Dansk Center for Havforskning

Applications regarding shiptime 2010

14-09-2010

OVERVIEW /application no.	2011-01	2011-02	2011-03	2011-04
Applicant	John Fleng Steffensen, Professor mso Marine Biological Section, University of Copenhagen Strandpromenaden 5, DK-3000 Helsingør, Denmark +45 35321950 / +45 35321986 JFSteffensen@bio.ku.dk	Francisca Staines-Urías, PhD, Geological Survey of Denmark and Greenland, Marine Geology and Glaciology Department. Øster Volgade 10, 1350 Copenhagen K, Denmark, Phone + 45 3814 2900 fsu@geus.dk	Hans Ulrik Riisgård Marinbiologisk Forskningscenter (SDU) Hindsholmvej 11 5300 Kerteminde	Henrik Mosegaard, Ph.D., Head of Section Population Ecology and Genetics, National Institute of Aquatic Resources, Charlottenlund Castle, 2920 Charlottenlund phone number: 0045-35883461, hm@aqua.dtu.dk
Cruiseleader	Dr. John Fleng Steffensen	Francisca Staines-Urías	Hans Ulrik Riisgård	Bastian Huwer, Ph.D.
Consortium (institutions)	KU, UniversityTromsø, Indiana University South Bend, Virginia Institute of Marine Science, DTU	GEUS , AU, Universidad Autonoma de Baja California (UABC), University of Bremen,Utrecht University, Instituto de Oceanología (Cuba)	SDU /DCH	DTU, AU, Leibniz Institute of Marine Sciences at Kiel University, Institute for Hydrobiology and Fisheries Science
Cruise name	Biology of marine fishes of North East Greenland 2011 (2012).	HOLOVAR 2010	nationalt uddannelseskursus i biologisk-fysisk oceanografi om bord på R/V Dana	Vectors BS1
Project name	Biology of marine fishes of North East Greenland.	Reconstructing oceanographic HOLOcene VARiability: connecting the Tropics and the North Atlantic	Det nationale uddannelseskursus i biologisk-fysisk oceanografi om bord på R/V Dana	Vectors of Change in Oceans and Seas Marine Life, Impact on Economic Sectors (VECTORS), FP7 Integrated Project
Cruise/project acronym	FishGreen	HOLOVAR-2011		Vectors BS1
Cruise objectives	Parts of two scientific on-going projects will be carried on the suggested cruise: 1: Biology of Greenland sharks. The project will examine methods to reduce by-catch in the long-line fisheries using electropositive metal. Behavior and thermal preferences as well as position will be determined using satellite pop-up-tags (Desert Star). 2: TUNU-Mafig – Marine Fishes of North East Greenland – diversity and adaptation	The main purpose of this cruise is to acquire a series of sediment cores along the Yucatán Strait, from the Mexican and the Cuban margins, to generate a multi-proxy record of high resolution in order to reconstruct past climate and oceanographic variability in the region. Obtaining complementary water samples, hydrographic and sea-bottom structure data will also constitute a fundamental part of the work.	demonstrationer af måleudstyr og indsamlingsgrej, indsamling af prøver til videre behandling om bord samt en række forelæsninger over relevante emner.	Trophic interactions between zooplankton and fish under the influence of physical processes with a specific focus on recruitment processes of cod in the central Baltic. Collected data from the cruise will inform coupled bio-physical individual based models with cod early life stages and their prey and predator field integrated to be established within the Integrated FP7 project VECTORS.
Geographical area	Fjords in North East Greenland from Scoresbysund in the south (70 15 N, 21 47 E) to Kejser Franz Joseph Fjord in the north (74 N, 20 E) and off-shore to maximum 1000 meters depth.	The Yucatán Channel (or Yucatán Strait) - The passageway connecting the Caribbean and the Gulf of Mexico.	Kattegat, Østersøen	Western and central Baltic: Arkona Basin, Bornholm Basin and Stolpe Trench, including Danish, German, Swedish and Polish national zones.
Preferred ship	Dana, alternatively R/V Jan Mayen from Tromsø University	The B/O Justo Sierra (length: 50 m) is a Mexican oceanographic research vessel	Dana	RV Baltica
Preferred period	20 days (including 2 * 5 days in transit) ultimo August to ultimo September 2011 or 2012	second half of February 2011	5 dage forår 2011 i forbindelse med Danas sejlads fra Hirtshals til Bornholm	July 2011, being the peak spawning time of cod in the central Baltic.

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Operation type	The basic operations will include fishing with trawl and longlines at depths up to 1200 meters as well as CTD-profiles from the fishing stations.	Sediment samples—by gravity and multicore retrieval—from depths ranging between 500 and 3000 m. Hydrographic data and water samples will be collected during transit and in association with all coring locations. Sea bed profiling will be completed at selected locations as well as in association with coring.	hydrografi, plankton, vandkemi, elementkredsløb, benthisk-pelagisk kobling, sedimentprocesser o.l. langs et transekt fra Hirtshals til København, hvor underviserne udskiftes med andre, således at der på resten af togtet fra København til Rønne kan arbejdes med fiskeribiologi, demonstration af fiskeredskaber o.l.	Pelagic and depending on oxygen conditions bottom trawl fishery during day-time and plankton sampling/hydrography measurements during night time/on a 24-h basis.
Cruise participants	20 pax	12 pax	25 pax	8 pax
Harbour of em- and disembarkment	Hirtshals/Iceland or Scoresbysund alternatively Longyearbyen (R/V Jan Mayen)	Tuxpan, Veracruz, Mexico	Hirtshals-København-Rønne	Embarkment and disembarkment in Gdynia, Poland.
Requested funding	DKK 2.800.000	DKK 499.100	DKK 625.000	DKK 493.000