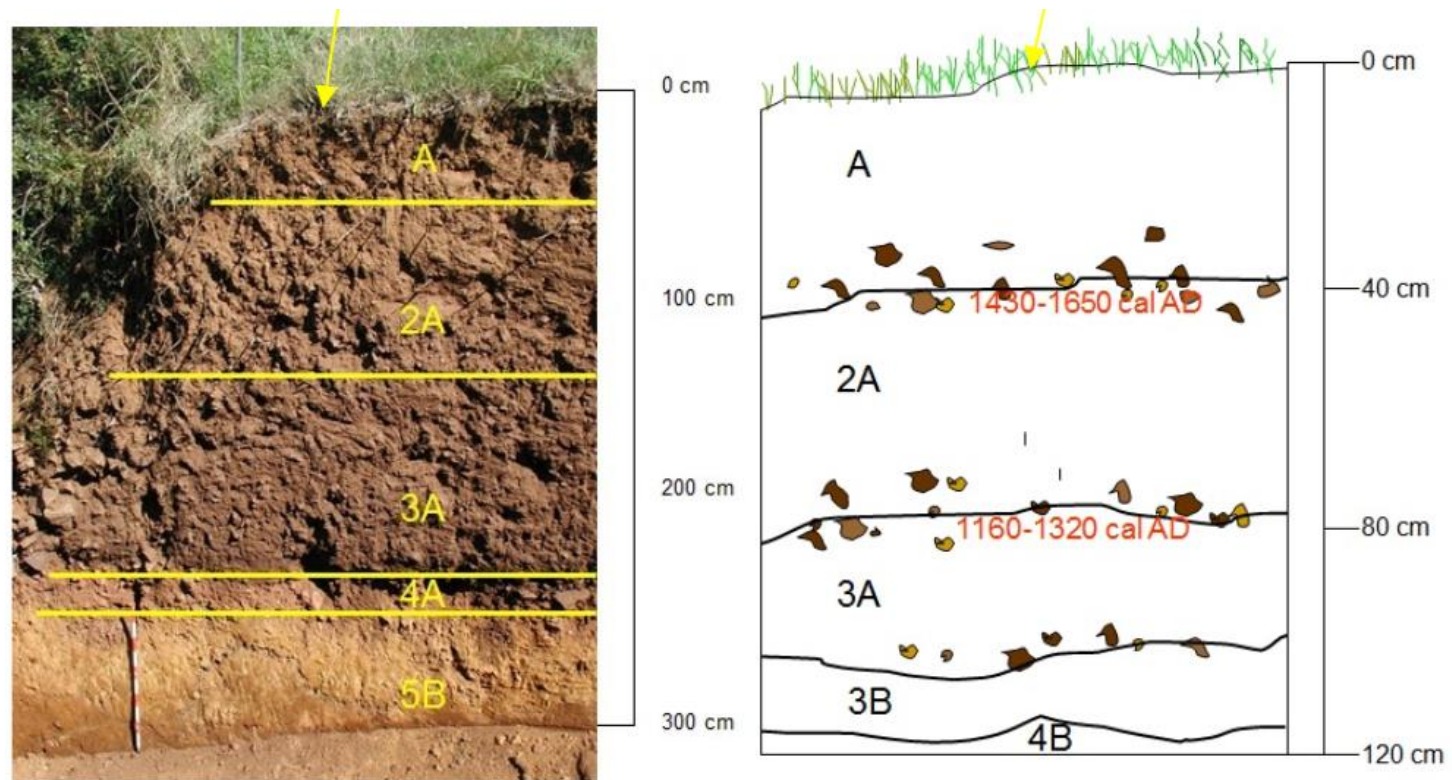


CLIMATE: Csb Köppen Oceanic mediterranean



EXPECTED CLIMATE CHANGE IMPACT

Dirmeyer 2011





Clear opportunities for improvement

- Protection of the sites from wildfire damage.
- Protection of sites from damage by wildfire fighting & prevention.
- Safety of people visiting the sites in the event of a forest fire.
- Multifunctional management in the environment of sites that may increase the structural resilience of the territory to wildfires.
- Development of multispectral and 3D based technologies for an integrated management (PWFiP)





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(A firebreak crosses A Xaiba Hillfort)

MÓNICA IRAGO

Un cortafuegos atraviesa el castro de A Xaiba



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Campo Lameiro Archaeological Area – Pontevedra



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Paradelá

Google Earth

Tourón Archaeological Area – Pontecaldelas - Pontevedra



Image © 2021 Maxar Technologies

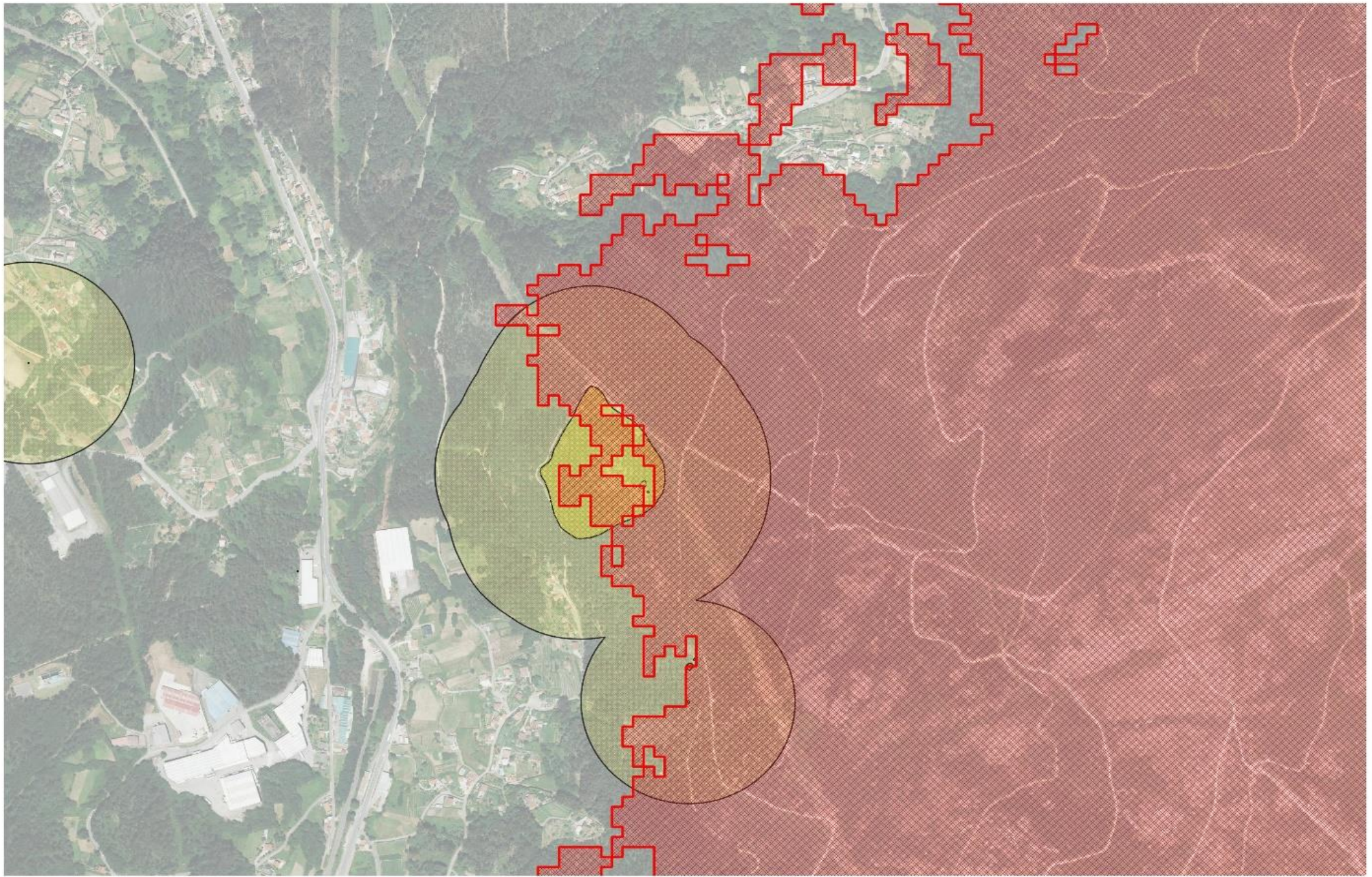
Paradelas

Google Earth

Tourón Archaeological Area – Pontecaldelas - Pontevedra



Foto: Ferrán .Dalmau



0 250 500 m





Os Valos

Valado

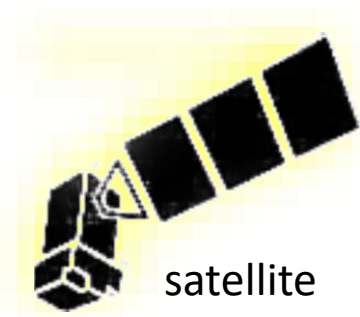
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MULTISCALE, MULTIPLATFORM AND MULTISENSOR APPROACH FOR
MEASURING AND MODELLING BIOMASS / FUELS, TREATMENTS,
AND POST FIRE SEVERITY AND IMPACTS,
AS WELL AS CHARACTERIZING THE ARCHAEOLOGICAL SITE ITSELF



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