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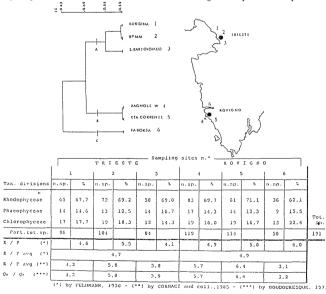
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The study of macrophytobenthos is generally considered to be a useful reference (and even necessary) to the interpretation of space-time transformations of the sea environments. The object of this work is just that to bring into evidence some quali-quantitative modifications of algal flora in the Northern Adriatic Sea in comparison with the latitudinal expansion of the coast, and to understand the meaning of the aforesaid transformations. The sampling sites, chosen to start this kind of research, have been located near: Aurisina (1), Natural Reserve of Miramare (2) and S. Bartolomeo (3) in Trieste (Italy): Bagnole W (4), Punta Corrente (5) and Faborsa (6) in Rovinj (Croatia) (fig. 1). The sampling was carried out in the years 1989-1990, at a seasonal cadence, in a bahtymetric interval that goes from mesolitoral level to inferior horizon of the infralitoral: the collected data have been arranged in a matrix, to which have been applied the cluster analysis.

On the basis of biotic classification relative to floral spectres (presence-absence of 191 species) in the different sampling sites, allowed the dendrogram (fig. 1) to bring into evidence, a clear-cut separation (IS < 0.55) among the sampling site of Trieste (cluster A: IS = 0.55) and the ones of Rovinj (cluster B; IS = 0.59). The sampling site of Faborsa (cluster C; IS = 0.43), shows in this dendrogram a different position, due to the fact that in such a locality, owing to a unfavourable meteomarine conditions, hasn't been possible to carry out the autumnal sampling with the consequent loss of information. The difference of the floral spectres of the sampling with the consequent loss of information. The difference of the floral spectres of the sampling with the consequent loss of information. The difference of the floral spectres of the sampling with the consequent loss of information. The difference of the floral spectres of the sampling with the consequent loss of information. The differen

limits of comparison due to the methodologycal, instrumental and cultural differences, the objectiveness of this last observation will be trustworthy only on the basis of subsequent deepenings, therefore on a number of sufficient data for a significant space-time comparison.



REFERENCES

BOUDOURESQUE C.F., 1971.- Méthodes d'étude qualitative et quantitative du benthos (en

BOUDOURESQUE C.F., 1971. Méthodes d'étude qualitative et quantitative du benthos (en particulier du phytobenthos). Tethys 3(1):79-104.

BRESSAN G., SERGÍ L. & WELKER C., 1991.- Variazioni della distributione batimetrica di macroalghe dell'infralitorale fotofilo nel Golfo di Trieste (Nord Adriatico): osservazioni preliminari. Boll. Soc. Adr. di Scienze, (in stampa).

CORMACI M., FURNARI G., GIACCONE G., COLONNA P. & MANNINO A.M., 1985.- Metodo sinecologico per la valutazione degli apporti inquinanti della Rada di Augusta (Siracusa). Boll. Acc. Gioenia Sc. Nat., 18 (326): 829-850.

FELDMANN J., 1938.- Recherches sur la végétation marine de la Méditerranée. La Côte des Albères. Rev. Algol. Fr. 10 (1,4).

GIACCONE G. & PIGNATTI S., 1967.- Studi sulla produttivita primaria del Golfo di Trieste. I. Flora sommersa del Golfo di Trieste. Novia Thalassia. 3(1): 1-17.

VATOVA A., 1928.- Compendio della Flora e Fauna del mare Adriatico presso Rovigno. Regio Comitato Talassografico Italiano Mem. CLXIII. Venezia: 1-614.