THE DIFFICULT PUZZLE OF QUANTIFYING AND MAPPING THE URBANIZATION PROCESS IN ANDALUSIA





OBJECTIVES

SOURCES

Total surface of Andalusia

The urbanization process is a recurring topic in Social Sciences, especially in Ceography. The dimensions that this phenomenon achieved over the so-called Spanish economic miracle* - and until the crisis in 2007 - ranks as one of the most representative indicators of the "management outs of our notional costs our notional costs of our notional costs of our notional costs

This paper focuses on analyzing the differences between the various sources that provide spottal data about this phenomenon: 1) The Corine Land Cover (LCL hereinafter): 2) the Land Use and Land Cover Types Map of Analolusia (Map ad eUsor y Coberturas Vegetales de Andalusia (MUCVA,

The essential question is: ARE SIGNIFICANT THE DIFFERENCES ON THE OCCUPATION AND EVOLUTION OF URBAN LAND DEPENDING ON THE SOURCES USED? How for? In addition, this methodology allows QUANTIFY AND CHART THE LEVEL OF COINCIDENCE AND DIVERGENCE between the sources.

To check, verify and assess the similarities between the sources studied, we finally have tested the methodology to some specific urban types. The AREAS UNDER CONSTRUCTION have focused our interest: first, by the controversy to define and delimit these areas, and secondly, by the interest in quantifying these unfinished landscapes in a

METHODOLOGY



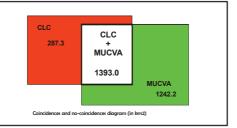
Andalusian coastline (5 km inland from th shoreline)

Occupation (%)

Occupation (%) CLC 1.9 0% 4% 6%

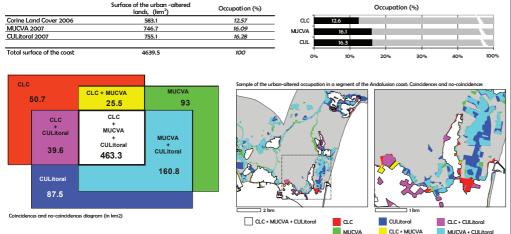
Surface of the urban-altered

87610.9

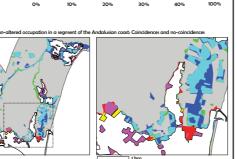


RESULTS: URBAN AREAS IN THE COAST

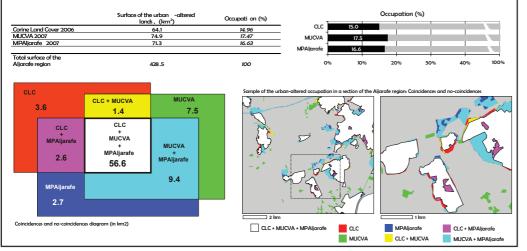
RESULTS: URBAN AREAS IN ANDALUSIA



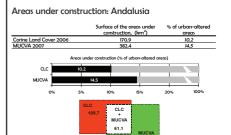




RESULTS: URBAN AREAS IN THE ALIARAFE REGION



RESULTS: AREAS UNDER CONSTRUCTION

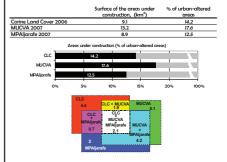


Areas under construction: Andalusian coast

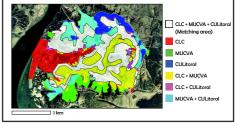
Corine Land Cover 2006		81.5		14.0		
MUCVA 2007		123.4			16.6	
CULitoral 2007		118.5			15.9	
	Areas under co	nstruction (% of u	rban-altered a	eas)		
CLC CLC	14.0				7	
MUCVA		6.5				
CULitoral	1	.9			S	
0%	5%	10%	15%	20%	100%	
	CLC	CLC + MUCVA	MUCVA	1		
	36.3	CLC + MUCVA	51.7			
	CLC CULitor	CLC MUCVA CULitoral	MUCVA			
	13.2	19.9	+ CULitoral			
	45.7		39.8			

Surface of the areas under construction. (km²)

Areas under construction: Aliarafe region



Areas under construction: A paradigmatic example



CONCLUSIONS

II. The analysis for the whole of Andalusia showed a moderate convergence between information sources. Although the matching area is estimated at 1993 km2, the difference amounts to 1530 km2. This divergence responds to urban areas in MUCVA not divergence responds to urban area in machine, covered by CLC, mostly for reasons of scale (solated urban elements, highways...). This fact explains why urban occupation in Andalusia range between 1.5% and 3% according to the source, a sizable gap taking into account the dimension of this region. The earlier general pattern is verified on the coast and Aljarafe region with some peculiarities. Thus, MUCVA overstate the CLC data with less intensity. The reduced presence of isolated urban elements (here conurbation is the dominant trend) explains

III. The application of the method to the areas under construction shows that the controversy defining the urban phenomenon is even greater for some cover

III. The convergence among authors' maps (generated at 15000) and MUCVA (125000) suggest that the latter scale is sufficient to distinguish the urban reality. Internal differentiation between uses and morphologies requires higher photointerpretion scale. The clearest examples are the areas under

construction, whose values vary greatly according to the sources.

IV. In any case, there is no a single answer or procedure to quantify the urbanization process. Different methods, tools and sources provide figures that can reach a considerable disparity. It has no sense to discriminate between valid and invalid sources, unreliable or questionable, but more or less appropriate depending on the scale and purpose.

Bibliography

Acknowledgments



