

CRUISE SUMMARY REPORT

CRUISE Name : ACS3-2 **No :** GDP08-??

CRUISE PERIOD start : 15 may 2008 **to end :** 21 may 2008

PORT OF DEPARTURE Bar (Gma Gora - Montenegro)

PORT OF RETURN Ancona (Italy)

SHIP Name : DALLAPORTA **Call Sign :** IILD2 **Type of ship :** trawl research vessel (35 m.)

RESPONSIBLE LABORATORY Name : CNR-ISMAR-Bologna **Address :** Via Piero Gobetti, 101 Bologna, 40129 **Country :** ITALY

CHIEF SCIENTIST(S) Name : Paschini Elio CNR-ISMAR-AN

OBJECTIVES AND BRIEF NARRATIVE OF CRUISE

This is the second leg of the third seasonal monitoring cruise of ADRICOSM-STAR Project. This leg was dedicated to the sediment sampling activity. During the first leg there was oceanographic and mesoscale activity. The ship started on Thursday 15 may. from the port of Bar.

The technical crew was composed by:

F. Chiarini, P. Focaccia, F. Giglio, and R. Lipparini from ISMAR Bologna;

Rosa Maria Cavalli, and Cristiana Bassani from IIA Lara-Roma;

Giuseppe Cacciamo from ISMAR Ancona.

Montenegrin staff: Zoran Kljajic and Aleksandar Jovicic.

Albanian staff: Ervin Moçka.

The ship sailed southward to reach the Albanian Territorial Sea to collect 2 samples south to the Bojana river Mouth, than 2 more samples were collected close to the river delta in front of the river mouth; after that the ship sail along a south east/North west transect in order to collect 7 samples. At the end of the open marine transect the ship sailed into the Bokakotorska bay and start the sampling of the bay and more precisely has been sampled one station just outside the mouth of the bay, 5 stations in the bay of Herceg Novi, 5 stations in the bay of Zaliv and 11 stations in the bay of Kotor. In about all the sites of Bokakotorska bay and the open marine sector a box core and a gravity core samples were collected. The gravity cores were cut in two peaces in order to obtain pieces not longer than 1 m. The core length span from ca. 40 cm to 190 cm The box cores was sub sampled with a short cores (ca.20 cm) in order to preserve the surficial sediment, moreover water/sediment interfaces were sub sampled from the remaining sediment. The sediment was preliminary described for the visual characteristics. The first 1,5 day the ship activity has been focused in Herceg Novi bay, the two days after was spend in order to sample the other two bay. During the cruise a total of about 100 samples were collected: 11 Box corers, 11 Cores and 11 surface sediment samples in Open marine sector and 21 Box corer, 20 cores and 25 surface sediment samples in Bokakotorska bay.

The ship remain in the Tivat Harbour on 18 of may due to bad meteo condition, and leave from Tivat on the morning of 20 to arrive in Ancona on 21 of May in the morning, were the cruise ended. One more short stop has been made in Zelenica in order to disembark the Montenegrin and Albanian personnel and to make the check out procedure.

The techincal crew was organised as follow in order to perform all the activity:

F. Giglio and E. Lipparini: coring operation.

P. Focaccia and F. Chiarini: Box core sub sampling operations and sediment description.

Cacciamo performed the navigation, CTD and rosette operations.

Cavalli and Bassani perfomed radiometric measurements and colored DOM analysis at some stations.

PROJECT name : ADRICOSM-STAR **Coordinating body :** CMCC viale Gallipoli, 49 Lecce 73100 ITALY

PRINCIPAL INVESTIGATORS

	name	body	address	country	e-mail
A	Federico Giglio	CNR-ISMAR-Bologna	via Piero Gobetti, 101 Bologna 40129	ITALY	<i>federico.giglio@ismar.cnr.it</i>
B	Elio Paschini	CNR-ISMAR-Ancona	Largo Fiera della Pesca,2 Ancona 60125	ITALY	<i>e.paschini@ismar.cnr.it</i>
C	Mauro Marini	as above			<i>m.marini@ismar.cnr.it</i>
D	Zoran Kljajic	IBMK	Dobrota bb, POB 85330 Kotor	MONTENEGRO	<i>biokotor@cg.yu</i>
E	Rosa Maria Cavalli	CNR-IIA-LARA	via del Fosso del Cavaliere, Roma 00133	ITALY	<i>rosa.cavalli@lara.rm.cnr.it</i>

MOORINGS, BOTTOM MOUNTED GEAR AND DRIFTING SYSTEMS

PI Latitude Longitude TYPE DESCRIPTION

- - - - -

SUMMARY OF MEASUREMENTS AND SAMPLES TAKEN

PI NO	UNITS	TYPE	DESCRIPTION
A 32	casts	G04	Box corer of 30x15x20 cm
A 32	casts	G04	Gravity corer for 2 m liner

A 32 samples	G90	from Box corer for on shore laboratory analysis
A 32 samples	G90	from surface Box corer for on shore laboratory analysis
A 32 corers	G90	form Gravity corer for on shore laboratory analysis
B 5 days	D90	cruise track Navigation program SeaClearII with GARMIN GPS 36 and JRC JFV echo-sounder
B 5 days	H71	surface temperature underway with AANDERAA model 3660 Datalogger and 3444 sensor with 1 reading/minute
B 26 casts	H10	SBE911plus (C, T, D) with SBE43 (Oxy), TURNER SCUFA(FI,Tur), BENTHOS 916(Alt)
B 26 casts	H09	Carousel SBE32 with 4 bottles of 10 litres and 3 of 1.7 litres
C 52 samples	B02	Phyto-plankton Pigments (Chlorophyl a, b, c) on shore analysis with HPLC DIONEX model PDA100+GP50
C 52 samples	B06	Colored DOM on board analysis with spectral-photometer Perkin-Elmer
C 52 samples	B90	Total Suspended matter on shore analysis with gravimetric method
D 1 sample	G90	from Box corer for on shore laboratory analysis
E 32 measurements	D90	radiometer instrument for airborne hyperspectral data calibration and validation (sea surface reflectance measurement)

TRACK CHART : none

GENERAL OCEAN AREA(S) : Eastern Mediterranean Sea (179 Marsden Square)

SPECIFIC AREAS : South Adriatic Sea
