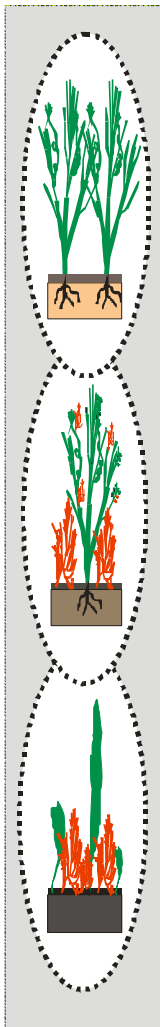




National Agricultural Research Foundation  
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# Transitional states in transitional & coastal waters

*Identifying mechanisms & developing indicators of habitat or water quality shifts*



Kavala, Greece, June 1<sup>st</sup>-2<sup>nd</sup>, 2006

## Programme, Abstracts

# Workshop on

**Transitional states in transitional & coastal waters:  
*Identifying mechanisms & developing indicators of habitat or  
water quality shifts***

## Programme, Abstracts

Kavala, Greece June 1<sup>st</sup>- 2<sup>nd</sup>, 2006

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*Το Συμπόσιο οργανώνεται υπό την αιγίδα της: Νομαρχίας Καβάλας, του Γεωτεχνικού Επιμελητηρίου-Παράρτημα Ανατολικής Μακεδονίας, του Δήμου Κεραμωτής και του Αγροτικού Αλιευτικού Συνεταιρισμού Ιχθυοτροφείων Νομού Καβάλας*

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## **BIO-GEOGRAPHIC PATTERNS OF BENTHIC BIOTIC INDICES IN RELATION TO TYPOLOGIES OF MEDITERRANEAN AND BLACK SEA COASTAL LAGOONS**

**M. Ponti, M. Pinna, A. Basset, S. Fonda Umani, M. Minocci, S. Reizopoulou, A. Nicolaidou, C. Arvanitidis, S. Moncheva, A. Trajanova, L.P. Georgescu, S. Beqiraj, S. Orfanidis, M. Abbiati**

1. A number of ecological indicators have been applied to assess environment quality however, an indicator that provide useful and unambiguous information under different anthropogenic pressures and in different habitats has not been develop yet.
2. Composition and abundance of benthic invertebrate fauna are indicated in the UE Water Framework Directive (WFD) among the biological elements for the classification of ecological status of the transitional waters.
3. Some macrobenthic biotic indices, based on biodiversity and species sensitivities, were proposed as effective tools to answer the requirements of the WFD but little is known on the responses of these indices in different ecosystems.
4. In the present study the biogeographic patterns of some benthic biotic indices were analysed through sixteen Mediterranean and Black Sea transitional waters ecosystems characterised by different habitat typologies.
5. In each ecosystem benthic macro-invertebrate assemblages were sample in autumn 2004 in similar habitat typologies. Samples were collected with a box-corer (sampling surface of approx 0.03 sqm); two stations were located in each habitat typology, five replicate samples were collected at each station.