

INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS

IMPLEMENTATION OF THE WFD IN CYPRUS

International Conference on the
Implementation of the WFD

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Spyros Stephanou

Panayiota Hadjigeorgiou



Structure of Presentation

- 1) Basic Hydrological Data
- 2) Implementation of the Directive
- 3) Problems
- 4) Conclusions





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Egypt



Basic Data

Area: 9500 km²

1 River Basin

Rainfall from 280 to 1000mm

No perennial rivers

No natural fresh water lakes

Rainfall 1970-2005 470mm

1900-1969 540mm

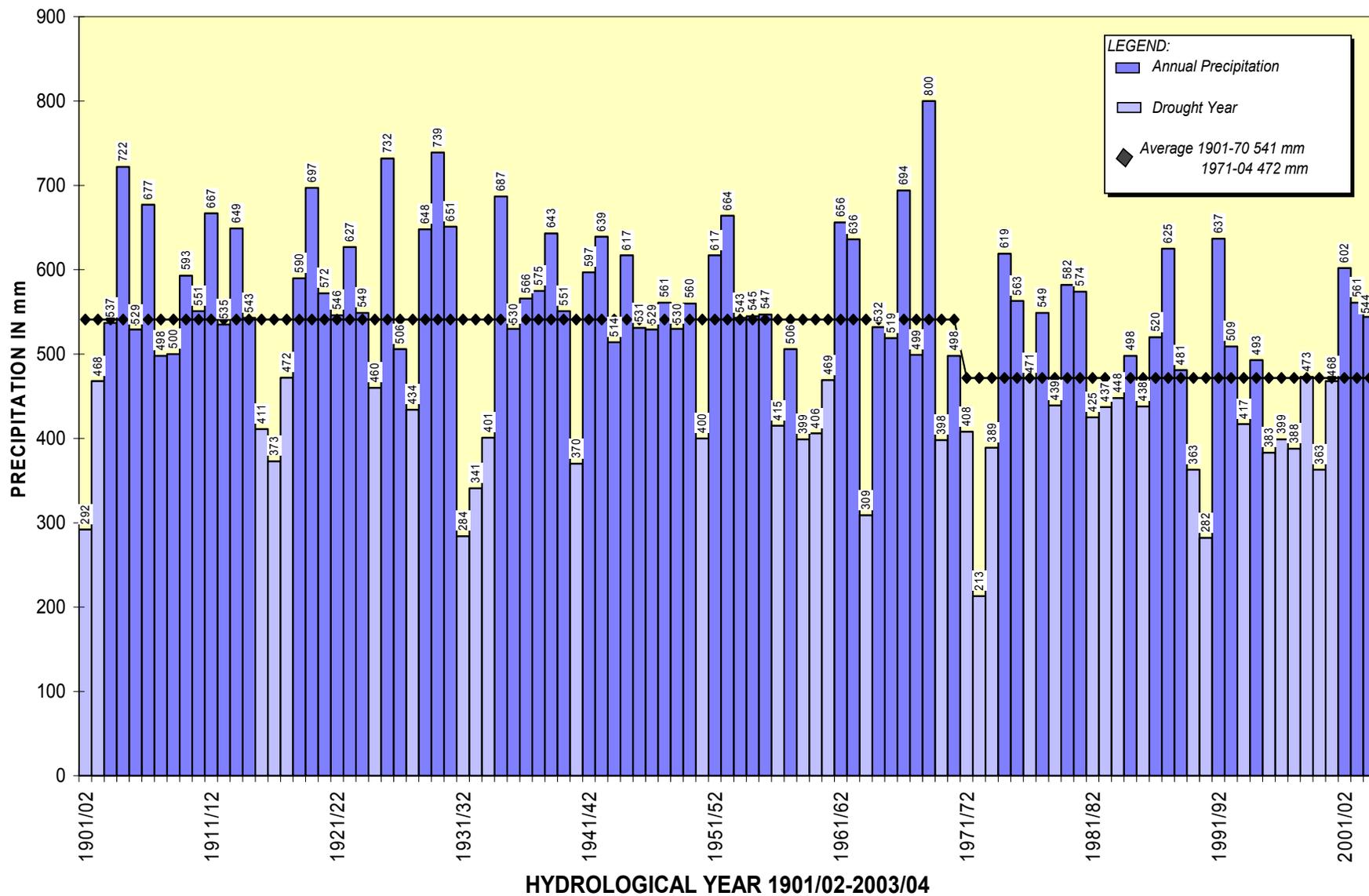
Drop of 40% in river runoff

Construction of 20 major dams
of total capacity about 300 mcm

Creation of freshwater lakes



CYPRUS ANNUAL PRECIPITATION AND AVERAGE 1901/1970-1971/2004 (AREA UNDER GOVERNMENT CONTROL)



MAJOR WATER WORKS



- Southern Conveyor
- Choirokoitia - Ammo/stos Pipeline
- Dipotamos - Lefkosia Pipeline
- Main Conveyor (Polis)
- West Conveyor (Pafos)
- Irrigation Areas



Transportation of Directive

Law N13(1) 2004 on

- Protection and Management of Waters
Minister of Agriculture, Natural Resources and Environment
is responsible Head
- The Water Development Department
and the Environment Service
are the main departments involved



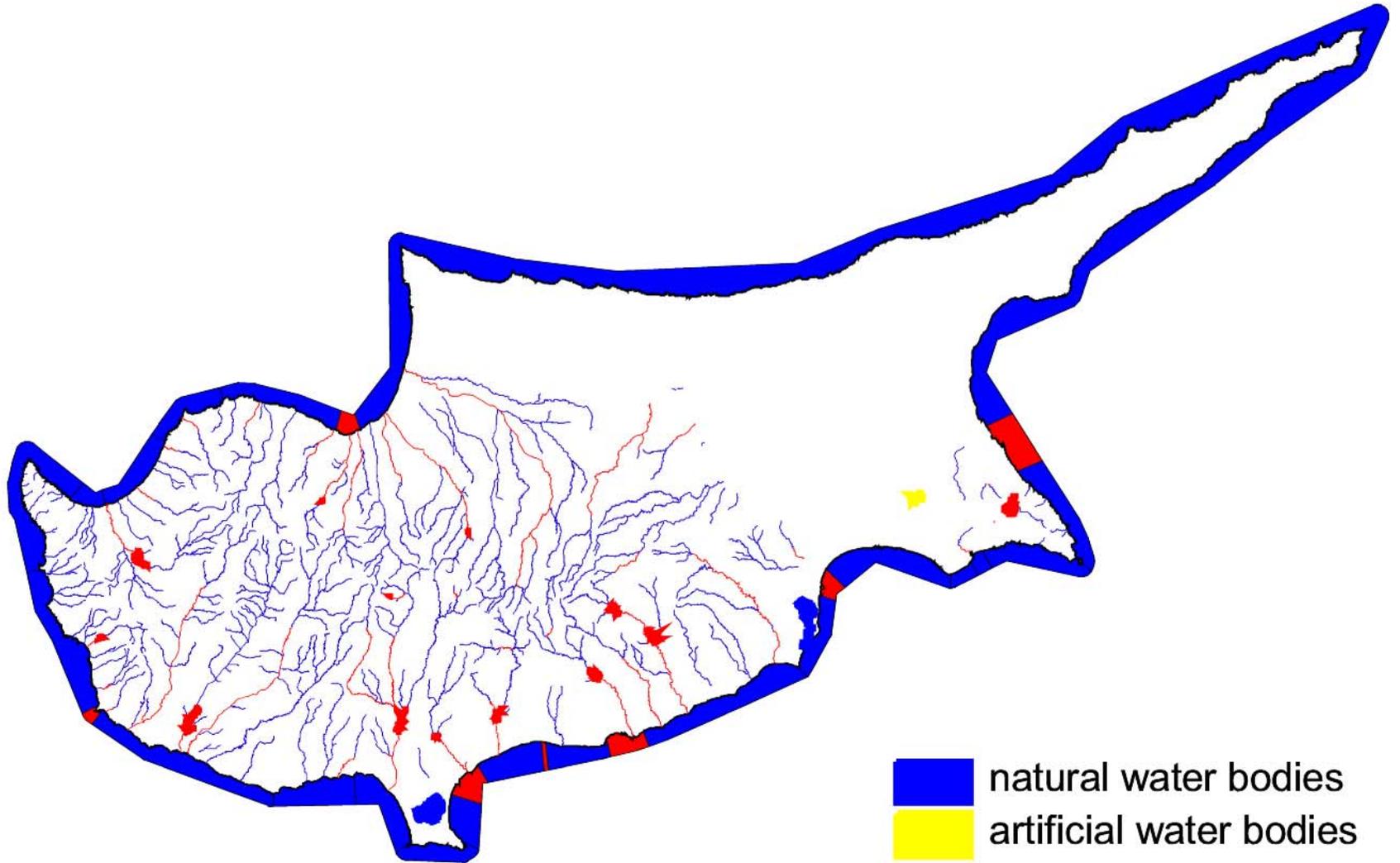
The work for Articles 5 & 6

Main issues:

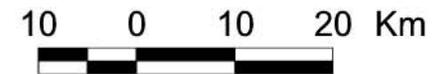
- Overabstraction of Aquifers
- Salinization of Aquifers
- Point source pollution from solid waste landfills, pig farms
- Diffuse pollution from Agriculture
- Problems of Adequate Quantity of water supply, affects ecosystems and water quality
- 49 of the 216 streams are heavily modified and 20% are at risk
- 1 of the 20 lakes and 16% of the coastal waters also at risk



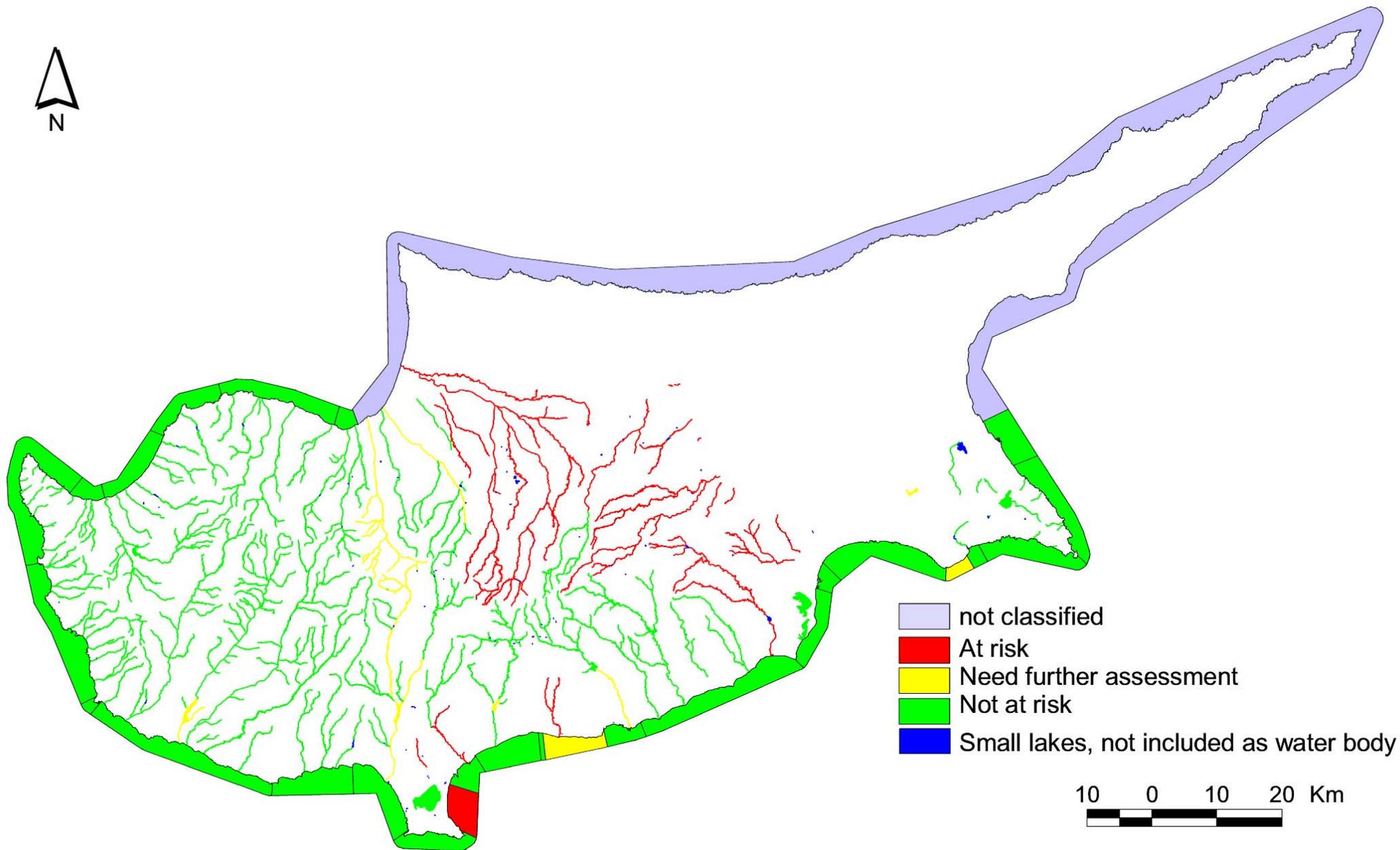
Water Bodies



-  natural water bodies
-  artificial water bodies
-  heavily modified water bodies



Surface Water Bodies at risk



Intercalibration

Cyprus is actively involved

1st Phase completed



Public Participation

- A Contract is about to be signed for the fulfillment of article 14(1)(a) and (b) within the specified time limits
- The only Public participation practiced so far has been in connection to Environmental Impact Assessments



Policies for Water Pricing

Consultancy Services
currently in progress for designing
a Protocol of Information and
a data bank by the end of 2007



Planned Activities

Consultants will be called in the next months to design the Program of Measures and the Management Plan according to the planned time schedule



Problems faced

- Lack of sufficient quantitative and qualitative data and of a network of data collection and storing
- Difficulties in cooperation between the various agencies dealing with water and the lack of an overall agency



Problems

- Shortage of expertise and manpower
- Lack of technical means
- The attitude of the users towards water and towards the environment
- The high cost of implementation



Special Problems

- Long drought periods and exhaustion of main aquifers
- Need Augmentation with desalination and sewage reuse – even in a desalinated form
- Problems of CO₂ emissions
- Even though Cyprus is characterised as one river basin, the government of Cyprus can not exercise control over 40% of the area



Conclusions

- The difficult part of the implementation is ahead of us
- It will help in the sustainable management of the Water Resources of the Island
- It presupposes political will, long term planning and change of attitude towards water



THANK YOU

