



HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH



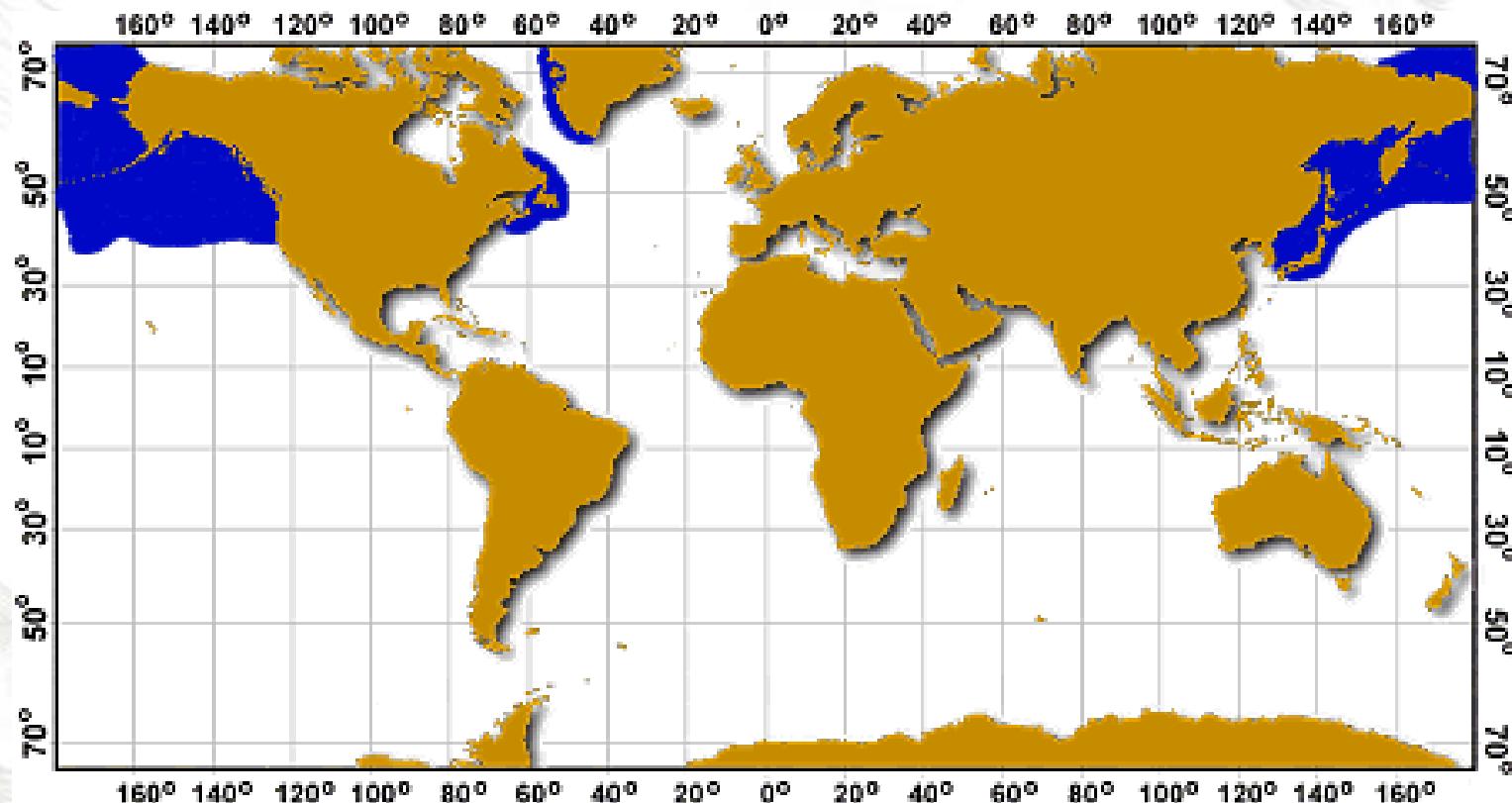


The invasive snow crab *(Chionoecetes opilio)* an expanding player in the Barents Sea ecosystem

by

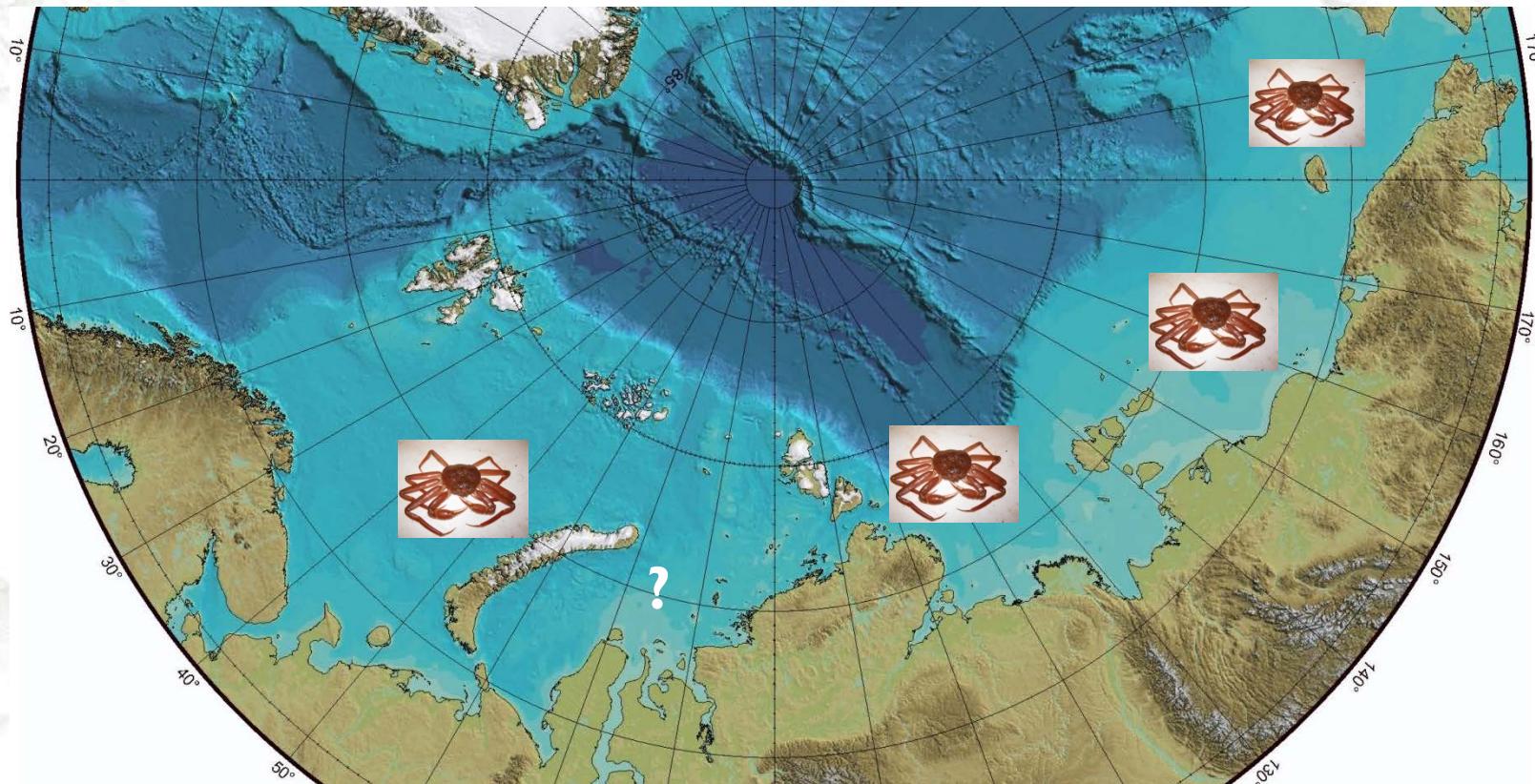
Jan H. Sundet
Institute of Marine Research, Norway

Native areas



HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH

Origin ?

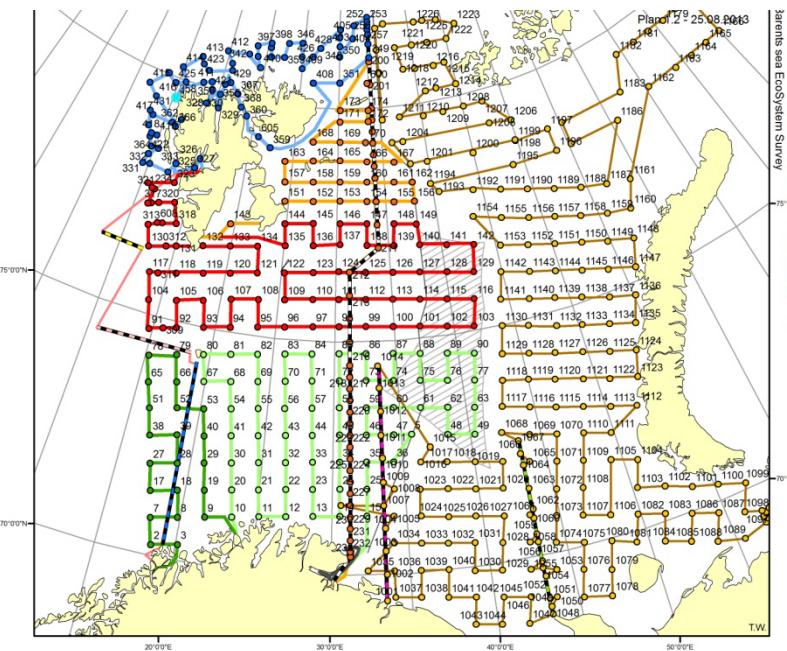


HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH

Complete data set

YEAR	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
By-catch	5	1	2	9	13	11	17	150	244	614	1824	493	598	55	3	17	0
Bottom Trawl surveys							27	102	38	73	0	286	1234	534	79	537	187
Russian-Norwegian Ecosystem Surveys									1	14	61	134	670	277	400	6657	37780

Crab categories



Juvenile crabs
(males and females < 50 mm CW)



Sublegal males
(50 - 100 mm CW)



Legal males
(>100 mm CW)



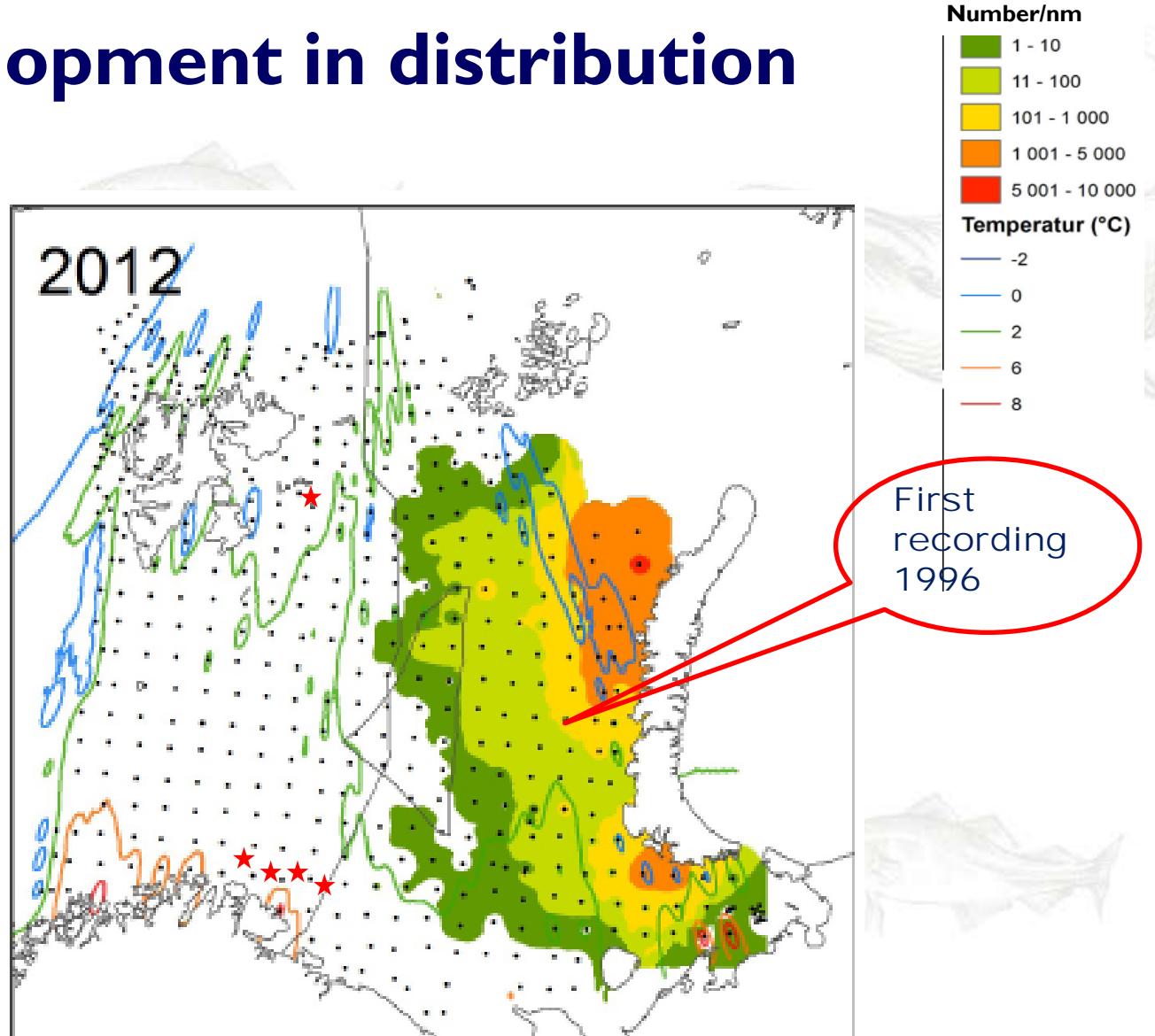
Females
(>50 mm CW)



HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH

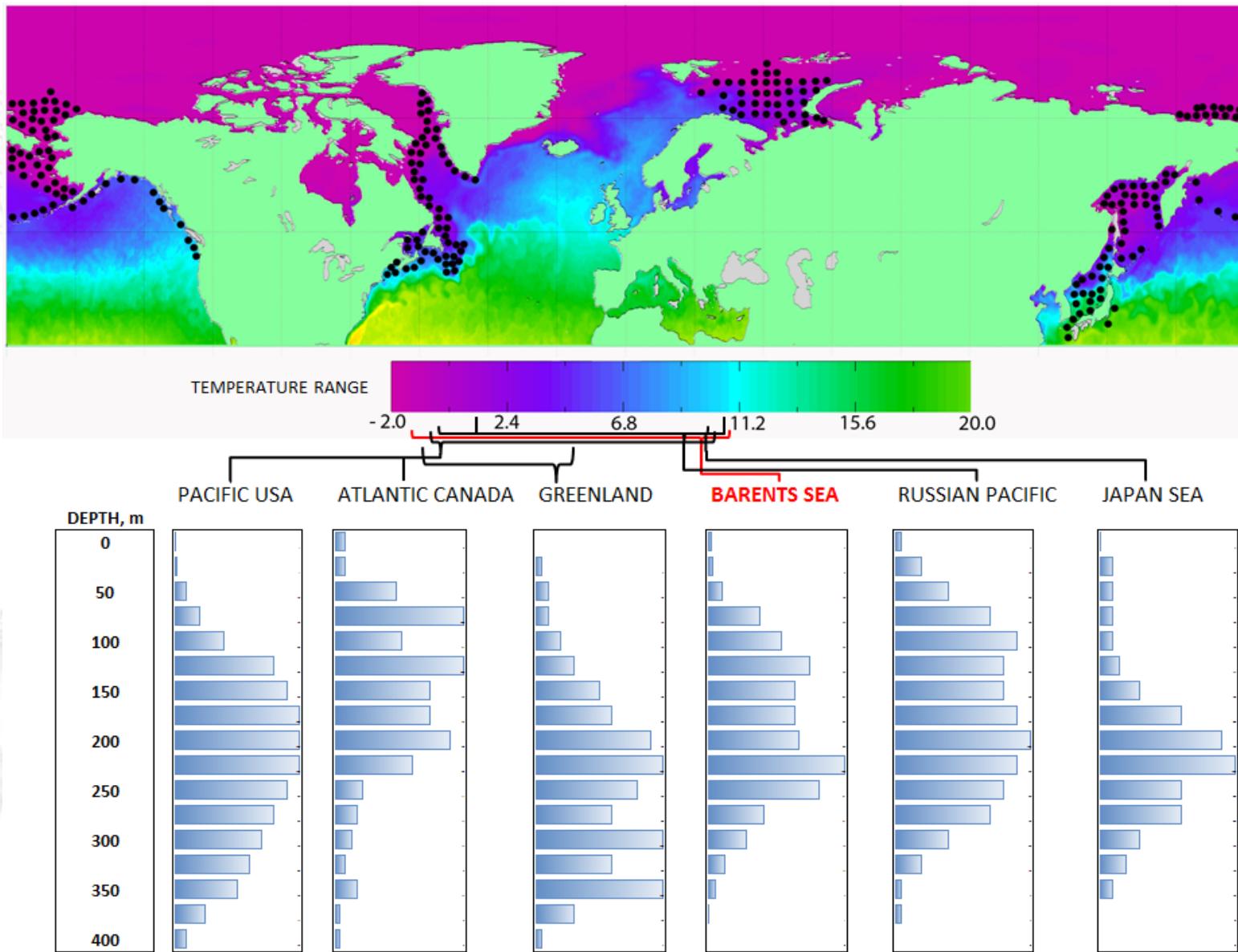
Development in distribution

Based on
bycatches from
annual
IMR/PINRO
ecosystem
cruises in the
Barents Sea

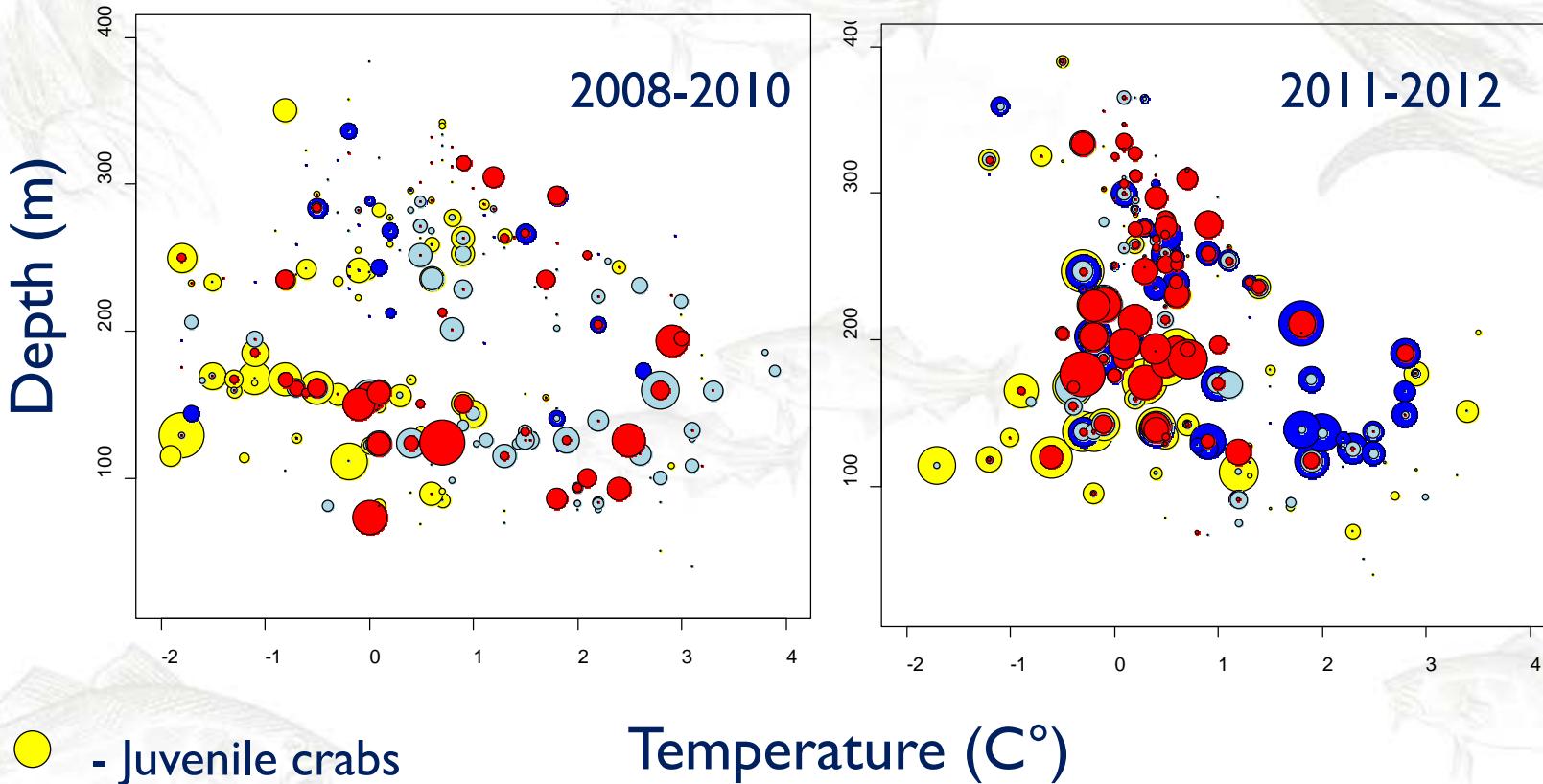


HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH

Depth distribution



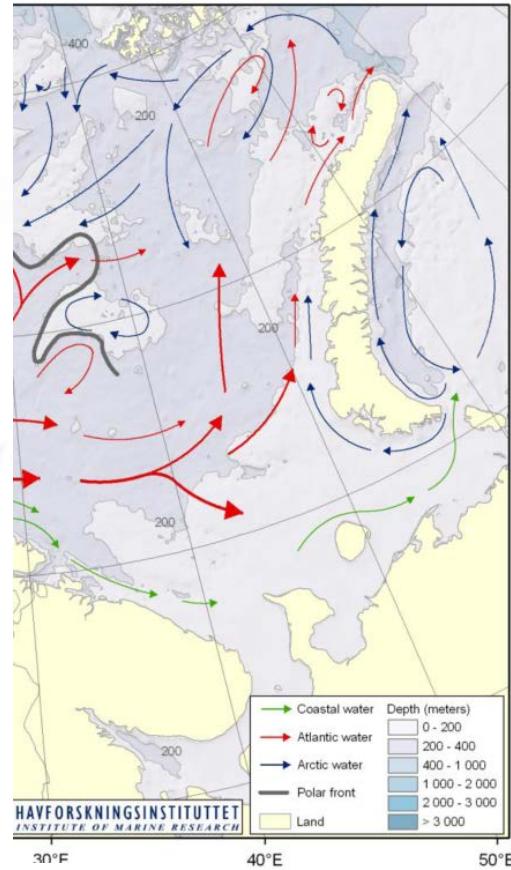
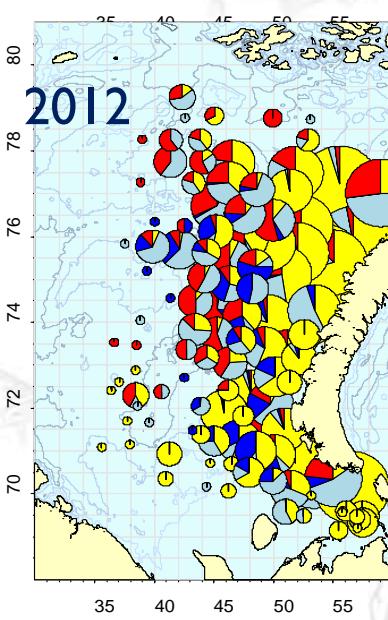
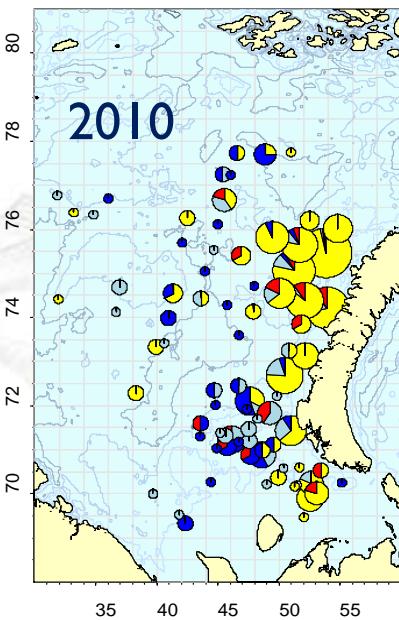
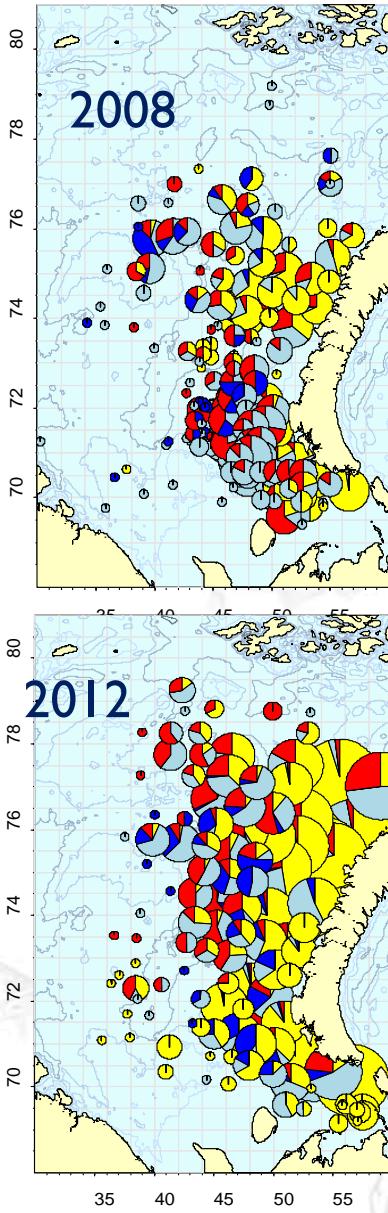
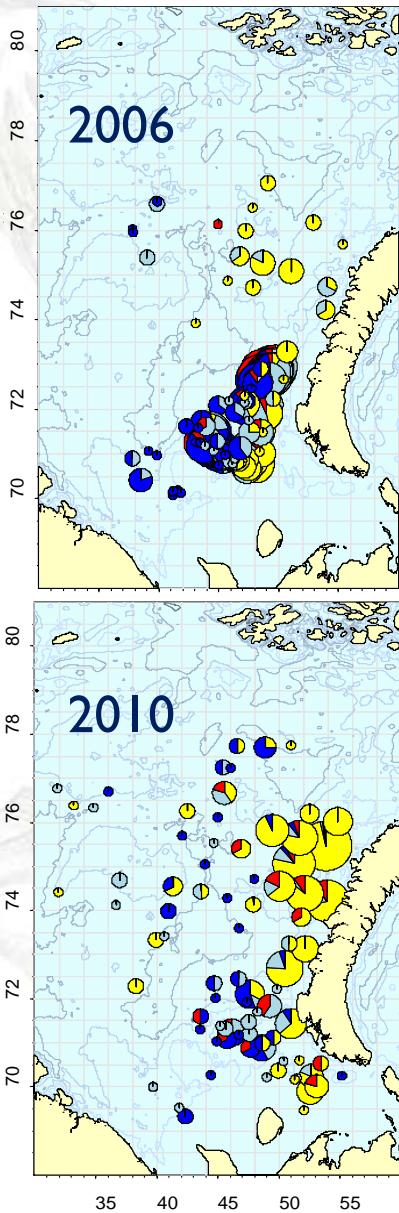
Distribution ~ depth and temperature



- Juvenile crabs
- Sublegal crabs
- Legal males
- Female crabs

Temperature (C°)

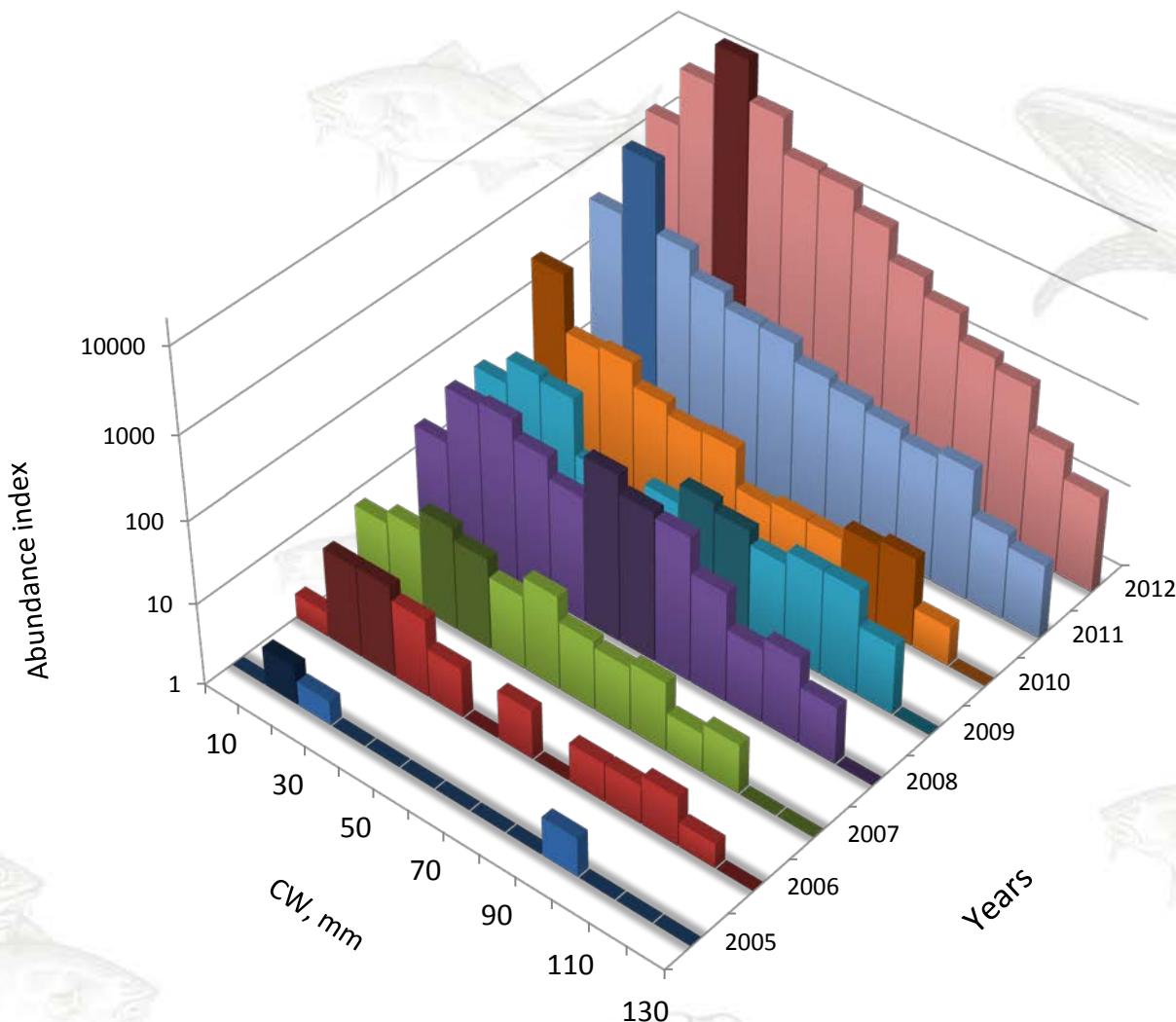
Sex and size distribution in the BS



Juvenile crabs Small Sublegal males
Small Sublegal males
Female Sublegal males

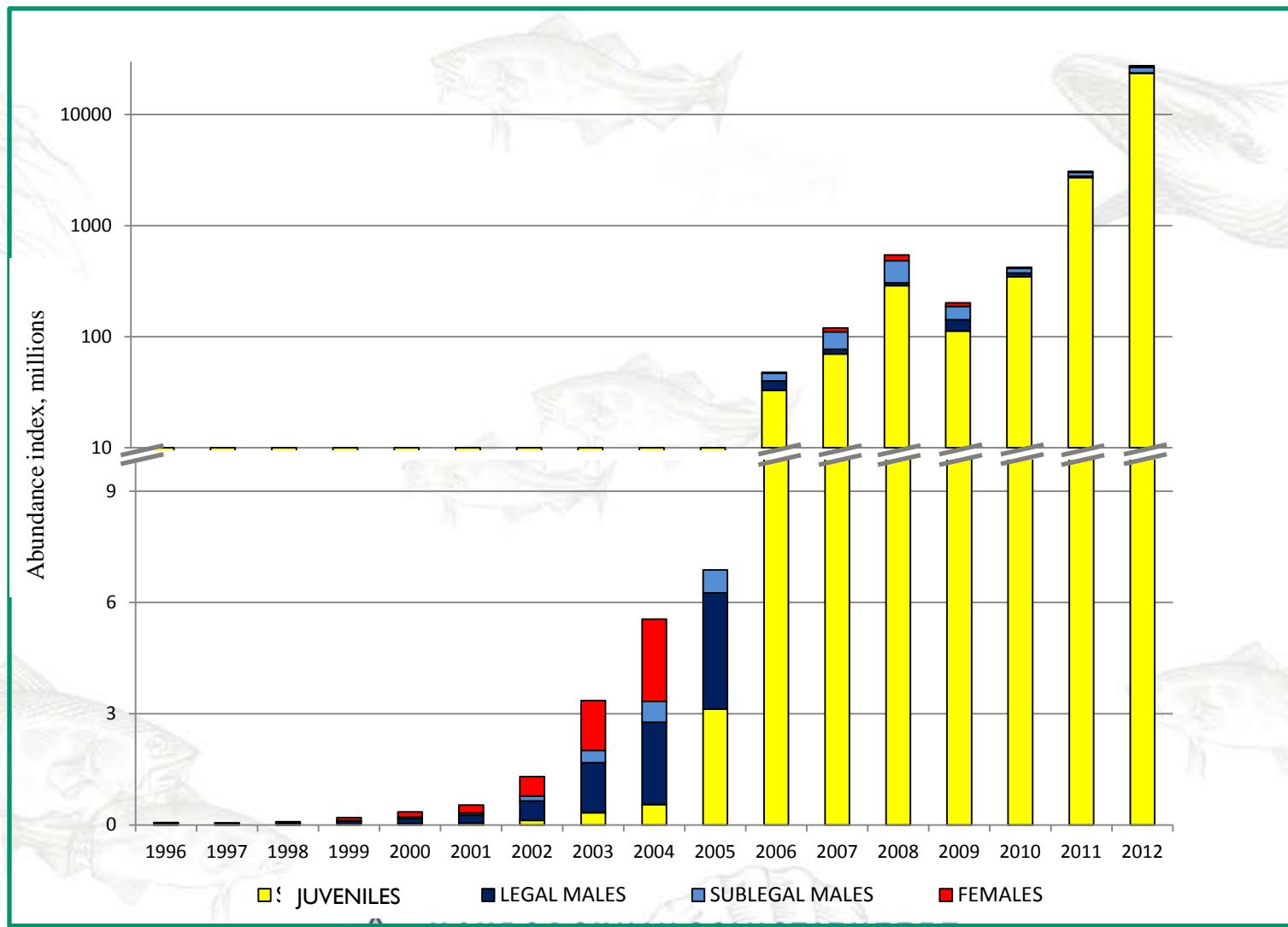


Recruitment



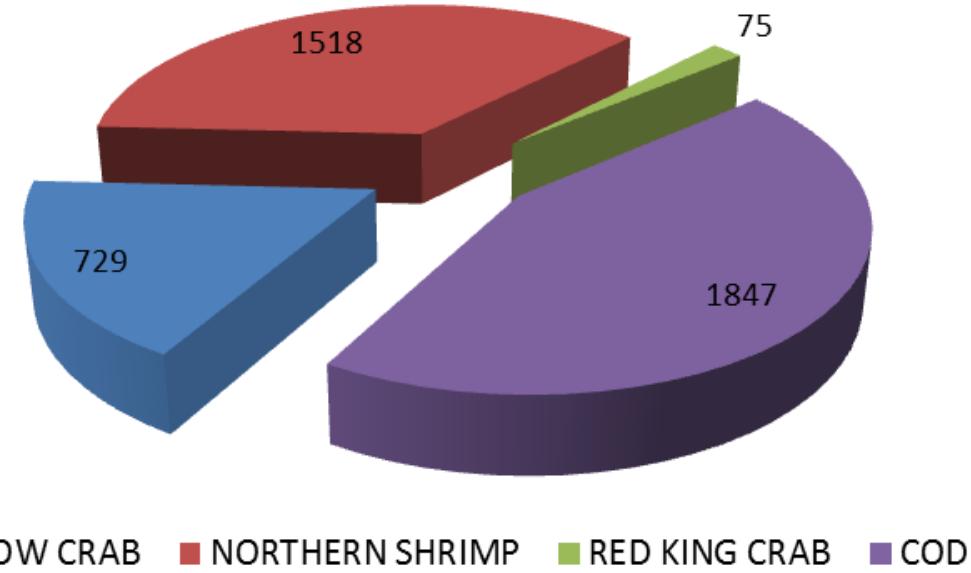
HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH

Perspectives



HAVFORSKNINGSIINSTITUTTET
INSTITUTE OF MARINE RESEARCH

Perspectives

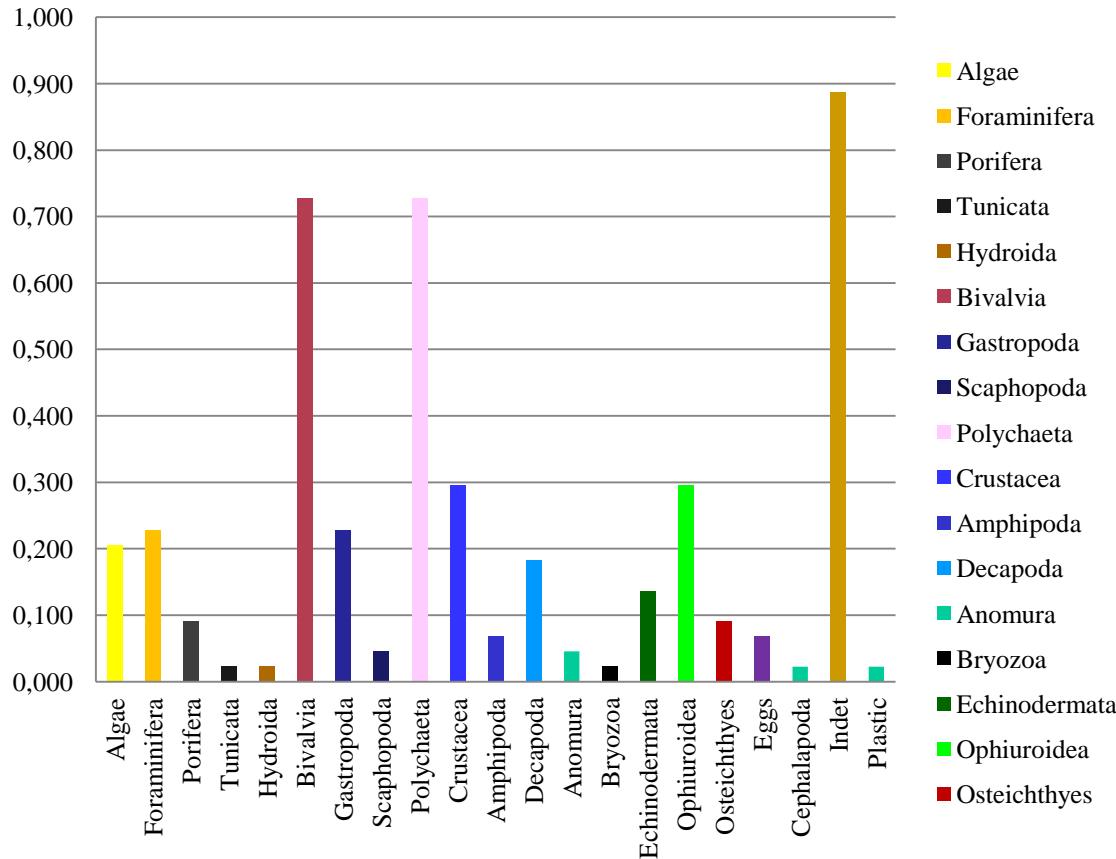


HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH

Impact on the ecosystem ?

Diet

Relative frequency of occurrence



HAVFORSKNINGSINSTITUTTET
INSTITUTE OF MARINE RESEARCH