The Approach of Integrated Coastal Zone Management: From Technical to Political Point of View

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Editorial

The Integrated Coastal Zone Management (ICZM) is a technical-scientific discipline that has been internationally recognized as the most appropriate to address the sustainable management of coastal and marine areas [1]. Then it is convenient to use the inertia and experience generated by this discipline that has already defined a suitable framework for the management of coastal and marine areas.

ICZM should be conceived as an instrument designed to develop a coastal and marine policy [2,1,3]. This is a young discipline, and its origins seems to come from the US and Europe at the end of the sixties. In 1969 the explosion of an offshore oil well off the coast of California generated public concern that reinforced the campaign to approve the US coastal management Act [1]. Indeed, several authors [4-6,1] agree in indicating the US public policy document "Our nation and the sea, a plan for National Action" in 1969 as the main antecedent of the law "Coastal Zone Management Act" of 1972, which already has over 40 years of travel.

Since the late sixties to the present there have been several stages that have marked the evolution of coastal management. Different authors divided into 4 periods the development of ICZM [7-9,2].

In a first step that could be dated to the 60s and 70s of last century, the approach was to manage the predominant sectors. The idea of division of labour to increase efficiency in achieving results is what lies behind the widespread fragmentation of policies and institutional structures. This is a management way that arises from a purely economic and anthropocentric perspective of the use of resources and natural areas [7]. It is the heyday of "technocratic" and "developmental" planning, in which action in coastal areas is often limited to sporadic react to critical situations [2].

Important advances were given in the eighties. The environmental protection has emerged as reaction to environmental degradation. Consequently, the first performances of coastal protection were carried out but they were related to solving very specific problems, such as erosion of a coastline or pollution outfalls episodes, [3]. However, the most important advance came from the hand of complexity theory versus sectorial approach. Indeed, this theoretical development has enabled the interpretation of the coastline problems from a more global and encompassing vision [9]. The United Nations Conference held in Rio de Janeiro in 1992 reinforces this change of doctrine through the guidelines of Agenda 21 [10].

In the nineties there was a conceptual change characterized by the focus on sustainability and public participation; greater emphasis on the restoration and recovery of the environment after a disturbance; initiatives oriented towards the long term guided by the precautionary principle and the needs of present and future generations. Finally, in the nineties a change of great importance was given: there was a rapprochement between social-physical-natural sciences and decision-making process [3,1].

In the first decade of XXI century ecosystem-based approach was consolidated, and it has been reflected in expanding the boundaries of the geographic scope of ICZM [3]. The new approach conceives the human being as part of ecosystems, forming central part of them. The relationship of ecosystem services to human welfare is emphasized and tools for coordination and cooperation, participation, transparency, public interest, etc, are sought in order to achieve the governance of these spaces. At the same time, the increasing interest in developing new uses and activities at sea brought an important concern about its environmental consequences. Problems between uses and activities started to arise, but also claims made by several countries were trying to expand national boundaries to huge marine areas beyond national jurisdictions. At the end of the first decade of XXI century United Nations reacts to this situation by developing a “Marine Spatial Planning” guide [11] trying to organize and orient all the different planning initiatives that many countries were developing at their national seas.

At this time many definitions have been proposed for ICZM by different authors and institutions [12-23,2,1]. Sometimes ICZM has been defined under different terms, although all agree in several principles. First, it has been almost unanimously interpreted as a process and, on the other hand, the integration has been directed towards finding a balance between environmental conservation and human welfare through appropriate public policies [5].

Furthermore, many of the proposed definitions include the marine environment, reaching some to incorporate it explicitly in the term. Others incorporate the marine areas implicitly by referring to littoral or coastal areas, which by definition also incorporate at least the nearest coastal marine area, precisely those most productive except in the case of upwelling zones. In fact, it is possible to observe the presence of the marine environment in most of the above definitions. Even it is clear a tendency to incorporate it with the evolution of the discipline. There is therefore a growing concern about the management of the marine environment from the integrated management of coastal areas. In this sense, "Marine Spatial Planning" should be seen as a tool for ICZM in the nearest shore waters [24-26].

Among the several ICZM approaches appear interpretations that identify it with the management of natural resources, the search for models of development, conflict resolution, etc. At present it seems that the approximation of Ecosystem Based Management (EBM) is consolidated. According to [23] in this conception, the human being is an integral and central part of the ecosystem. Indeed when ecosystems are assessed, they are not only...
evaluated in terms of environmental processes, but also are interpreted the ecosystem services they provide to human wealth. In any case the EBM "intends to organize human uses of ecosystems to achieve a balance between the benefits of natural resources made available by the elements and processes of an ecosystem, while this capacity is maintained to provide those at a sustainable level."

Significantly, when the UNEP [23] contrasts coastal-marine Ecosystem-Based Management (EBM) with ICZM, acknowledges, with some caveats, proximity and similarity between two concepts.

Besides international references, there are countries that have adopted a singular vision of ICZM concept. Indeed, in Germany ICZM is seen as a process in planning and decision making but also as a philosophy [27]. The latter is a more open approach; made from a number of basic principles that serve as benchmarks. In this case these principles provide a considerable degree of flexibility, for example, address a national strategy which, in turn, would take into account regional specific conditions and new conditions that suddenly can appear. By agreeing to these basic principles, that would be the first task in the process of ICZM, it is also possible to find common agreement issues between different institutions, interest groups, administrative levels and sectors working on the coast [28].

Another country that defines ICZM in its institutional policy documents is Canada [29]. It does this through three complementary interpretations of ICZM:

- As a comprehensive approach to plan and manage human activities so that some do not conflict with each other, in a way that all factors are being considered for conservation and sustainable use.
- As a collaborative approach which cannot be forced by anyone.
- As a process of flexible and transparent planning that respects existing divisions of constitutional and departmental authority, and does not override existing treaties of the native population.

Any ICZM initiative implies to recognize and accept a number of basic premises which are manifested in a number of principles. Several authors and institutions have developed proposals in this regard [30-32]. All of them highlight the need for holistic and participatory approach, and the need for coordination and adaptive management to changes that continually arise in coastal areas.

In any case, what is clear is that any ICZM initiative must emphasize principles regarding voluntariness, flexibility, coordination between institutions and territorial levels of management, cooperation between the public sector and non-governmental, democratic legitimacy involving public participation, etc. Therefore, if the idea is to achieve an integrated coastal zone management, further efforts should be directed to the field of public policy. And this because the problems of achieving an ICZM are, mostly of the times, not in the scientific-technic realm, neither in the lack of information for managing, on the contrary, they are in the lack of will, leadership, coordination, public participation and so on. In conclusion, one of the biggest goals is making the ICZM becomes a public policy within a governance framework.

References


