



Consiglio Nazionale delle Ricerche

ISMAR - Istituto di Scienze Marine

U.O.S. di Ancona

Largo Fiera della Pesca, 1 – 60125 Ancona, Italy

Tel +39 071 207881 Fax +39 071 55313

segreteria@an.ismar.cnr.it

C.F. 80054330586 - P.IVA 02118311006



Martedì 25 Ottobre 2016 - ore 12 SALA RIUNIONI

SEMINARIO



“Influence of environmental conditions at different time scale on feeding and early life history traits of an inshore notothenioid fish from the South Shetland Islands ”

MARIO LA MESA

ABSTRACT

Feeding plasticity and growth rate during the early ontogeny are key factors in unpredictable, highly seasonal and harsh environments such as the Antarctic inshore waters. We studied the biophysical interactions in the early life stages of the Antarctic spiny plunderfish *Harpagifer antarcticus*, a common component of the littoral benthic fish community distributed along the southern Scotia Arc. In this study, we tested the hypothesis that variability of phyto- and microzooplankton abundance determined by meteorological and oceanographic forcing occurs at different time scale (tidal, weekly), affecting in turn feeding habits, selectivity and life history traits linked to growth. As a result, the early life history strategy of this species consists of a spring-summer hatching of small, faster growing larvae, which develop into a demersal juvenile stage before their first winter of life; in addition, larvae exhibit a striking feeding behaviour plasticity ensuring higher feeding rates after major changes triggered by meteorological conditions.

SEDE ISTITUTO
Castello 1364/a
30122 Venezia
Tel. +39 041 2404711
Fax +39 041 5204126
segreteria@ismar.cnr.it

Bologna
Via P. Gobetti, 101
40129 BO
Tel +39 051 6398891
Fax +39 051 6398939
segreteria@bo.ismar.cnr.it

Genova
Via De Marini, 6
16149 GE
Tel +39 010 64751
Fax +39 010 6475400
segreteria@ge.ismar.cnr.it

Lesina
Via Pola, 4
71010 FG
Tel +39 0882 992702
Fax +39 0882 991352
segreteria@fg.ismar.cnr.it

Pozzuolo di Lerici
Forte Santa Teresa
19032 SP
Tel +39 0187 978300
Fax +39 0187 970585
segreteria@sp.ismar.cnr.it

Trieste Francesco Vercelli
Viale Romolo Gessi, 2
34123 TS
Tel +39 040 305312
Fax +39 040 308941
segreteria@ts.ismar.cnr.it