

OVERVIEW /application no.	2010-01	2010-02	2010-03	2010-04
Applicant	Camilla Snowman Andresen, Ph.d. Steno-	Bo Barker Jørgensen, Professor Dr., Director,	Professor Torkel Gissel Nielsen, National Institute	DCH
	stipendiate, Geological Survey of Denmark and	Head of Center, Center for Geomicrobiology,	of Aquatic Resources, Section for Ocean Ecology	
	Greenland, Dept. of Marine Geology and	Dept. of Biological Sciences, Aarhus University Ny	and Climate, Technical University of Denmark,	
	Glaciology, Øster Voldgade 10, 1350 Copenhagen	Munkegade, Bld. 1540, DK-8000 Århus C +45 89	Kavalergården 6, 2920 Charlotten lund Denmark,	
	K, Denmark, Phone: +45 3814 2563,csa@geus.dk	42 33 14; mobile +45 20 10 21 23;	Direct phone +4533963424, mobile	
		bo.barker@biology.au.dk	+4525580657, e-mail tgin@aqua.dtu.dk	
Cruiseleader	Camilla Snowman Andresen	Henrik Fossing, Dr., Head of Section, Senior	Professor Torkel Gissel Nielsen	Andy Visser, Morten Holtegaard
		Scientist, National Environmental Research		
		Institute, Aarhus University, Vejlsøvej 25, POB		
		314, DK-8600 Silkeborg, +45 89 20 17 50;		
Concentium (institutions)		hfo@dmu.dk		
Consortium (institutions)	GEUS, AU SEDIMICE fieldwork 2010	AU, GEUS, SDU, MPI	DID Aqua, AU, SAIVIS, GCRC Biological Oceanography of Eullas Bank	DCH Transit cruise field course
Cruise name	SEDIMICE HEIGWORK 2010	Adrius bay cruise 2010	Godthåbsfjorden	
Project name	Linking sediments with ice-sheet response and	Biogeochemistry, microbiology and stratigraphy	Arctic plankton dynamics – in a changing climate	
	glacier retreat in Southeast Greenland	of Holocene sediments in Aarhus Bay		
Cruise/project acronym	SEDIMICE-2010	ABC-2010	BOFYGO	
Cruise objectives	Retrieving sediment cores from Sermilik Fjord	The major objective is to acquire undisturbed	The major aims of the cruise is 1) to examine	This course is designed in part to give
	and the shelf off Tasiilaq in Southeast Greenland	continuous sediment cores ranging from the	important bio-physical linkages in the frontal	students a sea-going experience and
	in order to reconstruct palaeoclimatic and past	sediment-water interface to the base of the	systems off the important fishing Banks along	practical introduction to ocean sampling.
	ocean variability in the region. Coring will be	Holocene deposits (at 11-15 m below seafloor) at	South Western Greenland, and 2) to evaluate the	Key elements will include the use of a CID
	conducted from the vessel M/V Fox with a	several stations in Arnus Bay.	general hydrographic influence, especially the	and rosette water sampler - pernaps the
	meter wire		structure composition and production of the	oceanographic measurement Additional
	meter wire.		nelagic food web in Godthåbfiord	instruments (e.g. TRIAXIIS ADCP "Ferry
			penagie rood web in Gouthabijora.	Box 'and acoustic systems) and techniques
				for determining salinity, chlorophyll
				concentrations, light attenuation, and
				plankton sampling.
Geographical area	Sermilik Fjord (East Greenland) and the shelf	Århus Bay, Denmark	Fylla Bank just off Nuuk along a transect trough	The ships preferred route from Tromsø to
	adjacent to the mouth of the fjord. The whole		the Godthåbfjord to the ice cap in the innermost	Nuuk, and prefeered route from Nuuk to
	cruise will take place in coastal waters of the		part of the Fjord.	Hirthals
	Greenland offshore sector.			
Preferred ship	The Faroese research vessel M/V Fox (34 m long -	Susanne A", IMO no. 9099183, a "multipurpose	Dana	Dana
	a former fishery vessel) will be platform for the	salvage diving support vessel". 54 m, with space		
	planned marine geological work (sediment	for a laboratory container, and a suitable crane		
	coring).	capacity and large deck space to operate a 15 m		
		gravity corer.		
Preferred period	Transit: 30/7-1/8 (3 days) Work: 2/8- 5/8 (4 days)	May 3-7, 2010, preferably Monday to	Cruise on location (Nuuk to Nuuk) from June 6. to	28 May to 5 June 2010, 24 June to 1 July
	Transit: 6/8- 8/8 (3 days)	Wednesday.	June 23, 2010.	2010



Applications regarding shiptime 2010

Operation type	Retrieving sediment material with a gravity and box corer from water depths down to 1000 m. Gravity corer handled with a mobile winch driven by a power pack. Sediment cores of 3-5 m cut into c. 1.5 meter pieces for easier handling. No analyses onboard ship. Only daytime work.	Ship-board operation will be daytime only out of Århus Harbor. Primarily gravity coring from the aft deck while the ship is held on position dynamically.	Oceanographic research using smaller gears hydrographic measurements and biological sampling. The basic operations will be cond primarily during daytime, but at the intensit study areas part of the work will be done ar the clock. Approx half of cruise time will be work.
Cruise participants Harbour of em- and disembarkment	3 pax Tinitelaq in Sermilik Fjord by Tasiilaq (Southeast Greenland).	18 pax Århus - Århus	22 pax All equipment will be embarked in Hirtshals before the preceding cruise to the Norwegi Sea. Cruise participants will embark and disembark in Nuuk, Greenland.
Requested funding	DKK 297.000	DKK 209.100	DKK 2.751.000

rs for Operations limited to weather and time permitting activities, e.g. CTD, Triaxus, ducted Multinet, etc). sive around e 24 h

23 pax and 19 pax ls Tromsø-Nuuk and Nuuk-Hirtshals gian

DKK 2.400.000