

**BIBLIOGRAPHIE
SUR LES DIMENSIONS
HUMAINES ET
ENVIRONNEMENTALES
DE L'AQUACULTURE**

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INTRODUCTION

L'aquaculture est une activité très ancienne, particulièrement dans certaines régions du monde comme la Chine où, traditionnellement, sont associés la riziculture, l'élevage des carpes et l'élevage des canards. Grâce aux progrès biologiques et technologiques de ce dernier quart de siècle, l'aquaculture a considérablement été diffusée et développée pour devenir "une industrie nouvelle" selon les termes du dernier rapport de l'OCDE (1989).

Avant de présenter la bibliographie sur les dimensions humaines et environnementales de l'aquaculture, il semble nécessaire de justifier la réalisation de ce document, d'en expliquer les tenants et les aboutissants, la méthode de collecte des informations et les limites.

1. INTERET D'UN INVENTAIRE BIBLIOGRAPHIQUE SUR L'AQUACULTURE

De nombreux travaux largement diffusés ont déjà porté sur les aspects techniques et biologiques de l'aquaculture. En revanche, à notre connaissance, les dimensions humaines et environnementales de l'aquaculture ont été moins analysées en tant que telles et n'ont pas donné lieu à un travail de synthèse. Pour combler cette lacune, il a semblé pertinent dans un premier temps de rassembler la documentation existante sur un tel sujet, d'en faire une bibliographie pour, dans un deuxième temps, en faire une analyse critique et synthétique permettant d'énoncer des hypothèses et, enfin, dans un troisième temps vérifier ces hypothèses in situ.

Par ailleurs, cette bibliographie correspond à des interrogations formulées par des professionnels lors de la conférence de Bangkok en janvier 1990 : *International Conference on Global Fisheries Trends and the Future of Fishworkers*, ICSF/KASETSART UNIVERSITY, Bangkok. Les pêcheurs artisans des pays en voie de développement ont alors clairement exprimé leurs inquiétudes face à certains aspects du développement de l'aquaculture dans leur région.

Dans cette optique, nous avons décidé de rendre accessible la première étape de ce travail en en assumant toutes les limites et imperfections.

2. OBJECTIFS

Ce travail a pour objectifs ;

- de faire une première recension des travaux portant sur l'impact environnemental, économique, juridique et social de l'aquaculture;
- de relever les lacunes en fonction des régions et des thèmes couverts mais aussi des approches et des champs disciplinaires;
- de fournir un outil de travail et de référence aux professionnels, chercheurs et universitaires.

3. METHODE DE COLLECTE ET DE TRAITEMENT DES DONNEES

L'outil informatique a été utilisé pour la collecte comme pour le traitement des données. Il nous semble bon d'en présenter les différentes étapes pour en rendre plus facile la compréhension et en saisir les limites.

31. Collecte des données

A partir du catalogue DIALOG, différentes banques de données ont été identifiées comme susceptibles de fournir des références sur notre sujet. Voici la liste des banques avec entre () la période couverte:

- BIOSIS (69-90)
- AQUACULTURE (70-84)
- AGRICOLA (70-78)
- AGRIS INTERNATIONAL (74-89)
- AQUATIC SCIENCE ABSTRACT (78-90)
- CAB ABSTRACT (72-83, 84-90)
- ENVIROLINE (70-90)
- ENVIRONMENTAL BIBLIOGRAPHY (74-89)
- GEOARCHIVE (74-89)
- GEOBASE (80-90)
- LIFE SCIENCE COLLECTION (78-90)
- SOCIAL SCISEARCH (72-90)
- ZOOLOGICAL RECORD (78-90)
- WATER RESOURCES ABSTRACTS (68-90)
- WATERNET (71-89)
- NTIS (64-90)
- PASCAL (84-89)

Des mots clefs ont ensuite été sélectionnés pour permettre d'interroger les banques de données. Si d'évidence, "aquaculture" a été retenu comme le mot clef "d'entrée" -encore que l'on aurait pu "entrer" dans la banque de données non pas selon un secteur d'activité mais selon l'écosystème ou le milieu géographique tel mangrove, zone côtière humide etc...- , en revanche il a été plus délicat de choisir les autres mots clés à combiner. La demande a finalement été ainsi formulée :

aquaculture and (socio? or cultural? or econom? or ecolog?)

Cette demande a été restreinte spatialement aux zones côtières dans le cas des banques dont le nombre de références atteignait ou dépassait le millier et a été ainsi formulée:

aquaculture and coast and (socio? or cultural? or econom? or ecolog?)

En revanche, la formulation a été élargie dans le cas de certaines banques (comme GEOBASE, SOCIAL SCISEARCH) couvrant un domaine plus spécialisé et dont le nombre de référence sur notre sujet était étonnamment peu élevé.

Au vu du nombre de références répondant à notre demande dans chacune des banques (cf liste en annexe), il a été décidé dans une première étape d'imprimer les références complètes des 88 titres donnés par AGRIS, qui semblaient le mieux répondre à notre attente. Par souci d'économie, seuls les titres (sans les sources) des autres banques de données ont été imprimés, de sorte que, dans un deuxième temps, il a été possible d'éviter les recoupements/duplications entre banques et d'imprimer les références complètes des titres qui semblaient les plus pertinents.

Au total, 421 références ont été sélectionnées.

A tous les niveaux de la collecte des données, il faut souligner le caractère inévitablement subjectif, sinon arbitraire de certains tris effectués.

32. Traitement des données

A partir de cette liste de références, il a été possible de constituer notre propre banque de données. Chaque référence a été saisie sur micro ordinateur Macintosh au moyen du logiciel Filemaker d'après le modèle suivant.

Auteur:	Date:
Titre:	Page:
Source:	
Région:	
Mots clefs:	
Messages:	

Il a semblé plus prudent de présenter la liste bibliographique par ordre alphabétique des auteurs, et ce pour plusieurs raisons:

- le contenu des références est suggéré à travers le titre, la source et l'auteur. Faute d'informations plus précises -susceptibles d'être fournies notamment par les mots-clés ou le résumé-, il paraît audacieux à ce stade de notre travail de faire un tri plus sophistiqué;
- les références sans auteur -que ce dernier soit anonyme, collectif ou inconnu-, sont classées d'après le premier mot du titre (ex: l'ouvrage dont le titre est "L'aquaculture en Asie" sera classé à la lettre A)
- néanmoins, pour donner la mesure des thèmes et régions couverts, deux index ont été effectués: un index géographique et un index thématique d'après les mots contenus dans le titre et/ou la source.

Dans l'index géographique, 5 régions -celles les plus couramment retenues par les organismes internationaux tels la FAO- ont été distinguées: Amérique du Nord, Amérique du Sud, Afrique, Europe-Proche-Orient, Asie-Pacifique.

Dans l'index thématique, sept thèmes ont été définis : environnement, écologie, économie (y compris les problèmes de "management" au sens de gestion), socio-économie, société/culture/anthropologie, développement, aspects légaux.

Pour chacun de ces index et sous-sections, les ouvrages sont référés d'après le nom de l'auteur
 et dans le cas de plusieurs auteurs d'après le nom du premier signataire
 et dans le cas de plusieurs ouvrages du même auteur d'après la date
 et dans le cas d'un ouvrage collectif ou anonyme, par le premier mot du titre significatif

Cette double présentation par ordre alphabétique des auteurs et par index référant aux auteurs a pour avantage de constituer une base bibliographique dynamique et ouverte à toutes les modifications ultérieures (remise à jour, complément, rectifications)

Thèmes	Ecologie	Environ.	Econ.	Socécon	Droit	Dévelop.	Général
Région							
Afrique	4	1	4	0	0	24	6
Amérique Nord	3	2	7	1	4	13	9
Amérique Sud	2	1	1	2	0	8	10
Asie	10	10	21	1	3	57	30
Europe	4	1	4	4	4	18	12
Général/Autres	18	12	35	12	7	44	57
Total	41	27	72	20	18	164	124

4. LIMITES

Il faut souligner les limites et les lacunes d'une telle bibliographie, qui, rappelons-le, ne constitue que la phase initiale du programme de recherche. Cette bibliographie n'est en rien exhaustive, pas plus sur l'aquaculture que sur ses dimensions plus proprement environnementales et humaines.

Le mode de collecte constitue un premier biais dans la mesure où la liste de références présentée dépend de la "couverture" et de la richesse des banques de données utilisées. On peut notamment s'interroger sur la bonne représentativité des sources en français. Il est évident que ce travail doit être complété par un dépouillement systématique des références déjà en notre possession et à travers les auteurs et les institutions les plus concernés par nos préoccupations.

Les critères de sélection sont éminemment subjectifs au niveau des mots clés d'entrée dans les banques de données comme au niveau du traitement de ces mêmes données (sélection des titres à retenir ou à écarter, classement par index). La consultation des références permettra très

certainement d'affiner, voire de corriger le classement par index géographique et thématique et de l'enrichir.

5. SUITE

Comme il a été souligné cette bibliographie est une première étape, une ébauche et ce travail ne trouvera son intérêt que s'il est complété par d'autres références, constamment remis à jour.

Tout lecteur est ainsi remercié d'avance d'utiliser la page détachable ci-jointe pour y indiquer références, remarques et suggestions

ANNEXE : Nombre de références sur les dimensions humaines et environnementales de l'aquaculture par banque de données

- BIOSIS (204)
- AQUACULTURE (438)
- AGRICOLA (2244 dont 116 pour zone côtière)
- AGRIS INTERNATIONAL (777 dont 88 pour zone côtière)
- AQUATIC SCIENCE ABSTRACT (2048 dont 352 pour zone côtière)
- CAB ABSTRACT (331 dont 37 pour zone côtière)
- ENVIROLINE (231 dont 31 pour zone côtière)
- ENVIRONMENTAL BIBLIOGRAPHY (17)
- GEOARCHIVE (0 mais 23 sur aquaculture and coast)
- GEOBASE (39)
- LIFE SCIENCE COLLECTION (175 dont 23 pour zone côtière)
- SOCIAL SCISEARCH (14)
- ZOOLOGICAL RECORD (217)
- WATER RESOURCES ABSTRACTS (166 dont 37 pour zone côtière)
- WATERNET (12)
- NTIS (2662 dont 621 pour zone côtière)
- PASCAL (48)

INDEX GEOGRAPHIQUE

Afrique

ANONYME (1978d); ANONYME (1986); ABIODUN, A. (1986); ALBARET, J.J. (1985); AMON LOTHIAS, J.B. (1986); AUBRY, N. (1986); AURET, E.W. (1986); BALARIN, J.D. (1984); BINNIE, C.J.A. (1982); CATAUDELLA, S. (1986); CHAUVET, C. (1984a), CHAUVET, C. (1984b); COASTAL (1982); COASTAL (1982); COCHE, A.G., ed. (1982); DENYOH, F.M.K. (1982); DÉVELOPPEMENT (1982); DURAND, J.-R. (1982); ESTABLISHMENT, (1977); EZENWA, B.I.O. (1982); IBRAHIM, K.H. (1976); KAMBONA, J.J. (1984); LESSENT, P. (1977); MENSAH, M.A. (1979); MUSTALLER, M. (1982); NACEUR, L.B. (1986); OLANIYAN, C.I.O. (1981); OTUBUSIN, S.O. (1986); PADLAN, P.G. (s.d.); PROJET (1979); RASOLOFO, A.L. (1982); SCHMIDT, U.V. (1985a); THIA-ENG, C. (1987); VARGA, M.J. (1988); VINCKE, M.M.J. (1982).

Amérique du Nord

ALLIN, V.A. (1984); ANONYME (1984); AQUACULTURE(1973); BALL, J.L. Jr.(1979); BAUER, L.L. (1983); BOWDEN, G. (1981); COWAN, J.H. (1988); DEVOE, M.R. (1985); EVANS, N. (1980); FLEMINGER, A. (1988); FRALICK, J.E. (1979); GLOOSCHENKO, W.A. (c.1980); GRIFFIN, W. L. (1984); HECKER, S. (1988); HESTER, F.J. (1976); HOLDEN, C. (1978); HUNER, J.V., (1979); KAILL, W.M. (1989); KUNDELL, J.E. (1986); LARKIN, P.A. (1982); LEE, V. (1980); LERNER, A. (1977); LONARDI, A.G. (1985); MANZI, J. (1985); MCNEIL, W.J. (1974); NEAL, R.A. (1982); ODUM, W.E. (1981a); ODUM, W.E. (1981b); RIDLER, N.B. (1984); SAXBY, D.J. (1984); SHAW, W.N. (1974);SIDDALL, S.E. (1988); SINDERMANN, C.J. (1975); UCHIDA, R.N. (1970); VAN CHAU, A.N. (1982); WACHSMUTH, L.J. (1978).

Amérique du Sud

AGUILAR RUIZ, F. (1982); ALMEYRA, G. (1986); ANONYME (1978b); AQUACULTURE (1977); BACON, P.R. (1967); BARTONE, C.R. (1985); BRAND, T.E. (1982); CARDENAS, E.B. (1984); DE LUCA REBELLO A. (1982); ESTES, T.S., ed. (1976); FONTAINE, B.V. eds. (198-?); KATZ, A. (1989); KNECHT, R.W. (1984); LAHMANN, E.J. (1987);LONARDI, A.G. (1985); MOCK, C.R. (1982); MOLNAR, J.J. (1985); NEW (1985); RODEZNO, M. (1989); THOMAS, T. (1988); WEBBER, H.H. (1975); WEIDNER, D. (1988); WINTER, J.E. (1984); YANEZ-ARANCIBIA, A. (1977).

Asie-Pacifique

AHMED, A.K.M.M. (1986); ALAGARSWAMI K. (1986); ANANT SARAYA (1982); ANONYME (1988); ANSARI, Z.A. (1978); ARPORNA SRIBHIBHADH (1970); AUSTRALIAN (1983); AZAM;M.Z. (1982); BAILLY, D. (1986); BANDYOPADHYAY, A.K. (1987); BASHIRULLAH,A.K.M. (1989a); BASHIRULLAH,A.K. (1989b); BENKO,Y.K. (1977); BENNETT,E.L. (1987); BIRD,E.C.F. (1982a); BIRD, E.C.F. (1982b); BOPAIAH, B.A. (1982); BUDININGHARTO,S. (1980); CHALERMWAT,K. (1989); CHANG,K.H. (1981); CHEN ,T.P.(1970); CHENNUBHOTLA,V.S.K. (1987); CHOW,K.W. (1984); CHUA,T.E. (1980); CHUA,T.E. (s.d.); CHUA,T.E. (1987); COASTAL (1989); COSTA,H.H. (1988); CRUZ,C. de la (1987); DANNEHAEUSER,N. (1983); DANNHAEUSER,N. (1986); DELMENDO,M.N. (1976); DEVARAJ,M. (1979); DUNCAN ,B. (1980); ENG,C.T. (1989); FUNG,S.C. (1987); FURUKAWA,A. (1970); GEDNEY,R.H. (1982); GHOSH,A. (1986); GHOSH,A. (1987); GOPALAKRISHNAN,P. (1988); HIRASAWA,Y. (1984); HORI,T. (1981); ISKANDAR,Z. (1982); IWASHITA,M. (1982); JAMES,P.S.B.R. (1980); JARA,R.S. (1984); JHINGRAN,V.G. (1970); JI,L.S. (1977); JUNG,J.-T. (1988); KALIMUTHU,S. (1979); KEARNEY,R.E. (1979); KIMURA,T. (1982); KLOKE,C.W. (1975); KNOX,G.A. (1984);KOESOE BIONO (1979); KUTHALINGAM,M.D.K. (1982); LE GAL,J.Y. (1979); LEE,C.S. (1983);LESACA,R.M. (1974); LIBRERO,A.R., ed. (1979); LIN XINGQING (1986); LING,S.-W. (1977); LO,C.P. (1980); LUCAS,N. (1980); MARINE (1987); MARINE (1984); MARINE (1983a); MARINE (1983b); MASUI,Y. (1982); MASUI,Y. (1981); MISRA,P.M. (1986); MITO,S. (1987); MOMMA,H. (1986); NAAMIN,N., (1986); NAIR,K.K.C. (1988); NAMMALWAR,P. (1988a); NAMMALWAR,P. (1988b); NATARAJAN,A.V. (1983); NAYAR,K.N. (1983); OHMURA,T. (1974); PAI,M.V. (1980); PAI,M.V. (1982); PANAYOTOU,T.,ed. (1987); PARULEKAR,A.H. (1980); PARULEKAR,A.H. (1983); PETERSON,S. (1982); PHUNSAK KAEWNUKUN (1983); POWNALL, P. (1979); PRESENT (1970); PROBLEMS (1987); PULLIN,R.S.V. (1980); QUADER,M.O. (1986); QUERELLOU,J. (1977); RAJENDRAN,A.D.I. (1975); REVIEW (1970); REYNTJENS,D. (1989); ROY,R.N. (1987a); ROY,R.N. (1987b); ROY,R.N. (1987c); RUDDLE,K. (1982); RUYABHORN,P. (1988); SAHARACHARIN,S. (1981); SAKIYAMA,T. (1979); SAKIYAMA,T. (s.d.); SAMARAKOON,J.I. (1986); SARAYA,A. (1983); SHAHID,M.A. (1986); SHANG,Y.C. (1973); SHERWOOD, J.E. (1988); SIEN,C.L. (1979); SILAS,E.G. (1980); SILAS,E.G. (1987); SIVALINGAM,P.M. (1976); SIVALINGAM,P.M. (1977); SOEGIARTO,A. (1979); SONGCHAI SAHAVACHARIN (1984); SRIBHIBHADH,A. (1976); STONE,R.D. (1989); SUDARSHAN,R. (1982); SUGAMA,K. (1982); SUGITO,T. (1979); TANAKA,S. (1979); TUGSJNAVISUITTI,S. (1979); UUSITALO,J. (1987); WETCHAGARUN,K. (1982); WETCHAGARUN,K. (1983a); WETCHAGARUN,K.

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Aspects légaux

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