

ATLASAT PROJECT:

WORLD INTERDISCIPLINARY SATELLITE ATLAS FOR THE STUDY AND PROTECTION OF ECOSYSTEMS

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ATLASAT PROJECT

GENERAL INDEX

1ST, JURIDICAL SECTION

I.L.P.E. Editorial Plan (*International Legislation for the Protection of Ecosystems*):

HISTORICAL DATA:

- Ecology: from the European to the American school; relevance of EU legislature;
- the gradual alteration and depletion of natural resources in the various forms of government and historical periods, to this day.

LEGISLATIVE DATA:

- Conventions, treaties, international and EU juridica and scientific charts concerning international and EU conventions and treaties.

JURIDICAL DATA:

- Principles and sentences from the Court of Justice: VIA and VAS, environmental damage and compensation.....;

2ND, SCIENTIFIC SECTION

SCIENTIFIC DATA

- Resources and their alteration at the hands of man: from geo-biochemical cycles to the vast international alteration of ecosystems

TECHNOLOGICAL DATA:

- The study and improvement of safety measures on ships
 - automatic means of pollution control

POLITICAL-ECONOMIC DATA:

- current initiatives



A) INDEX OF JURIDICAL PART

1ST, GENERAL SECTION:

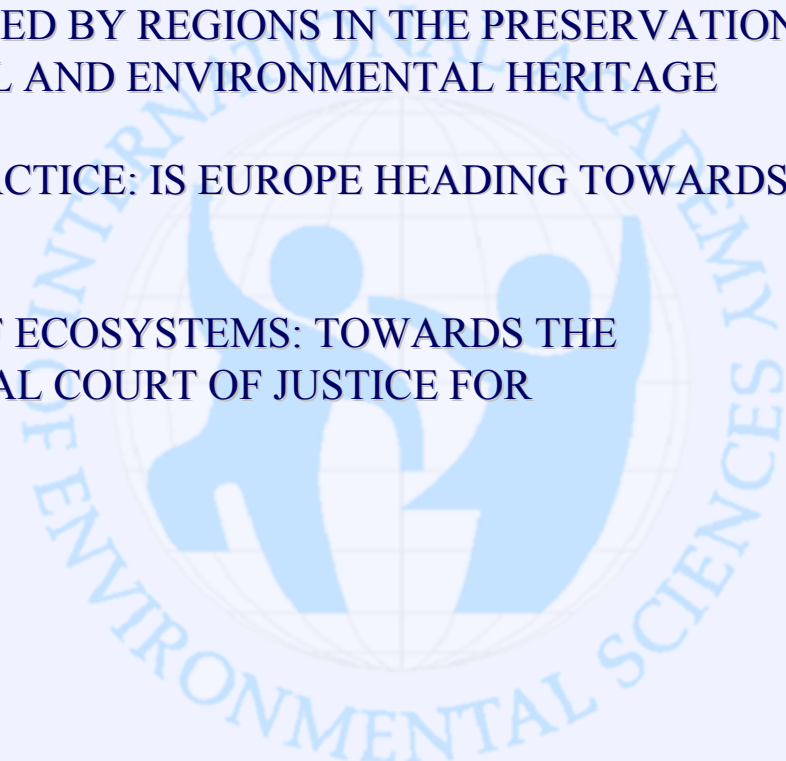
THE PRESENT

- ❖ HISTORICAL-NATURALISTIC AND HISTORICAL-JURIDICAL DATA: THE USE OF RESOURCES IN HISTORY AND THE CHOICES MADE IN DIFFERENT LEGAL SYSTEMS...;
- ❖ HISTORICAL-SCIENTIFIC-JURIDICAL DATA:
 - THE BASIC PRINCIPLES DEVELOPED IN ECOLOGY AND THEIR RELEVANCE TO LEGISLATURE AND JURISPRUDENCE IN THE EU
 - THE BASIC PRINCIPLES [THE VARIOUS DEFINITIONS OF “ENVIRONMENT”, AND THE SYNTHESIS PRODUCED BY THE LEGILATOR, BY JURIDICAL DOCTRINE AND BY JURISPRUDENCE; THE JURIDICAL AND SCIENTIFIC-NATURALIST DEFINITIONS OF “ECOSYSTEM”, “FOREST”, “ENVIRONMENTAL DAMAGE”...] REQUIRED FOR A KNOWLEDGE OF ECOSYSTEMS: THEIR FORMULATION IN THE NATURAL SCIENCES, IN THE WORKS OF JURISTS AND IN THE MOST SIGNIFICANT VERDICTS
 - SCIENTIFIC MEANS OF KNOWLEDGE: THE USE OF SATELLITES AND OF THEIR DATE-BASES.

1ST, GENERAL SECTION

2) THE FUTURE

- THE NEW INTERNATIONAL ROLE PLAYED BY REGIONS IN THE PRESERVATION AND DEVELOPMENT OF THE CULTURAL AND ENVIRONMENTAL HERITAGE
- ENVIRONMENTAL PROTECTION IN PRACTICE: IS EUROPE HEADING TOWARDS A PENALTY-BASED SYSTEM?
- THE TRANSNATIONAL PROTECTION OF ECOSYSTEMS: TOWARDS THE ESTABLISHMENT OF AN INTERNATIONAL COURT OF JUSTICE FOR ENVIRONMENTAL CRIMES



2ND, SPECIAL SECTION

- 1) CONVENTIONS, AGREEMENTS, PROTOCOLS [REGULATION CHARTS (REFER TO THE STRUCTURE BELOW)]
- 2) EU PROVISIONS AND CASE-LAW OF THE COURT OF JUSTICE
- 3) VIOLATION OF ENVIRONMENTAL REGULATIONS AT THE HANDS OF INDIVIDUAL EU STATES



CONVENTIONS, AGREEMENTS, PROTOCOLS, EU PROVISIONS AND CASE-LAW OF THE COURT OF JUSTICE

EXPLANATORY PROCEDURE: REGULATION CHART

FOR EVERY LEGAL TRANSACTION:

- Date of adoption
- Place of adoption
- Date of its coming into force
- Languages
- Depository
- Secretary
- Amendments/Protocols
- General remarks
- Objectives
- Measures
- Aims
- Contents
- Complying States
- Most significant verdicts related to the convention and the principles it establishes.

2) EU PROVISIONS CONCERNING THE VARIOUS ENVIRONMENTAL FIELDS AND/OR ISSUES;

3) INFRINGEMENTS AT THE HANDS OF INDIVIDUAL STATES OF THE EUROPEAN UNION, AND THE PRINCIPLES ESTABLISHED BY THE COURT OF JUSTICE.



CONCERNING THE ITALIAN STATE IN PARTICULAR: REGULATION CHART

- Italy complies (does not comply) with the present Convention:
- Date of the signature
- National legislative measures
- Confirmation, notification, adhesion
- Date of its coming into force

ITALY'S ACCEPTANCE OR NON-ACCEPTANCE OF THE AMENDMENTS:

- Italy accepts (does not accept) the amendments
- Signature
- National legislative measures
- Confirmation, notification, adhesion
- Date of its coming into force

ITALY'S ACCEPTANCE OR NON-ACCEPTANCE OF THE PROTOCOL:

- Italy accepts (does not accept) the protocol
- Signature
- National legislative measure
- Confirmation, notification, adhesion
- Date of its coming into force



FOR EVERY STATE ADHERING TO THE PRESENT CONVENTION:
REGULATION CHART

- Signature
- National legislative measure
- Confirmation, notification, adhesion
- Date of its coming into force
- References
- Actuating measures
- Possible notes



ENVIRONMENTAL AREAS OR ISSUES TO BE CONSIDERED

The following aspects will be taken into consideration when dealing with each issue/theme:

- General observations about the issue
- Objectives and aims of the provisions focusing on the issue (biodiversity; environmental damage, etc.)
- Contents of the international and EU provisions
- Possible relevant verdicts and principles.

In the case of specific issues which are typically interdisciplinary, such as that of environmental crimes and related compensations, or the issue of humid areas, certain aspects developed within the field of ecology shall also be taken into account; that is to say, one will also resort to the science of ecology or other similar or relevant disciplines (geology, chemistry, physics, environmental hygiene...).

Clearly, the most significant national and international verdicts will be mentioned, and an abstract for each one of them will be reported.

Lastly, for every State of the European Union and in relation to EU provisions concerning each sector taken into account attention will be drawn to:

- the institution or not of legal procedures in the case of infringements;
- the content of the infringements levelled;
- the outcome of the procedure and, above all,
- the principles stated by the Court of Justice.



Waters

International freshwaters



Food Produce

Oceans, waters and internal waters: the influence of climate on food resources ;

*The effects of the alteration of the atmosphere on food resources
(from agriculture to fishing, from the supply of water to its quality..)*



Environment

⊕ Preservation of nature and of natural resources





Asbestos

- ▶ *The quality and sustainability of ecosystems [risk thresholds and levels of control: “...also on the basis of epidemiological evidence, through an assessment of the major hazardous effects (carcinogenic properties, mutagenicity, genotoxicity*
- ▶ *Natural and man-induced risks*



Biodiversity

- ▶ *The quality and sustainability of ecosystems*
- ▶ *The biosphere and the need for an interdisciplinary approach: “...what is often lacking is a joint view of biological complexity, of the interaction between ecosystems and biomes and the physical factors of the environment...”*

N.B. This is one of the most important aspects, not least for the evaluation and quantification of environmental damage. Natural sciences on the one hand, provisions and juridical elaborations on the other deal with these issues on the basis of different but converging concepts. Both tend to define the nature of the environment as a united whole.

Climate Changes

Solid earth

Oceans, water and internal waters

Atmosphere

Biosphere

System Earth: interactions between solid earth, sea, internal waters, atmosphere and biosphere,

Global changes

Draught - desertification [cf. "Ecosystems"]

Ozone layer

Atmosphere

Global changes



Cultural resources: the Historic and Artistic Heritage

International protection of cultural heritage : historical and juridical aspects



Ecosystems

Atmosphere

Biosphere

System Earth: interactions between solid earth, sea, internal waters, atmosphere and biosphere

Global changes

- ⊕ Antarctic
- ⊕ Mountainous environment
- ⊕ Preservation of nature and of natural resources [cf. Environment, below]

Biosphere

- ⊕ Forests

System Earth: interactions between solid earth, sea, internal waters, atmosphere and biosphere ⊕ Natural-Cultural heritage

The quality and sustainability of ecosystems

- ⊕ Draught – desertification (cf. also with “climatic changes”)
- ⊕ Humid areas



Energy

Atmosphere

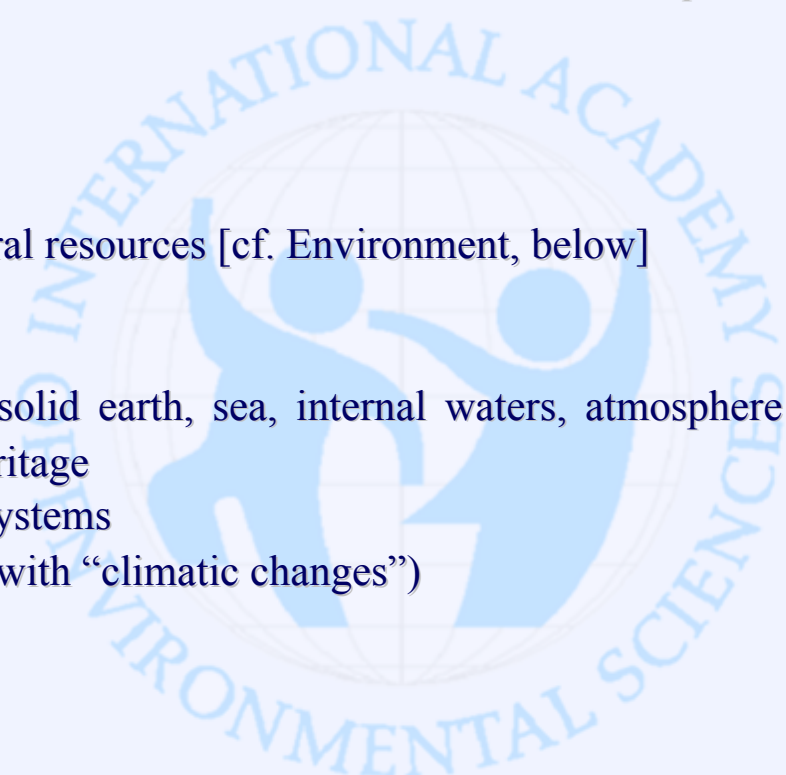
Biosphere

Interfaces with other projects

International picture

System Earth: interactions between solid earth, sea, internal waters, atmosphere and biosphere

Global changes





Flora-fauna

System Earth: interactions between solid earth, sea, internal waters, atmosphere and biosphere

Trade in species at risk

Biosphere

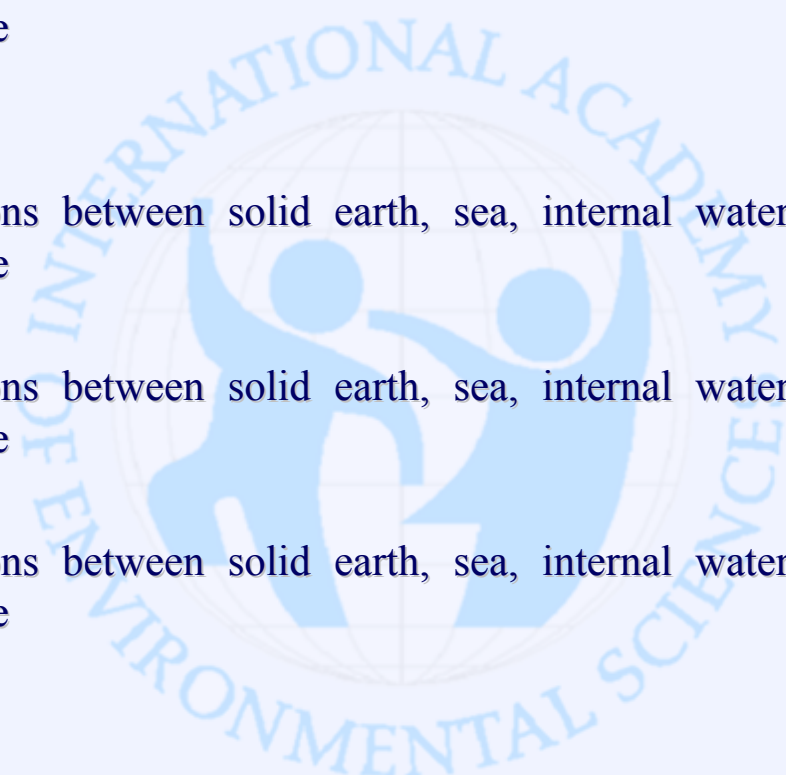
System Earth: interactions between solid earth, sea, internal waters, atmosphere and biosphere

Protection of animals

System Earth: interactions between solid earth, sea, internal waters, atmosphere and biosphere

Protection of plants

System Earth: interactions between solid earth, sea, internal waters, atmosphere and biosphere



Industrial Accidents



Acoustic Pollution



Atmospheric Pollution

Boundaries of the project

The quality and sustainability of ecosystems



Water Pollution

The quality and sustainability of ecosystems



Sea

- ⊕ Maritime law
- ⊕ Criminal law
- ⊕ Exploration and exploitation of the sea
- ⊕ Sea pollution and/or ecological disasters
- ⊕ Biological marine resources



Genetically Modified Organisms



Ozone



Civil Responsibility

Compensation for environmental damage



Waste

- ⊕ The trans-national movement of dangerous waste



Health



Dangerous Substances

- ⊕ Chemical products



Sustainable development

- ⊕ Regional environmental cooperation



V.I.A. and V.A.S. – Environmental Information

- ⊕ Access to information
- ⊕ VIA and VAS



