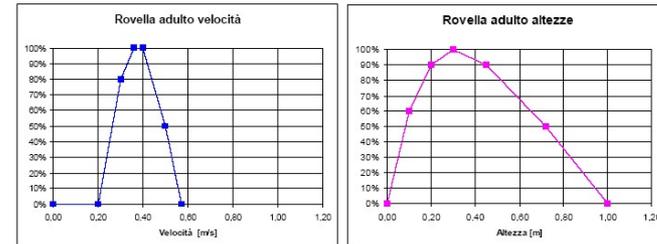
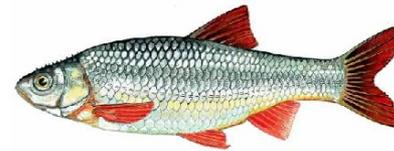


Specie ittiche e rapporti con la diversità morfologica nel bacino dell'Arno

Annamaria Nocita
-ittiologa-

Rovella adulto (*Rutilus rubilio*)



Le acque interne

- ✓ A livello chimico: in gran parte acque dolci; acque salmastre in estuari e lagune
- ✓ A livello fisico: acque lentiche e lotiche
- ✓ Da un punto di vista biologico: acque eutrofiche ed oligotrofiche
- ✓ Per la legislazione: acque a Salmonidi ed a Ciprinidi
- ✓ A livello morfologico: macro-, meso-, e microhabitat

Il mesohabitat



Torrente Sieve – run e pool



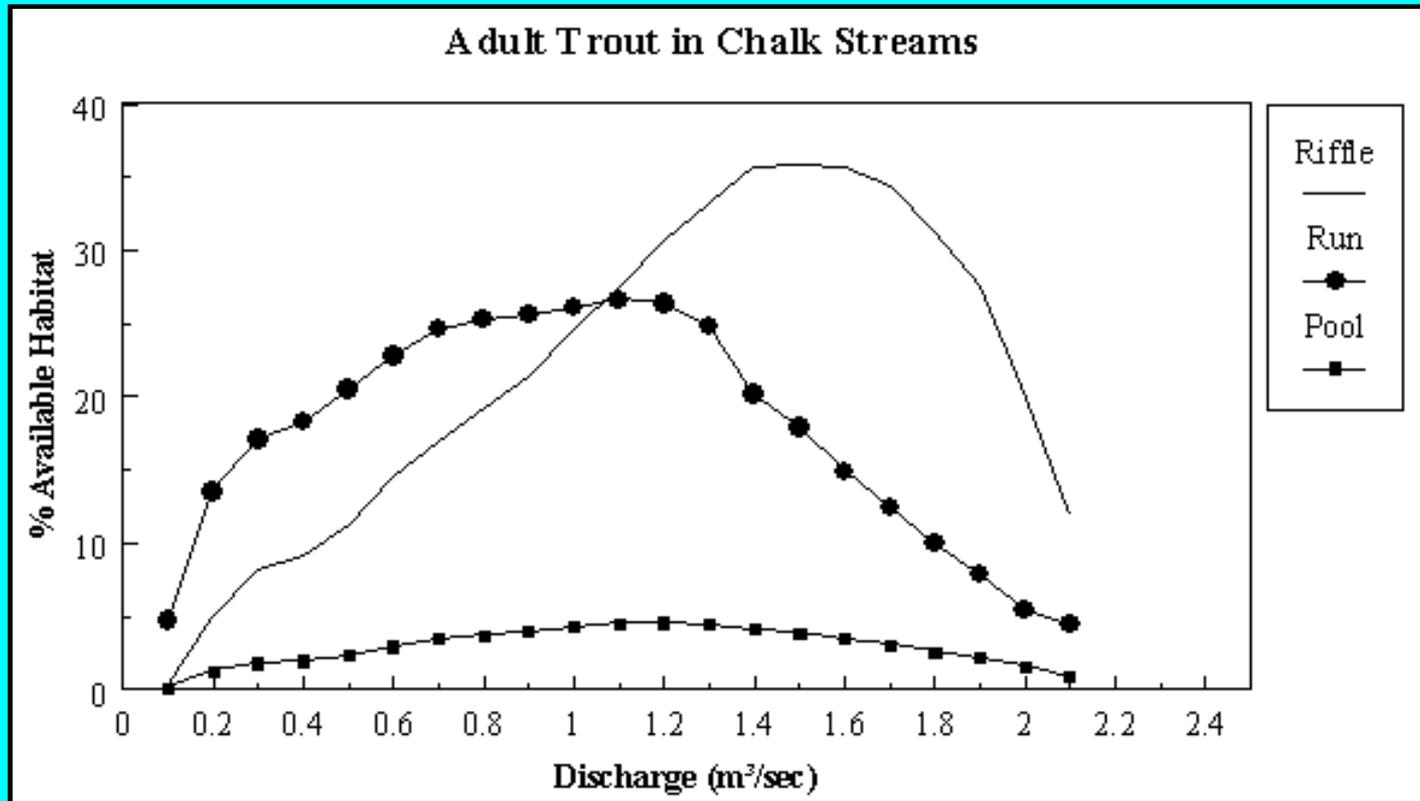
Torrente Sieve - pool

Il mesohabitat



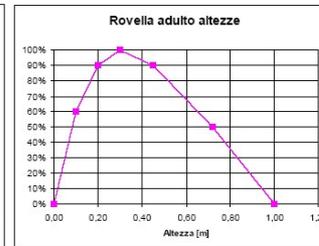
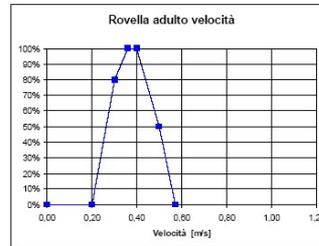
Fiume Arno - raschio

Il mesohabitat

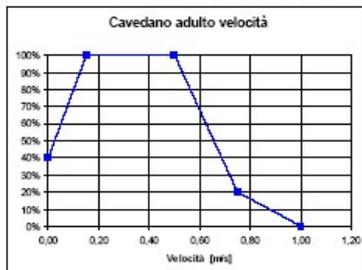


Il microhabitat

Rovella adulto (*Rutilus rubilio*)



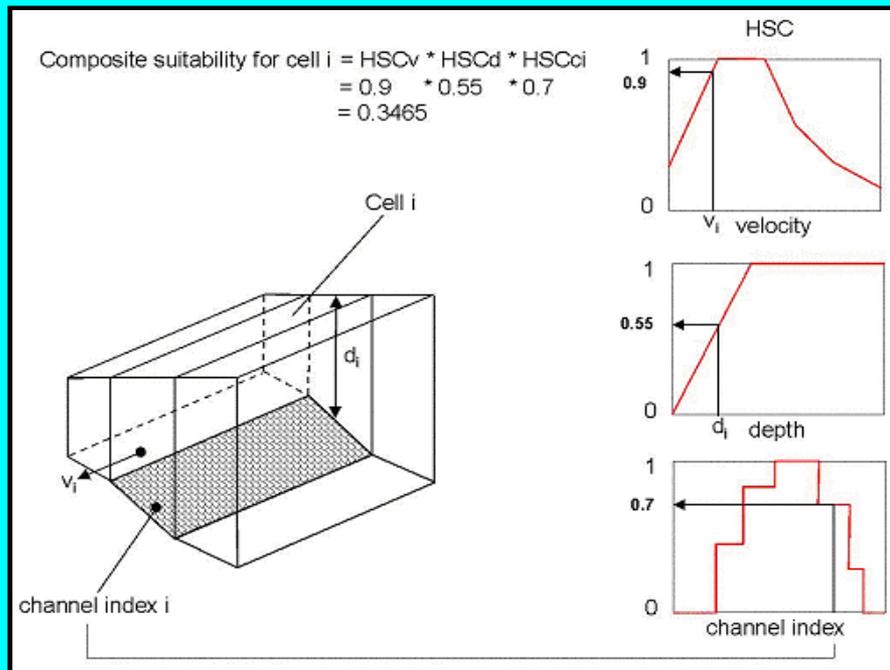
Cavedano adulto (*Leuciscus cephalus*)



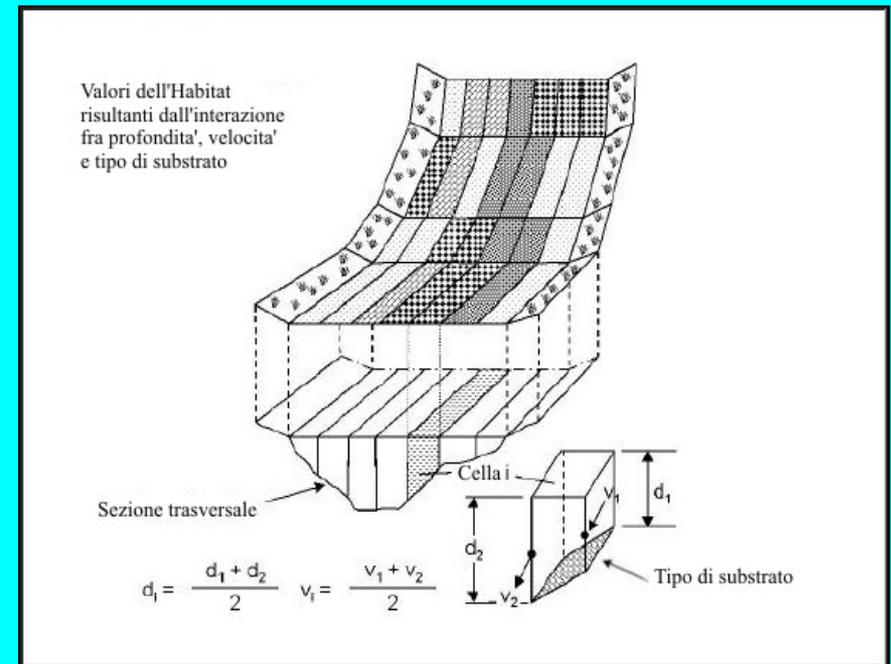
Ghiozzo adulto (*Padogobius nigricans*)



Il DMV su base biologica: il metodo dei microhabitat



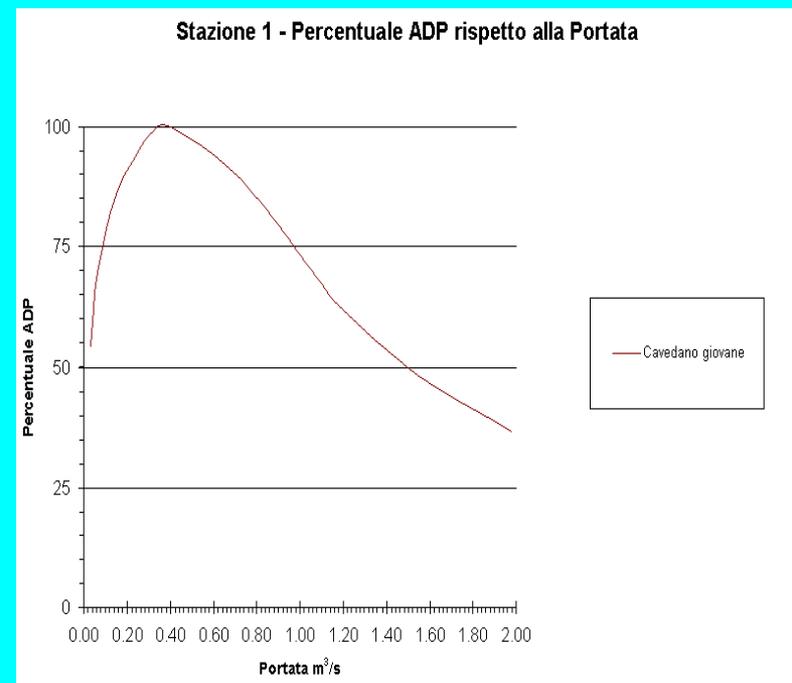
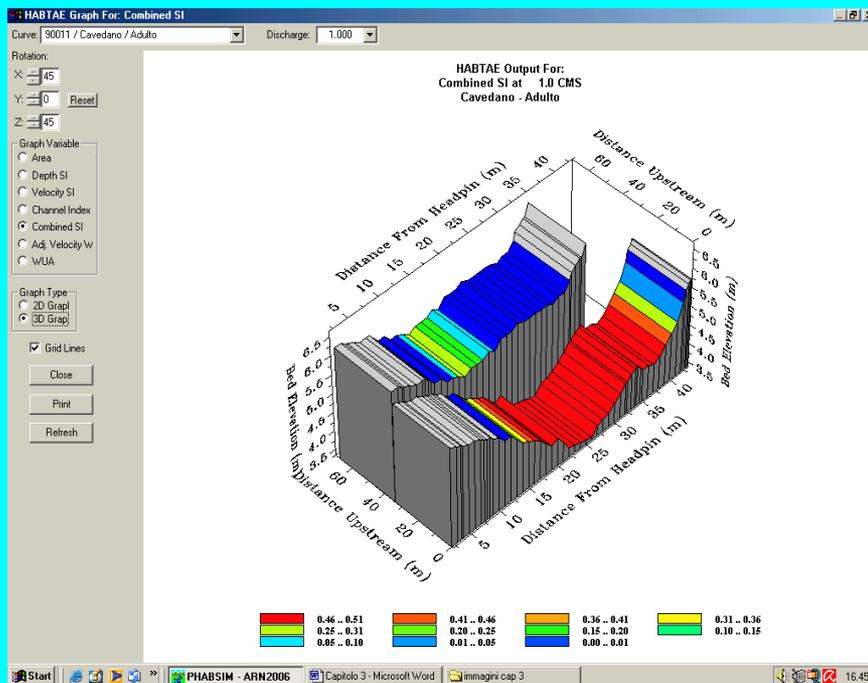
Calcolo del grado d'idoneità delle celle per i singoli parametri (velocità, profondità e substrato)



Valori dell'habitat

Il DMV su base biologica: il metodo dei microhabitat

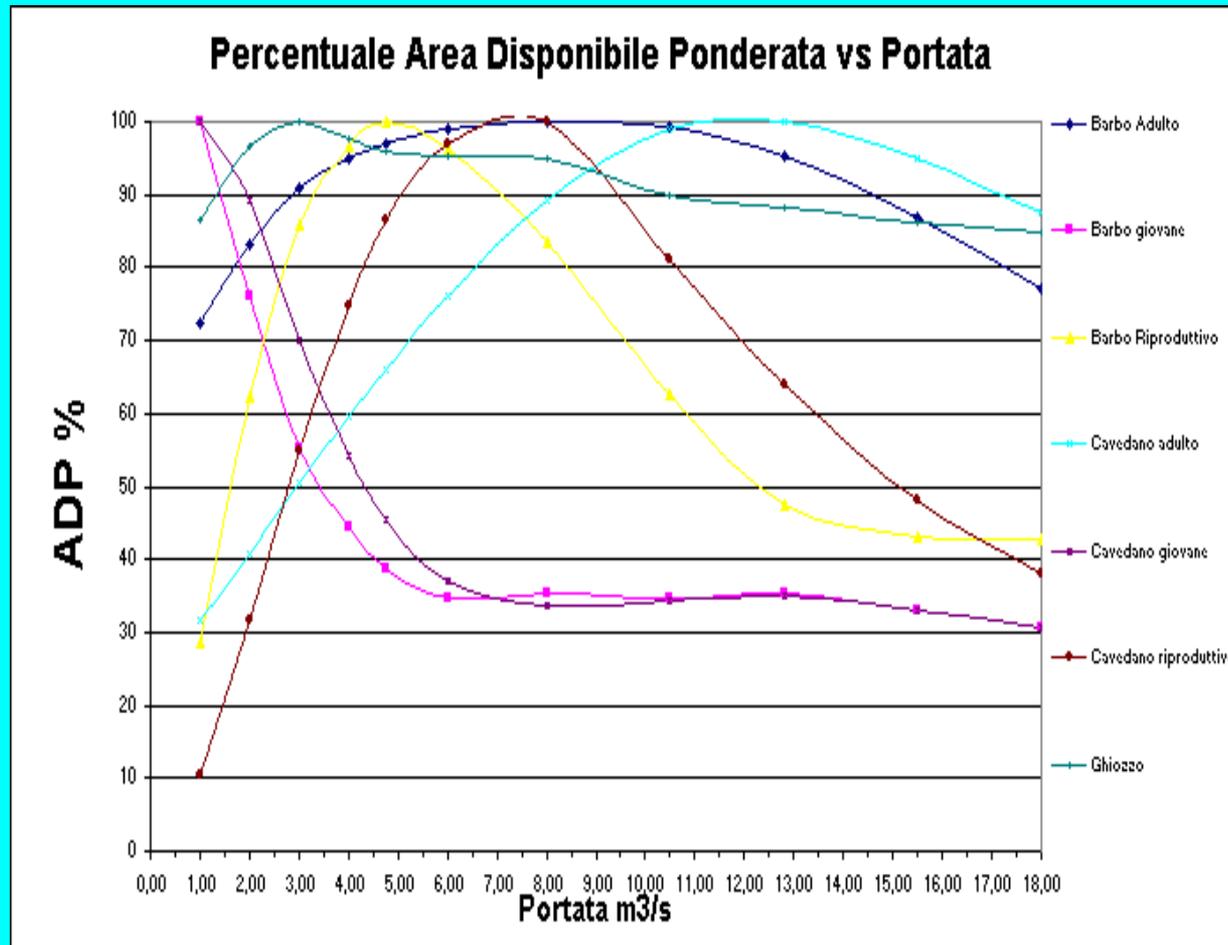
$$ADP = \sum A_i * HSC_i$$



Calcolo dell'ADP per una singola stazione a una specifica portata per il cavedano

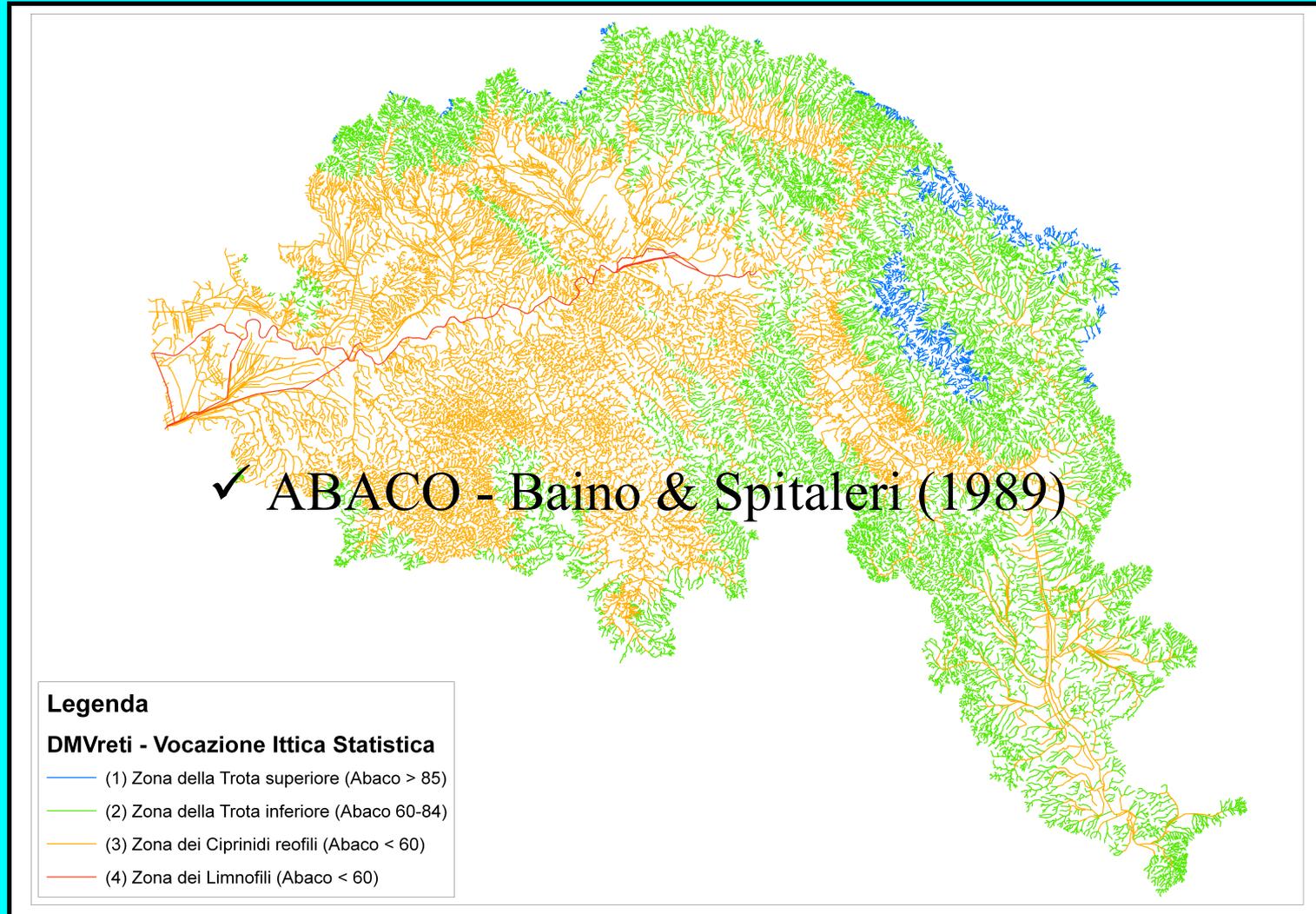
Andamento dell'ADP per il cavedano

L'analisi dell'Area Disponibile Ponderata

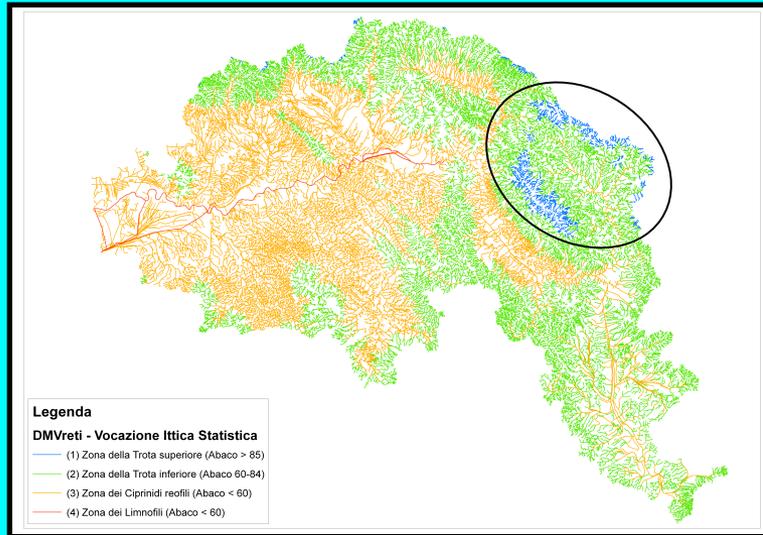


Confronto tra ADP percentuale e i valori delle portate per stazione la Rosano sull'Arno

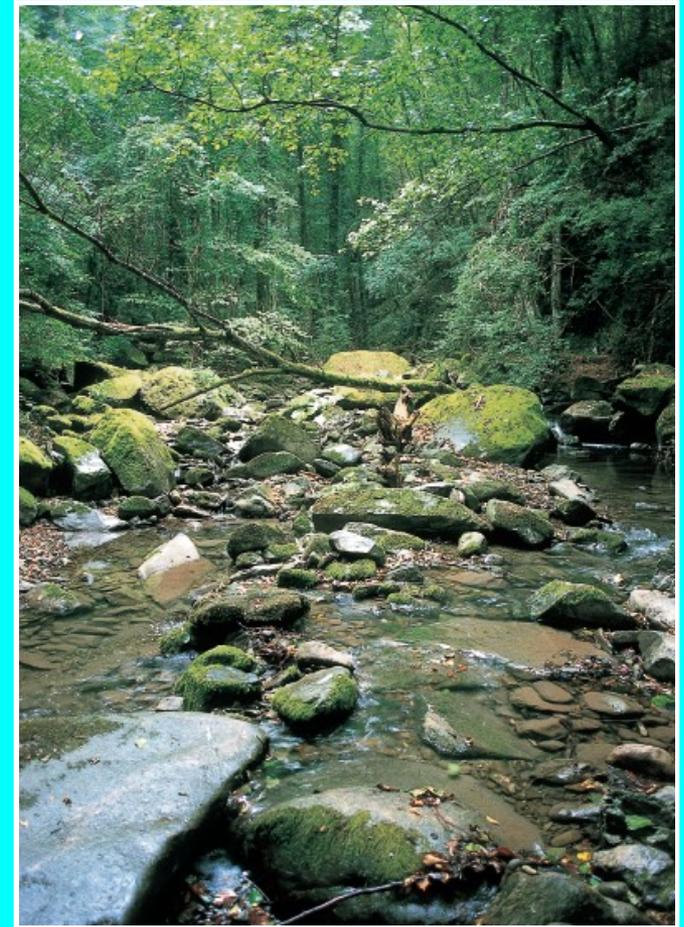
Le acque lotiche



Le acque lotiche

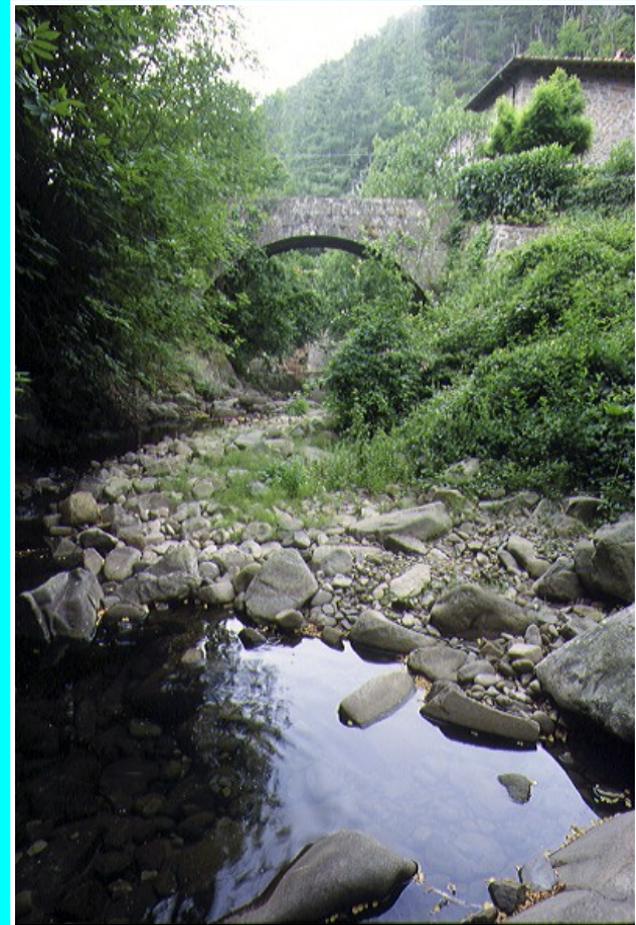
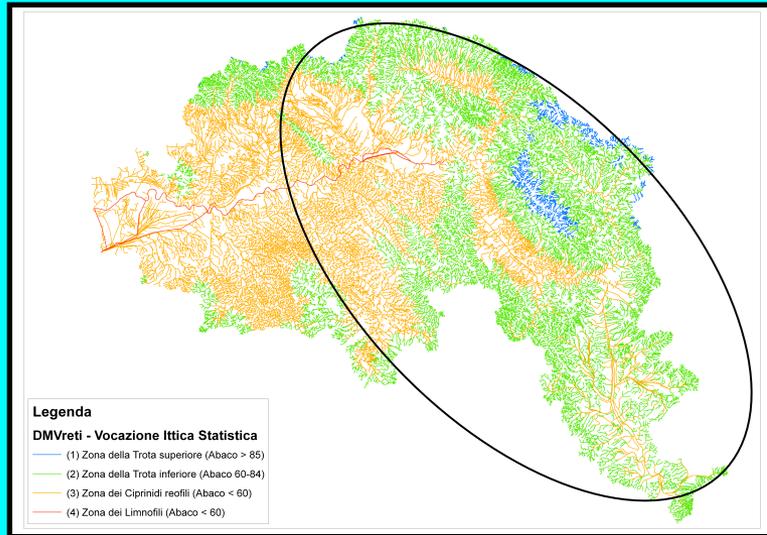


Trota fario



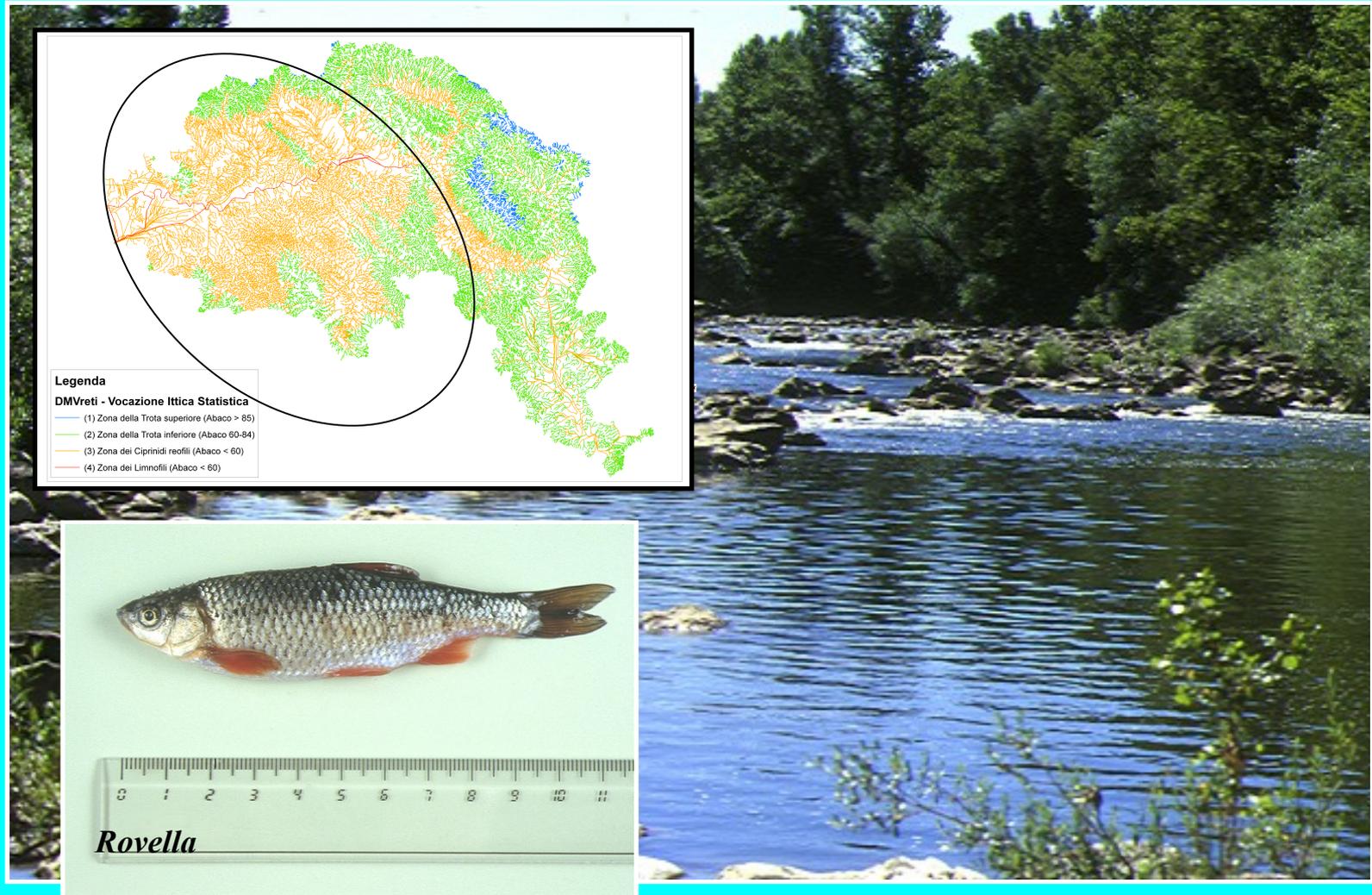
Fiume Arno in Casentino

Le acque lotiche



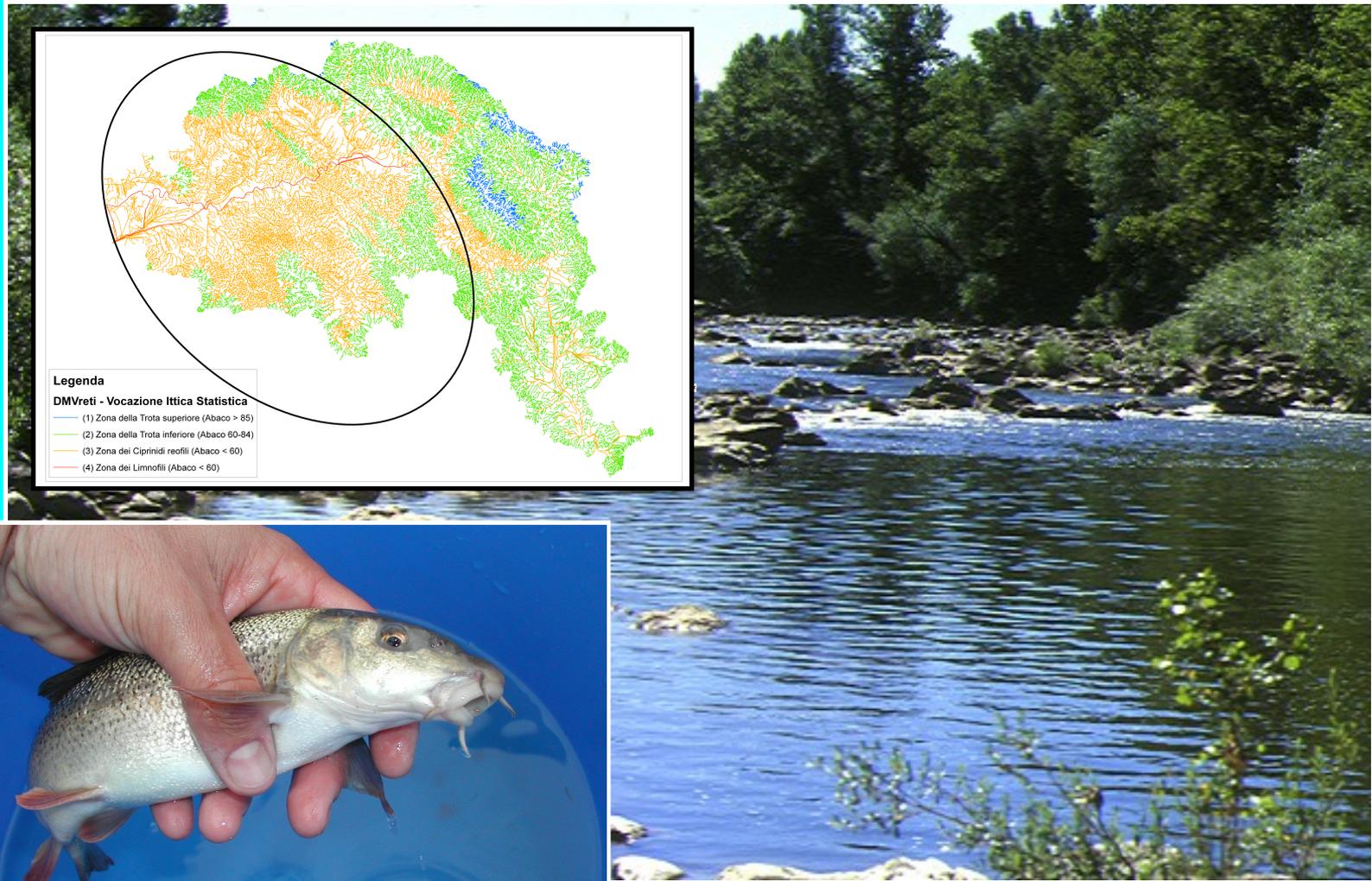
Torrente Resco Cascese

Le acque lotiche



Fiume Arno a S. Ellero

Le acque lotiche



Legenda

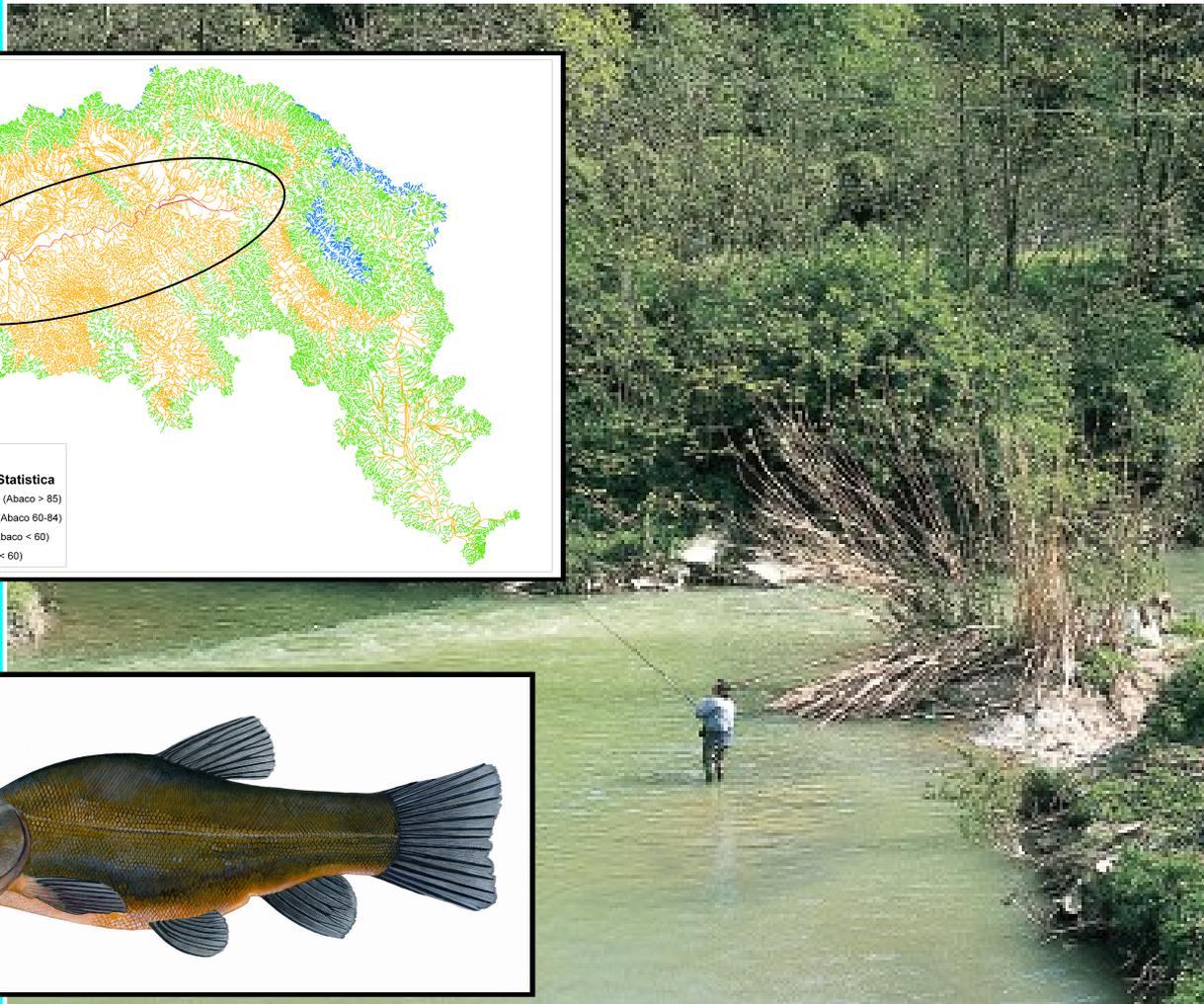
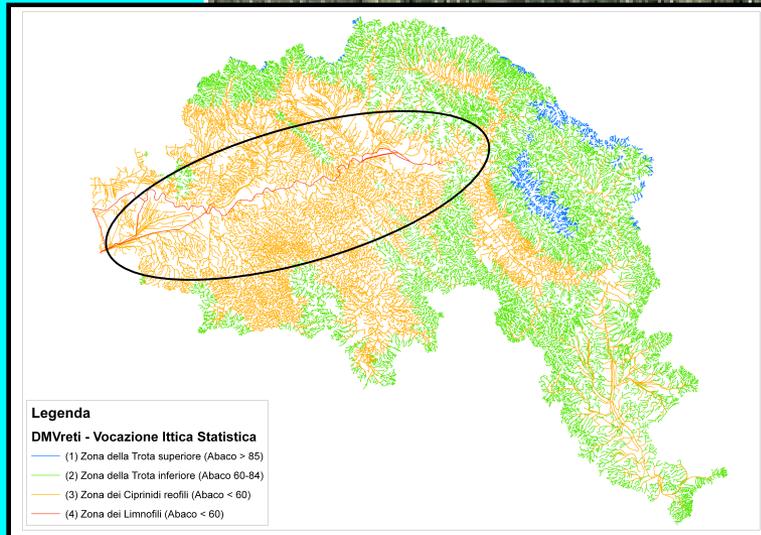
DMVreti - Vocazione Ittica Statistica

- (1) Zona della Trota superiore (Abaco > 85)
- (2) Zona della Trota inferiore (Abaco 60-84)
- (3) Zona dei Ciprinidi reofili (Abaco < 60)
- (4) Zona dei Limnofili (Abaco < 60)

Barbo

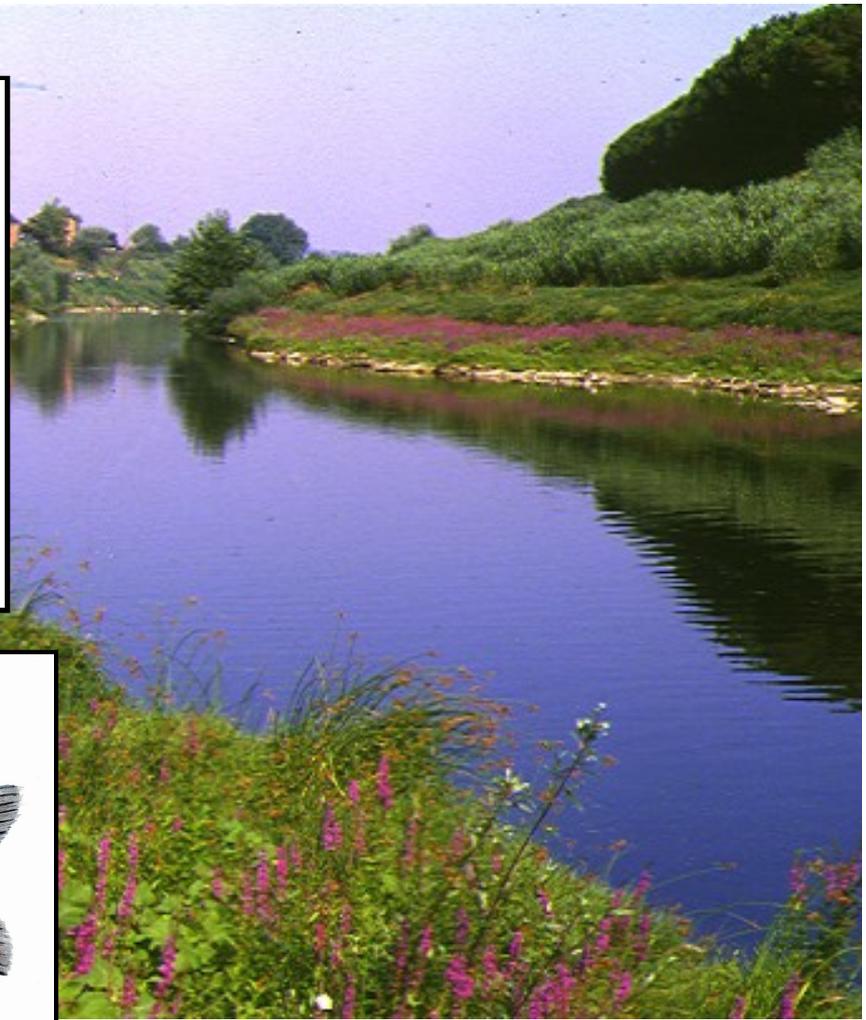
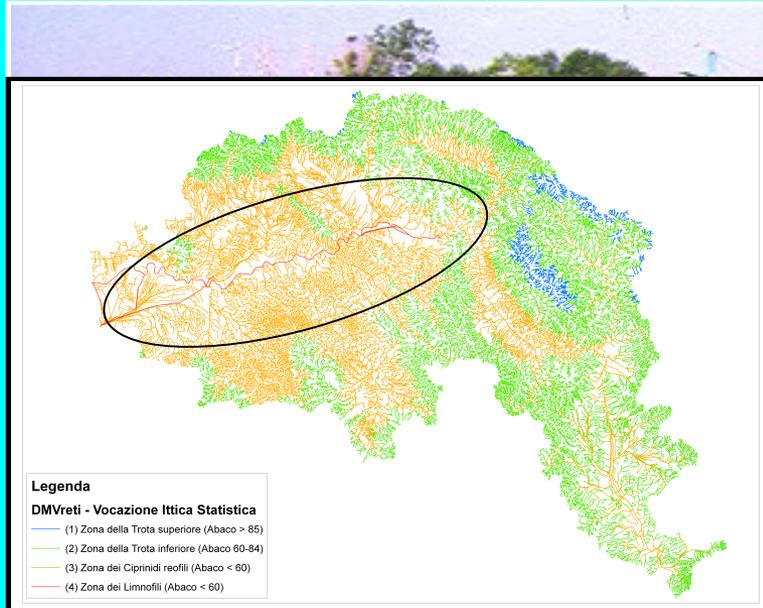
Fiume Arno a S. Ellero

Le acque lotiche



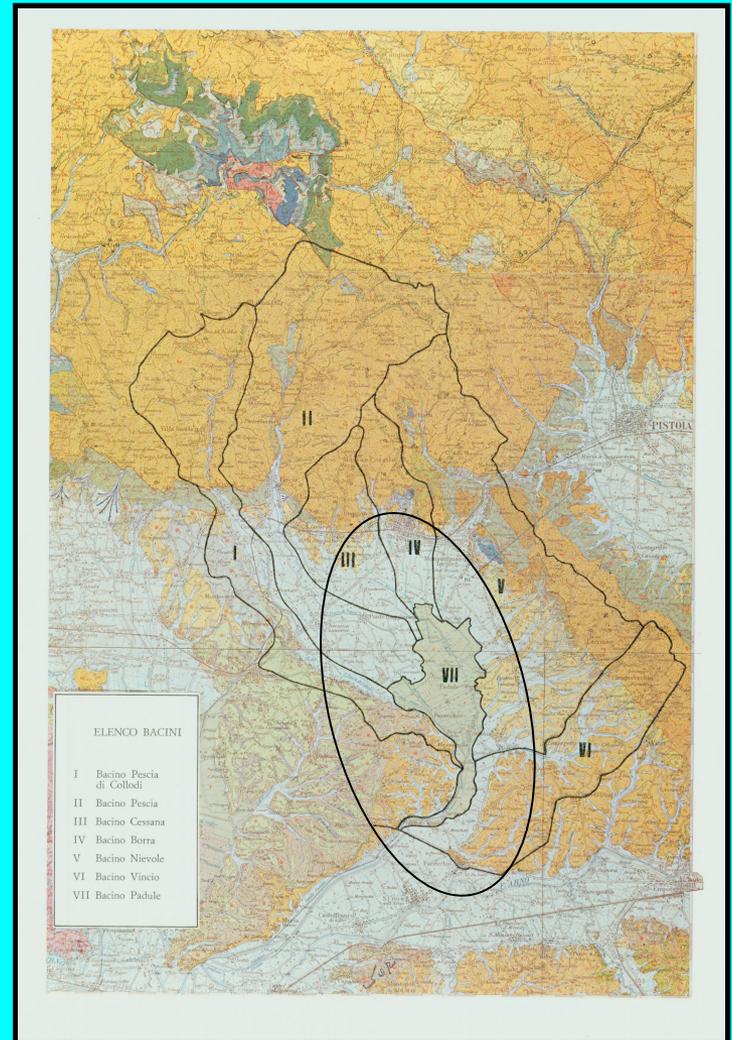
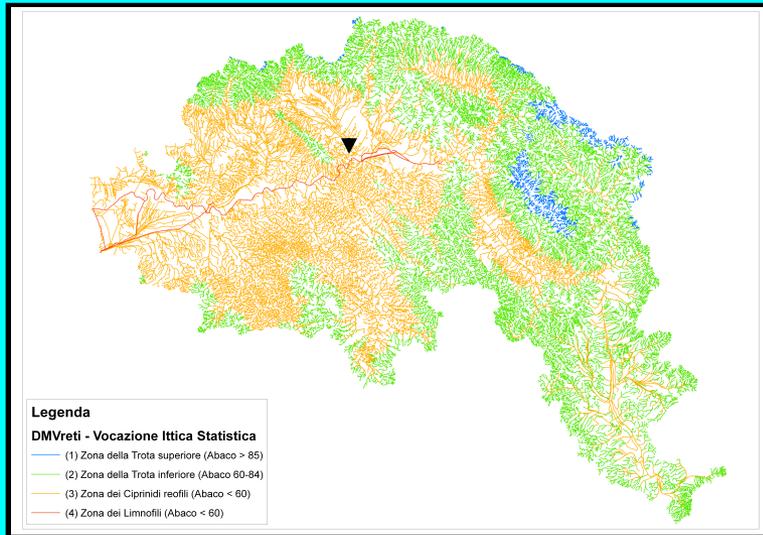
Torrente Greve

Le acque lotiche



Fiume Arno a Empoli

Le acque lentiche: il Padule



Le acque lentiche: il Padule



Procambarus clarkii



Gambusia holbrooki

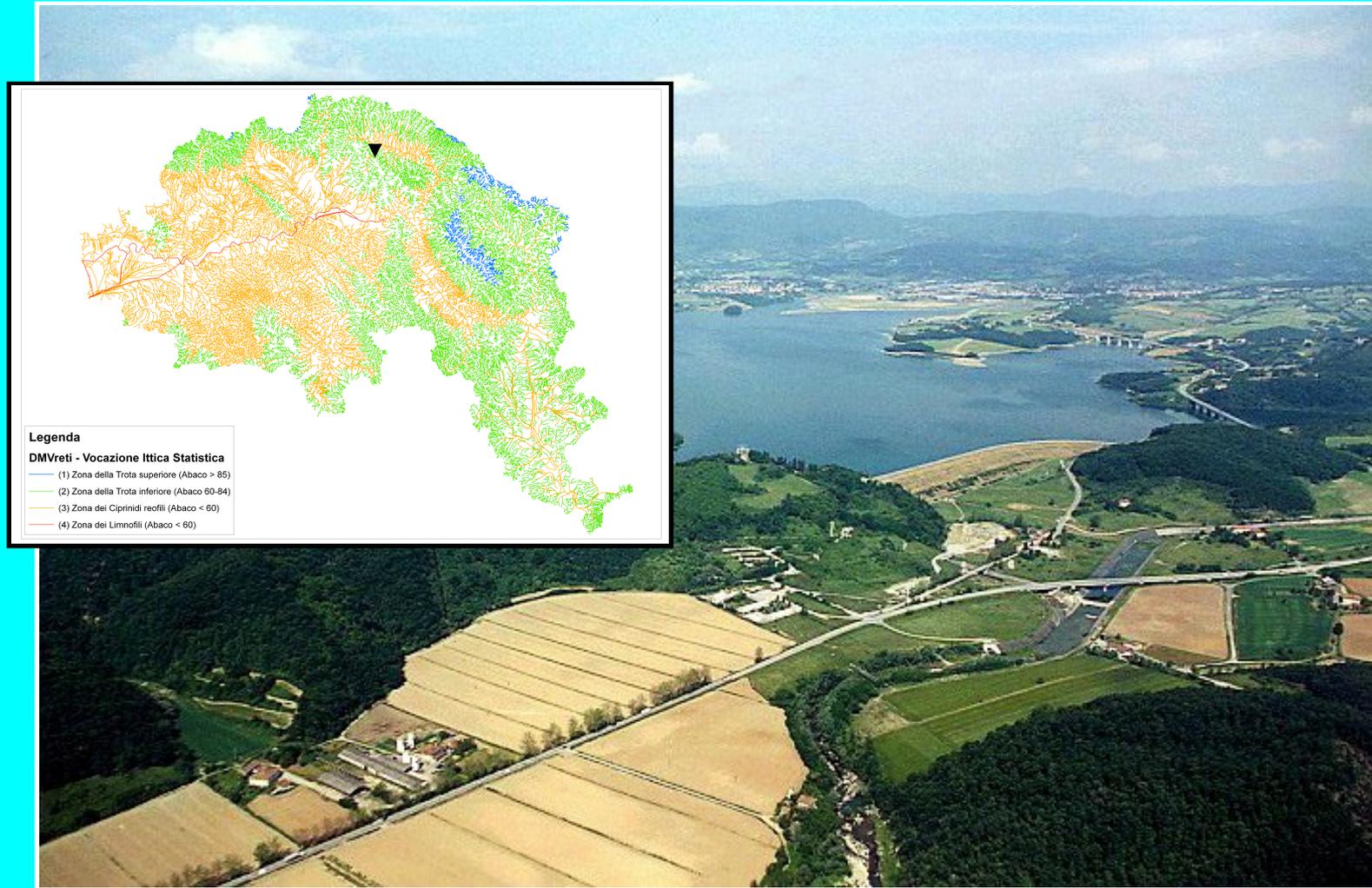


Padule di Fucecchio



Anguilla

Le acque lentiche: Bilancino



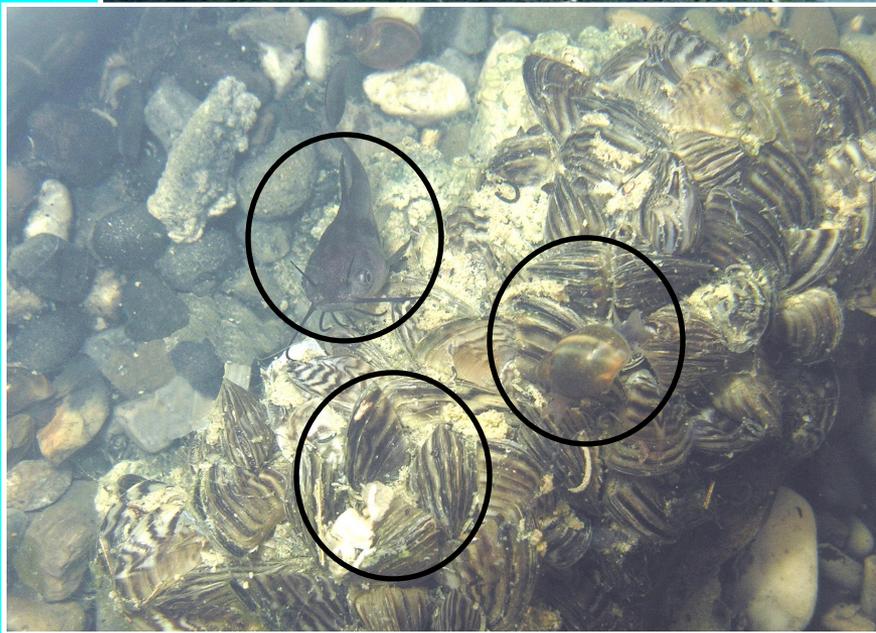
Invaso di Bilancino

Le acque lente: Bilancino



Invaso di Bilancino

Le acque lentiche: Bilancino



Dreissena polymorpha, *Ictalurus melas*, *Haitia acuta* - Lori & Cianfanelli 2006

Grazie!

