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35th International Liège Colloquium on Ocean Dynamics

« *Dying and Dead Seas* »
Liège, May 5-7, 2003

MODIFIED PROGRAM

MONDAY, May 5th, 2003

9.00 - 10.00: Registration, Coffee, Display of posters

Session 1

Chair : Jacques C.J. Nihoul, University of Liège, Belgium, EU

10.00 - 10.30

Shabanova L., Bigarinov R., Yeskendirova N.

National Environmental Center for Sustainable Development, Kazakhstan

State of environment in Aral Sea region

10.30 - 11.00

Ressl R.¹, Micklin Ph.²

1. Remote Sensing Center of the German Space Agency (DLR), Germany

2. Western Michigan University, Department of Geography, Kalamazoo, MI, USA

Using satellite imagery to study morphological changes in the Aral Sea

11.00 - 11.30

Zavialov P.O. and Kostianoy A.G.

P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia

Present state of the Aral Sea, feedbacks and future scenarios

11.30 - 12.00

Kontar E.A.¹, Salokhiddinov A.T.², Azhigaliyev Y.B.³

1. P.P. Shirshov Institute of Oceanology, Moscow, Russia

2. Institute of Engineers for Irrigation and Agriculture, Tashkent, Uzbekistan

3. National Environmental Centre for Sustainable Development, Kokshetau, Kazakhstan

Assessment of ground-water-seawater interactions in the Aral Sea Basin

12.00 - 12.30

Salokhiddinov A.T.¹, Khakimov Z.M.²

1. Institute of Engineers for Irrigation and Agriculture, Tashkent, Uzbekistan

2. Institute of Nuclear Physics, Uzbek Academy of Sciences, Tashkent, Uzbekistan

Ways Aral Sea behaves

Session 2

Chair : A.G. Kostianoy, P.P. Shirshov Institute of Oceanology, Moscow, Russia

2.00 - 2.15

Introduction by the Chairman (The Aral Sea : selected bibliography)

2.15 - 2.30

Destouni G. and Jerker Jarsjö

Royal Institute of Technology, Stockholm, Sweden, EU

Groundwater discharge into the Aral Sea

2.30 - 3.00

Nezlin P.¹, Kostianoy A.G.², Lebedev S.A.³

1. University of California Los Angeles, CA, USA

2. P.P. Shirshov Institute of Oceanology, Moscow, Russia

3. Geophysical Center, Moscow, Russia

a. Interannual variability of Amy Parya and Syr Darya river discharges estimated from global atmospheric precipitation

b. Seasonal and interannual variability and interaction of vegetation and atmospheric precipitation in the Aral Sea region

3.00 - 3.30

Chembarisov E.I.

Institute of Water Problems, Uzbek Academy of Sciences, Uzbekistan

a. Drying of the Aral Sea – result of changing uses in water resources

b. Creation of mineralized irrigation-sewage lakes in the Aral Sea basin

3.30 - 3.45

Takhirov N.T.¹, Salokhiddinov A.T.², Toleubaev O.³

1. The National University of Uzbekistan

2. Institute of Engineers for Irrigation and Agriculture, Tashkent, Uzbekistan

3. State Hydro-Geological Enterprise, Uzbekistan

Ground water resources management and its protection in condition of Aral Sea decline

3.45 - 4.00

Ni A., Tikhanovskaya A., Tomashevskaya I.

Institute of Geology and Geophysics, Uzbek Academy of Sciences, Tashkent, Uzbekistan

The share of glacier feeding in the water balance of Aral Sea and Karakul lake

4.00 - 4.15

Pinhasov B.I., Sokolov V.N., Mavljanov

Institute of Hydro-engineering Geology, Tashkent, Uzbekistan

Hydro-geological conditions of the southern part dried bottom of the Aral Sea

4.15 - 4.45 : Coffee break, Poster display

Session 3

Chair : G. Destouni, Royal Institute of Technology, Stockholm, Sweden, EU

4.45 - 5.15

Stulina G., Shtimenco V.

Central Asian Scientific Research Institute for Irrigation, Tashkent, Uzbekistan

Changes in soil surface on the exposed bed of the Aral Sea

5.15 - 5.30

Ginzburg A.I.¹, Kostianoy A.G.¹, Sheremet N.A.¹, Sheremet V.A.²

1. P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia

2. Woods Hole Oceanographic Institution, Woods Hole, MA, USA

Changes in thermal regime of the Aral Sea during the anthropogenic period (1960-2000)

5.30 - 5.45

Froebrich J.¹, Reder Ch.¹, Kayumov O.², Poberejsky L.²

1. Water Quality Protection and Management Section, University of Hanover, Germany, EU

2. Scientific Technical Center "Toza Darya – Clean River, Tashkent, Uzbekistan

Impact of return water flow on ecological status of the Aral Sea tributaries and use of the optimized reservoir operation for restoring the Amu Darya delta region

5.45 - 6.00

Schrum C.

University of Hamburg, Institute of Oceanography, Hamburg, Germany, EU

Modelling decadal variations in Aral Sea water budget and sea surface by using a 3-d hydrodynamic model. A study in the frame of the INTAS Aral sea Project 1014

6.00 - 6.15

Renard Ph. and Zwahlen F.

Centre for Hydrogeology, University of Neuchâtel, Switzerland

Analysis and modeling of the historical evolution of ground and surface water (sea water, river, ponds) interactions in the Aral Sea region

6.15 - 6.30

Peneva E.L.^{1,2}, Stanev E.V.^{1,3}

1. Department of Meteorology and Geophysics, University of Sofia, Bulgaria

2. Present affiliation : JRC, Ispra, Italy, EU

3. Present affiliation : ICBM, University of Oldenburg, Germany, EU

The recent evolution of the Aral Sea level and water properties : analysis of altimeter, gauge and hydro-meteorological data

6.30 - 6.45

Sirjacobs D., Grégoire M., Delhez E. and Nihoul J.C.J.

University of Liège, Belgium, EU

Global water salt budget of the Aral Sea from 1960 to 1991

6.45 : Reception by the Chairman of the Scientific Organizing Committee

TUESDAY, May 6th, 2003

Session 4

Chair : P. Zavialov, P.P. Shirshov Institute of Oceanology, Russia

9.00 - 9.15

Ratner Yu. B., Stanichny S.V., Soloviev D.M., Stanichnaya R.R.

Marine Hydrophysical Institute, Ukrainian Academy of Sciences, Sevastopol, Ukraine

Wind field over the Aral Sea region

9.15 - 9.30

Khan V.M. and Vil'fand R.M.

Hydrometeorological Research Center of the Russian Federation, Moscow, Russia

Long-term climate variability in the Aral Sea region

9.30 - 9.45

Peneva E.L.^{1,2}, Stanev E.V.^{1,3}

1. Department of Meteorology and Geophysics, University of Sofia, Bulgaria

2. Present affiliation : JRC, Ispra, Italy

3. Present affiliation : ICBM, University of Oldenburg, Germany

Regional climatological impacts of the desertification in the Aral Sea area

9.45 - 10.00

Stanichny S.V., Soloviev D.M., Burdugov V.M., Ratner Y.B., Stanichnaya R.R.

Marine Hydrophysical Institute, Ukrainian Academy of Sciences, Sevastopol, Ukraine

Aral sea satellite observation

10.00 - 10.15

Lebedev S.A.

Geophysical Center of Russian Academy of Sciences, Moscow, Russia

Research of the sea level variability of enclosed seas and lakes by satellite altimetry

10.15 - 10.45 : Coffee break, Poster display

Session 5

Chair : B.V. Timms, University of Newcastle, Australia

10.45 - 11.00

Kouraev A.V.^{1,2,3}, **Papa F.**¹, **Buharizin P.I.**⁴, **Cazenave A.**¹, **Cretaux J.F.**¹, **Dozortseva J.**⁵, **Remy F.**¹.

1. Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (LEGOS)/CNRS-CNES, Toulouse France,
2. Moscow State University, Faculty of Geography, Moscow Russia
3. Nansen International and Remote Sensing Centre (NIERSC), St.Petersburg, Russia
4. Water Problems Institute (WPI) of Russian Academy of Sciences, Astrakhan division of the WPI RAS, Astrakhan, Russia
5. Hydrometeorological Centre of the Caspian Fleet

Changes in ice and snow cover in the Caspian and Aral Seas as detected from satellite microwave data

11.00 - 11.15

Shermatov E.¹, **Nurtaev Bakhran**²

1. Institute of Water Problems, Uzbek Academy of Sciences, Tashkent, Uzbekistan
2. Free-lance expert, Frechen, Germany, EU

Analysis of water resources variability of the Caspian and the Aral Seas on basis of solar activity

11.15 - 11.30

Orlovsky L., Orlovsky N. and Kostyukovsky V.

Institute for Desert Research, University of the Negev, Israel

Sarykamysh Lake – collector of drainage water : the past, the present and the future

11.30 - 11.45

Karafistan A.

Onsehiz Mart Universitesi, Canakkale, Turkey

Physical-chemical and microbiological water quality of the “Birds’Paradise” Lake Manyas

11.45 - 12.15

Muse I.

EMonument, Brugge, Belgium, EU

Presentation of the Arid Cluster Project

2.00 - 6.00

Parallel Sessions (open to all)

Project oriented meetings and workshops :

- Inco-Copernicus Aral-Kum
- Intas Aral Sea Project 1014
- Holocene paleolimnology of abrupt lake level changes, salinisation, eutrophication and other catastrophes
- Modelling approach to the study and forecasting of dying seas ecosystems' evolutions
- ...

(Coffee break according to programs' specificities between 3.45 and 4.45)

WEDNESDAY, May 7th, 2003

Session 6

Chair : N.V. Aladin, Zoological Institute, Academy of Sciences, St. Petersburg, Russia

9.00 - 9.15

Mirabdullayev I.M., Mustfaeva Z.A. and Tashmukhamedov B.A.

Institute of Zoology, Uzbek Academy of sciences, Tashkent, Uzbekistan

Succession of the ecosystems of the Aral Sea during its transition from oligohaline to polyhaline waterbody

9.15 - 9.30

Karimov B.¹, Lieth H.², Kurambaeva M.¹, Holmatov N.¹

1. Institute of Water Problems, Uzbek Academy of Sciences, Uzbekistan

2. Institute of Environmental Systems Research, Osnabruck, Germany, EU

The problems of fishermen in the southern Aral Sea region

9.30 - 10.00

Kosarev A.N.¹, Tuzhilkin V.S.² and Kostianoy A.G.³

1. Moscow State University, Moscow, Russia

2. State Oceanographic Institute, Russia

3. P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia

Thermohaline structure of the Caspian Sea waters : seasonal and interannual variability

10.00 - 10.30

Sheikholeslami M.R.

Caspian Environmental Program (CEP), Azerbaidjan

Environmental quality and contamination of the Caspian Sea : an overview on recent findings

10.30 - 11.00 :

Coffee break, Poster display

Session 7

Chair : Bakhtiar Nurtaev, Institute of Geology and Geophysics, Tashkent, Uzbekistan

11.00 - 12.30

Special debating session on policies and strategies for the preservation of Central Asia's seas and lakes environment.

Bazarov D.R., Baraev F.A., Kazbekov J.S.

Institute for Engineers for Irrigation and Agriculture, Tashkent, Uzbekistan

Central Asia : water resources, lakes and international relations

Mikhaykichenko Y.G.

Ministry of Industry, Science and Technology, Moscow, Russia

Development of integrated coastal zone management of the Black and Caspian Seas

Vladymirov V.L.¹, Mamaev V.O.²

1. Caspian Environment Program (CEP), Baku, Azerbaijan

2. UNEP/DGEF Division of GEF Coordination, Nairobi, Kenya

Caspian Sea region data and information management within the framework of the Caspian Environment Program

Shadimetov Yu

International Fund of Ecology and Health "ECOSAN"

Problems of the Aral Sea and the Aral Sea Area : an imperative to international cooperation

Razakov R., Rahmonov B.

Center "Ecology of Water Management", Tashkent, Uzbekistan

Residue of the Aral Seaa and reality improvement of the ecological situation in Priaralie

Session 8

Chair : I. Gertman, National Institute of Oceanography, Haifa, Israel

2.00 - 2.30

Gavrieli I.¹, Paldor N.² and Oren A.³

1. The Geological Survey of Israel, Jerusalem, Israel
2. Institute of Earth Sciences, The Hebrew University of Jerusalem, Israel
3. The Hebrew University of Jerusalem, Israel

Past, present and future limnological changes in the Dead Sea and the expected impact of the proposed "Peace Conduit"

2.30 - 3.00

Oren A.¹, Gavrieli I.² and Gavrieli J.³

1. The Hebrew University of Jerusalem, Israel
2. The Geological Survey of Israel, Jerusalem, Israel
3. IMI (TAMI) Institute for Research and Development, Haifa Bay, Israel

The Dead Sea as a dying lake and the potential impact of the planned "peace conduit" on its biota

3.00 - 3.30

Dvorkin Y.¹, Lensky N.¹, Krungaltz B.², Gazit-Yaari N.¹, Lyakhovsky V.¹, Gavrieli I.¹

1. The Geological Survey of Israel, Jerusalem, Israel
2. Environmental studies and Modeling, Nesher, Israel

Mixing of seawater with Dead Sea brine : limnological modeling based on a new equation of state

3.30 - 3.45

Lyubartseva S.P.¹, Ivanov V.A.¹, Mikhailova E.N.¹, Shapiro N.B.¹, Shteinman B.²

1. Marine Hydrophysical Institute, Ukrainian Academy of sciences, Sevastopol, Ukraina
2. The Yigal Allon Kinmeret Limnological Laboratory, Israel

Modeling the temperature/oxygen regime in Lake Kinmeret

3.45 - 4.15 : Coffee break, Poster display

Session 9

Chair : A. Oren, The Hebrew University of Jerusalem, Israel

4.15 - 4.45

El-Rayis O.

Oceanography Department, University of Alexandria, Egypt

The impact of man's activities on a closed fishing-lake, Lake Maryout in Egypt, as a case study

4.45 - 5.15

Melentyev V.¹, Chernook V.²

1. Nansen International Environmental and Remote Sensing (NERSC),

2. Polar Research Institute of Marine Fisheries and Oceanography (PINRO)

Stationary spiraling eddies and self-cleaning processes in the white sea in presence of climate change and their relationship with ecology of Greenland seal : results of airborne-satellite in situ study

Aral Sea : satellite signature of the formation of a lake type circulation as a confirmation of degradation of the marine ecosystem and ultimate depth of the sea

8.30 : Official dinner at the Château de Colonster

Additional poster presentations

Shiganova T.A.

P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia

Effect of the invasive American ctenophore mnemiopsis leidyi (A.gassiz) on the ecosystems the Black, Azov and Caspian Seas. Comparative study.

Vostokov S.V.¹, Soloviev D.M.², Lisitsyn B.E.³ and Ushivtsev V.B.⁴

1. P.P. Shirshov Institute of Oceanology, RAS, Moscow, Russia

2. Marine Hydrophysical Institute, Sevastopol, Ukraine

3. Moscow State University, Russia

4. Caspian Institute of Fisheries and Oceanography, Astrakhan, Russia

Basic annual cycle components of ctenophores invaders in the Black and Caspian Seas in relation to environmental conditions.

Joldasova I.M.

Biology Institute of Karalkapak Branch of the Academy of Sciences, Uzbekistan

Dynamics of internal and external ecological processes of the dying Aral Sea

Ni A., Nurtaev B., Petrov M.

Institute of Geology and Geophysics, Uzbek Academy of sciences, Tashkent, Uzbekistan

Dying lakes of Central Asia

Madhupratap M., Naqvi S.W.A., Ansari Z.A.

National Institute of Oceanography, Goa, India

Anoxia and depletion of fisheries along the west coast of India

Gopal B.

Jawaharlal Nehru University, New Delhi, India

Who will determine the future of lakes in the India subcontinent

Chauhan M.

Jawaharlal Nehru University, New Delhi, India

Impact of anthropogenic influences and hydrological changes on two Indian lagoons : Lakes Chilika and Publicat

Kulkarmi B.G., Ashoh Jaiswar

Institute of Science, Mumbai, India

Deteriorating sea coast in and around Mumbai

Konovalov S.¹, Belokopitov V.¹, Ivanov L.¹, Samodurov A.¹, Grégoire M.² Sirjacobs D.²

1. Marine Hydrophysical Institute, Ukrainian Academy of Sciences, Sevastopol, Ukraine

2. University of Liège, Belgium, EU

Salt budget and salt composition for the Aral Sea

Shalovenkov N.

Institute of Biology of the Southern Seas, Sevastopol, Ukraine

Restoration of some biological parts in an ecosystem of the Sevastopol Bay (the Black Sea) after reduction of anthropogeneous loading

Al-Rousan A.^{1,2}, Pätzold J.¹, Al-Moghrabi S.² and Wefer G.¹

1. Fachbereich Geowissenschaften, Universität Bremen, Germany, EU

2. Marine Science Station, Aqaba, Jordan

Invasion of anthropogenic CO₂ recorded in planktonic foraminifera from the northern Gulf of Aqaba

Joseph Sebastian Paimpillil¹, Vijayakumar M.², Munir Dalahawi²

1. Enviroolutions, Cochin, India

2. Environmental Monitoring Project, Royal Commission for Jubail and Yanbu, Saudi Arabia

Impact of coastal constructions and treated industrial effluents on Yanbu (Red Sea) Coral Reef recovery at Port Barrier Reef

Savchuk O.P.

Department of Systems Ecology, Stockholm University, Sweden

The Baltic Sea – dying or just wavering ?

Wolanski E.

Australian Institute of Marine Science, Townsville, Australia

Dying coral seas

Debolskaya E., Yakushev E.V.

Southern Branch P.P. Shirshov Institute of Oceanology, Gelendzhik, Russia

Hydrophysical structure of Azov Sea under anoxic conditions

Yakushev E.V.

Southern Branch P.P. Shirshov Institute of Oceanology, Gelendzhik, Russia

Complex oceanographical studies of the Azov Sea during the 28th cruise of RV “Akvanavt” (July-August 2001)

Special session on modeling**Chair : J.M. Beckers, University of Liège, Belgium, EU****Frolov A.V.¹ and Muzylev S.V.²**

1. Water Problems Institute, Moscow, Russia

2. P.P. Shirshov Institute of Oceanology, RAS, Moscow, Russia

Dynamical-stochastic modeling of natural water bodies long-term level variations, with application to the Caspian Sea**Tuchin A.**

Central Asian Scientific Research, Institute for Irrigation, SANIIRI, Tashkent, Uzbekistan

Investigation of the Aral Sea region by mathematical methods**Ivanov L.M. and Margolina T.M.**

Marine Hydrophysical Institute, Ukrainian Academy of sciences, Sevastopol, Ukraine

On asymptotics prediction of marine system evolution**Staneva J.**

Alfred-Wegener-Institut for Polar and Marine Research, Bremerhaven, Germany

Eutrophication related changes in the Black Sea ecosystem studied by a coupled physical-ecological model

NATO Advanced Research Workshop

« *Dying and Dead Seas* »

Liège, May 8-10, 2003

THURSDAY May 8th, 2003

Session a

Chair : E. Stanev, University of Sofia, Bulgaria

Rapporteur : D. Sirjacobs, University of Liège, Belgium, EU

9.00 - 9.30

Kostianoy A.G.¹, Zavialov P.O.¹ and Lebedev S.A.²

1. P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia

2. Geophysical Center, Moscow, Russia

What do we know about dying and dead seas ?

9.30 - 10.00

Zonn I.¹, Glantz M.H.²

1. Vice-President, UNEP/COM, Editor in Chief "Caspian Sea Bulletin", Moscow, Russia

2. National Center for Atmospheric Research, Boulder, CO, USA

Climatic versus anthropogenic effects on sustainable development

10.00 - 10.30 : General discussion

10.30 - 11.00 : Coffee break, Poster display

Session b

Chair : A. Salokhiddinov, Institute of Engineers for Irrigation and Agriculture, Tashkent, Uzbekistan

Rapporteur : J. Froebrich, University of Hanover, Germany, EU

11.00 - 11.30

Micklin Ph.

Western Michigan University, Department of Geography, Kalamazoo, MI, USA

The Aral Sea crisis

11.30 - 12.00

Letolle R.¹, Aladin N.V.²

1. Université Pierre et Marie Curie, Département de Géologie Appliquée, Paris, France, EU

2. Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia

The future of Aral Sea in XXIst century. A model of evolution

12.00 - 12.30 : General discussion

Session c

**Chair : I. Zonn, Vice-President, UNEPCOM, Editor in Chief “Caspian Sea Bulletin”,
Moscow, Russia**

Rapporteur : V.A. Sheremet, Woods Hole Oceanographic Institution, MA, USA

2.00 - 2.30

Nurtaev B.

Institute of Geology and Geophysics, Tashkent, Uzbekistan

Aral sea basin evolution : geodynamic aspect

2.30 - 3.00

**Boroffka N.G.O.¹, Aladin N.V.², Achatov G.A.³, Bajpakov K.M.³, Hoernig A.⁴,
Lobas D.A.³, Krivonogov S.⁵, Oberhaensli H.⁶, Wuennemann B.⁴**

1. GeoForschungszentrum Potsdam, Germany, EU

2. Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia

3. Margulan Institute of Archaeology, Almaty, Kazakhstan

4. Free University, Berlin, Germany, EU

5. Geo Information Technologies, Novosibirsk, Russia

6. GeoForschungszentrum Potsdam, Germany, EU

*The INTAS Project “CLIMAN” : Preliminary results from the geomorphological
archaeological expedition to the northern Aral Sea, 2002*

3.00 - 3.30 : General discussion

3.30 - 4.00 : Coffee break, Poster display

Session d

Chair : A.N. Kosarev, Moscow State University, Russia

Rapporteur : F. Akhrorov, Academy of Sciences of Tajikistan

4.00 - 4.30

Aladin N.V.¹, Plotnikov I.S., Letolle R.²

1. Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia

2. Université Pierre et Marie Curie, Paris, France

Hydrobiology (marine biology) of the Aral Sea

4.30 - 5.00

Aladin N.V., Plotnikov I.S.

Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia

Hydrobiology (marine biology) of the Caspian Sea

5.00 - 5.30 : General discussion

5.30 - 6.00 : **Sirjacobs D. (Whip), University of Liège, Belgium, EU**
Summing-up meeting with the rapporteurs

FRIDAY May 9th, 2003

Session e

Chair : R. Ressler, Remote Sensing Center of the German Space Agency (DLR), Germany

Rapporteur : E.L. Peneva, University of Sofia, Bulgaria

9.00 - 9.30

Friedrich J.^{1,2} and Oberhänsli H.²

1. Alfred Wegener Institute for Polar and Marine Research, Germany, EU

2. GeoForschungs Zentrum Potsdam, Germany, EU

The Aral Sea. New data from a changing ecosystem

9.30 - 10.00

Wiseman W.¹, Rabalais N.N.², Turner R.E.¹ and Justic D.¹

1. Louisiana State University, LA, USA

2. Louisiana Universities Marine Consortium, LA, USA

Hypoxia and the physics of the Louisiana Coastal current

10.00 - 10.30 : General discussion

10.30 - 11.00 : Coffee break, Poster display

Session f

Chair : I. Muse, EMonument, Brugge, Belgium, EU

Rapporteur : I. Gavrieli, The Geological Survey of Israel, Jerusalem, Israel

11.00 - 11.30

Gertman I. and Hecht A.

Israel Oceanographic and Limnological Research, National Institute of Oceanography,
Haifa, Israel

Anthropogenic effects on the Dead Sea hydrology

11.30 - 12.00

Salameh E., El-Naser H.

University of Jordan, Amman

***Retreat of the Dead Sea and its effects on the surroundings groundwater resources
and the stability of its coastal deposits***

12.00 - 12.30 : General discussion

Session g**Chair : S.V. Semovski, Limnological Institute SB, Irkutsk, Russia****Rapporteur : R. Lemoalle, IRD-MSE, Montpellier, France, EU**2.00 - 2.30**Akhrorov F.**

Institute of Zoology and Parasitology, Academy of Sciences, Dushanbe, Tajikistan

Population production of makrozoobenthos of some high-mountainous lakes of Pamir***Biology and economy of the mass chironomids (Diptera Chironomidae) of the Zorkul Lake in Pamir***2.30 - 3.00**Frost E.G. and Wise D.**

San Diego State University, CA, USA

Near real-time monitoring and collaborative visualization***of the Salton Sea California, and its past, present and future change***3.00 - 3.30 : General discussion3.30 - 4.00 : Coffee break, Poster display**Session h****Chair : G. Stulina, Central Asian Scientific Research, Tashkent, Uzbekistan****Rapporteur : E.G. Frost, San Diego State University, CA, USA**4.00 - 4.30**Abdrachmatov K., De Batist M.¹, Klerkx J.², Imbo Y.¹, Giralt S.², Lignier V.³, Beck C.³, Delvaux D.², Vermeesch P.¹, Kalugin I.⁴,**

Institute of Seismology, Kyrgyz National Academy of Sciences, Bishkek, Kyrgyzstan

¹ Renard Centre of Marine Geology, Ghent University, Ghent, Belgium, EU² Royal Museum of Central Africa, Tervueren, Belgium, EU³ Laboratoire de Géodynamique des Chaînes Alpines, Université de Savoie, Le Bourget-du-Lac, France, EU⁴ Institute of Geology, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia***Lake Issyk-Kul Kyrgyz Republic (Central Asia) : a large, high-altitude, tectonic lake***

4.30 - 5.00

Giralt S.^{1,2}, Klerkx J.¹, De Batist M.³, Beck S.⁴, Bobrov V.⁵, Gavshin V.⁵, Julia R.⁶, Kalugin I.⁵, Kipfer R.⁶, Lignier V.⁴, Lombardi S.⁷, Matychenkov V.⁸, Riera S.⁹, Romanovsky V.⁸, Sukhorukov F.⁵, Peeters F.⁶, Podsetchine V.¹⁰ and Voltattorni N.⁷

1. International Bureau for Environmental Studies, IBES, Brussels, Belgium, EU
2. Institute of Earth Sciences “Jaume Almera”, CSIC, Barcelona, Spain, EU
3. Renard Centre of Marine Geology, University of Gent, Belgium, EU
4. Laboratoire de Géodynamique des Chaînes Alpines, UMR, CNRS, Université de Savoie, Le Bourget-du-Lac, France, EU
5. United Institute of Geology, Geophysics and Mineralogy, Novosibirsk, Russia
6. Federal Institute of Technology, ETH, and Federal Institute of Environmental Science and Technology, SEAWAG, Dübendorf, Switzerland
7. Department of Earth Sciences, University “La Sapienza”, Roma, Italy, EU
8. Institute of Water Problems and Hydropower, National Academy of sciences of the Kyrgyz Republic, Bishkek, Kyrgyzstan
9. University of Barcelona, Spain, EU
10. Pirkanmaa Regional Environment Centre, Tampere, Finland, EU

Are environmental changes affecting the natural state of Lake Issyk-Kul ?

5.00 - 5.30 : General discussion

5.30 - 6.00 : **Sirjacobs D. (Whip), University of Liège, Belgium, EU**
Summing-up meeting with rapporteurs

SATURDAY, May 10th, 2003

Session i

Chair : O. El-Rayis, University of Alexandria, Egypt

Rapporteur : S. Giralt, Institute of Earth Sciences, Barcelona, Spain, EU

9.00 - 9.30

Timms B.V.

School of Environmental and Life Sciences, University of Newcastle, Australia

The continued degradation of Lake Corangamite, Australia

9.30 - 10.00

Lemoalle J.

Institut de Recherche pour le Développement (IRD-MSE), Montpellier, France, EU

The hydrology of Lake Chad during a drought period

10.00 - 10.30 : General discussion

10.30 - 11.00 : Coffee break, Poster display

Session j

Chair : A. Berger, University of Louvain, EU

Rapporteur : N.G.O. Boroffka, GeoForschungZentrum Potsdam, Germany, EU

11.00 - 11.30

Leroy S., Karanci N., Ileri O., Eure O.

Brunel University, Department of Geography and Earth Sciences, London, UK, EU

Are an early Byzantine seismic event (recorded in Lake Manyas sediment) and the end of the Beysehir Occupation Phase linked ?

11.30 - 12.00

Semovski S.V.¹, Sherbakov D.Yu.¹ and Zatsepin A.G.²

1. Limnological Institute SB, Russian Academy of Sciences, Irkutsk, Russia

2. P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia

From the dead deep lake to the live one : Lake Baikal, its climate, hydrodynamics and evolution of species

12.00 - 12.30 : General discussion

- 2.00 - 3.00 : **Sirjacobs D. (Whip), University of Liège, Belgium, EU**
Summing-up meeting with rapporteurs
- 2.00 - 3.00 : Meeting of the Editorial Committee
E. Delhez, A.G. Kostianoy, J.C.J. Nihoul,
W. Wiseman, P. Zavialov

Session k

Chair : A. Kostianoy, P.P. Shirshov Institute of Oceanology, Moscow, Russia
Rapporteur : W. Wiseman, Louisiana State University, USA

- 3.00 - 3.30 : **D. Sirjacobs, J.C.J. Nihoul**
University of Liège, Belgium, EU
What don't we know about dying and dead seas ?
- 3.30 - 4.00 : General discussion and conclusions
- 4.00 - 4.30 : Coffee break, Poster display, Farewell