:RETURN TO Serge HEUSSNER (heussner@univ-perp.fr)								
And			rei	move this header befo	re returning			
Pino CIVITARE	SE (g.civitarese@ts	s.ismar.cnr.it)						
DATA SET SUMMARY (EDMED) Project: ADIOS EVK3-2000-00604 Data set name: - Numerical Outputs of the Task 3.5 Ecosystem Modelling								
<u>Cruise or Mooring</u> : 2001-2002-2003								
LABORATORY in ch	arge of Renzo Mos	etti, OGS Dep	partment of Oce	eanography				
Responsible Scientist NAME: Guido Crispi, Istituto Nazionale di Oceanografia e di Geofisica Sperimentale – OGS, Departement of Oceanography, Trieste, Italy Tel: +39 040 2140392 Fax: +39 040 2140266 Email: gcrispi@ogs.trieste.it								
DOMAINS/KEYWORDS:								
DOMAINS/KEYWORDS: OPHYSICAL OCEANOGRAPHY ex: OSUBSURFACE HYDROGRAPHY (T,S) OCURRENTS, DRIFT, DISPERSION OSUBFACE HYDROGRAPHY (eg T,S) OSUBFACE HYDROGRAPHY								
A : atmosphere	W : sea water	P : suspend	ed particles	F : settling particles	S : sediment			
				(traps)				
OBSERVED PARAMETERS: important: 1. parameter names and units have to be consistent with the International System of Units. 2. only the measured parameters are currently archived BUT METADATA SETS ARE TO BE PRODUCED FOR								
ALL PARAMETERS; except classical parameters like salinity, east and north component of the current. 3. Expected maximum and minimum values are important to perform cross quality checks after transcoding								

UNIT

ACCURACY

Minimum

value

Maximum value

CODE

NAME

OBSERVED PARAMETERS (Continuation):

CODE	NAME	UNIT	FORMAT	Minimum value	Maximum value

INSTRUMENTS

All the ECHYM simulations were performed on the SGI Origin 3800 of the CINECA-Consorzio Interuniversitario del Nord-Est Italiano per il Calcolo Automatico site in Bologna Italy.

DESCRIPTION, OBJECTIVES, METHODOLOGY:

The data are 182 zonally starting from 9.375 W and 57 meridionally starting from 30.5N. The levels are 31, depth in meters: 5, 15, 30, 50, 70, 90, 120, 160, 200, 240, 280, 320, 360, 400, 440, 480, 520, 580, 660, 775, 925, 1150, 1450, 1750, 2050, 2350, 2650, 2950, 3250, 3550, 3850. The parameters in each file are: transport streamfunction, wind stress x-comp., wind stress y-comp., u current, v current, temperature, salinity excess, nitrates, ammonia, phosphates, ultraplankton, netplankton, zooplankton, dissolved oxygen, detritus-N, detritus-P, detritus-C.

The objectives are to numerically assess the influence of atmospheric inputs in the Mediterranean to nitrogen and phosphorus budgets and to estimate the impact of atmospheric input in comparison to the riverine load, and to exchanges with Adriatic and Aegean Seas.

All the files contained in deliverables of the ADIOS Project are simulation outputs of the three-dimensional eco-hydrodynamical model ECHYM (1) developed during EC Project MAss Transfer and Ecosystem Response, MAS3-CT96-0051. The second and third ADIOS deliverables were carried out with phosphate and nitrate initial conditions comig from analysis of data (2). The third deliverable was obtained using the annual average estimate of nitrate and phosphate apports due to the Rhone and the Nile rivers (3).

NUMBER OF PROFILES/NUMBER OF MEASUREMENTS: CONFIDENTIALITY: PUBLIC

The following 5 files contain the results of the ECHYM simulations. Doc files are inside each CD-ROM. **DATA FILE NAMES**:

- 1) 3 files: ECHYM4l31.zero.dat, ECHYM.low.dat, ECHYM4l31.pulse.dat in CD-ROM D10-M12.
- 2) 1 file: ECHY4l31.rivmar.dat in CD-ROM D28-M24.
- 3) 1 file: ECHYM4l31.dat in CD-ROM D40-M32.

REFERENCES

- (1) Crispi, G., Crise, A. and C. Solidoro, 2002. Coupled Mediterranean ecomodel of phosphorus and nitrogen cycles. J. Mar. Syst., 33-34, 497-521.
- (2) Crise, A., Crispi, G., Melaku Canu, D., Mosetti, V., Pacciaroni, M. and Tomini, I., 2003. A numerical assessment of the impact of the atmospheric input on the N and P cycles in the Mediterranean Sea. Geoph. Res. Abs., 15, 11284.
- (2) Pacciaroni, M. and Crispi, G., 2003. The forthcoming Modular Ocean Model for Mediterranean Ecosystem. ADIOS Project EVK3-2000-00604. OGS Technical Report 15-2003/OGA7.