

EUROPEAN  
COMMISSION



Institut de recherche  
pour le développement

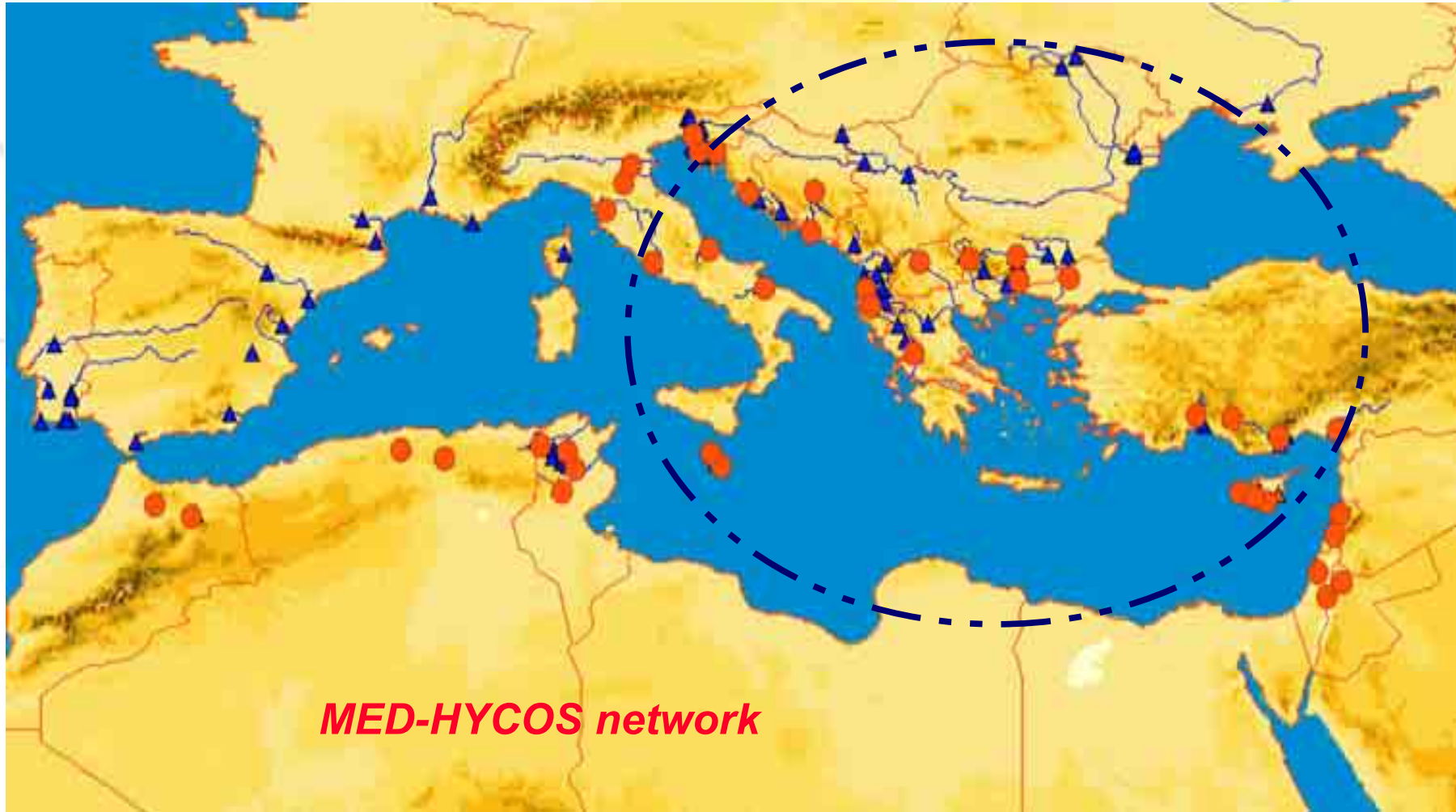
# BALWOIS

**Water Observation and Information System  
for Balkan Countries**

*by Marc Morell, [morell@ird.fr](mailto:morell@ird.fr)*

---

***[www . balwois . net](http://www.balwois.net)***



**MED-HYCOS network**



# BALWOIS Partners



[www.balwois.net](http://www.balwois.net)

## Specific problems to be faced

- **Impacts of climate and environment changes on water resources space-time variability**
- **Pollution of rivers and aquatic ecosystems and preservation of the biodiversity**
- **Transboundary shared waters**



## Hydrology, Climatology, Hydrobiology, Ecology, Socio-economy...

- 1 - Climate and Environment**
- 2 - Hydrological regimes and water balances**
- 3 - Droughts and Floods**
- 4 - Integrated Water Resources Management**
- 5 - Water bodies protection and Ecohydrology**
- 6 - Lakes**
- 7 - Hydrological modelling**
- 8 - Information systems for decision support**

# Diversity of Aquatic Ecosystems In Balkans



# BALWUIS

## CONFERENCE

### ON WATER OBSERVATION AND INFORMATION SYSTEM FOR DECISION SUPPORT

25-29 May 2004 Ohrid, Republic of Macedonia





**BALWOIS**

**BALWOIS Conference**

**Ohrid, Macedonia**

**25 - 29 May, 2004**







See MacFarlane

The screenshot shows a web browser window displaying the BALWOIS website. The browser's address bar shows the URL: [http://127.0.0.1/balwois/info\\_sys/publication.php?top=4](http://127.0.0.1/balwois/info_sys/publication.php?top=4). The website has a navigation menu with 'Project', 'Stakeholders', 'Information systems', and 'Events'. Under 'Information systems', there are sub-links for 'Presentation' and 'Climate and environment'. A left sidebar contains a menu with 'Information', 'Publications', 'Documents', 'Graphs', 'Maps', 'Media', 'Tables', and 'Websites'. The main content area is titled 'Information system > Hydrological regimes and water' and features a search bar with the text 'Word in abstract:'. Below the search bar are sorting options: 'Order by title', 'Order by country', and 'Order by'. A table of search results is displayed with columns for 'Paper' and 'Aut'. The results include titles such as 'COMPARISON OF SEVERAL HYDROLOGICAL CYCLE PARAMETERS IN CROATIA FOR TWO PERIODS', 'COMPARISON OF SOME METHODS OF ESTIMATION OF EVAPOTRANSPIRATION', 'ESTIMATING REFERENCE EVAPOTRANSPIRATION AT FRENCH HUMID LOCATIONS BY MODIFIED MARGREAVES METHOD', 'EVOLUTION RÉCENTE DES RÉGIMES HYDROLOGIQUES DANS LE BASSIN BÉNINOIS DU FLEUVE NIGER AU BÉNIN (AFRIQUE DE L'OUEST)', 'HYDROLOGICAL PECULIARITIES OF HIGH MOUNTAIN BASINS. THE CASE OF THE SPANISH PYRENEES', and 'HYDROLOGICAL PREVIEW ON WATER'.

BALWOIS 2004

Ohrid, FY Republic of Macedonia, 25-29 May 2004

## Water Framework Directive In Macedonian Water Law

Stanislava Dodeva

PWME "Water Management of Macedonia"  
Skopje, Republic of Macedonia  
Biljana Puleska

Project "Strengthening of the capacity of the Ministry of Environment and Physical Planning, Skopje, Republic of Macedonia

### Abstract

This paper presents the harmonization of the Macedonian legislation in water sector with the Water Framework Directive (WFD) and other European water related directives. New version of Water Law has been drafted in order to transpose requirements from the relevant water management Directives. Currently, the Draft Law on Waters is in Parliamentary procedure (first reading). This paper focuses, basically on the EU WFD 2000/60 and its requirements regarding an integrated water resources management, especially in the context of the planning process, monitoring of the water bodies and water intended for use as well as the protection of waters from pollution. According to the Draft Law, there shall be River Basin Management Body, established for each river basin, as a main responsible body for integrated management of a river basin district. This paper also deals with the expected problems during the implementation of the new Water Draft Law, actually during the implementation of WFD

Key-words: WFD; Draft Law on Water; integrated Management; Planning; Monitoring; Protection

### Introduction

One of the basic reasons for drafting of new legislation in the area of water management was the lack of integrated approach in the national regulatory system as well as the lack of de facto integrated water resources management on the territory of the Republic of Macedonia. Also, the competences as









- Available Layers:**
- Country
    - » ALBANIA [1]
    - » BOSNIA-HERZEGOVINA [2]
    - » BULGARIA [3]
    - » CROATIA [4]
    - » CYPRUS [5]
    - » FRY MACEDONIA [6]
    - » GREECE [7]
    - » MALTA [8]
    - » ROMANIA [10]
    - » SLOVENIA [11]
    - » TURKEY [12]
    - » YUGOSLAVIA [13]
  - AutoStation
  - Station
  - River
  - Basin



Map Table Report Chart File Statistics Inventory

Country: ROMANIA

- Object Contents:**
- Object Information
  - Time Series
  - Table Series
  - Meda-Data
  - Attachments

# WebMap Application

Layer: Country Object: Romania Long: 23.4° Lat: 45.8° Tip: Left Click: Select, Right Click: Select & Open Object Relationships Browser



- Available Layers:**
- AutoStation
  - Station
  - River
  - Basin
  - » DANUBE [17]
  - » DHIARIZOS [28]
  - » DRAGONJA [31]
  - » DRINI [19]
  - » ERZENI [25]
  - » GERMASOGEIA [29]
  - » GOKSU [21]
  - » ISHMI [24]
  - » KOPRU [22]
  - » KRKA [30]
  - » LAMAS [20]
  - » MARICA [16]
  - » MARSA [0]
  - » MATI [23]
  - » MESTA [14]
  - » MIRNA [4]
  - » MORACA [18]
  - » NERETVA [2]
  - » RASA [32]
  - » ...
  - Country



Map Table Report Chart File Statistics Inventory

Basin: DANUBE

- Object Contents:**
- Object Information
  - + Time Series
  - + Table Series
  - Media-Data
  - + Attachments

Layer: Basin Object: Danube Long: 22.11° Lat: 42.55° Tip: Left Click: Select, Right Click: Select & Open Object Relationships Browser



- Available Layers:**
- AutoStation
  - Station
  - River
  - Basin
  - » DANUBE [17]
  - » DHIARIZOS [28]
  - » DRAGONJA [31]
  - » DRINI [19]
  - » ERZENI [25]
  - » GERMASOGEIA [29]
  - » GOKSU [21]
  - » ISHMI [24]
  - » KOPRU [22]
  - » KRKA [30]
  - » LAMAS [20]
  - » MARICA [16]
  - » MARSA [0]
  - » MATI [23]
  - » MESTA [14]
  - » MIRNA [4]
  - » MORACA [18]
  - » NERETVA [2]
  - » RASA [32]
  - » ...
  - Country



Map Table Report Chart File Statistics Inventory

Basin: DANUBE

- Object Contents:**
- Object Information
  - + Time Series
  - + Table Series
  - Media-Data
  - + Attachments

Layer: River Object: Danube Long: 26.68° Lat: 44.08° Tip: Left Click: Select, Right Click: Select & Open Object Relationships Browser

- Available Layers:**
- AutoStation
  - Station**
    - » BEZDAN [42010]
    - » BOJKOV MOST [176]
    - » CERKVENIKOV MLIN [52]
    - » DOLENJE [47]
    - » ELHOVO [74850]
    - » GALABOVO [73480]
    - » HE SPILJE [174]
    - » IL ARION [32]
    - » IZMAIL [42804]
    - » JANKOVICA BUK [7122]
    - » KARAKAYA [9101]
    - » KIZILGECIT [1717]
    - » KOKEL [65]
    - » KONITSA [33]
    - » KRŠOVEC [51]
    - » LJUBICEVSKI MOST [47090]
    - » LOG CEZSOSKI [48]
    - » MEXORORA [36]
    - » MOMINA KULA [52800]
    - » ...
  - River
  - Basin
  - Country



Map Table Report Chart File Statistics Inventory

Station: BEZDAN

- Object Contents:**
- Object Information
  - Time Series
  - Table Series
  - Meda-Data
  - Attachments

Layer: Station Object: Bezdan Long: 18.93° Lat: 45.86° Tip: Left Click: Select, Right Click: Select & Open Object Relationships Browser



- Available Layers:**
- AutoStation
  - Station**
    - » BEZDAN [42010]
    - » BOJKOV MOST [176]
    - » CERKVENIKOV MLIN [52]
    - » DOLENJE [47]
    - » ELHOVO [74850]
    - » GALABOVO [73480]
    - » HE SPILJE [174]
    - » IL ARION [32]
    - » IZMAIL [42804]
    - » JANKOVICA BUK [7122]
    - » KARAKAYA [9101]
    - » KIZILGECIT [1717]
    - » KOKEL [65]
    - » KONITSA [33]
    - » KRŠOVEC [51]
    - » LJUBICEVSKI MOST [47090]
    - » LOG CEZSOSKI [48]
    - » MEXORORA [36]
    - » MOMINA KULA [52800]
  - River
  - Basin
  - Country

Bezdan  
Streamflow Discharge - Daily

Data filling by calendar years

1980-89

1990-99

**Legend**

No Data

Missing Data

Full Set of Data

**Maximum**

Value	Date of first occurrence
6950.0	27/07/1997

**Average**

Value
2142.953

**Minimum**

Value	Date of first occurrence
742.0	03/10/1992

Map / Table / Report / Chart / File / **Statistics** / Inventory

- Object Contents:
- Object Information
  - Time Series
    - Variables
      - Streamflow Discharge
    - Aggregations
  - Table Series
    - Variables
    - Aggregations
  - Media-Data
  - Attachments
  - Themes
  - File Types

Station: BEZDAN

**Time Series**

Variable	Aggregation	From	To	Table		Report		Chart		File		Statisti	
				H	C	H	C	H	C	H	C	H	C
Streamflow Discharge	Daily	01-01-1984	31-12-1999	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Layer:  Object:  Long:  Lat:  Tip:



**Available Layers:**

- ~~AutoStation~~
- ~~Station~~
  - » BEZDAN [42010]
  - » BOJKOV MOST [176]
  - » CERKVENIKOV MLIN [52]
  - » DOLENJE [47]
  - » ELHOVO [74850]
  - » GALABOVO [73480]
  - » HE SPILJE [174]
  - » IL ARION [32]
  - » IZMAIL [42804]
  - » JANKOVICA BUK [7122]
  - » KARAKAYA [9101]
  - » KIZILGECIT [1717]
  - » KOKEL [65]
  - » KONITSA [33]
  - » KRŠOVEC [51]
  - » LJUBICEVSKI MOST [47090]
  - » LOG CEZSOSKI [48]
  - » MEXORORA [36]
  - » MOMINA KULA [52800]
- ~~River~~
- ~~Basin~~
- ~~Country~~

Bezdan  
Streamflow Discharge - Daily

Calendar Year: 1999

Day	Jan.	Feb.	Mar.	Apr.	May	Jun	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.		
15	2440	2070	5000	3200	4010	3410	4050	2070	1820	1860	1920	1970		
16	2380	1960	4910	3150	4180	3340	4140	2110	1730	1840	1920	2010		
17	2310	1890	4790	3140	4410	3280	4210	2150	1670	1800	1870	2060		
18	2240	1840	4680	3130	4610	3200	4300	2170	1640	1740	1800	2110		
19	2160	1800	4590	3080	4800	3150	4290	2130	1610	1660	1730	2150		
20	2080	1800	4430	3060	4910	3250	4140	2090	1580	1600	1710	2120		
21	2030	1830	4250	3110	4860	3370	3890	2140	1550	1520	1720	2080		
22	1990	1890	4000	3110	4760	3520	3570	2190	1540	1480	1700	2080		
23	1950	2270	3730	3060	4620	3570	3210	2220	1540	1460	1630	2200		
24	1900	3050	3520	3010	4590	3610	2960	2300	1560	1470	1670	2280		
25	1870	3810	3320	3000	4730	3790	2940	2370	1640	1470	1690	2290		
26	1830	4300	3130	3050	4950	4090	3250	2340	1720	1460	1630	2220		
27	1790	4580	3010	3110	5200	4300	3610	2230	1710	1440	1560	2120		
28	1760	4640	2990	3130	5400	4300	3750	2140	1650	1450	1520	1990		
29	1730		3040	3180	5540	4100	3630	2050	1580	1460	1530	1910		
30	1710		3100	3220	5650	3860	3410	2050	1550	1450	1570	2020		
31	1740		3170		5740		3210	2150		1450		2260		
Min.	1710	1670	2990	2940	3260	3150	2620	1960	1540	1440	1340	1540		
Avg.	2026	2351	4246	3138	4273	4121	3421	2214	1955	1707	1586	1943		
Max.	2480	4640	5390	3420	5740	5760	4300	3000	2680	2090	1920	2290		
Year Min.			1340			Year Avg.			2752			Year Max.		5760

Map Table Report Chart File Statistics Inventory

Station: BEZDAN

Object Contents:

- Object Information
- Time Series
  - Variables
    - Streamflow Discharge
  - Aggregations
- Table Series
- Media-Data
- Attachments

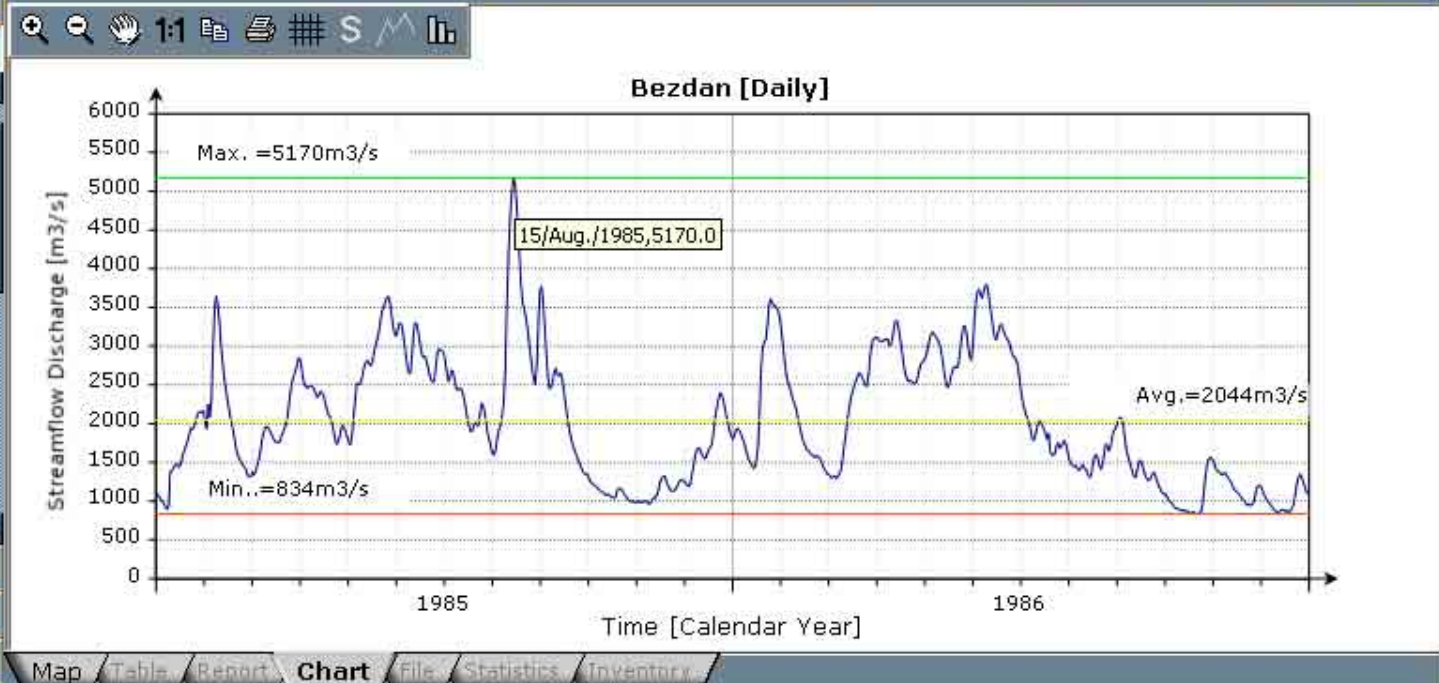
Time Series

Variable	Aggregation	From	To	Table		Report		Chart		File		Statisti	
				H	C	H	C	H	C	H	C	H	C
Streamflow Discharge	Daily	01-01-1984	31-12-1999	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Layer: Object: Long: Lat: Tip:

- Available Layers:**
- AutoStation
  - Station
    - » BEZDAN [42010]
    - » BOJKOV MOST [176]
    - » CERKVENIKOV MLIN [52]
    - » DOLENJE [47]
    - » ELHOVO [74850]
    - » GALABOVO [73480]
    - » HE SPILJE [174]
    - » IL ARION [32]
    - » IZMAIL [42804]
    - » JANKOVICA BUK [7122]
    - » KARAKAYA [9101]
    - » KIZILGECIT [1717]
    - » KOKEL [65]
    - » KONITSA [33]
    - » KRŠOVEC [51]
    - » LJUBICEVSKI MOST [47090]
    - » LOG CEZSOSKI [48]
    - » MEXORORA [36]
    - » MOMINA KULA [52800]
  - River
  - Basin
  - Country

Bezdán Streamflow Discharge - Daily From 1985 To 1986 Chart



Station: BEZDAN

- Object Contents:
- Object Information
  - Time Series
    - Variables
      - Streamflow Discharge
    - Aggregations
  - Table Series
  - Media-Data
  - Attachments

**Time Series**

Variable	Aggregation	From	To	Table		Report		Chart		File		Statisti	
				H	C	H	C	H	C	H	C	H	C
Streamflow Discharge	Daily	01-01-1984	31-12-1999	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Layer: Object: Long: Lat: Tip: Move the mouse over the Graph to get the Value of the data



**Available Layers:**

- Basin
- Country
- AutoStation
- Station
  - » BEZDAN [42010]
  - » BOJKOV MOST [176]
  - » CERKVENIKOV MLIN [52]
  - » DOLENJE [47]
  - » ELHOVO [74850]
  - » GALABOVO [73480]
  - » HE SPILJE [174]
  - » IL ARION [32]
  - » IZMAIL [42804]
  - » JANKOVICA BUK [7122]
  - » KARAKAYA [9101]
  - » KIZILGECIT [1717]
  - » KOKEL [65]
  - » KONITSA [33]
  - » KRSOVEC [51]
  - » LJUBICEVSKI MOST [47090]
  - » LOG CEZSOSKI [48]
  - » MEXORORA [36]
  - » MOMINA KULA [52800]
- River

Bezdan  
Streamflow Discharge - Daily

Calendar Year 1990

File is created and it will be opened in a new window!

http://127.0.0.1/Webmap/App/db/hydroEN/showreport\_W1.php?...

Fichier Edition Affichage Insertion Format Outils Tableau Atteindre Favc

Précédente Recherche Favoris

### Yearly Report

Objekt: Station: Bezdan  
 Varijable: Streamflow Discharge [m3/s]  
 Aggreg.: Daily  
 Godina: 1990

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1680.0	1290.0	2148.0	1710.0	2196.0	2082.0	2088.0	1385.0	1050.0	1890.0	1110.0	2316.0
2	1888.0	1305.0	2112.0	1695.0	2255.0	1910.0	2022.0	1330.0	1054.0	1725.0	1205.0	2352.0
3	1475.0	1275.0	2172.0	1690.0	2202.0	1772.0	2010.0	1270.0	1058.0	1575.0	1355.0	2322.0
4	1395.0	1250.0	2364.0	1665.0	2112.0	1650.0	2010.0	1260.0	1046.0	1465.0	1510.0	2225.0
5	1345.0	1260.0	2644.0	1645.0	2016.0	1542.0	2034.0	1290.0	1023.0	1355.0	1685.0	2076.0
6	1335.0	1275.0	2792.0	1618.0	1935.0	1480.0	2166.0	1340.0	996.0	1345.0	1870.0	1955.0
7	1320.0	1245.0	2810.0	1570.0	1915.0	1485.0	2388.0	1345.0	975.0	1385.0	1955.0	1865.0
8	1295.0	1195.0	2743.0	1554.0	1890.0	1542.0	2632.0	1335.0	964.0	1390.0	1930.0	1778.0
9	1260.0	1150.0	2596.0	1554.0	1865.0	1575.0	2810.0	1290.0	1054.0	1395.0	1850.0	1700.0
10	1220.0	1110.0	2437.0	1558.0	1860.0	1570.0	2966.0	1255.0	1140.0	1425.0	1790.0	1655.0
11	1180.0	1082.0	2334.0	1605.0	1850.0	1735.0	2838.0	1250.0	1215.0	1410.0	1705.0	1605.0
12	1135.0	1086.0	2256.0	1742.0	1838.0	1855.0	2896.0	1270.0	1310.0	1430.0	1624.0	1554.0
13	1125.0	1086.0	2255.0	1808.0	1844.0	2088.0	3129.0	1270.0	1400.0	1505.0	1538.0	1566.0
14	1110.0	1058.0	2274.0	1795.0	1850.0	2268.0	3532.0	1240.0	1405.0	1510.0	1450.0	1645.0
15	1094.0	1058.0	2418.0	1748.0	1865.0	2465.0	3852.0	1190.0	1415.0	1475.0	1400.0	1742.0
16	1090.0	1054.0	2500.0	1705.0	1895.0	2620.0	3933.0	1125.0	1475.0	1410.0	1375.0	1808.0
17	1078.0	1074.0	2465.0	1665.0	1910.0	2715.0	3772.0	1082.0	1530.0	1330.0	1420.0	1790.0
18	1074.0	1255.0	2375.0	1612.0	1900.0	2798.0	3492.0	1066.0	1490.0	1255.0	1430.0	1715.0
19	1074.0	1850.0	2268.0	1588.0	1900.0	2873.0	3115.0	1074.0	1395.0	1180.0	1425.0	1635.0
20	1062.0	2444.0	2178.0	1550.0	1920.0	2892.0	2792.0	1098.0	1270.0	1135.0	1435.0	1558.0
21	1050.0	2760.0	2064.0	1558.0	1925.0	2894.0	2520.0	1120.0	1180.0	1110.0	1455.0	1515.0

Zone inconnue

Object Contents:

- Object Information
- Time Series
  - Variables
    - Streamflow Discharge
  - Aggregations
- Table Series
- Media-Data
- Attachments

Map Table **Report** Chart

**Variable**

Streamflow Discharge



- Available Layers:**
- Basin
  - Country
  - AutoStation
  - Station
  - BEZDAN [42010]
  - BOJKOV MOST [176]
  - CERKVENIKOV MLIN [52]
  - DOLENJE [47]
  - ELHOVO [74850]
  - GALABOVO [73480]
  - HE SPILJE [174]
  - IL ARION [32]
  - IZMAIL [42804]
  - JANKOVICA BUK [7122]
  - KARAKAYA [9101]
  - KIZILGECIT [1717]
  - KOKEL [65]
  - KONITSA [33]
  - KRSOVEC [51]
  - LJUBICEVSKI MOST [47090]
  - LOG CEZSOSKI [48]
  - MEXORORA [36]
  - MOMINA KULA [52800]
  - ...
  - River

Bezdán  
Streamflow Discharge - Daily  
From 1985 To 1986  
TXT file Excel file

File is created and it will be opened in a new window!

http://127.0.0.1/Webmap/App/db/hydroEN/createdownload.p...

Fichier Edition Affichage Insertion Format Outils Données Acrobat

Précédente Recherche Favoris

A1 = Object: Bezdán

	A	B	C	D	E	F
1	Object: Bezd	Variable: Stre	Aggregation:	Period: 1985/1986		
2	Date	Value				
3	01-janv-85	1100.0				
4	02-janv-85	1080.0				
5	03-janv-85	1060.0				
6	04-janv-85	1020.0				
7	05-janv-85	995.0				
8	06-janv-85	965.0				
9	07-janv-85	925.0				
10	08-janv-85	895.0				
11	09-janv-85	945.0				
12	10-janv-85	1380.0				
13	11-janv-85	1390.0				
14	12-janv-85	1430.0				
15	13-janv-85	1470.0				
16	14-janv-85	1480.0				
17	15-janv-85	1450.0				

1986&TAB=DATA\_SDD&TYPE=1 /

Zone inconnue

- Object Contents:
- Object Information
  - Time Series
    - Variables
      - Streamflow Discharge
      - Aggregations
  - Table Series
  - Media-Data
  - Attachments

Map Table Report Chart File

Variable	Aggr
Streamflow Discharge	

- Available Layers:**
- Country
  - AutoStation
  - Station
  - River
  - Basin



http://127.0.0.1/Webmap/Woisydes/attache/croatianiis...

Fichier Edition Parcourir Atteindre Favoris ?

Précédente Recherche Favoris

**The group: Small islands – integrated water management, short time precipitation ....**

Meteorological and Hydrological Service of Croatia

Janja Milković

Zone inconnue

Search Window - WebMap /

Search

Searched Objects for "climat

Searched Variables for "clim

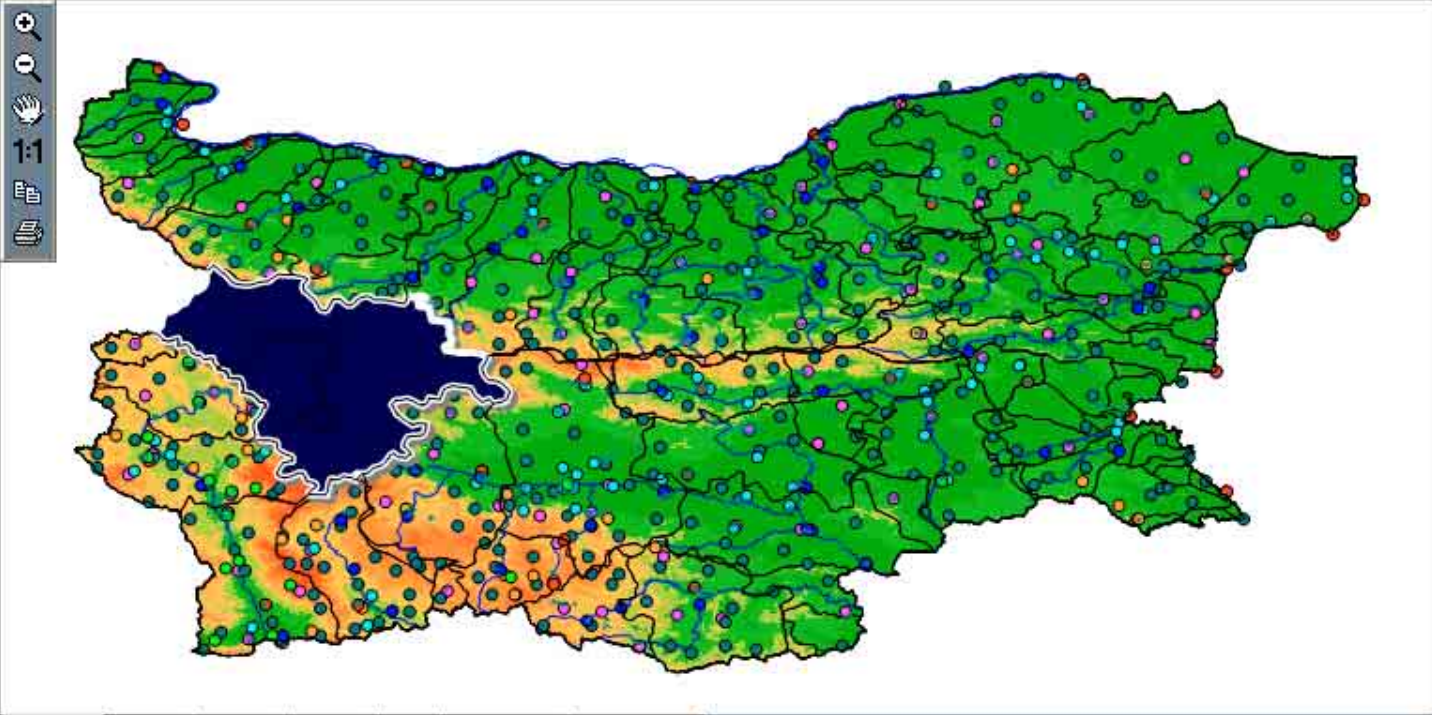
Searched Attachments for

File			
impactsonhydrologicalcycle-macedonia-1999.htm			
albania_waterresources_en.htm	Water resource; Climate; Rainfall; Surface water; Groundwater	Water resource in Albania	Country <a href="#">Download or View</a>
atmproc-romania.pdf	Climate, Atmosphere, Drought, Romania	Atmospheric process leading to droughty periods in Romania	Country <a href="#">Download or View</a>
croatianiislands.ppt	Islands, Climate, Croatia	Climate on Croatian Islands	Country <a href="#">Download or View</a>

Layer: Country Object: Croatia



- Available Layers:**
- AdmRegions**
    - » SOFIA\_OBLAST [7]
    - » SOFIA\_GRAD [8]
    - » STARA\_ZAGORA [25]
    - » TARGOVISHTE [14]
    - » VARNA [17]
    - » VELIKO\_TARNOVO [5]
  - Town
  - AutomaticStat
  - HydrologicStat
  - SynopticStation
  - Well
  - Spring
  - RainfallStation
  - ClimaticStation
  - River
  - Watershed
  - Region



Map Table Report Chart File Statistics Inventory

AdmRegions: SOFIA\_OBLAST

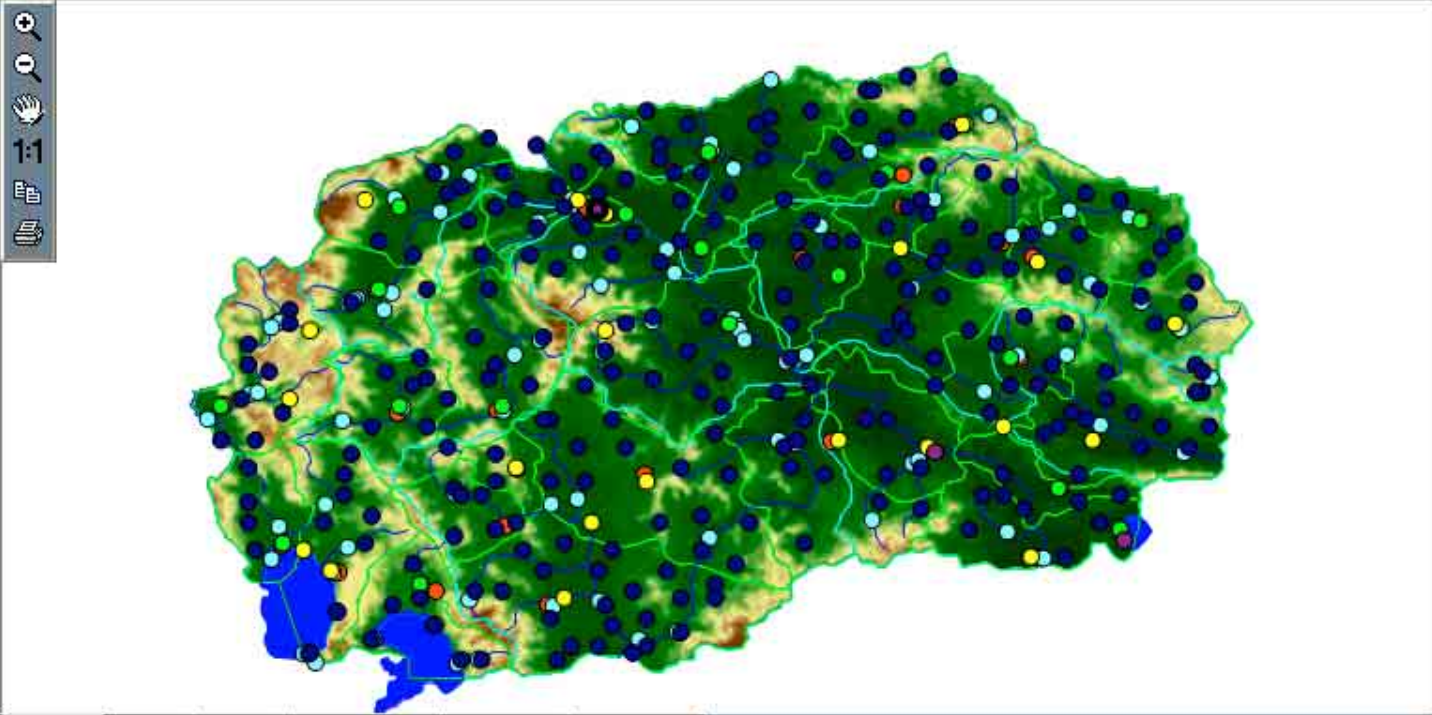
- Object Contents:**
- Object Information
  - Time Series
  - Table Series
  - Media-Data
  - Attachments

Object Info	
Field	Value
ID AdmRegions	4
Admregions ID	7
Admregions code	7
Admregions Name	Sofia_Oblast
Admregions Ime	????? ??????
Country Name	Bulgaria

Layer: Object: Long: Lat: Tip:



- Available Layers:**
- AutoStanica
  - DozdStanica**
  - » ASAMATI [284]
  - » BABINI KOLIBI [199]
  - » BAC [55]
  - » BAJLOVCI [75]
  - » BAROVO [259]
  - » BEGNIŠTE [258]
  - » BELANOVCI [69]
  - » BELCIŠTE [16]
  - » BELOPOLE [221]
  - » BEŠIŠTE [250]
  - » BLATEC [188]
  - » BOGOMILJA [1341]
  - GlavnaStanica
  - KlimStanica
  - HidStanica
  - Grad
  - Reka
  - Opstina
  - Sliv



Map Table Report Chart File Statistics Inventory

Layer: DozdStanica

**Layer Info**

Field	Value
Layer Name	DozdStanica
Number of Objects in Layer	247
Layer Type	Point
Children of Layer	
Parents of Layer	Drzava, Sliv, Opstina
Layer Description	

**Layer Properties**

Property	Description	Edit	Download
MapInfo Layer Definition	MIF&MID file export		<input checked="" type="checkbox"/>
Objects Definition	Colors, fills and Objects sizes	<input checked="" type="checkbox"/>	

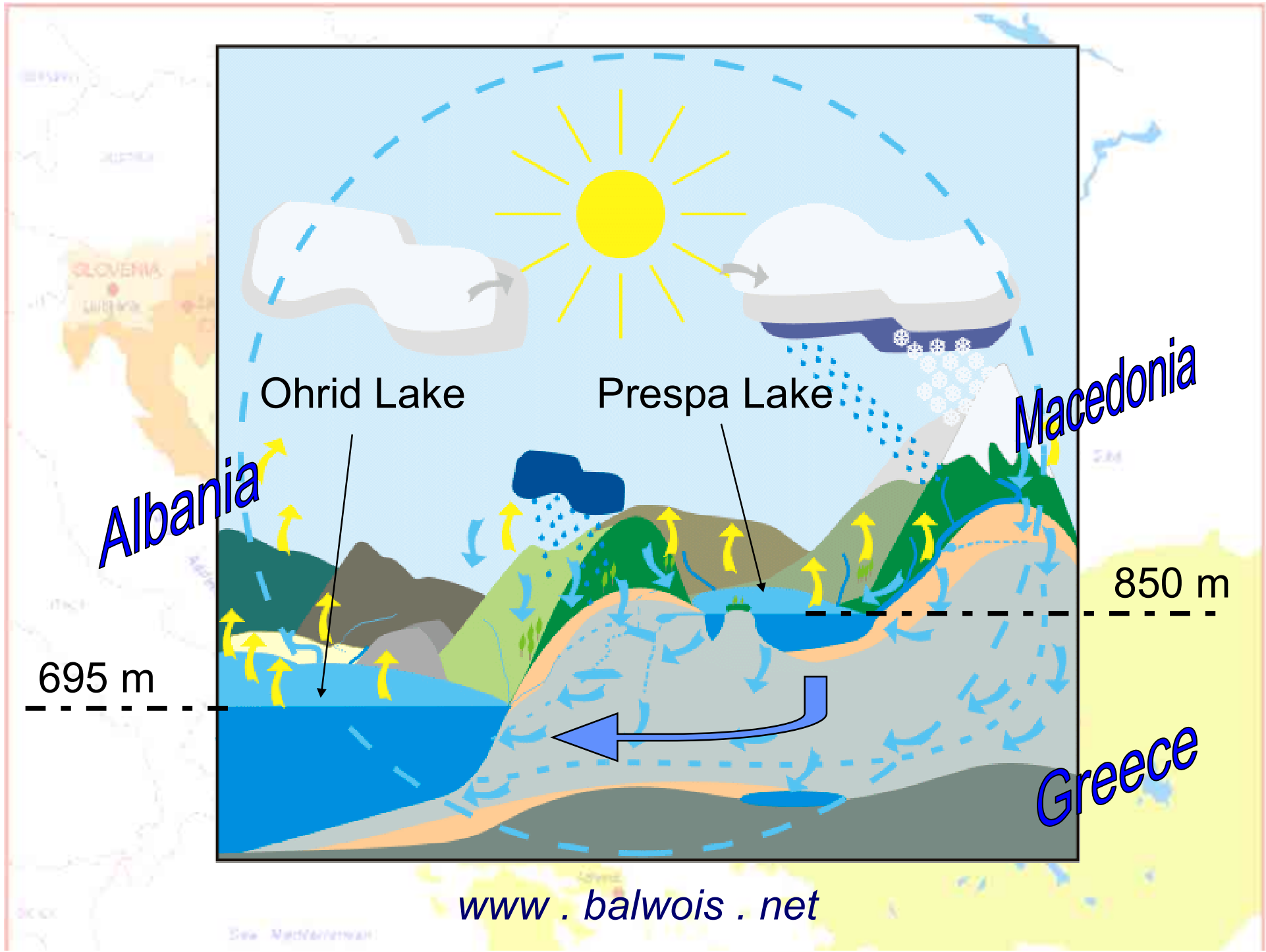
**Layer Inventory**

View	Description	Table
Layer Objects	Table with the Objects Descriptions	<input checked="" type="checkbox"/>
Layer Objects Data Inventory	Database View on the Layer Objects with the attached Data	<input checked="" type="checkbox"/>

**Layer Views Inventory**

View	Description	Table
View Opstina DozdStanica	Objects relationships, containing selected Layer	<input checked="" type="checkbox"/>
View Sliv DozdStanica	Objects relationships, containing selected Layer	<input checked="" type="checkbox"/>

Layer: AutoStanica Object: Skopje Long: 21.47° Lat: 41.96° Tip: Left Click: Select, Right Click: Select & Open Object Relationships Browser



WOISYDES Project Database - WebMap Application

Databases Tools Views Inventories Help Sign-Out

Available Layers:

- Basin
- Country
- Town
- Waterbody
- Hydrologic
- Groundwater
- Synoptic
- Climatic
- Rainfall

Albania

Macedonia (FYROM)

Greece

Basin: Ohrid

Map Table Report Chart File Statistics Inventory

Hydrometeorological data

Bibliography

Maps - Satellite images - GIS - DME

Water Bodies Modelling

Layer: Basin Object: Ohrid Long: 20.88° Lat: 41.11° Tip: Left Click: Select, Right Click: Select & Open Object Relationships Browser

démarrer Microsoft... 2 Intern... FR 09:08



Water Observation and Information System

Conferences / Workshops

Research / Development Projects

Cooperation platform

to promote best practices in IWRM and DSS

to shorten links researchers / end-users

to improve the networking of partners at European & global levels



**Thanks for your attention ...**

**[WWW . BALWOIS . NET](http://WWW.BALWOIS.NET)**

**[morell @ ird . fr](mailto:morell@ird.fr)**