

CRUISE SUMMARY REPORT

CRUISE Name : ACS3-1 **No :** GDP08-??

CRUISE PERIOD start : 09 may 2008 **to end :** 15 may 2008

PORT OF DEPARTURE Ancona (Italy)

PORT OF RETURN Bar (Grna Gora - Montenegro)

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

RESPONSIBLE LABORATORY Name : CNR-ISMAR-AN **Address :** Largo Fiera della Pesca, 2 Ancona, 60125 **Country :** ITALY

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

OBJECTIVES AND BRIEF NARRATIVE OF CRUISE

This is the first leg of the third seasonal (spring) monitoring cruise and two mesoscale survey of ADRICOSM-STAR Project. Surface water reflectance measurements for HYPAD.COM project.

The second leg was dedicated to the geological sampling

The ship departed on monday afternoon 09 may. Two CTD cast was made in western and central depression of Jabuka Pit during the sail for LTER Project.

Dallaporta arrived, in Zelenika on the 10 may, where all the foreign staff went on board.

From Montenegro: Kljajic and Jovicic.

From Albania: Como and Murtaj.

Then the ship sailed further inside Boka Kotorcska to make CTD casts in every basins (KO,TV and HN stations).

When exited to open sea, she sail to the mesoscale area in front of Ulcinj town.

Due to the lack of clearance to sail into the Albanian Territorial Sea, the mesoscale area shifted interely into Montenegro territorial water. From the original array of 9X9 stations grid, a 7X11 grid was made in less of 24 hours (about a CTD cast every 17 minutes). On 12 may, the ship sailed to the off-shore station of transect 1 to begin the seasonal cruise.

Transect 1, 2, 3 ,4 were performed in that order. We start the transect 7 and stopped few hours after station 6 to wait the albanian clearance before to enter the territorial sea. Beacause we do not receive the clearance we anticipated 12 hours the second shot of the mesoscale experiment. The 77 casts were made in less of 24 hours again. Meanwhile the albanian clearance arrived by fax. So the transect 5 and the residual stations of transect 7 were made. The last station was 7-5 on the night of 14 may. The ship ended the first leg in Bar harbour on the mooming of 15 may.

Water samples for Oxygen Winkler analisys were made on board.

The italian scientific crew was: Campanelli, Caccamo, Paschini and Penna from ISMAR-Ancona, Cavalli and Bassani from IIA-LARA.

Paschini and Penna, (helped by Como and Murtaj during the mesoscale) performed the CTD and rosette operations.

Campanelli and Caccamo, helped by Como and Murtaj performed the sample and filtration operations

Cavalli and Bassani performed radiometric measurement at some stations. Kljajic take fito-plankton samples at some stations for on shore analysis in Kotor Institute and for OGS-Trieste Institute.

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

PRINCIPAL INVESTIGATORS

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MOORINGS, BOTTOM MOUNTED GEAR AND DRIFTING SYSTEMS

PI Latitude Longitude TYPE DESCRIPTION

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SUMMARY OF MEASUREMENTS AND SAMPLES TAKEN

PI NO	UNITS	TYPE	DESCRIPTION
A 7	days	D90	cruise track Navigation program SeaClearII with GARMIN GPS 36
A 7	days	H71	surface temperature underway with AANDERAA model 3660 Datalogger and 3444 sensor with 1 reading/minute
A 209	casts	H10	SBE911plus (C, T, D) with SBE43 (Oxy), TURNER SCUFA(FI,Tur), BENTHOS 916(Alt)
A 55	casts	H09	Carousel SBE32 with 4 bottles of 10 litres and 3 of 1.7 litres

B 53	samples	H21	Oxygen Winkler method on board analysis with METROHM Tritino720 and sampler760
B 273	samples	H22, H24, H25, H76, H26	Phosphate, Nitrate, Nitrite, Ammonia, Silicate, on shore analysis with Autoanalyzer BRAN+LUEBBE model QuAAtro (2 Ch.)
B 24	samples	B02	Phyto-plankton Pigments (Chlorophyl a, b, c) on shore analysis with HPLC DIONEX model PDA100+GP50
B 24	samples	B06	Colored DOM on board analysis with spectral-photometer Perkin-Elmer
B 24	samples	B90	Total Suspended matter on shore analysis with gravimetric method
C 61	samples	B08	double samples of Phyto-plankton for Kotor and OGS-Trieste on shore analysis
E 18	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
