

<b>Tuesday 10<sup>th</sup> May</b>				
0845 – 0910	<b>Register +POSTER SETUP</b>			
0915 – 1015	<b>OPEN CEREMONY (15 minute gap for dignitaries to depart)</b>			
1030 – 1120	K1*	<b>Welcome/intro and Sarah Hughes</b>	Marine Scotland, UK & ICES WGOH	<b>The ICES Report on Ocean Climate: variability in the ICES region.</b>
1120 – 1140	<b>COFFEE</b>			
1140 – 1200	3	Ken Drinkwater	Institute of Marine Research, Bergen	Changes in the NAO forcing in the North Atlantic during 2000-2009
-	-	Karim Hilmi	<b>CANCELLED</b>	<b>CANCELLED</b>
1200 – 1210	Ex1	<b>Exhibitor Presentation: AADIS IT – “AADI Long Term Monitoring Systems: new systems ad some references”</b>		
1210 – 1300	P1	<b>Poster Session</b>		
1300 – 1400	<b>LUNCH</b>			
1400 – 1440	K2	<b>Peter Rhines</b>	University of Washington, USA	<b>Climate variability in the North Atlantic, causes and consequences.</b>
1440 – 1500	40	Isabel Iglesias	University of Vigo	North-West Iberia maritime climate during the 20 <sup>th</sup> century and the beginning of the 21st
1500 – 1520	95	Raquel Somavilla	IEO, Santander	Mixed layer depth (MLD) variability in the southern Bay of Biscay. Deepening of winter MLDs concurrent with generalized upper water warming trends?
1520 – 1540	32	Ricardo González-Gil	Universidad de Oviedo	Long-term mesozooplankton changes in coastal waters of North Spain
1540 – 1600	60	Xosé Anxelu G. Morán	Instituto Español de Oceanografía, Xixón	More microbes with warming? Analysis of planktonic time-series in the southern Bay of Biscay continental shelf
1600 – 1620	<b>COFFEE</b>			
1620 – 1640	68	Almudena Fontán	AZTI-Tecnalia, Pasaia	Variability in hydroclimatic conditions observed during 2000-2009 in relation to the last decades, in the SE Bay of Biscay
1640 – 1700	19	Begoña Santos Vazquez	Instituto Español de Oceanografía, Vigo	Cycles and trends in the Iberian sardine stock and catch series and their relationship with the environment
1700 – 1720	79	Stefano Ciavatta	Plymouth Marine Laboratory, UK	Long-term variability of the lower trophic levels in the western English Channel
1720 – 1740	110	Henning Wehde	University of Bergen	Decadal variability of hydrodynamics and productivity in North and Baltic Seas, relating 2000-2009 to the earlier decades
1740 – 1800	125	Juergen Alheit	Leibniz Institute for Baltic Sea Research, Warnemuende	Impact of climate variability on North Sea ecosystem
1800 – 1820	44	Jon Albretsen	IMR, Flødevigen, Norway	Climatic variability in the Skagerrak and coastal waters of Norway
2000 –	<b>Evening Reception - Magdalena Palace</b>			

\*Throughout the Symposium all sessions will be held in plenary. Second column gives abstract reference number.

<b>Wednesday 11<sup>th</sup> May</b>				
0900 – 0940	K3	Peter Wiebe	WHOI, USA	<b>Plankton variability in the ICES area.</b>
0940 – 1000	128	Tore Johannessen	Institute of Marine Research, Flødevigen, Norway	Concurrent recruitment failure in gadoids and changes in the planktonic community along the Norwegian Skagerrak coast after 2002
1000 – 1020	50	Samuel Shephard	Galway-Mayo Institute of Technology	Size-based indicators suggest sustained changes in size-structure of the Celtic Sea demersal fish community
1020 – 1040	24	Glenn Nolan	Irish Marine Institute, Galway	Variability in the physical structure, ocean chemistry, plankton ecology and commercial fish of the seas around Ireland between 1997 and 2010
1040 – 1100	<b>COFFEE</b>			
1100 – 1120	27	Toby Sherwin	SAMS, UK	60 years of monitoring the Rockall Trough
1120 – 1140	77	Michael Penston	Marine Scotland Science	Seasonal and interannual variation of two <i>Calanus</i> species off the east and west coasts of Scotland
1140 – 1200	106	Karin M. Larsen	Faroe Marine Research Institute	Atlantic water flow through the Faroe area 2000-2009
1200 – 1210	Ex2	<b>Exhibitor Presentation: INNOVA Oceanografia litoral, S.L. - "The role of companies in climate change".</b>		
1210 – 1230	119	Eilif Gaard	Faroe Marine Research Institute	Zooplankton variability on the Faroe Shelf and in the surrounding oceanic area in relation to phytoplankton and physical conditions
1230 – 1250	111	Svein Østerhus	Bjerknes Centre for Climate Research, Bergen	Ocean Weather Ship Station M 1948-2009 - the end of the North Atlantic Weather Ship era
1250 – 1400	<b>LUNCH</b>			
1400 – 1440	K4	Mike Sinclair	ICES	<b>Variability in fish production and the environment.</b>
1440 – 1500	25	Hjálmar Hátún	Faroe Marine Research Institute.	Sub-decadal oceanic oscillations regulate the north-eastern Atlantic shelf ecosystems
1500 – 1520	114	Henning Wehde	Institute of Marine Research, Bergen	Decadal changes in ocean chlorophyll
1520 – 1540	100	Clive Trueman	University of Southampton	Stable isotope evidence for the rate at which climate-driven variations in phytoplankton growth influence higher trophic levels
1540 – 1600	<b>COFFEE</b>			
1600 – 1620	18	Kjell Arne Mork	Institute of Marine Research, Bergen	Hydrographic variability in the Norwegian Sea during 1995-2010
1620 – 1640	70	Waldemar Walczowski	Institute of Oceanology Polish Academy of Sciences	Atlantic Water - the main driver of the European Arctic marine ecosystem
1640 – 1700	113	Katrin Latarius	Institut für Meereskunde, University of Hamburg	Seasonal to interannual variability of temperature and salinity in the Nordic Seas: heat and freshwater budgets
1700 – 1830	P2	<b>Drinks &amp; Poster Session</b>		
2030 –	<b>Conference Dinner - Silken Rio Hotel</b>			

<b>Thursday 12<sup>th</sup> May</b>				
0900 – 0940	K5	Andrew Kenny	Cefas, UK	Ecosystem variability, preparing an integrated assessment of the North Sea.
0940 – 1000	130	Geir Ottersen	Institute of Marine Research, Oslo, Norway	The serial recruitment failure to North Sea fish stocks during the 2000s, is climate to blame?
1000 – 1020	12	Alexey Karsakov	PRIMFO, Murmansk	Current state of the Atlantic waters and climate in the Barents Sea
1020 – 1040	21	Alexander Trofimov	Polar Research Institute of Marine Fisheries and Oceanography, Murmansk	Structure of the Barents Sea plankton communities under climate change conditions during 2000-2009
1040 – 1100	<b>COFFEE</b>			
1100 – 1120	15	Edda Johannesen	Institute of Marine Research, Bergen	Barents Sea ecosystem state: climate fluctuations, human impact and system resilience
1120 – 1140	112	Slawomir Kwasniewski	Institute of Oceanology Polish Academy of Sciences, Sopot	Multi-year variability in zooplankton on the West Spitsbergen Shelf in relation to hydrography, and impacts on planktivorous seabirds
1140 – 1200	85	Eduard Bauerfeind	Alfred Wegener Institute for Polar and Marine Research	Phytoplankton community structure analysed with molecular methods during late summers 2000 -2008 obtained from sediment traps at the AWI deep-sea observatory HAUSGARTEN (79°N/4°E)
1200 – 1220	31	Héðinn Valdimarsson	Marine Research Institute, Reykjavik	A review of hydrographic variability in Icelandic waters during recent decades and changes in distribution of fish species
1220 – 1240	73	Stephen Dye	Cefas, UK	Properties and variability of the Denmark Strait Overflow
1240 – 1400	<b>LUNCH</b>			
1400 – 1420	107	Johannes Karstensen	Liebniz-Institute for Marine Sciences, Kiel	On the role of freshwater forcing on the convection intensity in the central Irminger Sea between 2002 and 2011
1420 – 1440	67	Eugene Colbourne	Northwest Atlantic Fisheries Centre, St. John's	Ecosystem variability in NAFO Waters adjacent to the Newfoundland and Labrador Shelves during 2000-2009
1440 – 1500	137	Erica Head	Fisheries and Oceans Canada, BIO	Long-term variability (1958-2009) in the plankton in Northwest Atlantic shelf and oceanic regions in relation to hydrography
1500 – 1520	83	Alfonso Pérez-Rodríguez	Institute of Marine Research, Vigo	Study of the demersal fish community of the Flemish Cap (NAFO Div. 3M): Changes in community structure and common trends
1520 – 1540	132	Brian Rothschild	University of Massachusetts, New Bedford, US	Contrasting the variability of Northwest Atlantic fish populations during 2000-2009 with 1960-2010
1540 – 1600	14	Steve Cadrin	University of Massachusetts, Dartmouth, US	Differential impacts of climate change on spawning populations of Atlantic cod in U.S. waters
1600 - 1620	<b>Concluding Remarks &amp; Symposium Close</b>			

Note: During the congress, the company EMS "Sistemas de Monitorización Medio Ambiental, S.L." will showcase instrumental, equipments and systems used by the oceanography community.