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**INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION
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IODE NATIONAL REPORT FOR THE REPUBLIC OF CROATIA

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1. Name of data Centre: Institute of oceanography and fisheries (IOF)

2. National IODE Co-ordinator:

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3. Data centre address: (As above)

4. Data Centre URL: <http://www.izor.hr>

5. IODE Data Centre Designation Date: 1996, DNA

6. Brief History:

The IOF is main Croatian institution responsible for oceanographic research of the Adriatic Sea. It was founded in 1930 as multidisciplinary oceanographic institute. Today, it consists of several laboratories: physical oceanography, chemical oceanography and sedimentology, biology, fishery, and aquaculture located in towns of Split and Dubrovnik.

Oceanographic Information Centre (OIS) was founded as a technical unit in 1982 with main objective to co-ordinate management of oceanographic data collected by various laboratories.

7. Roles and Responsibilities of the data Centre:

Today, OIS is a part of IOF with mandate to co-ordinate the management of oceanographic data collected in the framework of various research activities in Croatia, as well as exchange data on the international level. Main role is to standardise data formats and units, collect, validate, archive, exchange and disseminate of data, data products and services to the marine community on the national and international levels and improve technical level of data management and their presentation using computer technology.

8. Description of national data and information management co-ordination:

OIS is part of IOF that is leading marine research Institute in Croatia. It collaborates on data collection with other Croatian Marine Institutes (Croatian Hydrographic institute, Split, and Centre for marine research, Rovinj that is a branch of Institute Rudjer Boskovic, Zagreb) as well as other organisations (Universities, Meteorological organisation, marine environmental branches from seaside Counties, etc). In the framework of several large national and international projects there are more multidisciplinary research activities related to open sea and coastal area of the Adriatic Sea. During these activities a large amount of various oceanographic data have been collected. OIS co-ordinates the standardisation of measuring methods and units, exchange of oceanographic data, archiving, web presentation of data and aggregated information, as well as dissemination of data and information to end users. Moore group of experts was founded in relation developing of data management system, transmission of measuring data in real or in near-real time, data validation, storage and exchange were founded. These activities have been fully supported through National Oceanographic Program of Croatia (NOP).

To achieve planned objectives computer facilities in OIS have been improved during intersessional period: a new SUN SPARC server was installed with firewall and central antivirus protection system, two additional servers were installed (for hosting Marine environmental database of the Adriatic Sea (MEDAS), and management of on-line meteo-ocean measuring system (three stations at present time), simulation of two different numerical models (pilot phase), and their presentation on web pages, as well as pictures from web-cam. There are more software as ORACLE RDBMS 9i, ArcView GIS, MATLAB, C++, etc.

OIS holds a great amount of various oceanographic data related to physical oceanography, chemistry, biology, fishery and aquaculture. All data are stored in internal format and they are validated through quality control procedure included in RDBMS system developed in Institute following IOC,WDC-A and MEDAR-MEDATLAS procedure.

9. Data Centre Projects and Activities during the Intersessional Period:

Croatian oceanographic institutions were involved in more activities on the national and international level concerning management of the oceanographic data. OIS has taken a main role in data management concerning the projects as follows:

- JADRAN Project (National oceanographic monitoring system of Croatia)
- ADRICOSM Project (Pilot project that aims to implement an integrated coastal zone management in collaboration with Italy)
- EACE Project (East Adriatic coastal experiment in collaboration with USA)
- SEA-SEARCH Project (Gateway to Oceanographic and Marine Data & Information in Europe in collaboration with EC)
- MEDAR-MEDATLAS-II Project (in collaboration through IODE/IOC)
- SIPAM Project (Information system for promotion of aquaculture of the Mediterranean countries in collaboration with FAO and 17 bordering countries)
- MAMA (Mediterranean network to assess and upgrade monitoring and forecasting activity in collaboration with EC)

- ADRIAMED (FAO corporative project between countries bordering Adriatic Sea to support responsible fisheries)
- MEDITS (Mediterranean international bottom trawl-surveys in cooperation with EC)
- DemMon (Monitoring and management of demersal resources along the Eastern Adriatic coast - Croatian territorial waters, in collaboration with Norway)
- PelMon (Acoustic estimations of distribution and abundance of small pelagic fish populations in the Adriatic Sea (echo-survey)).

10. Data Centre Products and Services Developed and/or Made Available during the Intersessional Period:

In the framework of the above mentioned and some other projects OIS produced or took part in production of various data products, among them the most important are:

- Improved MEADS database implemented GIS tools for data presentation and validation,
- Updated inventory of historical oceanographic data based on cast sampling
- Inventory of currents' measurement in the Adriatic Sea by Croatian institutes
- Developed software for data collecting, validation, archive and presentation by web of on-line meteo-ocean stations including various parameters,
- Developed web based applications for data management in the framework of the projects:
 - JADRAN (www.izor.hr/jadran)
 - ADRICOSM (www.izor.hr/adricosm)
 - EACE (www.izor.hr/eace)
 - BUOY PROJECT (www.izor.hr/online)
 - SIPAM (www.izor.hr/sipam)
 - MEDITS (www.izor.hr/medits)
 - MAMA (www.izor.hr/mama).

Generally, referral data from databases are presented on web, but in the most cases the original data from databases are accessible only with permission of data owner (username and password are required).

11. Future plans:

- Integration of data management of multidisciplinary data related marine investigations including operational and on-line data
- Adoption of MEDAS database for data access through web pages and Internet
- Improvement of collaboration in data management on regional level (with institutions from countries bordering the Adriatic and Mediterranean Sea)

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