University of Edinburgh, Scotland

10 to 15 July 2011

11th International Symposium on Antarctic Earth Sciences

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New Abstract	ROSSLOPE: Past and present sedimentary dynamic in the ROSS Sea: a multidisciplinary approach to study the continental SLOPE	Thursday 31 March 2011 (5pmGMT) Closing date for registration: Friday 08 July 2011
Ref:712 Very recent		If you have any queries please contact the
sedimentation in the	Orași a	conference administrator isaes@intel-
northwestern Ross Sea	Session	events.co.uk
coastal areas	Geological controls on the modern and past Antarctic bottom water and	
submitted on Thursday 31st	marine environment	
March 2011 8.33am	Authors:	
Ref:713 ROSSLOPE:	Ester Colizza ^[1] , Gualtiero Bohm ^[2] , Lucilla Capotondi ^[3] , Furio Finocc	biaro ^[1] Federico Giglio ^[3] Gerbard Kubn ^[4] Paola
Past and present	Maffioli ^[5] , Elisa Malinverno ^[5] , Massimo Presti ^[2] ,	
sedimentary dynamic		
in the ROSS Sea: a	1. Dipartimento di Geoscienze-Università di Trieste-Italy	
multidisciplinary	2. Istituto Nazionale di Oceanografia e di Geofisica Sperimentale – OGS – Trieste-Italy	
approach to study the	3. Istituto di Scienze Marine – CNR Bologna-Italy	
continental SLOPE	 AWI – Bremerhaven-Germany Dip. Scienze Geologiche e Geotecnologie Università Milano-Bicocca-Milano-Italy 	
submitted on Thursday 31st March 2011 12.35pm		
March 2011 12.35pm		
Abstract Submission Presentation Type:		
Guidelines		
	Poster	
Poster Printing		
Guidelines	Abstract:	
ISAES 2011 Homepage	The ROSSLOPE is an Italian Antarctic project approved in the framework of the	
	PNRA. The investigation of the interactions among marine currents, sea floor morphology, sediment texture and benthic communities is crucial to understand the	
Change Password	dynamics of depositional and erosive processes on present-day seafloor, and	
Contact Lie	represents an important key to study the paleo-environmental variation of the	
Contact Us	southern antarctic and subantarctic areas.	
Terms & Conditions	This project aims to investigate the relation between present and past v	
Terris & Conditions	circulation from modern and late-Cenozoic sedimentary sequences of the Ross Sea outer shelf and continental slope of the area of Adare and Central Basins, and the	
Log Out	area to the east of Pennell-Iselin Banks. The study will be performed through the	
comparison and integration of data concerning the circulation of the present dense,		
	cold water masses produced in the Ross Sea (HSSW e ISW), with 1) r of physical-chemical-biotic characteristics of surface sediments (water-	
	interface) and within the top 5 meters beneath the seafloor, 2) the geo-morphological	
	features of these areas, 3) benthic acoustic facies typically related both to bottom-	
	current activity (i.e. sediment drifts) and to down-slope mass processes	s within the
	stratigraphic section. In these areas few and scattered geological, geophysical, oceanograph	bic and
	morpho-bathymetric data exist. We propose to study these existing data. The data	
	base is constituted of previous data of: 1) multibeam surveys collected during PNRA	
	and USA geophysical cruises 2) single-channel and multichannel Italian and foreign	
	seismic data available by the Seismic Data Library System 3) PNRA sediment box cores and cores of which most already studied for other purposes and others yet to	
	be studied.	
	Moreover new morpho-bathymetric and sub-bottom acoustic data together with cores	
	and box cores will be collected. All results will be compared in a multidi	
	with oceanographic knowledge to provide a depositional model of the modern	

continental slope processes as a basis for paleoceanographic reconstructions.

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