

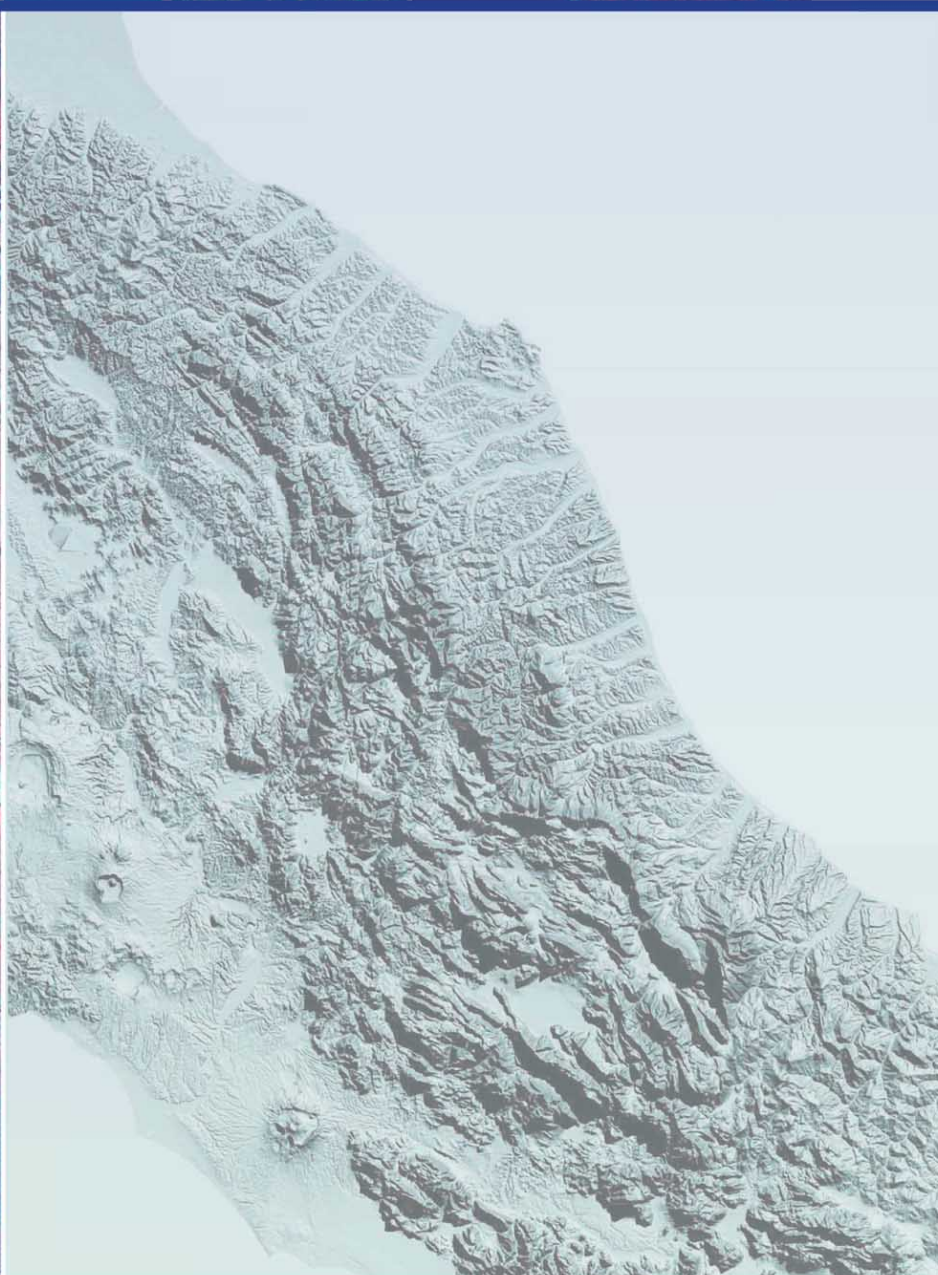
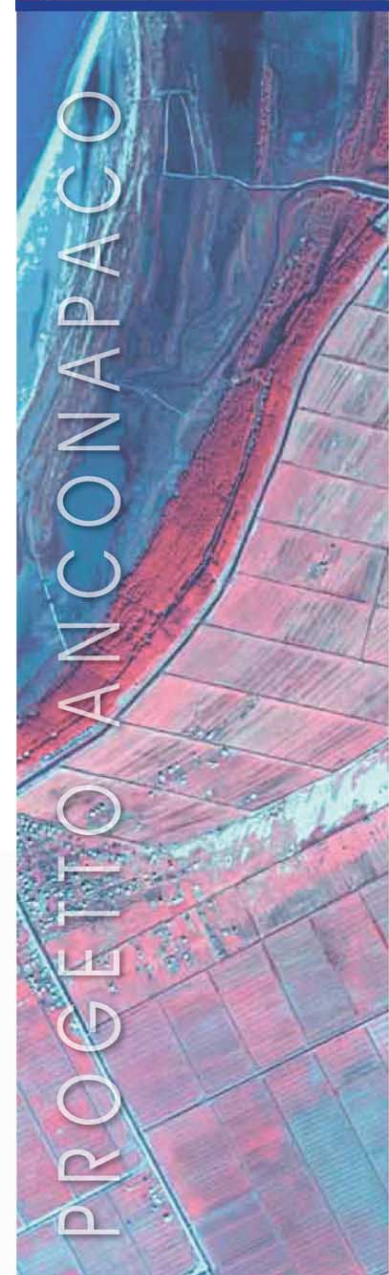


REGIONE
MARCHE
Servizio Ambiente e Difesa del Suolo
P.F. Informazioni Territoriali
e Beni Paesaggistici



REGIONE
DURAZZO-ALBANIA
Partner Transfrontaliero

Commissione Europea
Iniziativa Comunitaria
INTERREG IIIA
Transfrontaliero Adriatico



ANCONAPACO PROJECT

Condition analysis
of the natural, environmental and landscape patrimony
in hill, plain and coast areas

FORMATIVE PROGRAMME

MODULE N.2

ANCONAPACO
FORMATIVE MODULE N. 2
Ancona, 20th to 24th November 2006

ADDRESSED TO 10 MEMBER UNITS FOR DURAZZO AND MARCHE REGIONS, 36-HOURS LASTING

Calendar: from Monday 20th November at 9.00 a.m. to Friday 24th November at 1.00 p.m..

COURSE PROGRAMME
coordinator: Giovanni Cafiero

AT1 Module. Analysis of the settlement processes, land government tools and development perspectives following the SDEC and the European Landscape Convention

Didactic Units	Contents	Frontal teaching hours	exercise	Teachers
Introduction	<i>Formative path introduction – Organization and logistic form description. Integration and socialization collective approach. Introduction to territorial and environmental issues to the related case studies.</i>	1		Lupatelli Tondelli
Regional Planning	<i>Techniques and tools for regional analysis; related scenarios construction; integration models between physical-environmental and socio-economic aspects; planning and programming instruments; European references to regional planning in the EU framework.</i>	8		
	<i>Analysis of the Regional studio cases.</i>		3	
Total		12		

AT2 Module. Land Use analysis by means of land use maps and the most recent geoprocessed data

Cartography GEOGRAPHIC INFORMATION SYSTEMS	<i>IKONOS imagery georeferentiation ANCONAPACO project cartography issues (what the CD contains) Imagery import by Geomatica software Composition of the Data bands of the necessary inputs (satellite bands, DEM, related cartography) IKONOS Projection Georeferentiation per points methods Analysis of results and differences obtained through the different methods. Ikonos imagery processing through imaging software and possible applications: vegetation indexes elaborations Pre-elaboration with DN values trasformation into riflettanza values Image calculator operations Digital classifications Supervised classifications Unsupervised calssifications Spectral bands classifications and bands representing texture data</i>	6	8	Bottai
Total		14		

AT3 Module. Criticality features due to settlement processes on landscape and environment and related to the analysis of the dynamic processes on slopes, rivers and coasts.

HYDROLOGY AND ENVIRONMENTAL HYDRAULICS	<i>General issues, hydrology and hydraulics recall, hydrogeological variables analysis and statistical distribution. Probabilistic models and cartograms. Hydrological and hydraulic models; flood waves propagation. Hydraulics in environmental problems analysis. (hydrostatics and hydrodynamics principles recall). Fluvial hydraulics elements.</i>	1	1	Gennari Biagiotti Savelli
FLUVIAL AND COASTAL HILL ENVIRONMENT	<i>Outlines on environmental systems ecological quality. Zonation and biodiversity. Analysis methods of vegetational, zoocenotic and landscape components. Environmental criticisms Indices. Fluvial functionality analysis and methods (flow—downflow, IFF, BSI, WSI, etc.). Studio cases analysis.</i>	1	1	
HYDROGEOLOGICAL RISK ANALYSIS: LANDSLIDES AND ALLUVIUMS	<i>Landslide phenomena classification systems recalls; alluvials and disset events; crithical events analysis. Dangerousness, exposure, vulnerability and risk. Risk evalouation methods. Quantitative-qualitative approach in hydrographic basins study with through modelization methods. Erosion quantitative analysis recalls. Studio cases analysis and applications.</i>	1	1	
ANALYSIS AND TESTS BY MEANS OF MODELLING INSTRUMENTS	<i>Application examples, calculus codes for physical events modelization. Studio cases informatic practical applications with specific SW. Methereological models, flow-downflow transformation models, physical based models for quantitative geomorphologic evaluations, basin and flood hydrological models.</i>	1	1	
Control and monitoring systems	<i>Soil, lands, water and landscape monithoring systems. Quantitative-qualitative monithoring of a watercourse: instruments and methods. Hydrometry, instruments and method. Studio cases, authomatic recording and data processing station.</i>	1	1	
Total		10		

The teaching module on Thursday 23rd November includes a didactic visit trip, with training in classroom and on site, to the San Bartolo Natural Park and a visit to the town of Pesaro.