

**KINGDOM OF CAMBODIA**  
**Nation Religion King**



**MINISTRY OF AGRICULTURE, FORESTRY AND FISHERIES**  
**FISHERIES ADMINISTRATION**



**RESEARCH AND INFORMATION**  
**PRODUCED IN THE CAMBODIAN FISHERIES SECTOR**  
**(2015 - 2020)**

**Cambodia Programme for Sustainable and Inclusive Growth in the Fisheries Sector:**  
**Capture Component (CAPFISH-Capture)**

**February 2021**

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**RESEARCH AND INFORMATION PRODUCED  
IN THE CAMBODIAN FISHERIES SECTOR  
(2015 - 2020)**

**Technical report**

prepared for the Food and Agriculture Organization of the United Nations  
and the Fisheries Administration (Ministry of Agriculture, Forestry and Fisheries)  
of the Royal Government of Cambodia

by

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## LIST OF ABBREVIATIONS

ADB	Asian Development Bank
CAPFISH	Cambodia Programme for Sustainable and Inclusive Growth in the Fisheries Sector
CAPFISH-Capture	Cambodia Programme for Sustainable and Inclusive Growth in the Fisheries Sector: Capture Component
CARDI	Cambodian Agricultural Research & Development Institute
CCC	Cooperation Committee for Cambodia
CFi	Community Fisheries
CJNH	The Cambodian Journal of Natural History
CPUE	Catch per unit effort
FACT	Fisheries Action Coalition Team
FADM	Fish Abundance and Diversity Monitoring
FAO	Food and Agriculture Organization of the United Nations
FFI	Fauna and Flora International
FIA	Fisheries Administration
IFReDI	Inland Fisheries Research and Development Institute
IRD	Institut de Recherche pour le Developement
IUCN	International Union for Conservation of Nature
IWMI	International Water Management Institute
LI	Learning Institute
MaFReDI	Marine Fisheries Research and Development Institute
MCC	Marine Conservation Cambodia
MRC	Mekong River Commission
NGO-F	NGO Forum on Cambodia
RUA	Royal University of Agriculture
RUPP	Royal University of Phnom Penh
SciCap	Scientific Capacity Development Initiative Cambodia
SEAFDEC	Southeast Asian Fisheries Development Center
TSA	Tonle Sap Authority
UBB	University of Battambang
UNIDO	United Nations Industrial Development Organization
USAID	U.S. Agency for International Development
WCS	Wildlife Conservation Society
WFP	World Food Program
WoM	Wonders of the Mekong project
WWF	World Wildlife Fund

## EXECUTIVE SUMMARY

The FAO Complementary Support to the CAPFISH-Capture project, in its component focusing on “Improved knowledge for fisheries management”, includes a support to priority research activities. This support requires improved knowledge for fisheries management and institutional capacity enhancement, which prompted a review of existing information and information gaps in the sector.

The present analysis reviews the status, actors and directions of fisheries research in Cambodia between 2015 and 2020. It identifies key players and what their production consists of. It also reviews how accessible this information is and details remaining knowledge gaps. The analysis is based i) on a consultation of 54 scientists and managers belonging to 36 institutes, departments, organizations, centers or universities, and ii) on a compilation of 482 documents focused on or relevant to fisheries.

Each publication or document identified was coded in relation to i) the affiliation of its author(s), the domain covered (marine or freshwater), the nature/format of the document (peer-reviewed paper, technical report, etc.), its theme or area of focus (22 themes in biology, socio-economics, post-harvest, monitoring, management and policy) and accessibility of the document.

The 482 documents identified consist of 206 technical reports, 135 peer-reviewed articles, 56 articles in regional journals, 31 MSc or PhD theses, 29 guidelines, 11 books or book chapters, 8 publications about monitoring and a few media products. Thus, on average 23 peer-reviewed international publications and 34 technical reports are produced each year on Cambodian fisheries.

Of this information, approximately 60% deal with freshwater fisheries and 40% with marine fisheries. The dominant themes are management and biology of the resource (a quarter of papers each), followed by socioeconomic studies and monitoring.

At least 28 organizations or agencies based in Cambodia contributed to producing this information, together with more than 15 other foreign organizations or universities. The top-ten producers are the Fisheries Administration, SEAFDEC, the Mekong River Commission, Fauna and Flora International (FFI), WorldFish, the Royal University of Phnom Penh, Toulouse University (France), the FAO, Marine Conservation Cambodia (MCC), the University of Battambang (UBB) and the SciCap and Wonders of the Mekong partnerships.

The Fisheries Administration is the first source of scientific information on fisheries in the country, with 136 documents authored, co-authored or published between 2015 and 2020. This production comprises 49 peer-reviewed articles in more than 30 high-ranking journals, including prestigious ones such as Science. The main source of fisheries publications is the Inland Fisheries Research and Development Institute (IFReDI), through collaborations with multiple universities and the mentoring of numerous PhD candidates and young scientists. However, few to none of these publications are available on FiA web sites.

The distribution of the 482 documents among 22 themes characterizing the fisheries sector shows the dominance of publications in *management for conservation* (78 papers, including 47 technical reports), which reflects the intensive work recently of Fauna and Flora International, Marine Conservation Cambodia and the FiA Department of Fisheries Conservation in view of establishing marine protected areas.

In **biology**, scientists tend to focus on *fish biology and behaviour*, *fish community ecology* and *impact of infrastructures*, but *stock assessment* (how much fish in water, how much can be sustainably exploited) and *fishing methods* (nature, use, evolution and impact of gears) are two themes that have received limited attention.

In **socioeconomics**, *livelihoods studies* are dominant, followed by *nutrition and food security*. However, *studies of Communities Fisheries* (how CFi function and can be organized) and on *gender, children or minorities* are largely under-represented, which constitutes a major information gap

The whole **post-harvest** sub-sector is also characterized by a strong information deficit (only 4% of the fisheries knowledge generated since 2015).

In **monitoring**, the focus is on *catch monitoring* (how much fish is caught) and *habitat monitoring* but there is a lack of long-term monitoring and publications on *livelihoods*, *fishing effort* and *fish prices*.

As opposed to the previous one, the **management** theme is well covered.

Few specific papers are produced in **policy**, but this theme is actually transversal and present in multiple other papers.

Eighty per cent of the “publicly available” information reviewed above is available online - although not necessarily freely downloadable. All 135 peer-reviewed articles are available online, at a cost, but are sometimes hard to identify. Most technical reports accessible are uploaded by international organizations, regional organizations and NGOs. The Fisheries Administration, on the contrary, is characterized by an extremely limited web presence. More generally, there is a limited culture of information sharing at FiA and scientific publications -at least in inland fisheries- are not yet perceived as an active contribution to decision-making.

In conclusion, research in the fisheries sector is lively and productive. The information produced, often of high quality, is not yet fully accessible nor used for decision-making, but the potential is major and offers bright perspectives.

## 1. INTRODUCTION

In Cambodia fish represents about 70% of Cambodia's intake of animal protein and fisheries make a large contribution to livelihoods (around 30% of Cambodians are involved in work related to fisheries). The country's inland fishery production is one of the largest of any country in the world, but fisheries are faced with growing threats. In response to these threats in a sector of key importance to Cambodia, the European Union funded the Cambodia Programme for Sustainable and Inclusive Growth in the Fisheries Sector: Capture component (CAPFISH Capture Fisheries). The funding level reaches approximately EUR 93 million over five years (2019-2024), through direct budget support to the Fisheries Administration (FiA) and complementary funding via the FAO, UNIDO, and non-governmental organizations / civil society organizations.

The FAO Complementary Support to CAPFISH aims at strengthening management, conservation and control systems in Cambodia inland and marine fisheries, in a collaborative and decentralization context. This support covers fisheries conservation, management and compliance, support to fishing communities, improved knowledge for fisheries management and institutional capacity enhancement.

In this context, the present analysis is focused on assessing the status, actors and directions of fisheries research in Cambodia. It reflects the initial request of the FAO CapFish-Capture project for *“a broad overview of fisheries research organizations operating in Cambodia (including government departments, universities, regional organizations, development partners, private organizations and civil society organizations) and a description of the focuses of this research”*<sup>1</sup>.

We expanded the scope of the analysis to also identify the actual outputs of this research since 2015, and therefore provide scientists and stakeholders with a full review of the information available, i.e. 482 documents<sup>2</sup>.

In the following sections we present the methodology of the analysis and an overview of the information gathered. That information is not summarized - a major task that remains to be done to distillate the knowledge available into concise and meaningful information for managers and decisions makers - but we detail who produces fisheries-related information in Cambodia, and analyse trends in publication areas of focus. This leads to a conclusion integrating how accessible this information is, how it is shared, knowledge gaps, and perspectives for research.

The present review contributes to the engagement of the CapFish-Capture project in supporting fisheries research in Cambodia, and constitutes a building block towards an increased capacity for fisheries research coordination in the country.

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<sup>1</sup> “Research” being defined as “studies (to be) published in reports or publications to inform decision making”. “Fisheries research” covers biological studies, stock and habitat assessment studies, fisheries-related socio-economic studies (including gender and fish consumption), fisheries governance studies, and infrastructure development related studies. “Fisheries research” does not cover studies about ecosystems, rivers, hydrology, water quality, nutrition or climate change, nor research in the aquaculture sector. It does not cover either the research being planned in the course of the CapFish project.

<sup>2</sup> how these research institutions identify and prioritize research will be detailed in a next report



## 2. METHODOLOGY

The present review is based on a literature search (combining internet queries and local searches for grey literature) and extensive consultation of stakeholders (see Annex 1). Stakeholder consultations started with the members of the Technical Working Group on Fisheries, plus specific departments and research centers of the Fisheries Administration. They were complemented with additional organizations known for their role in the sector, with additional players identified or mentioned during interviews, and with organizations whose members are co-authors of publications about the sector.

### Information producers and affiliation

The review, initially focused on the production of Cambodian scientists, expanded to integrate international organizations based in Cambodia and working in the fisheries sector, as well as local universities and their students' theses (MSc and PhD theses). Publications of international organizations or universities in the field were also integrated, but the number of entities (superior to 30) and their contribution to the sector sometimes limited to a single paper excluded a comprehensive referencing of each and every international player. As a consequence, affiliations were recorded for 28 organizations only.

### Scope of the review

"Research" is defined here as "studies published in reports or publications to inform decision making". "Fisheries research" covers biological studies, stock and habitat assessment studies, fisheries-related socio-economic studies (including gender and fish consumption), fisheries governance studies, and infrastructure development related studies. "Fisheries research" does *not* cover studies about ecosystems, rivers, hydrology, water quality or climate change, nor research in the aquaculture sector. In the course of the review the notion of "research" was broadened to "generation of new information", since all actors generating fisheries-related information useful to management are not necessarily academes or appointed researchers, and may not describe themselves as scientists. Given the importance of field data for the management of the resource, "monitoring" was also integrated to the review, although this activity is usually not considered as research. Our review covers the period between 2015 and 2020; planned research and research whose results have not been published yet was not integrated.

### Information publicly available - or not

Our review focuses on "publicly available information" but also integrates grey literature and unpublished documents of relevance, in order to flag them when they can be useful to the management of the sector - even though they may not be publicly available.

### Coding of publications

All documents gathered were coded from four main perspectives:

- affiliation of the authors (see above)
- domain covered (marine, freshwater or other)
- nature/format of the document
- theme of the document (22 themes possible under 6 broad categories: biology, socio-economics, post-harvest, monitoring, management and policy).

The nature or format of documents includes peer-reviewed articles; books or book chapters; regional articles; technical reports; guidelines; university theses; monitoring data and media products.

Peer-reviewed articles are typically published in international journals and are available online (but often not freely, except for scientists registered in ResearchGate or Academia<sup>3</sup>).

A specific category was created for books or book chapters as they may not be peer-reviewed and are often harder to find or imply buying the whole book.

Regional journals, in which papers are not peer-reviewed, are an important medium for fisheries information in the region. Their style is accessible to a large audience and they include papers on technical or institutional issues, on management, and also news. These journals, accessible online for free, are *Catch and Culture* published by the Mekong River Commission<sup>4</sup> and *Fish for the people* published by SEAFDEC<sup>5</sup>. In Cambodia, the FiA also publishes the *Fisheries Administration Magazine* in Khmer (not reviewed here), and articles are also published in the *Mekong Fish Network* newsletter and on the *Wonders of the Mekong* site<sup>6</sup>.

Guidelines are technical reports but were distinguished for their particular relevance to the sector.

Monitoring data were identified here when published in the form of documents. Yet, a number of other monitoring data are available in dedicated websites, for instance at the FAO<sup>7</sup>, the IUCN<sup>8</sup>, the Mekong River Commission<sup>9</sup>, the National Institute of Statistics<sup>10</sup> or at Open Development Cambodia<sup>11</sup>. Category “media products” was used in a few instances when the content of documents was particularly informative (e.g. information sheets for journalists), but we have not tried to cover all newspaper articles or TV programs on the topic.

The 22 themes used for subject coding are:

- *biology*: species biology or behavior (e.g. studies of a given species, fish migrations); community ecology (study of multiple interacting species); stock assessment (how much fish is in the water, maximum sustainable yield); infrastructure impact (consequences of dams, irrigation schemes or roads on fishes), and fishing methods and their performance;
- *socio-economics*: livelihoods (social or economic studies of fish-dependent communities); Community Fisheries studies (how they are or should be organized, how they operate, etc.); gender, children, and minorities studies; nutrition and food security and value chain;
- *post-harvest*: fish processing and fish product quality;
- *field-based monitoring*: monitoring in the long term -and subsequent trend analyses- of catches, effort, habitat, livelihoods, and fish prices;

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<sup>3</sup> [www.researchgate.net](http://www.researchgate.net) ; [www.academia.edu](http://www.academia.edu)

<sup>4</sup> [http://www.mrcmekong.org/news-and-events/newsletters/catch\\_and\\_culture](http://www.mrcmekong.org/news-and-events/newsletters/catch_and_culture)

<sup>5</sup> <http://repository.seafdec.org/handle/20.500.12066/53>

<sup>6</sup> [www.mekongfishnetwork.org](http://www.mekongfishnetwork.org); <http://mekongwonders.org>

<sup>7</sup> <http://www.fao.org/fishery/statistics/global-capture-production/query/en>;  
<http://www.fao.org/fishery/statistics/global-aquaculture-production/query/en>;  
<http://www.fao.org/fishery/statistics/global-commodities-production/query/en>

<sup>8</sup> <https://www.iucnredlist.org/search>

<sup>9</sup> <https://portal.mrcmekong.org/home>

<sup>10</sup> <http://ghdx.healthdata.org/organizations/national-institute-statistics-cambodia>

<sup>11</sup> <https://opendevelopmentcambodia.net/>

- *management*: conservation-focused management (e.g. protected areas), resource management by institutions (e.g. surveillance, illegal fishing, regional coordination on shared stocks), and resource management by/with communities (co-management);
- *policy*: analysis of regulations (access rights, fishing seasons, quotas, etc. and their consequences or outcomes) and policy recommendations (e.g. policy briefs).

Two additional categories were included:

- *multiple themes*: when several of the above themes are covered at once (e.g. effect of management on catches and livelihoods, impact of COVID-19 on fisheries);
- *miscellaneous*: when the topic covered does not belong to any of the above categories (e.g. taxonomy, photo guidebooks, fish DNA sampling).

Some studies tangential to fisheries have been integrated when they relate to fish habitat (e.g. impact of hydrology on floodplain area) while others have not been retained (e.g. bacteria and rotifers in the Tonle Sap; infections transmitted by helminth worms, nutrition of garment factory workers, new millipede species) even though they were co-authored by FiA scientists. Some other reports reported to us by name have not been recorded here when they were too elusive.

### 3. OVERVIEW OF THE FISHERIES INFORMATION PRODUCED

Overall, our review harvested 482 publications or reports on fisheries and fisheries-related topics in Cambodia between 2015 and 2020. These years saw an average production of almost 80 documents per year, with no particular trend and a variation between 71 papers in 2015 (minimum) and 101 in 2017 (maximum).

That information consists of 206 technical reports, 135 peer-reviewed articles, 56 articles in regional journals, 31 MSc or PhD theses and 29 guidelines. This is complemented with 11 books or book chapters, eight publications about data monitored, and a few media products.

The production of an average 23 peer-reviewed international publications and 34 technical reports per year on Cambodian fisheries may come as a surprise to many stakeholders in this sector, as very few of these 50 or so annual publications are presented to the Technical Working Group on Fisheries and none are compiled on a dedicated website. The issue of information sharing and dissemination will be discussed in a section below.

Of this information, approximately 60% deal with freshwater fisheries and 40% with marine fisheries (including communities and habitats in both cases). This is a new trend as scientific information on marine fisheries and environment was minimal in the past.



Figure 1: Distribution of 2015-2020 fishery information by publication type

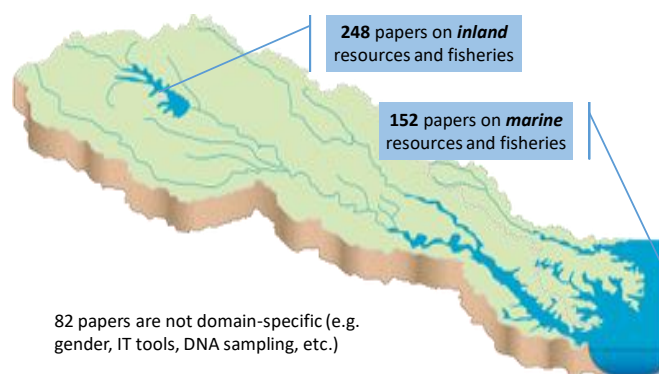


Figure 2: Publications by domain covered

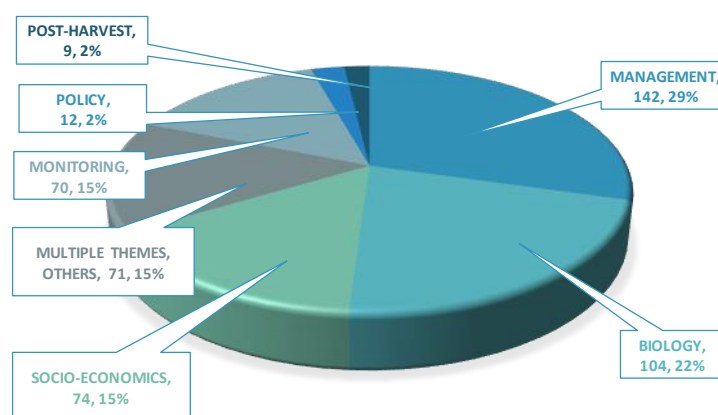
In terms of main categories (knowledge generation, monitoring, management), results show a good distribution of papers between the different categories, i.e. 45% of papers on knowledge generation, 37% on management, and 18% on monitoring.

A finer analysis by group of themes (biology, socio-economics, post-harvest, monitoring, management, policy, multiple and other themes; Table 1 and Figure 3) shows that the dominant categories are management (“what to do”, one quarter of papers) and biology of the resource (another quarter), followed by socioeconomic studies and monitoring (15% in both cases). The post-harvest sub-sector, despite its economic importance, receives limited attention (2% of publications).

The policy group of themes requires some caution: the present classification corresponds to papers analysing the policy framework itself or issuing policy recommendations (a very small 2%), but a large number of “management” publications actually deal with the policy framework (e.g. registration of fishing boats, fishing capacity, plans of action).

Category	Theme	Number of papers
BIOLOGY	Species biology or behavior	104
	Fish community ecology	
	Stock assessment	
	Infrastructure impact studies	
	Fishing methods & performance	
SOCIO-ECONOMICS	Livelihood studies	74
	Community Fisheries studies	
	Gender, children, minorities	
	Nutrition, food security	
	Value chain	
POST-HARVEST	Fish processing	9
	Fish product quality	
MONITORING	Catch monitoring	70
	Effort monitoring	
	Habitat monitoring	
	Livelihood monitoring	
	Fish price monitoring	
MANAGEMENT	Conservation	142
	Resource management by institutions	
	Resource management by/with communities	
POLICY	Regulation analysis	12
	Policy recommendations	
OTHERS	Multiple themes	71
	Miscellaneous	

**Table 1: Distribution of publications by group of themes**



**Figure 3: Distribution of publications by group of theme.** The first number is the number of publications in the group, the second one is the corresponding percentage.

## 4. WHO PRODUCES FISHERIES RESEARCH AND INFORMATION?

### 4.1. Producers, production, collaborations

The documents reviewed are related to the institutions of their main authors. As detailed above, affiliation is limited to institutions repeatedly involved in fisheries, with an office in Cambodia<sup>12</sup>. Yet, when a document focused on fisheries is produced by international scientists only, without a partner in Cambodia, it is coded as “Other scientists”.

The literature review identified 28 main organizations producing fishery-related and fishery-relevant information in Cambodia:

The Asian Development Bank; Conservation International; the European Union; Fisheries Action Coalition Team (FACT); FAO; Fauna and Flora International (FFI); the Fisheries Administration (FiA); FishBio; Institut de Recherche pour le Development (IRD); IUCN; the International Water Management Institute (IWMI); the Learning Institute; Marine Conservation Cambodia (MCC); the Mekong River Commission (MRC); NGO Forum; the Royal University of Agriculture (RUA); the Royal University of Phnom Penh (RUPP); SciCap; SEAFDEC; Toulouse III University; the Tonle Sap Authority (TSA); the University of Battambang (UBB); UNIDO; the Wildlife Conservation Society (WCS); the Wonders of the Mekong partnership (WoM); the World Food Program; WorldFish and WWF.

This list is to be complemented with a number of other authors’ affiliations, in particular in institutions not based in Cambodia or occasionally producing fishery-related information (summarized here as “Other scientists”), in particular:

the Belmont Forum (USA), Boston University (USA); Can Tho University (Vietnam); Copenhagen University (Denmark); the Institute of Technology of Cambodia; the Ministry of Environment (Cambodia); the Ministry of Water Resources and Meteorology (Cambodia); the National University of Singapore; the University of British Columbia (Canada); the University of California Santa Barbara (USA); the University of Connecticut (USA); the University of Guelph (Canada); the University of Reno, Nevada (USA) and the Texas A&M University (USA).

The production of these main actors is detailed in Table 2.

The Fisheries Administration is the largest producer of fisheries information in the country, with 136 documents authored between 2015 and 2020. It is in particular the publisher or co-publisher of 64 documents. It is followed by SEAFDEC (104 capture-fisheries related papers, mainly on marine fisheries), the Mekong River Commission (51 documents), Fauna and Flora International (51 documents too, mainly technical reports on protected areas) and WorldFish (38 publications). Universities are mainly represented by their students, in particular RUPP (36 papers). Toulouse University is associated to many of the papers produced by RUPP, the University of Battambang and IFRDI as they originate from PhD candidates hosted by Toulouse University, with mentoring by Pr Lek Sovan and funding by the Wonders of the Mekong or Erasmus programs.

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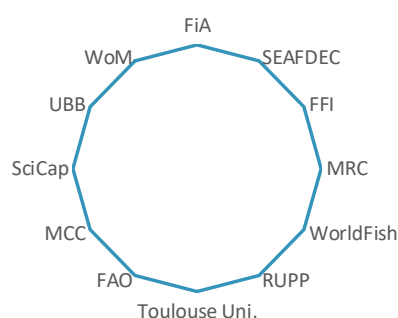
<sup>12</sup> Thus, for some publications marginally related to fisheries (e.g. on floodplain flood levels, global warming, food composition or regional governance), by authors from institutions that seldom produce such publications outside their usual scope of work, a specific affiliation code was not created.

The high number of papers of the top-five producers reflects the production of peer-reviewed publications, but also a larger number of technical reports and regional articles (like FAO and MCC). These organizations are followed by academic entities, in particular the Royal University of Phnom Penh, Toulouse University, SciCap, University of Battambang and the Wonders of the Mekong partnership and their own lecturers and scientists. The production of these academic entities is more limited (between 36 and 11 papers each), but consists almost exclusively of peer-reviewed publications in international journals - plus students' theses.

Institution	FIA	SEAFDEC	MRC	FFI	Other scientists	World-Fish	RUPP	Toulouse Uni.
Publications	136	103	51	51	41	38	36	30
	FAO	MCC	UBB	SciCap	WoM	CI	IRD	
Publications	22	18	16	16	11	9	8	
	WWF	IUCN	IWMI	RUA	FACT	WCS	UNIDO	
Publications	8	5	5	5	4	3	3	
	FishBio	EU	WFP	TSA	LI	NGO-F	ADB	
Publications	3	3	2	1	1	1	1	

**Table 2: Institutions producing fisheries-related information in Cambodia**

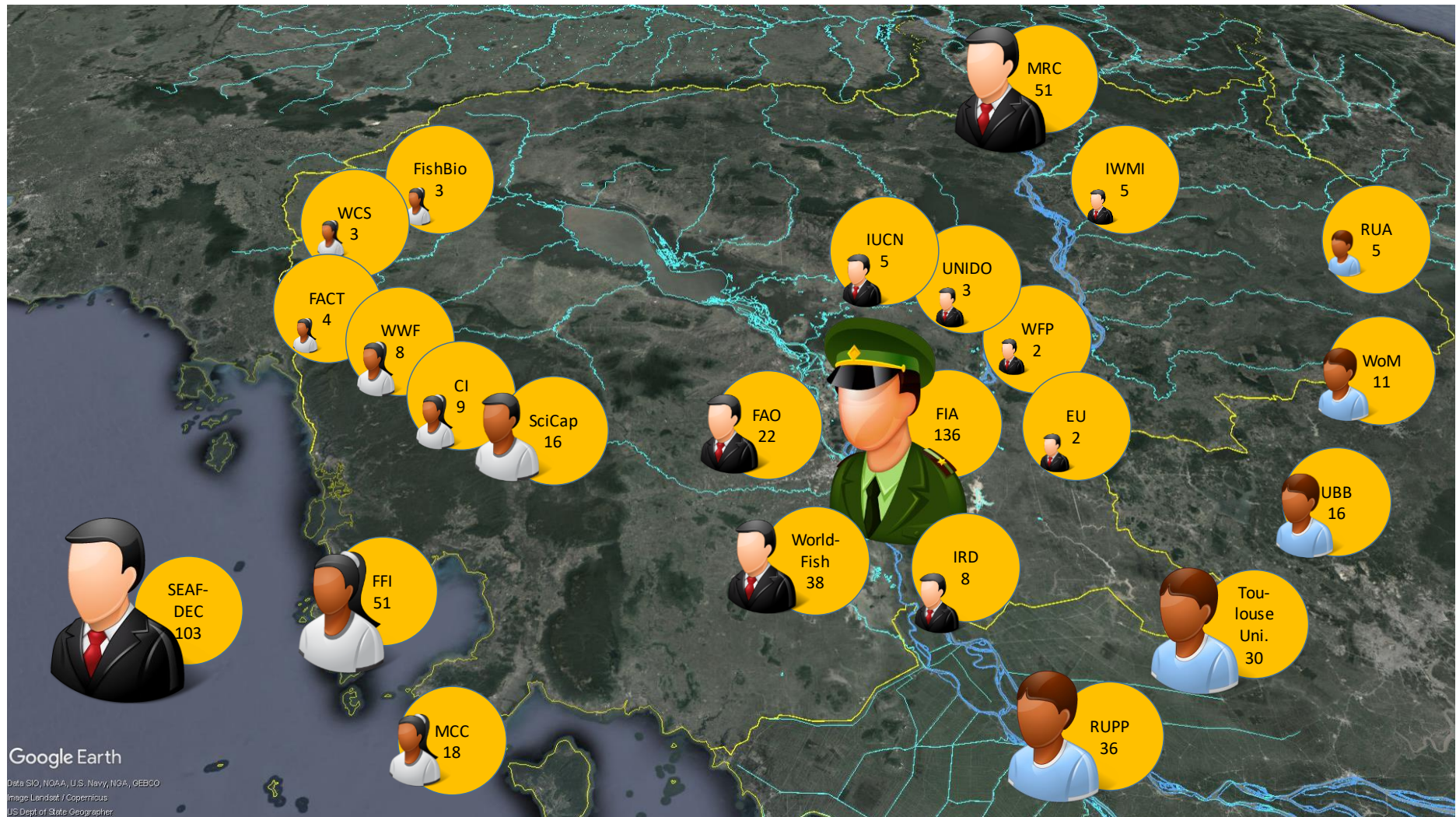
The key group of organization producing information focused of fisheries in Cambodia is illustrated in Figure 4. Conservation International is an additional contributor, but these past years its focus on an integrative Freshwater Health Index limited its contribution to strictly fisheries-focused information. Last, foreign scientists from about 10 universities in the US, Canada and Europe contribute substantially to information generation and peer-reviewed publications (41 since 2015), but often without the involvement of Cambodian scientists or students.



**Figure 4: Key group of organization producing information focused on fisheries in Cambodia**

Among other organizations IRD focuses on fish in human nutrition; RUA on food processing and nutrition (no articles nor MSc theses on fisheries), UNIDO's interest in fisheries post-harvest is recent and the World Food Program is present in this review thanks to its monitoring of food prices including fish prices. IUCN and WCS are active in conservation but fish is not their primary area of focus; FACT and NGO Forum (like OXFAM or ForumCiv) do work a lot on fisheries but are more engaged in capacity development and advocacy than in information generation; donors such as EU, ADB or USAID do fund large-scale fisheries related project, including research, but do not publish in their own name, and the Tonle Sap Authority does not publish the results of its extensive monitoring.

Collaborations between the major players in the sectors, expressed by co-authorship or co-editing of documents produced, are illustrated in Figure 6.



**Figure 5: Overview of fishery information production in Cambodia in the fisheries sector (2015-2020; numbers represent documents produced).**



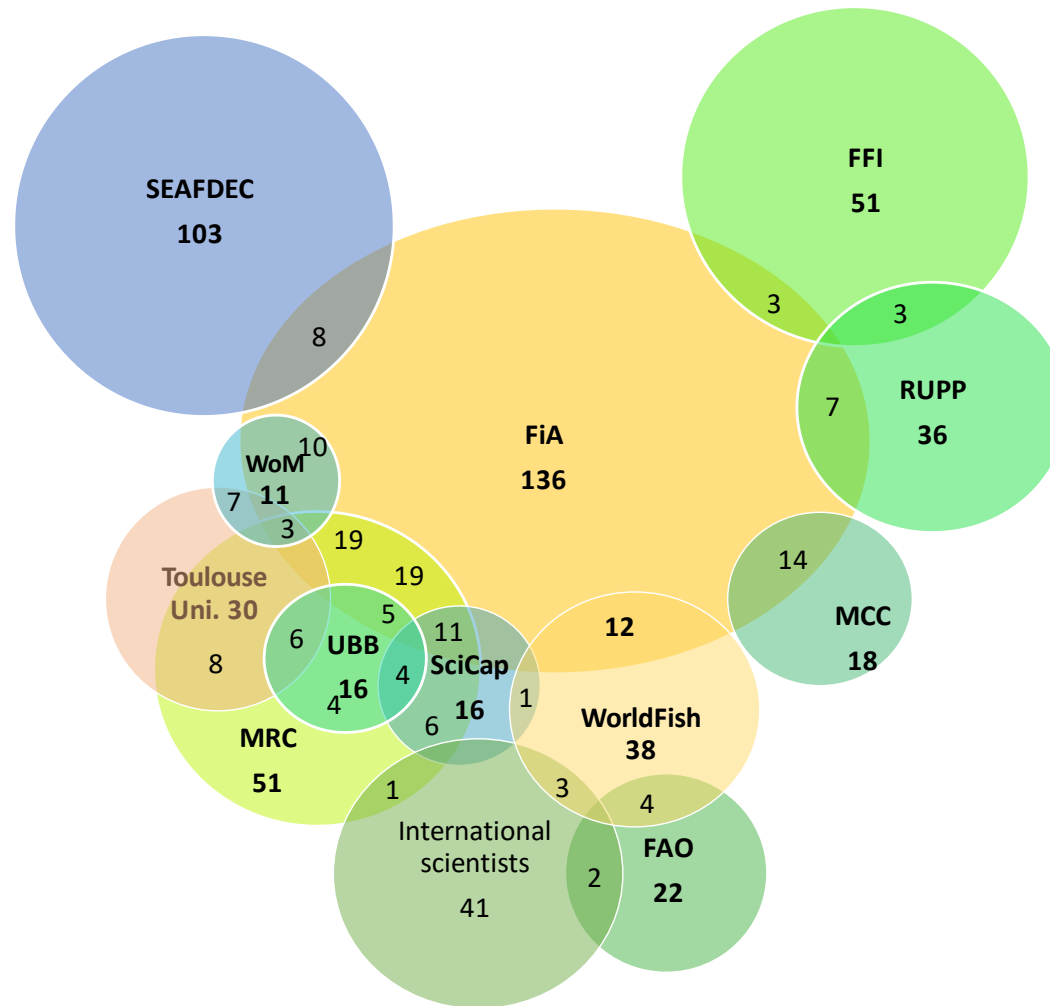


Figure 6: Collaborations between fisheries information producers (co-authorship, co-publishing)

### **The Cambodian Journal of Natural History, a peer-reviewed science journal covering fish and fisheries**

The Cambodian Journal of Natural History ([rupp.edu.kh/cjnh](http://rupp.edu.kh/cjnh)) is a peer-reviewed, open-access, fee-free journal that publishes papers on all aspects of Cambodian natural history, in particular conservation and biodiversity management. The journal is published twice a year by the Centre for Biodiversity Conservation (CBC) at the Royal University of Phnom Penh (RUPP). The primary mission of the CJNH is not to maximize its impact factor but to encourage and coach environmental scientists in Cambodia to develop their writing skills and publish their findings for a wide audience.

This journal is the first peer-reviewed science journal in Cambodia. It was launched in 2008 by Fauna & Flora International (FFI) and the Royal University of Phnom Penh. All papers are peer-reviewed by leading national and international scientists and published in English. Key themes are ecology of species and habitats; new records, species checklists and species range; landscape ecology; conservation policies and management plans, and human use of natural resources. This includes fish and fisheries.

Between 2008 and 2017<sup>13</sup> the CJNH published 66 full papers, 47 short communications and 64 MSc abstracts. Of these, 25% deal with freshwater ecosystems and 11% with marine environment. However, fish represent only 5% of the taxonomic groups studied (the majority being focused on plants and large mammals).

Among other Cambodian journals that publish or did publish articles on fisheries are the [Cambodian Journal of Agriculture](#) published by CARDI between 2002 and 2011 and the cryptic [Cambodian Journal of Agricultural Sciences](#) announced on Facebook.

#### **4.2. Information produced by the Fisheries Administration**

The FIA production includes 49 international peer-reviewed articles, i.e. an average of 8 international publications per year, a high performance by international standards when related to the limited number of research scientists in this line agency.

These publications include articles in prestigious journals, in particular a communication to *Nature*, three papers in *Science*<sup>14</sup> and articles in *PlosOne* or *Ecology*. Overall, these past 6 years have seen FiA scientists publishing in:

*Aquaculture Economics & Management; BMC Public Health; BMJ Open; Cambodian Journal of Natural History; Current Opinion in Environmental Sustainability; Ecological Indicators; Ecological Modelling; Ecology; Ecology of Freshwater Fish; Ecosphere; European Journal of Nutrition & Food Safety; Fish and Fisheries; Fisheries Research; Food and Nutrition Bulletin; Freshwater Biology; Frontiers in Ecology and the Environment; International Journal of Limnology; Journal of Fish Biology; Journal of Heredity; Matern Child Nutr.; Maternal and Child Health Journal; Natural*

<sup>13</sup> Furey N.M., Daltry J. C., Ith Saveng, Souter N. J., Weckauf R. 2018. A decade of the Cambodian Journal of Natural History, the Kingdom's first peer-reviewed science journal. *Cambodian Journal of Natural History* 2018; 1; 1–3

<sup>14</sup> Even though two of them are replies to heated comments following the controversial content of the first paper on dams that would allow "Designing river flows to improve food security futures in the Lower Mekong Basin"

*Resources Forum; Nature; Nutrients; Nutrition Journal; PlosOne; Science; Scientific reports; Sustainability; Water and Zootaxa;*

At FiA, three main poles of scientific information generation can be identified:

- IFReDI, with a team of PhD students led by Dr Ngor Peng Bun in close collaboration with Pr Lek Sovan (Toulouse University) and Dr Zeb Hogan (Wonders of the Mekong project, USAID funding). This team features twenty-seven international publications, with a focus on fish biology and community ecology;
- the Department of Post-Harvest and Quality Control, with numerous international publications in collaboration with IRD and the University of Copenhagen, including eight on fish-related nutrition issues and feed;
- the Department of Fisheries Conservation, with multiple reports and studies focused on conservation and protected areas, in partnership with conservation NGOs (FFI, MMC).

During the past 6 years, the FIA has produced or contributed 80 publications on the freshwater domain, and 35 of the marine one. Of these, respectively 51 and 23 were done in collaboration. MaFReDI, the Marine Fisheries Research and Development Institute, has contributed one publication in 2019.

It is worth noting that FIA has produced or is associated with 14 guidelines on taxonomy and fish identification, functioning of Community Fisheries, provision of development assistance, fish catch monitoring and inland fish refuges.

Of the 136 documents produced by FiA scientists, three-quarters are available online - and one quarter is not. However, most documents available online are papers in international journals and reports uploaded on their websites by partner NGO partners; the content of FIA websites being meagre and obsolete (see section below).

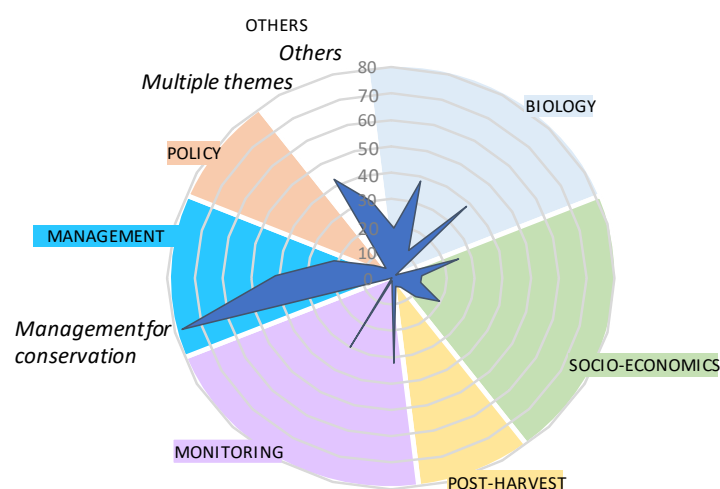
## 5. TRENDS IN THE FISHERIES INFORMATION PRODUCED

The distribution of the 482 documents produced on the fisheries sector between 2015 and 2020 among the 22 themes characterizing the fishery sector is detailed in Table 3.

GROUP OF THEMES	Theme	Number of papers
BIOLOGY	Species biology or behavior	18
	Fish community ecology	37
	Stock assessment	11
	Infrastructure impact studies	37
	Fishing methods & performance	1
SOCIO-ECONOMICS	Livelihood studies	23
	Community Fisheries studies	9
	Gender, children, minorities	10
	Nutrition, food security	21
	Value chain	11
POST-HARVEST	Fish processing	5
	Fish product quality	4
MONITORING	Catch monitoring	33
	Effort monitoring	2
	Habitat monitoring	31
	Livelihood monitoring	1
	Fish price monitoring	3
MANAGEMENT	Conservation	78
	Resource management by institutions	42
	Resource management by/with communities	22
POLICY	Regulation analysis	8
	Policy recommendations	4
OTHERS	Multiple themes	42
	Miscellaneous	29

**Table 3: Distribution the 482 documents reviewed among fisheries themes** (the 3 shades indicate the dominance of a given theme in the overall production of information)

A deepened analysis of this table leads to an identification of trends and gaps.



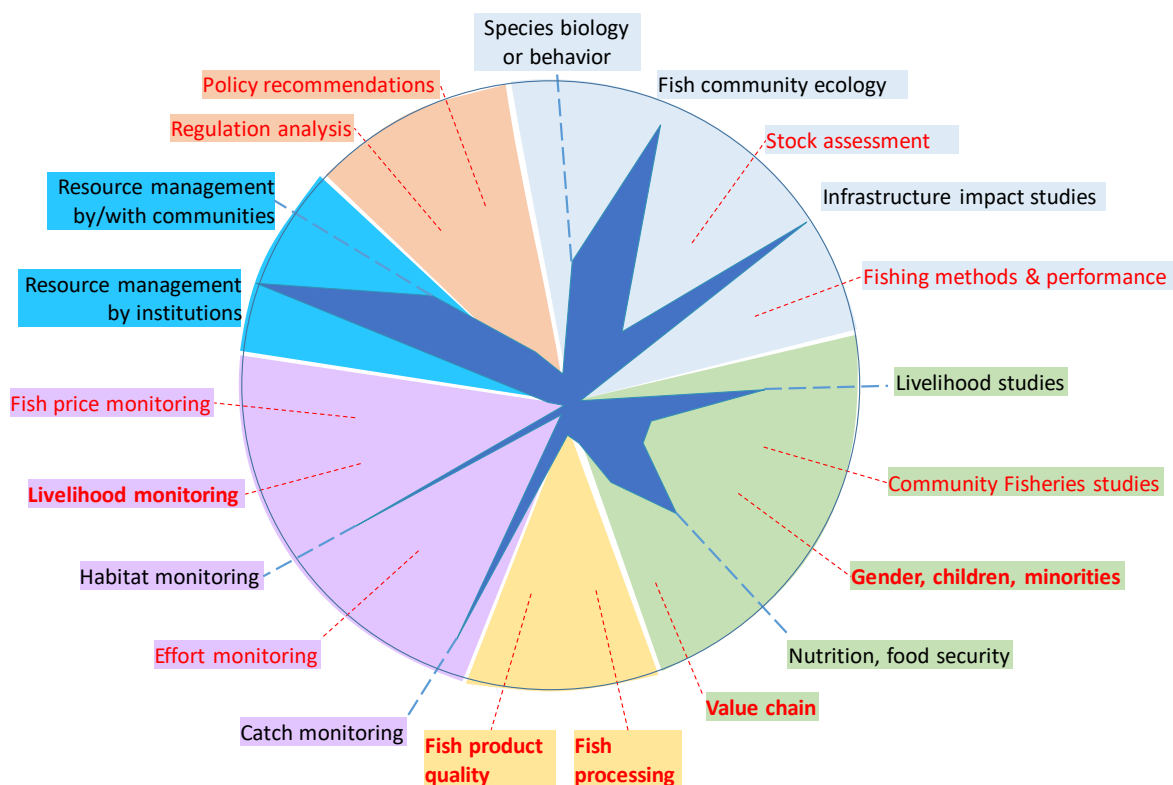
**Figure 7: Distribution of number of publications by group of themes (uppercase) and theme (lowercase)**

Plotting all data (Figure 7) underlines the dominance of publications in *management for conservation* (78 papers, including 47 technical reports) and in the group of themes labelled “Others”.

The large number of documents on *management for conservation* reflects the work of Fauna and Flora International, Marine Conservation Cambodia and the FiA Department of Fisheries Conservation in view of establishing marine protected areas. This identification of new MPAs is underpinned by multiple studies (of coastal biodiversity, coral cover, seagrass beds, iconic species distribution, etc.) in several candidate sites (Koh Rong Archipelago, Koh Sdach Archipelago, Koh Karang, Koh Seh, Koh Angkrong, Koh Mak Prang, etc.).

The other large number of records in category *multiple themes* reflects the multidisciplinary nature of fisheries and fisheries management - even though it complicates classification.

These dominant categories were removed for the following analysis, in view of revealing other trends (Figure 8). The analysis also flags, by contrast, the themes that do not attract scientific attention although they should be part of the knowledge base required for long-term management of the sector.



**Figure 8: Distribution of number of publications by theme** (“Management for conservation” and “Others” removed). Themes in red are characterized by a small number of studies and publications

In **biology**, scientists tend to focus on *fish biology/behaviour*, *fish community ecology* and *impact of infrastructures*. The latter is understandable given the scale and speed of development of dams in the Mekong Basin and their negative impact on fishery resources. However, the reasons for an emphasis on fish ecology are less clear, and may be more driven by academic interest for a fascinating Mekong fauna than by urgent management needs.

The main theme with an information deficit is *stock assessment* (how much fish in water, how much can be sustainably exploited), with 11 papers - only 4 papers in the marine domain being real stock assessment, as freshwater studies in that theme revolve around productivity by habitat and fish larvae abundance. The only recent marine stock assessment survey in Cambodia, undertaken by SEAFDEC in 2018<sup>15</sup>, has produced data that remain to be claimed and analysed<sup>16</sup>.

*Fishing methods and performance* is the other theme that has not received much attention in the past years. Despite the diversity of fishing techniques in rural livelihoods (102 gears according to Deap Loeung et al. 2003<sup>17</sup>), a high interest in fishing techniques among scientists around year 2000, and the evolution of these techniques (large-scale electrofishing, new inland gears not covered by the Fisheries Law, evolving trawl dimensions and mesh size), only one publication dealt with fishing gears in these past 6 years. This certainly qualifies as a knowledge gap and fishing technology deserves being better documented for better regulation.

In **socioeconomics**, *livelihoods studies* are dominant (23 papers), followed by *nutrition and food security* (21 publications), which reflects dependency on fish resources in rural Cambodia. However, *studies on Communities Fisheries* (how CFI function and can be organized) and on *gender, children or minorities* are under-represented (12-13% of papers). This is a major information gap given i) the role of Community Fisheries in the government's approach to fisheries co-management, and ii) the fact that women, children and ethnic minorities represent largely more than 50% of the stakeholders in the sector.

The whole **post-harvest** sub-sector (be it *value chain, fish processing or fish product quality*) is characterized by a strong information deficit, with only 20 publications out of 482 for these three themes (i.e. 4% of the fisheries knowledge generated since 2015).

Value chain, fish processing and fish product quality studies deserve much more attention from scientists given the importance of these themes to value adding and to the national economy, and to underpin current investments in the sub-sector.

In **monitoring**, the number of publications reflects a focus on *catch monitoring* (how much fish is caught) and *habitat monitoring* (47% and 44% of the theme respectively), but also a surprising lack of long-term monitoring and publications on *livelihoods, fishing effort* and *fish prices* (6 papers in total for these three topics together).

Even though several projects undertake livelihoods assessments before -and sometimes after- intervention, there is no long-term monitoring of fisheries-related livelihoods in Cambodia. Elements of information can only be derived from socio-economic surveys and the agriculture census of the

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<sup>15</sup> Sukchai Arnupapboon, Suy Serywath, Pavarot Noranarttragoon, Nguyen Van Minh, Taweekiet Amornpiyakrit, Isara Chanrachkij. 2019. Sustained utilization of SEAFDEC vessels through collaborative research surveys: Marine resources survey of the Gulf of Thailand using the M.V. SEAFDEC 2. *Fish for the People*. 17; 2; 16-25.

<sup>16</sup> This analysis could be flagged as a priority topic for a MSc or PhD study funded by a grant of the CapFish fund for research

<sup>17</sup> Deap Loeung, Degen P., van Zalgne N. 2003. Fishing gears of the Cambodian Mekong. Inland Fisheries Research and Development Institute of Cambodia (IFReDI), Phnom Penh. Cambodia Technical Paper Series. IV;269 pp.

National Institute of Statistics and from the Social Impact Monitoring and Vulnerability Assessment (SIMVA) of the Mekong River Commission.

Fishing effort monitoring, although not publicly reported, is analysed each year in the annual reports of the FiA to the MRC as part of the catch monitoring of the FADM program (Fish Abundance and Diversity Monitoring; 18 fishers in 6 sites). However, there is no monitoring allowing an assessment of the trend in fishing pressure countrywide, nor of large-scale trends in catch per unit effort (CPUE).

Fish price monitoring is not systematically done or published by FiA, and the limited information publicly available is originating from the World Food Program<sup>18</sup>, the National Institute of Statistics<sup>19</sup> and the Ministry of Commerce<sup>20</sup> - a few other publications on fish prices (WorldFish, MRC) originating from one-off surveys.

As opposed to the previous one, the **management** theme is well covered, in particular *management by institutions* (42 papers out of 142) and *management by or with communities* (22 papers) -in addition to the ultra-dominant theme *management for conservation* (78 papers) previously underlined and removed here for the analysis. Overall, the Community Fisheries themes require a detailed analysis of the difference between *publications on community fisheries* (structure, membership, operation modalities, etc.) and publications about management of the resource by or with community fisheries (who does what, actions, outputs, outcomes).

The **policy** group of themes is the subject of a surprisingly low number of specific papers (12 in total), but this theme is actually transversal and present in multiple papers, in particular when dealing with management and/or community fisheries. This number may therefore not be representative of the reality. A number of organizations are also involved in the evolution of regulations and in drafting the new Law on fisheries, which is key to the sector but not necessarily reflected in publications.

As mentioned above, multiple publications (42 or 9%) are transversal and cover **multiple themes** at once, while the remaining “**miscellaneous**” include 29 papers on taxonomy and identification (7 documents), but also on climate change, governance, ecosystem services or on safety in fisheries.

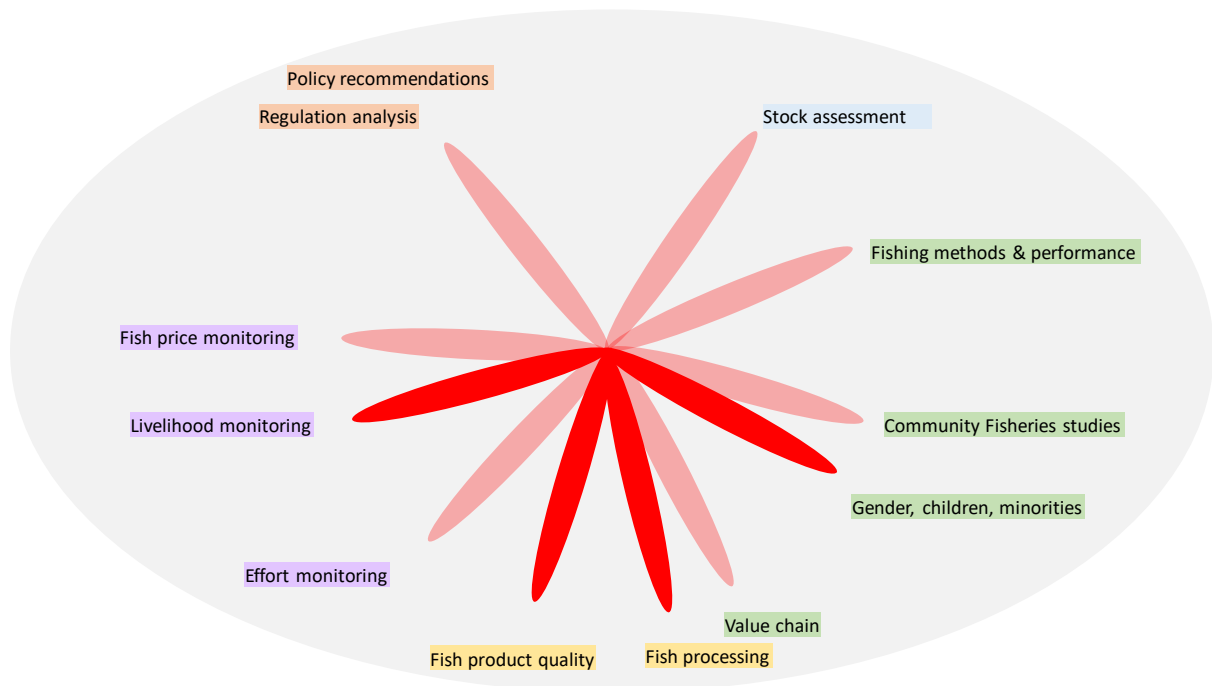
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<sup>18</sup> 8 fish product categories, <https://www.wfp.org/publications/cambodia-food-price-update-june-2020>

<sup>19</sup> Consumer Price Index up to July 2019, <http://www.nis.gov.kh/index.php/km/20-cpi/36-consumer-price-index-reports-5>

<sup>20</sup> 8 fish product categories, <http://www.moc.gov.kh/en-us/trade-information>

The fisheries themes characterized by an information deficit are illustrated in Figure 9. Again, these themes include stock assessment (11 documents or 2.3% of all the fisheries information produced); fishing methods and performance (0.2%), community fisheries studies (1.9%), gender, children and minorities (2.1%), value chain (20 documents for 3 sub-themes together out of 482), effort monitoring (0.4%), livelihood monitoring (0.2%); fish price monitoring (0.6%), and regulation analysis policy recommendations (12 documents out of 482 for these two sub-themes together).



**Figure 9: Themes of the fisheries sector characterized by an information deficit** (bright red: strong deficit; light red: mild deficit or deficit less consequential for the sector)



## 6. ACCESS TO AND SHARING OF THE INFORMATION PRODUCED

Eighty per cent of the “publicly available” information reviewed above is available online - but not necessarily freely downloadable. All 135 peer-reviewed articles are available online. Although scattered among multiple journals, they can be identified one by one by search engines as long as the search is targeted and uses the right keywords. Thus, papers such as “Towards an ecological understanding of a flood-pulse system lake in a tropical ecosystem” or “Interactions between flooding and upland disturbance drives species diversity in large river floodplains” are less likely to be identified because of the lack of any clear reference to fish, Cambodia, Tonle Sap or even the Mekong.

Most technical reports accessible are uploaded on their web sites by international organizations (FAO, WorldFish), regional organizations (MRC, SEAFDEC) and NGOs (in particular MCC). FFI and RUPP have established an online journal regularly reviewing published information on biodiversity and conservation - including fish and fisheries<sup>21</sup> - and four other sites compile and provide information, publications and data on fisheries in Cambodia: MRC Mekonginfo<sup>22</sup>, Wonders of the Mekong<sup>23</sup>, the Mekong Fish Network<sup>24</sup> and Open Development Cambodia<sup>25</sup>.

In this landscape, the Fisheries Administration, despite its contribution to the Wonders of the Mekong web site, is characterized by an extremely limited web presence, with poorly populated, outdated or inaccessible web sites. Web-based communication and dissemination of the often high quality information produced are not priorities at the FiA, and a large number of valuable reports remain inaccessible (e.g. the annual reports on *Dai fishery monitoring in the Tonle Sap River*, on *monitoring drift of fish larvae and fry in the Mekong and Tonle Sap Rivers* and on *fish abundance and diversity monitoring along the Mekong River and its tributaries*).

More generally there is a limited culture of information sharing at FiA, as illustrated by the very difficult identification and gathering of documents produced. Results of main studies are briefly presented at the annual and internal FiA meeting, but very few results or new studies are presented to the stakeholders of the sector at the Technical Working Group on Fisheries or made available on institutional websites. New publications are shared via scientists’ personal Facebook pages and WhatsApp or Telegram groups (often project-specific groups) but accessing these groups requires an invitation and the material shared is not accessible by search engines, implying that the dissemination is actually restricted to small and local circles, with documents poorly visible in the thread of posts and accessible for a very short period of time.

Thus, scientific publications -at least in inland fisheries- are not yet perceived at FiA as an actual contribution to decision-making, and are not seen as products worth being disseminated, explained or reformatted for public use.

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<sup>21</sup> see text box on the Cambodian Journal of Natural History

<sup>22</sup> <http://www.mekonginfo.org>

<sup>23</sup> <http://mekongwonders.org>

<sup>24</sup> <https://www.mekongfishnetwork.org>

<sup>25</sup> <https://opendevelopmentcambodia.net>

## 7. CONCLUSIONS

The review shows that with 482 documents produced on Cambodian fisheries since 2015, scientific research and information production are very active and a wealth of information is available.

With 135 peer-reviewed articles in international journals, including in Science, a lot of information is of very high quality, and at least 28 organizations based in Cambodia contribute to this information production. The Fisheries Administration features 136 publications -including 44 peer-reviewed papers- and is the primary producer of research and scientific information on fisheries in the country.

In the marine domain information is substantial and mainly produced by SEAFDEC (coastal fisheries, institutional coordination) and by conservation NGOs in collaboration with the FIA (conservation, marine protected areas). In that case information often consists of technical reports aimed at answering technical questions (e.g. which area features the highest biodiversity, the most threatened species) and is therefore produced for management and operationalization. In other sub-sectors the information produced often reflects academic interests and in all cases is seldom channelled towards management decision-making.

Our analysis revealed a serious information gap in three major themes: i) gender, children and minorities; ii) the whole post-harvest sector, including value chain; and iii) the monitoring of fish-dependent livelihoods. Themes i) and ii) are being addressed by the CapFish-Capture project but should be considered as a priority when proposing research topics and grants to young students and scientists. Putting in place a long-term project-independent monitoring should be considered for theme iii).

Several other themes remain less documented; these are stock assessment (distinct from catch assessment/monitoring); fishing methods (nature, use, evolution and impact of gears); social studies of Community Fisheries (organization, processes, effectiveness, possible improvements); fishing effort monitoring and fish price monitoring (is the fishing pressure increasing? do fish prices offered to fishers reflect the evolving cost of living in other sectors?), and more generally the policy framework - although the limited number of publications on this topic does not necessarily reflect an active sub-sector.

In conclusion, research in the fisheries sector is lively and productive in Cambodia. The information produced is not yet fully accessible nor channeled and distilled to underpin decision-making as much as possible, but the potential is major and offers bright perspectives.

## 8. ANNEX 1: LIST OF INSTITUTIONS AND PERSONS CONSULTED

Organization	Contact person	Position
<b>GOVERNMENT</b>		
Inland Fisheries Research and Development Institute, FiA	Dr. Touch Bunthang	Director
Marine Fisheries Research and Development Institute, FiA	Mr. Suy Sereywath	Director
Community Fisheries Development Department, FiA	Dr Lieng Sopha Mr. Ly Vuthy	Director
Department of Fisheries Conservation, FiA	Mr. Ouk Vibol	Director
Department of Post-Harvest and Quality Control	Dr. Chhoun Chamnan	Director
FiA Inland	Mr. Chheng Phen	Deputy Director General
FIA Marine	Dr. Bouy Roitana	Deputy Director General
Tonle Sap Authority	H.E. Lim Puy	Vice Chairman
Cambodia National Mekong Committee	H.E So Sophort	Secretary General
Research scientists	Dr. Chan Bunyeth; Chan Sokheng; Chea Ratha; Chea Tharith; Hap Navy; Heng Kong; Ngor Peng Bun; Putrea Solyda; Sor Ratha; Thach Phanara.	
<b>DEVELOPMENT PARTNERS</b>		
ADB	Mr Hem Chanthou	Senior project officer
World Bank	Mr. Chan Virak	Water Resources Management Specialist
GIZ	Mr. Kim Miratori	Civic Engagement Advisor
USAID	Mr. Zach Child	Desk Officer for Cambodia and Timor-Leste
JICA	Ms. Toyama Haruko	Senior Program Officer
<b>INTERNATIONAL / REGIONAL ORGANIZATIONS</b>		
Mekong River Commission	Dr So Nam	Chief Environment Management Officer
SEAFDEC	Dr. Bouy Roitana	Council member (Cambodia)
WorldFish	Mr. Koum Visidh, Dr Sarah Freed	Manager and research scientist
World Food Programme	Dr. Indira Bose	Team leader
UNIDO	Dr. Shetty Seetharama Thombathu	Chief Technical Advisor
FishBio	Ms. Erin Loury	Fisheries Biologist
FAO	Dr. Iean Russel	Senior Policy Officer

NON GOVERNMENTAL ORGANIZATIONS		
Conservation International (CI)	Dr. Nick Souter	Freshwater Manager
WWF	Mr. Teak Seng	Country director
Marine Conservation Cambodia	Mr. Paul Ferber Amick Haissoune	Director Country team leader
Fauna and Flora International	Ms. Marianne Teoh	Marine Programme Manager
SciCap	Dr. Vittoria Elliott	Director
Wonders of the Mekong	Dr. Ngor Bengbun	Country leader
River Coalition of Cambodia (RCC)/NGO Forum	Dr. Tek Vannara	Executive Director
FACT	Mr. Youk Senglong	Vice Director
The Leaning Institute (LI)	Mr. Srey Marona	Executive Director
CDRI	Dr. Pech Sokhem	Executive Director
IUCN	Mr. Sorn Pheakdey	Water and wetlands coordinator
WCS	Dr. Simon Mahood	Senior technical adviser
ForumCiv	Mr. Bo Rosenqvist	Country Manager
CCC	Dr El Sotheary	Program manager
Oxfam	Ms. Pauline Taylor-McKeown	Former program manager
UNIVERSITIES		
Royal University of Phnom Penh	Dr. Sor Ratha	Lecturer, faculty of development studies
University of Battambang (UBB)	Dr. Seng Ratha	Lecturer
Royal University of Agriculture (RUA)	Dr Chhouk Borin Dr Borarin Buntong	Dean, faculty of fisheries
Institute of Technology of Cambodia	Dr. Seingheng Hul	Former Director of Research

## 9. ANNEX 2: References by domain and theme (simplified references)

### 9.1. Freshwater domain

#### 9.1.1. Biology

##### Species biology and behavior

- Connectivity of Mekong fishes between freshwater and marine habitats. [2020. Regional article. Online]. Ref. 458
- Evidence for population genetic structure in two exploited Mekong River fishes across a natural riverine barrier. [2020. Peer-reviewed article. Online]. Ref. 34
- Genetic diversity and structure of striped snakehead (*Channa striata*) in the Lower Mekong Basin: Implications for aquaculture and fisheries management. [2019. Peer-reviewed article. Online]. Ref. 430
- Larval and juvenile fish in the Mekong River in Northern Lao PDR [2015. Technical report. Not online]. Ref. 178
- Modelling spatial and temporal dynamics of two small mud carp species in the Tonle Sap flood-pulse ecosystem. [2019. Peer-reviewed article. Online]. Ref. 56
- Mollusc fisheries and length-weight relationship in Tonle Sap flood pulse system, Cambodia. [2018. Peer-reviewed article. Online]. Ref. 283
- Otolith ring counts reveal age composition of drifting larval striped catfish *Pangasianodon hypophthalmus* in the Mekong River, Cambodia. [2020. Thesis. Not online]. Ref. 74
- Predicted impacts of climate warming on aerobic performance and upper thermal tolerance of six tropical freshwater fishes spanning three continents. [2018. Peer-reviewed article. Online]. Ref. 209
- Seasonal gonad cycle of the climbing perch *Anabas testudineus* (Teleostei: Anabantidae) in a tropical wetland. [2015. Peer-reviewed article. Online]. Ref. 31
- Seasonal variations in diet composition, diet breadth and dietary overlap between three commercially important fish species within a flood-pulse system: The Tonle Sap Lake (Cambodia). [2018. Peer-reviewed article. Online]. Ref. 170
- Spatial and temporal variations in fish taxonomic structure and feeding competition of the tropical lake, Tonle Sap flood pulse system, Cambodia. [2018. Thesis. Online]. Ref. 171
- Study of feeding biology of two fish: *Channa striata* and *Clarias batrachus* in a community fish refuge and Tonle Sap Lake at Pursat Province. [2016. Thesis. Not online]. Ref. 414

##### Fish community ecology

- Body size–trophic position relationships among fishes of the Lower Mekong Basin. [2017. Peer-reviewed article. Online]. Ref. 290
- Cambodian freshwater fish assemblage structure and distribution patterns: using a large-scale monitoring network to understand the dynamics and management implications of species clusters in a global biodiversity hotspot. [2020. Peer-reviewed article. Online]. Ref. 297
- Characterizing the drivers of tropical freshwater fish dynamics and abundance in the Mekong River, under environmental change. [2019. Thesis. Online]. Ref. 112
- Consumer trophic positions respond variably to seasonally fluctuating environments. [2019. Peer-reviewed article. Online]. Ref. 233
- Distribution patterns and community structure of freshwater fish in Cambodia. [2020. Thesis. Not online]. Ref. 286
- Dynamique spatiale et temporelle des espèces et de communauté de poissons dans le système d'inondation pulsé de Tonle Sap. [2018. Thesis. Online]. Ref. 58
- Effects of species prevalence on the performance of predictive models. [2017. Peer-reviewed article. Online]. Ref. 402
- Fish assemblage composition within the floodplain habitat mosaic of a tropical lake (Tonle Sap, Cambodia). [2017. Peer-reviewed article. Online]. Ref. 301
- Fish assemblage convergence along stream environmental gradients: an intercontinental analysis. [2019. Peer-reviewed article. Online]. Ref. 43

- Fish assemblage responses to flow seasonality and predictability in a tropical flood pulse system. [2018. Peer-reviewed article. Online]. Ref. 282
- Fish population dynamic response to hydrological change in Tonle Sap Lake. [2020. Thesis. Not online]. Ref. 322
- Fish species composition, distributions and community structure in the Tonle Sap rice field region. [2020. Thesis. Not online]. Ref. 478
- Fish species diversity and assemblage structure in seasonal wetlands in the dry dipterocarp forests of Kulen Promtep Wildlife Sanctuary, Cambodia. [2018. Peer-reviewed article. Online]. Ref. 6
- Food webs and the sustainability of indiscriminate fisheries. [2015. Peer-reviewed article. Online]. Ref. 231
- Functional and trophic diversity of fishes in the Mekong-3S river system: comparison of morphological and isotopic patterns. [2020. Peer-reviewed article. Online]. Ref. 245
- Impact of seasonal hydrological variation on tropical fish assemblages: abrupt shift following an extreme flood event. [2020. Peer-reviewed article. Online]. Ref. 70
- Influence of local habitat and climatic factors on the distribution of fish species in the Tonle Sap Lake. [2020. Peer-reviewed article. Online]. Ref. 53
- Large-scale patterns of fish diversity and assemblage structure in the longest tropical river in Asia. [2017. Peer-reviewed article. Online]. Ref. 69
- Larval and juvenile fish communities of the Lower Mekong Basin. [2015. Technical report. Online]. Ref. 87
- Modelling spatio-temporal changes of benthic macroinvertebrate communities in Asian and European rivers. [2017. Thesis. Online]. Ref. 403
- Patterns of Mekong mollusc biodiversity: identification of emerging threats and importance to management and livelihoods in a region of globally significant biodiversity and endemism. [2020. Peer-reviewed article. Online]. Ref. 401
- Seasonal changes in fish community composition and species diversity in the tropical flood pulse lake ecosystem, Tonle Sap Cambodia. [2020. Thesis. Not online]. Ref. 450
- Seasonal hydrology shifts production sources supporting fishes in rivers of the Lower Mekong Basin. [2016. Peer-reviewed article. Online]. Ref. 291
- Seasonal increases in fish trophic niche plasticity within a flood-pulse river ecosystem (Tonle Sap Lake, Cambodia). [2019. Peer-reviewed article. Online]. Ref. 302
- Spatial and temporal changes in fish yields and fish communities in the largest tropical floodplain lake in Asia. [2017. Peer-reviewed article. Online]. Ref. 55
- Spatial and temporal variation in fish community structure and diversity in the largest tropical flood-pulse system of South-East Asia. [2018. Peer-reviewed article. Online]. Ref. 278
- Spatial organization of macroinvertebrate assemblages in the Lower Mekong Basin. [2017. Peer-reviewed article. Online]. Ref. 399
- Spatio-temporal co-occurrence of alien and native molluscs: a modelling approach using physical-chemical predictors. [2017. Peer-reviewed article. Online]. Ref. 398
- Spatio-temporal variation of fish taxonomic composition in a South-East Asian flood-pulse system. [2017. Peer-reviewed article. Online]. Ref. 169
- Spawning habitats of fish in the Mekong and 3S rivers in Cambodia. [2017. Technical report. Not online]. Ref. 93
- Structure and dynamic of fish community in tropical Asia. [2017. Peer-reviewed article. Online]. Ref. 68
- Structure et dynamique des communautés de poissons: vers une compréhension écologique du système d'inondation pulsé en Asie tropicale. [2017. Thesis. Online]. Ref. 71
- Toward an ecological understanding of a flood-pulse system lake in a tropical ecosystem: food web structure and ecosystem health. [2016. Peer-reviewed article. Online]. Ref. 67
- Uniqueness of sampling site contributions to the total variance of macroinvertebrate communities in the Lower Mekong Basin. [2018. Peer-reviewed article. Online]. Ref. 400
- Stock assessment
- 2017 monitoring drift of fish larvae and fry in the Mekong and Tonle Sap Rivers in Cambodia. [2017. Technical report. Not online]. Ref. 421
- 2018 monitoring drift of fish larvae and fry in the Mekong and Tonle Sap Rivers in Cambodia. [2018. Technical report. Not online]. Ref. 422

- 2019 monitoring drift of fish larvae and fry in the Mekong and Tonle Sap Rivers in Cambodia. [2019. Technical report. Not online]. Ref. 423
- Evidence of indiscriminate fishing effects in one of the world's largest inland fisheries. [2018. Peer-reviewed article. Online]. Ref. 279
- Fish productivity by aquatic habitat and estimated fish production in Cambodia. [2016. Technical report. Online]. Ref. 72
- Fisheries habitat and yield in the Lower Mekong Basin. [2015. Technical report. Online]. Ref. 176

#### Infrastructure impact studies

- Balancing hydropower and biodiversity in the Amazon, Congo, and Mekong. [2016. Peer-reviewed article. Online]. Ref. 464
- Damming the Mekong tributaries: water security and the MRC 1995 Agreement. [2016. Peer-reviewed article. Online]. Ref. 226
- Dams and state security: damming the 3S rivers as a threat to Cambodian state security. [2016. Peer-reviewed article. Online]. Ref. 229
- Dams threaten world's largest inland fishery. [2018. Peer-reviewed article. Online]. Ref. 281
- Designing river flows to improve food security futures in the Lower Mekong Basin. [2017. Peer-reviewed article. Online]. Ref. 328
- Development of fish passage design in cross-river obstacles for sustainable inland capture fisheries in Southeast Asia. [2016. Regional article. Online]. Ref. 77
- Drowning dissent report on the experiences of communities to be resettled for the Lower Sesan 2 Dam: findings and recommendations on the asset survey. [2016. Technical report. Not online]. Ref. 100
- Enhancing fisheries productivity through improved management of reservoirs, dams and other water control structures. [2018. Technical report. Online]. Ref. 232
- Evaluating the sensitivity of dendritic connectivity to fish pass efficiency for the Sesan, Srepok and Sekong tributaries of the Lower Mekong. [2018. Peer-reviewed article. Online]. Ref. 383
- Fish, sediment and dams in the Mekong. [2015. Book / book chapter. Online]. Ref. 25
- Flow alterations by dams shaped fish assemblage dynamics in the complex Mekong-3S river system. [2018. Peer-reviewed article. Online]. Ref. 280
- Getting road expansion on the right track: a framework for smart infrastructure planning in the Mekong. [2016. Peer-reviewed article. Online]. Ref. 20
- How will water development projects affect the Lower Mekong Basin? [2018. Regional article. Online]. Ref. 259
- Hydrologic changes, dam construction, and the shift in dietary protein in the Lower Mekong River Basin. [2020. Peer-reviewed article. Online]. Ref. 49
- Impacts of dams and global warming on fish biodiversity in the Indo-Burma hotspot. [2016. Peer-reviewed article. Online]. Ref. 188
- Impacts of hydropower development on fisheries and human nutrition in the Lower Mekong. [2019. Peer-reviewed article. Online]. Ref. 157
- Impacts of mainstream hydropower dams on fisheries and agriculture in Lower Mekong Basin. [2020. Peer-reviewed article. Online]. Ref. 480
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- Survey: the compensation policies and market property price lower Sesan 2 dam development project. [2015. Technical report. Online]. Ref. 275
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- The ISH 0306 study: development of guidelines for hydropower environmental impact mitigation and risk management in the Lower Mekong mainstream and tributaries vol. 2. [2015. Technical report. Online]. Ref. 251
- The ISH 0306 study: development of guidelines for hydropower environmental impact mitigation and risk management in the Lower Mekong mainstream and tributaries vol. 3. [2015. Technical report. Online]. Ref. 252
- The Mekong River: trading off hydropower, fish, and food. [2017. Peer-reviewed article. Online]. Ref. 299
- Using the Freshwater Health Index to assess hydropower development scenarios in the Sesan, Srepok and Sekong River Basin. [2020. Peer-reviewed article. Online]. Ref. 405
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- 

#### Fishing methods and performance

#NA

### 9.1.2. Socio-economics

#### Livelihood studies

- Adaptation to environmental change among fishing-dependent households in Cambodia. [2016. Technical report. Online]. Ref. 343
- Building resilience in rural livelihood systems as an investment in conflict prevention. [2015. Book / book chapter. Online]. Ref. 310
- Cham Muslim fishing communities on the Bassac River in Cambodia and Vietnam. [2015. Regional article. Online]. Ref. 407
- Conflict and collective action in Tonle Sap fisheries: adapting governance to support community livelihoods. [2017. Peer-reviewed article. Online]. Ref. 313
- Fishers’ ability and willingness to adapt to environmental change in Cambodia's Tonle Sap Lake. [2019. Peer-reviewed article. Online]. Ref. 194
- Identification and effectiveness of self-help groups in Cambodia. [2015. Technical report. Online]. Ref. 48
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- Livelihoods in the changing Tonle Sap: past, present and future. [2017. Thesis. Online]. Ref. 382
- Migrating fish and mobile knowledge: situated fishers’ knowledge and social networks in the lower Mekong River Basin in Thailand, Laos and Cambodia. [2019. Peer-reviewed article. Online]. Ref. 19
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- Determinants of local people's perception on the trade-off between conservation and poverty reduction in community based natural resource management: a case study of Tonle Sap Lake, Cambodia. [2017. Peer-reviewed article. Online]. Ref. 454
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- Selection of Community Fisheries for project support. [2019. Technical report. Not online]. Ref. 119

### Gender, children, minorities

- Innovation and gendered negotiations: Insights from six small-scale fishing communities. [2017. Peer-reviewed article. Online]. Ref. 219
- Perceptions of gender dynamics in small-scale fisheries and conservation areas in the Pursat province of Tonle Sap Lake, Cambodia. [2020. Peer-reviewed article. Online]. Ref. 206
- Perceptions of gender dynamics in small-scale fisheries and conservation areas: a case study in the Pursat province of Tonle Sap Lake, Cambodia. [2017. Thesis. Not online]. Ref. 207

### Nutrition, food security

- A North-South-South collaborative action to prevent micronutrient deficiencies in women and young children in South-East Asia. [2015. Peer-reviewed article. Online]. Ref. 30
- Crossover trial to test the acceptability of a locally produced lipid-based nutrient supplement (LNS) for children under 2 years in Cambodia: a study protocol. [2017. Peer-reviewed article. Online]. Ref. 39
- Effectiveness of a locally produced, fish-based food product on weight gain among Cambodian children in the treatment of acute malnutrition: a randomized controlled trial. [2018. Peer-reviewed article. Online]. Ref. 387
- Enhancing food safety and household nutrition vulnerability of women and children through aquaculture and capture fisheries in Cambodia and Vietnam. [2018. Technical report. Not online]. Ref. 441
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- Micronutrient status of populations and preventive nutrition interventions in South East Asia. [2018. Peer-reviewed article. Online]. Ref. 325
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- Commodity and products identification for value chain analysis. [2015. Technical report. Online]. Ref. 163
- Economic value of fish in Cambodia and value added along the trade chain. [2016. Technical report. Online]. Ref. 240
- Impacts of climate change on snakehead fish value chains in the Lower Mekong Basin of Cambodia and Vietnam. [2017. Peer-reviewed article. Online]. Ref. 165
- Rapid assessment on fish trade and illegal fishing - Mekong Flooded Forest landscape (MFF), Kratie Province. [2020. Media product. Online]. Ref. 473

### 9.1.3. Post-harvest

#### Fish processing

- Chitosan extraction from seafood waste and its potential application in production and postharvest horticulture. [2015. Peer-reviewed article. Online]. Ref. 431
- Shrimp processing on the Tonle Sap Lake. [2018. Regional article. Online]. Ref. 75

#### Fish product quality

#NA

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#### Catch monitoring

- 2018 Report on fish abundance and diversity monitoring along the Mekong River and its tributaries in Cambodia. [2018. Technical report. Not online]. Ref. 305
- 2019 Report on fish abundance and diversity monitoring along the Mekong River and its tributaries in Cambodia. [2019. Technical report. Not online]. Ref. 306
- 2020 Report on fish abundance and diversity monitoring along the Mekong River and its tributaries in Cambodia. [2020. Technical report. Not online]. Ref. 307
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- Baseline study report: fish catch in Bak Rotes and Dei Roneat fish conservation area. [2016. Technical report. Not online]. Ref. 99
- Cambodia completes first pilot study of Tonle Sap mollusc fishery. [2016. Regional article. Online]. Ref. 276
- Cambodia: eligibility assessment of the capture fisheries sector for an EU-funded sector reform contract [2017. Technical report. Not online]. Ref. 239
- Collection of small-scale artisanal fisheries data using interviews of village fishers on the Sre Ambel River, Cambodia. [2019. Peer-reviewed article. Online]. Ref. 273
- Dai fishery monitoring in the Tonle Sap River, Cambodia in the fishing season 2016-2017. [2017. Technical report. Not online]. Ref. 437
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- Dai fishery monitoring in the Tonle Sap River, Cambodia in the fishing season 2019-2020. [2020. Technical report. Not online]. Ref. 436
- Developing a methodology for standardized fish monitoring in the Mekong Basin [2016. Technical report. Online]. Ref. 36
- Evaluation of the Thai Department of Fisheries monitoring method in the Srepok and the Sesan rivers, Northeast Cambodia. [2015. Thesis. Not online]. Ref. 57

- Fish catch monitoring - conserving national fish stocks: training of CFI community members on fish catch monitoring, Kratie. [2016. Media product. Online]. Ref. 471
- Global hidden harvest of freshwater fish revealed by household surveys. [2017. Peer-reviewed article. Online]. Ref. 76
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- Monitoring of tropical freshwater fish resources for sustainable use. [2019. Peer-reviewed article. Online]. Ref. 91
- Review of the state of world fishery resources: inland fisheries. [2018. Technical report. Online]. Ref. 146
- Scientific monitoring of the fish resource with community fishers [2019. Technical report. Not online]. Ref. 118

#### Effort monitoring

- Illegal fishing around the Tonle Sap [2018. Technical report. Online]. Ref. 21

#### Habitat monitoring

- Action research report on flooded forest clearance and illegal fishing [2015. Technical report. Online]. Ref. 98
- Agricultural intensification is causing rapid habitat change in the Tonle Sap floodplain, Cambodia. [2020. Peer-reviewed article. Online]. Ref. 224
- Changes of inundation area and water turbidity of Tonle Sap Lake: responses to climate changes or upstream dam construction? [2020. Peer-reviewed article. Online]. Ref. 474
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- Flood mapping under an extreme event in a large shallow lake influenced by flood pulse in Southeast Asia. [2020. Peer-reviewed article. Online]. Ref. 385
- Maintaining perspective of ongoing environmental change in the Mekong floodplains. [2019. Peer-reviewed article. Online]. Ref. 13
- Mekong flooded forest ecosystem health synthesis report. Identify link between water, energy and food for integrated planning for sustainable development. [2017. Technical report. Online]. Ref. 472
- Report on the 2015 biomonitoring survey of the Lower Mekong River and the selected tributaries. [2019. Technical report. Online]. Ref. 262
- Report on the 2017 biomonitoring survey of the Lower Mekong River and selected tributaries. [2019. Technical report. Online]. Ref. 263
- Seasonal changes in the inundation area and water volume of the Tonle Sap River and its floodplain. [2016. Peer-reviewed article. Online]. Ref. 386
- Tonle Sap system on the brink of 'massive' environmental change. [2016. Regional article. Online]. Ref. 253

#### Livelihood monitoring

- Baseline survey of fishing households in Kratie and Stung Treng Provinces. [2018. Technical report. Not online]. Ref. 116

#### Fish price monitoring

- Lower Mekong fisheries estimated to be worth around \$17 billion a year. [2015. Regional article. Online]. Ref. 393

### 9.1.5. Management

#### Conservation

- A characterization of community fish refuge typologies in rice field fisheries ecosystems. [2015. Technical report. Online]. Ref. 44
- A manual for community fish refuge-rice field fisheries system management in Cambodia. [2019. Guidelines. Online]. Ref. 195
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- Conservation status of threatened Mekong megafishes: a study using local ecological knowledge in northern Cambodia. [2019. Thesis. Not online]. Ref. 298
- Conserving Mekong megafishes: current status and critical threats in Cambodia. [2020. Peer-reviewed article. Online]. Ref. 51
- Designing freshwater protected areas (FPAs) for indiscriminate fisheries [2019. Peer-reviewed article. Online]. Ref. 162
- Does boat traffic affect the behaviour of Irrawaddy dolphins (*Orcaella brevirostris*) in the Mekong River, Cambodia. [2015. Thesis. Not online]. Ref. 175
- Fish diversity and biomass and survival rate of fish stocked in rice field refuge ponds during dry season in Pursat Province. [2016. Thesis. Not online]. Ref. 451
- Guidelines for community fish refuge-rice field fisheries system management in Cambodia. [2019. Guidelines. Online]. Ref. 196
- Managing community fish refuges in Cambodia's rice field fisheries. [2019. Regional article. Online]. Ref. 248
- Mapping potential freshwater services, and their representation within Protected Areas (PAs), under conditions of sparse data. [2016. Peer-reviewed article. Online]. Ref. 331
- Matching-up the population dynamics of Mekong giant catfish with conservation and management strategies. [2015. Regional article. Online]. Ref. 271
- Population monitoring of the critically endangered Mekong dolphin based on mark-resight models. [2015. Technical report. Online]. Ref. 296
- The effectiveness of artificial habitats (brush parks and plastic flowers) as fish eco-shelter in community fisheries refuges in Pursat and Battambang provinces. [2015. Thesis. Not online]. Ref. 334
- The potential of community fish refuges (CFRs) in rice field agro-ecosystems for improving food and nutrition security in the Tonle Sap region. [2016. Technical report. Online]. Ref. 45
- Trails of river monsters: detecting critically endangered Mekong giant catfish *Pangasianodon gigas* using environmental DNA. [2016. Peer-reviewed article. Online]. Ref. 28

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- A strategy for fisheries resources management in Southeast Asia: a case study of an inland fishery around Tonle Sap Lake in Cambodia [2017. Peer-reviewed article. Online]. Ref. 337
- Facilitating multi-stakeholder dialogue to manage natural resources competition: a synthesis of lesson from Uganda, Zambia, and Cambodia [2017. Peer-reviewed article. Online]. Ref. 312
- Fisheries management: management of inland capture fisheries. [2017. Technical report. Online]. Ref. 356
- Guidelines for transboundary environmental impact assessment in the Lower Mekong Basin (Working Document). [2018. Guidelines. Online]. Ref. 258
- Mainstreaming natural resource management at Cambodian inland fisheries communities: situational analysis. [2019. Technical report. Online]. Ref. 86
- Mekong basin-wide fisheries management and development strategy 2018-2022. [2017. Technical report. Online]. Ref. 255

- Mekong River Basin indicator framework for informing the management of the Mekong River Basin. [2019. Technical report. Online]. Ref. 261
- Regional cooperation and benefit sharing for sustainable water resources management in the Lower Mekong Basin. [2019. Peer-reviewed article. Online]. Ref. 395
- Transboundary fisheries management issues in the Mekong and Sekong Rivers of Cambodia and Lao PDR. [2017. Technical report. Online]. Ref. 257

#### Resource management by/with communities

- Cambodia investing almost \$17 mln on community fisheries and water resource management in country's northeast. [2017. Regional article. Online]. Ref. 254
- Evaluating community fishery management using fishers' perceptions in the Tonle Sap lake of Cambodia. [2020. Peer-reviewed article. Online]. Ref. 193
- Fisheries reforms and right-based fisheries: insights from community fisheries across Cambodia. [2016. Technical report. Online]. Ref. 61
- Good governance of rice field fishery management. [2015. Technical report. Online]. Ref. 197
- Habitat rehabilitation with the participation of community fishers in Cambodia. [2016. Technical report. Online]. Ref. 217
- Identifying opportunities to improve governance of aquatic agricultural systems through participatory action research. [2017. Peer-reviewed article. Online]. Ref. 12
- Impact of community-based natural resource management on household consumption: a case study of Tonle Sap Lake, Cambodia. [2017. Peer-reviewed article. Online]. Ref. 455
- Managing aquatic agricultural system to improve nutrition and livelihoods in Cambodia. [2017. Media product. Online]. Ref. 470
- Tonle Sap: fisheries management case study. [2018. Book / book chapter. Online]. Ref. 184

#### 9.1.6. Policy

##### Regulation analysis

- Comparative review of laws and regulations concerning fisheries, habitat management and related aspects between Cambodia and Lao PDR and between Cambodia and Viet Nam. [2017. Technical report. Online]. Ref. 352
- Promoting greater coherence between small-scale fisheries and social protection policies, mechanisms and programs in Cambodia. [2017. Technical report. Online]. Ref. 230
- Public participation strategy for sustainable water resource governance in the Lower Mekong Basin: a policy case study from the Mekong River Commission. [2018. Peer-reviewed article. Online]. Ref. 235
- The governance of wetlands in the Tonle Sap Lake, Cambodia. [2015. Peer-reviewed article. Online]. Ref. 227

##### Policy recommendations

#NA

### 9.1.7. Others

#### Multiple themes

- An ecosystem approach to promote the integration and coexistence of fisheries within irrigation systems. [2018. Technical report. Online]. Ref. 159
- Aquatic agricultural systems in Cambodia: national situation analysis. [2015. Technical report. Online]. Ref. 445
- Assessing hydrologic drivers of fisheries and forecasting future catches. [2016. Regional article. Online]. Ref. 329
- Assessing water availability and economic social and nutritional contributions from inland capture fisheries and aquaculture: an indicator-based framework – a compilation of water-related indicators in selected African and Asian countries [2017. Guidelines. Online]. Ref. 289
- Assessing water availability and economic, social and nutritional contributions from inland capture fisheries and aquaculture: an indicator-based framework. [2016. Technical report. Online]. Ref. 104
- Cambodia's fisheries: a decade of changes and evolution. [2015. Regional article. Online]. Ref. 24
- Catch and Culture: 14 MRC newsletter issues between 2015 and 2020. [. Regional article. Online]. Ref. 52
- Effects of climate variability on freshwater fisheries in Cambodia's rice field fisheries: a longitudinal cohort study. [2018. Peer-reviewed article. Online]. Ref. 114
- Environmental performance assessment 2006–2016. Greater Mekong Sub-region Core Environmental Programme. [2018. Technical report. Online]. Ref. 15
- Exploring tropical fisheries through fishers' perceptions: fishing down the food web in the Tonle Sap, Cambodia. [2017. Peer-reviewed article. Online]. Ref. 192
- Fisher's Voice Magazine. Four issues between 2015 and 2020 [. Media product. Online]. Ref. 101
- Floating rice in Vietnam, Cambodia and Myanmar. [2016. Technical report. Online]. Ref. 300
- Highlighting the importance of inland capture fisheries in the Southeast Asian Region. [2017. Regional article. Online]. Ref. 90
- Increasing productivity and improving livelihoods in aquatic agricultural systems: a review of interventions. [2017. Peer-reviewed article. Online]. Ref. 183
- Inland fish and fisheries integral to achieving the Sustainable Development Goals. [2020. Peer-reviewed article. Online]. Ref. 222
- Maintaining diversity of integrated rice and fish production confers adaptability of food systems to global change. [2020. Peer-reviewed article. Online]. Ref. 144
- Measuring, understanding and adapting to nexus trade-offs in the Sekong, Sesan and Srepok transboundary river basins. [2019. Technical report. Online]. Ref. 46
- MRC State of the Basin report 2018 [2019. Technical report. Online]. Ref. 249
- Participatory modeling updates expectations for individuals and groups, catalyzing behavior change and collective action in water-energy-food nexus governance. [2019. Peer-reviewed article. Online]. Ref. 199
- Quantity and economic value of fish harvested by gillnets along the Tonle Sap River, Cambodia. [2020. Thesis. Not online]. Ref. 172
- Response to comments on "designing river flows to improve food security futures in the Lower Mekong Basin". [2018. Peer-reviewed article. Online]. Ref. 174
- Rice field fisheries catch and consumption patterns in Tonle Sap region, Cambodia. [2020. Thesis. Not online]. Ref. 244
- Rice field fisheries: wild aquatic species diversity, food provision services and contribution to inland fisheries [2020. Peer-reviewed article. Online]. Ref. 143
- Speaking the same language: can the sustainable development goals translate the needs of inland fisheries into irrigation decisions? [2019. Peer-reviewed article. Online]. Ref. 223
- Temporal dynamics of fish assemblages as a reflection of policy shift from fishing concession to co-management in one of the world's largest tropical flood pulse fisheries. [2020. Peer-reviewed article. Online]. Ref. 54
- Tonle Sap Lake: current status and important research directions for environmental management. [2018. Peer-reviewed article. Online]. Ref. 444

## Miscellaneous

- Annotated checklist of freshwater molluscs from the largest freshwater lake in Southeast Asia. [2020. Peer-reviewed article. Online]. Ref. 274
- *Channa auroflammea*, a new species of snakehead fish of the Marulius group from the Mekong River in Laos and Cambodia (Teleostei: Channidae). [2019. Peer-reviewed article. Online]. Ref. 5
- Cryptic lineages and a population dammed to incipient extinction? Insights into the genetic structure of a Mekong river catfish. [2019. Peer-reviewed article. Online]. Ref. 4
- Ecosystem services from Tonle Sap flood pulse: spatial and economic analysis in Aek Phnom and Sangkae districts of Battambang province, Cambodia. [2019. Book / book chapter. Online]. Ref. 394
- Fishes of Cambodian freshwater bodies. [2018. Book / book chapter. Online]. Ref. 392
- Greenhouse gas implications of replacing fish protein with beef in the lower Mekong Basin. [2020. Peer-reviewed article. Online]. Ref. 147
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- Index of 99 Latin-Khmer and Khmer-Latin fish names. [2019. Guidelines. Not online]. Ref. 117
- Linking humans to food webs: a framework for the classification of global fisheries. [2018. Peer-reviewed article. Online]. Ref. 33
- Photo of fish and information guidebook (in Khmer). [2019. Technical report. Online]. Ref. 138
- Photos of common fishes in the Lower Mekong Basin. [2016. Technical report. Online]. Ref. 277
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- Recent warming of Tonle Sap Lake, Cambodia: Implications for one of the world's most productive inland fisheries [2020. Peer-reviewed article. Online]. Ref. 89
- The hollow drum: impacts of human use on the Tonle Sap flooded forest at Kampong Luong, Cambodia. [2017. Peer-reviewed article. Online]. Ref. 427
- Tonle Sap Lake, Cambodia: a perspective on its transborder hydrological and resources governance. [2015. Peer-reviewed article. Online]. Ref. 228
- When is a fisher (not) a fisher? Factors that influence the decision to report fishing as an occupation in rural Cambodia. [2016. Peer-reviewed article. Online]. Ref. 272

## **9.2. Marine domain**

### **9.2.1. Biology**

#### Species biology and behavior

- Biodiversity and habitat preferences of living sharks in the Southeast Asian region. [2018. Regional article. Online]. Ref. 8
- New records of the Japanese seahorse *Hippocampus mohnikei* in Southeast Asia lead to updates in range, habitat and threats. [2016. Peer-reviewed article. Online]. Ref. 16
- On the distribution, behavior and seasonal variation of Irrawaddy Dolphins (*Orcaella brevirostris*) in the Kep Archipelago, Cambodia. [2020. Technical report. Online]. Ref. 140
- On the distribution, behaviour and seasonal variation of Irrawaddy dolphins (*Orcaella brevirostris*) in the Kep Archipelago, Cambodia. [2020. Peer-reviewed article. Online]. Ref. 443
- Seahorse population assessment. [2019. Technical report. Online]. Ref. 152
- Standard Operating Procedures (SOP) sharks, rays and skates data collection in the Southeast Asian waters. [2017. Guidelines. Online]. Ref. 366

#### Fish community ecology

- Species composition and distribution of marine fish larvae in Koh Kong province, Cambodia. [2020. Technical report. Not online]. Ref. 142
- Strengthening regional cooperation to support the implementation of port state measures in Southeast Asia. [2017. Regional article. Online]. Ref. 203
- The diversity, community structure and health of corals at Koh Arch Seh in Kep Province, Cambodia [2020. Thesis. Not online]. Ref. 181

### Stock assessment

- An estimation of the production function of fisheries in Peam Krasaob Wildlife Sanctuary in Koh Kong Province, Cambodia. [2016. Technical report. Online]. Ref. 200
- Report of regional sharks data collection 2015-2016: Results from data collection in the shark project participating countries. [2017. Technical report. Online]. Ref. 362
- Report of the experts group meeting on stock status and geographical distribution of anchovy, indo-pacific mackerel and blue swimming crab (AIB) species in the Gulf of Thailand. [2017. Technical report. Online]. Ref. 364
- Sustained utilization of SEAFDEC vessels through collaborative research surveys: Marine resources survey of the Gulf of Thailand using the M.V. [2019. Regional article. Online]. Ref. 409

### Infrastructure impact studies

#NA

### Fishing methods and performance

- Purse seine fisheries in Southeast Asian countries: a regional synthesis. [2016. Regional article. Online]. Ref. 308

## 9.2.2. Socio-economics

### Livelihood studies

- Fisherfolks and workers in fishing activities: labor in the Southeast Asia fishing industry. [2017. Technical report. Online]. Ref. 186
- Intra-household impacts of climate change hazards in coastal communities: A cross-country perspective. [2017. Technical report. Online]. Ref. 333
- SOCMON Cambodia preliminary analysis (Koh Rong MPA). [2015. Technical report. Not online]. Ref. 213

### Community Fisheries studies

- CFI KAP Survey Second Assessment (Koh Rong MPA) [2015. Technical report. Not online]. Ref. 65
- Understanding the current and historical impact of community fisheries on sea turtle in Koh Sdach and Chrouy Svay, Coastal Southwest Cambodia. [2017. Thesis. Not online]. Ref. 411

### Gender, children, minorities

- Gender in coastal and marine resource management: a regional synthesis report. [2018. Technical report. Online]. Ref. 238

### Nutrition, food security

#NA

### Value chain

- Important demersal fishery resources: live reef food fish. [2017. Technical report. Online]. Ref. 7
- The value chain assessment of marine fisheries sector and roadmap for development. [2015. Technical report. Online]. Ref. 448

## 9.2.3. Post-harvest

### Fish processing

- Important demersal fishery resources: raw materials for surimi. [2017. Technical report. Online]. Ref. 389



### Fish product quality

- Regional guidelines on cold chain management of fish and fishery products in ASEAN region. [2019. Guidelines. Online]. Ref. 372

## 9.2.4. Monitoring

### Catch monitoring

- Automating marine fisheries catch documentation schemes: the eACDS. [2017. Regional article. Online]. Ref. 397
- Fisheries baseline survey - Koh Sdach. [2017. Technical report. Not online]. Ref. 108
- Report of the baseline survey of short mackerel and sampling fish larvae collection in Koh Kong [2020. Technical report. Online]. Ref. 141
- Standard Operating Procedures for data collection and analysis of the neritic tunas. [2016. Guidelines. Online]. Ref. 350

### Effort monitoring

- Marine fishing vessel census. [2020. Technical report. Not online]. Ref. 120

### Habitat monitoring

- Assessment of Kep Archipelago seagrass meadows. [2018. Technical report. Online]. Ref. 161
- Coral bleaching from 2015 to 2017 in Cambodia. [2017. Technical report. Not online]. Ref. 125
- Current status of coral reef health around Koh Rong Archipelago (report). [2015. Technical report. Not online]. Ref. 123
- Current status of coral reef health around the Koh Rong Archipelago, Cambodia (article). [2015. Peer-reviewed article. Online]. Ref. 429
- Determining the significance of sedimentation on coral reef health around Koh Rong Sanloem. [2015. Thesis. Not online]. Ref. 477
- Effectiveness of community and volunteer based coral reef monitoring in Cambodia. [2016. Peer-reviewed article. Online]. Ref. 340
- Evaluating mangrove conservation effectiveness in Peam Krasop Wildlife Sanctuary, southwest Cambodia. [2020. Technical report. Not online]. Ref. 482
- Evaluating the effect of development expansion on mangrove extent in Botum Sakor National Park coastline of Cambodia. [2020. Technical report. Not online]. Ref. 18
- Kampot Province seagrass assessment. [2019. Technical report. Online]. Ref. 80
- Koh Rong Marine National Park coral reef status report [2020. Technical report. Online]. Ref. 154
- MRC. 2019. Environmental change in the floodplain. [2019. Regional article. Online]. Ref. 260
- Seagrass habitat monitoring contributing to strategic, large-scale and sustainable marine fisheries management (Koh Rong MPA). [2016. Thesis. Not online]. Ref. 73
- Seagrass monitoring report 2017 (Koh Rong MPA). [2017. Technical report. Not online]. Ref. 215
- Seagrass survey monitoring report (Koh Rong MPA). [2015. Technical report. Not online]. Ref. 214
- Status, extent and distribution of seagrass in the Koh Rong Marine National Park, Cambodia. [2018. Technical report. Not online]. Ref. 150
- Summary of coral bleaching from 2015 to 2017 in Cambodia. [2018. Technical report. Not online]. Ref. 417
- The status of coral reefs and seagrass meadows in the Kep Archipelago, Cambodia. [2019. Peer-reviewed article. Online]. Ref. 321
- The status of seagrass meadows in the Kep Archipelago. [2019. Technical report. Online]. Ref. 82
- Trends in Seagrass density and diversity in the Koh Rong Archipelago, Cambodia. [2018. Technical report. Not online]. Ref. 151

### Livelihood monitoring

#NA

## Fish price monitoring

#NA

### 9.2.5. Management

#### Conservation

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- Preventing the entry of IUU fish and fishery products into the supply chain: the Regional Guidelines. [2017. Regional article. Online]. Ref. 3
- Proceeding of the high-level consultation on regional cooperation in sustainable fisheries development towards the ASEAN Economic Community: combating IUU fishing and enhancing the competitiveness of ASEAN fish and fishery products. [2016. Technical report. Online]. Ref. 348
- Promotion of measures to avert entry of fish and fishery products from IUU fishing into the supply chain. [2016. Regional article. Online]. Ref. 1
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- Report of the 2nd sub-regional Technical Meeting on effective fisheries management between Cambodia and Thailand, in Koh Kong, Cambodia. [2019. Technical report. Online]. Ref. 373
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- Assessment of Community Fisheries Committees' perceptions on fisheries resources management in Koh Rong Archipelago, Cambodia. [2015. Technical report. Not online]. Ref. 64
- Boosting the responsible stewardship of a precious fishery resource: the blue swimming crab in Angkaol Village, Kep Province, Cambodia. [2020. Regional article. Online]. Ref. 182
- Community-led management lays the foundation for coral reef recovery in Cambodian marine protected areas. [2020. Peer-reviewed article. Online]. Ref. 155

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- Management Plan and Baseline Socioeconomic Survey for Koh Sdach Community Fishery. [2017. Technical report. Not online]. Ref. 109
- The environmental impacts assessment of marine fisheries related activities in Cambodia. [2015. Technical report. Online]. Ref. 447
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- Effectiveness of blood cockle refugia in Community Fishery Prey Nub 2, Sihanoukville, Cambodia. [2016. Technical report. Online]. Ref. 479
- Fisherfolks and workers in fishing activities: safety at sea, working condition, and safety onboard fishing vessels. [2017. Technical report. Online]. Ref. 309
- Knowledge and perception of local community on climate change in Koh Rong Archipelago. [2017. Technical report. Not online]. Ref. 66
- Learning from an EAFM pilot application: a case in Trapeang Ropov Village, Kampot Province, Cambodia. [2020. Regional article. Online]. Ref. 292
- Paving the way for the development of non-detriment findings: towards precise species identification of sharks and rays in Southeast Asia. [2019. Regional article. Online]. Ref. 408

## 9.3. Not specifically marine or inland

### 9.3.1. Biology

#### Species biology and behavior

#NA

### Fish community ecology

#NA

### Stock assessment

- Using yield per recruit analysis to determine fish stock status. [2018. Regional article. Online]. Ref. 412

### Infrastructure impact studies

#NA

### Fishing methods and performance

#NA

## 9.3.2. Socio-economics

### Livelihood studies

- Savings-group improvements contribute to sustainable community-fisheries management: a case study in Cambodia. [2018. Peer-reviewed article. Online]. Ref. 216

### Community Fisheries studies

- Baseline assessment of the effectiveness of Community Fisheries in Cambodia. [2018. Technical report. Not online]. Ref. 221
- Community Fisheries organizations of Cambodia sharing processes: results and lessons learned in the context of the implementation of the SSF Guidelines. [2017. Technical report. Online]. Ref. 204
- Fishers campaign for, debate and achieve change: a case study in Cambodia. [2018. Book / book chapter. Online]. Ref. 424

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- A review of women's access to fish in small-scale fisheries [2015. Technical report. Online]. Ref. 103
- Paving the path to gender equality in fisheries policies and practices in Southeast Asia. [2018. Regional article. Online]. Ref. 32
- Policy brief: applying human rights-based and gender equality approaches to small-scale fisheries in Southeast Asia. [2018. Technical report. Online]. Ref. 368
- Practical guide for gender analysis in small-scale fisheries and aquaculture in Southeast Asia. [2020. Guidelines. Online]. Ref. 380
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- Women's participation and leadership in fisherfolk organizations and collective action in fisheries: a review of evidence on enablers, drivers and barriers. [2018. Technical report. Online]. Ref. 9

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- Cambodia nutrition country fiche [2018. Media product. Online]. Ref. 97
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- Food composition tables in Southeast Asia. [2018. Peer-reviewed article. Online]. Ref. 179
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- Regional and seasonal variations of food consumption in Cambodia [2015. Regional article. Online]. Ref. 50
- Tradition and fermentation science of prohok, an ethnic fermented fish product of Cambodia. [2020. Peer-reviewed article. Online]. Ref. 211

#### Value chain

- Capturing the impacts of COVID-19 on the fisheries value chain of Southeast Asia. [2020. Regional article. Online]. Ref. 293
- Fish trade practices: Southeast Asian perspective. [2020. Regional article. Online]. Ref. 190
- Safeguarding the niche for Southeast Asian fish and fishery products in the world market. [2019. Regional article. Online]. Ref. 180
- Securing the niche of ASEAN fish and fishery products in the global market: aSEAN Catch Documentation Scheme for Marine Capture Fisheries [2016. Regional article. Online]. Ref. 396

### 9.3.3. Post-harvest

#### Fish processing

- The saga of fisheries post-harvest technology in Southeast Asia: from fish balls to fish Bah Kwa. [2015. Regional article. Online]. Ref. 78
- Utilization of fishery resources. [2017. Technical report. Online]. Ref. 475

#### Fish product quality

- Assessment of Cambodian standards on fish and fishery products and foods. [2015. Technical report. Online]. Ref. 446
- Boosting the traceability of ASEAN fish and fishery products through the eACDS. [2019. Regional article. Online]. Ref. 336
- Towards ensuring the safety and viability of seafood: the regional guidelines on cold chain management of fish and fishery products in the ASEAN region. [2020. Regional article. Online]. Ref. 476

### 9.3.4. Monitoring

#### Catch monitoring

- Fishery Statistical Bulletin of Southeast Asia 2013. [2017. Monitoring data. Online]. Ref. 353
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- Fishery Statistical Bulletin of Southeast Asia 2017. [2020. Monitoring data. Online]. Ref. 378
- Regional overview of the status and trends of aquaculture and fisheries in the Asia Pacific Region 2017. [2017. Technical report. Online]. Ref. 11
- Report of the regional technical consultation on fishery statistics and information in Southeast Asia. [2018. Technical report. Online]. Ref. 370
- Southeast Asian State of Fisheries and Aquaculture 2017. [2017. Monitoring data. Online]. Ref. 365
- Status and trends of capture fisheries and aquaculture in Southeast Asia. [2017. Technical report. Online]. Ref. 432

### Effort monitoring

#NA

### Habitat monitoring

- Developing an environmental monitoring system to strengthen fisheries and aquaculture resilience and improve early warning in the Lower Mekong Basin. [2017. Technical report. Online]. Ref. 105

### Livelihood monitoring

#NA

### Fish price monitoring

- Cambodia food price and wage bulletin. March to May 2015. [2015. Monitoring data. Online]. Ref. 462
- Food price update from May to October 2020. [2020. Monitoring data. Online]. Ref. 463

## 9.3.5. Management

### Conservation

- A decade of the Cambodian Journal of Natural History, the Kingdom's first peer-reviewed science journal. [2018. Peer-reviewed article. Online]. Ref. 88
- Lessons for aquatic protected areas from marine and freshwater experiences. [2018. Peer-reviewed article. Online]. Ref. 220
- Mekong ecosystem environmentally sensitive development manual. [2015. Guidelines. Online]. Ref. 426

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- Building upon sub-regional arrangements for joint management of fishery resources in the Southeast Asian region. [2017. Regional article. Online]. Ref. 433
- Fisheries management: responsible fishing practices. [2017. Technical report. Online]. Ref. 60
- Investing in multi-stakeholder dialogue to address natural resource competition and conflict. [2018. Peer-reviewed article. Online]. Ref. 311
- Regional fisheries management organizations and advisory bodies. [2020. Technical report. Online]. Ref. 420

### Resource management by/with communities

- Fisheries co-management training manual – n° 1: Establishing a Community Fishery. [2018. Guidelines. Online]. Ref. 127
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- Fisheries co-management training manual – n° 3: Strengthening Community Fishery Committees. [2018. Guidelines. Online]. Ref. 129
- Fisheries co-management training manual – n° 4: Strengthening Fisheries Administration Cantonments. [2018. Guidelines. Online]. Ref. 130
- Fisheries co-management training manual – n° 5: Developing a Community Fishing Area Management Plan. [2018. Guidelines. Online]. Ref. 131
- Fisheries management: community-based fisheries management approach. [2017. Technical report. Online]. Ref. 327
- Guidelines for Community Fisheries demarcation, infrastructure and equipment. [2018. Guidelines. Not online]. Ref. 132
- Guidelines for Community Fisheries development in Cambodia. [2018. Guidelines. Not online]. Ref. 133
- Guidelines for implementation of small-scale infrastructure projects. [2018. Guidelines. Not online]. Ref. 134
- Livelihoods enhancement manual. [2018. Guidelines. Not online]. Ref. 135



### 9.3.6. Policy

#### Regulation analysis

- FishCounts – Increasing the visibility of small-scale fisheries (SSFs) in Cambodia’s national planning. [2020. Technical report. Online]. Ref. 22
- Impacts and implications of deep fisheries reforms on the governability of small-scale fisheries in Tonle Sap Lake, Cambodia. [2015. Book / book chapter. Online]. Ref. 185

#### Policy recommendations

- Eligibility assessment of Cambodia's fisheries sector policy for 2019 EU budget support payment. [2019. Technical report. Not online]. Ref. 26
- Legislating for sustainable small-scale fisheries – a guide on how to align national fisheries legislation to the Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the context of food security and poverty eradication. [2020. Guidelines. Online]. Ref. 106

### 9.3.7. Others

- Application of GIS and remote sensing for advancing sustainable fisheries management in Southeast Asia. [2018. Regional article. Online]. Ref. 468
- Competition on use of water resources with other sectors. [2017. Technical report. Online]. Ref. 269
- Demographic change in Asian fishing communities – drivers, outcomes and potential impacts. [2020. Book / book chapter. Online]. Ref. 384
- Freshwater fishes of the Kingdom of Cambodia (in Khmer). [2016. Book / book chapter. Not online]. Ref. 59
- Improving rural services for small-scale fisheries using a technological platform approach. [2019. Technical report. Online]. Ref. 326
- Japanese Trust Fund Project report (JTF6 Phase-I). [2020. Technical report. Online]. Ref. 379
- Standard operating procedure for collection and preservation of DNA tissue samples. [2016. Guidelines. Online]. Ref. 459

#### Multiple themes

- A Strategic Environmental Assessment of Strategic Planning Framework for Fisheries (SPF)-2010-2024 in Cambodia [2017. Technical report. Online]. Ref. 95
- Completion Report: SEAFDEC-Sweden collaborative project Fisheries and habitat management, climate change and social well-being in Southeast Asia 2013-2019. [2020. Technical report. Online]. Ref. 377
- Fishery resource enhancement: an overview of the current situation and issues in the Southeast Asian region. [2016. Technical report. Online]. Ref. 210
- Impacts of climate change on fisheries and aquaculture: synthesis of current knowledge, adaptation and mitigation options. [2018. Technical report. Online]. Ref. 27
- Increasing the benefits and sustainability of irrigation through the integration of fisheries: a guide for water planners, managers and engineers. [2020. Guidelines. Online]. Ref. 287
- Proceedings of the end of project meeting: Fisheries and habitat management, climate change and social well-being in Southeast Asia (2013-2019). [2019. Technical report. Online]. Ref. 371
- Report of the experts meeting on Mekong cooperation on fisheries, aquatic resources and wetlands: 20-year lessons learnt. [2015. Technical report. Online]. Ref. 345
- Social protection and sustainable natural resource management: initial findings and good practices from small-scale fisheries. [2015. Technical report. Online]. Ref. 29
- The effect of COVID-19 on fisheries and aquaculture in Asia. [2020. Technical report. Online]. Ref. 107
- Vulnerability of fisheries to climate change and natural disasters. [2017. Technical report. Online]. Ref. 434

#### Miscellaneous

#NA

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- A manual for community fish refuge-rice field fisheries system management in Cambodia. [2019. Online]. Ref. 195
- ASEAN Regional Plan of Action for the management of fishing capacity (RPOA-Capacity). [2017. Online]. Ref. 351
- Assessing water availability and economic social and nutritional contributions from inland capture fisheries and aquaculture: an indicator-based framework – a compilation of water-related indicators in selected African and Asian countries [2017. Online]. Ref. 289
- Definition of fully functional Community Fisheries [2018. Not online]. Ref. 126
- Fisheries co-management training manual – n° 1: Establishing a Community Fishery. [2018. Online]. Ref. 127
- Fisheries co-management training manual – n° 2: Strengthening the Community Fishery. [2018. Online]. Ref. 128
- Fisheries co-management training manual – n° 3: Strengthening Community Fishery Committees. [2018. Online]. Ref. 129
- Fisheries co-management training manual – n° 4: Strengthening Fisheries Administration Cantonments. [2018. Online]. Ref. 130
- Fisheries co-management training manual – n° 5: Developing a Community Fishing Area Management Plan. [2018. Online]. Ref. 131
- Guidelines for community fish refuge-rice field fisheries system management in Cambodia. [2019. Online]. Ref. 196
- Guidelines for Community Fisheries demarcation, infrastructure and equipment. [2018. Not online]. Ref. 132
- Guidelines for Community Fisheries development in Cambodia. [2018. Not online]. Ref. 133
- Guidelines for implementation of small-scale infrastructure projects. [2018. Not online]. Ref. 134
- Guidelines for transboundary environmental impact assessment in the Lower Mekong Basin (Working Document). [2018. Online]. Ref. 258
- Increasing the benefits and sustainability of irrigation through the integration of fisheries: a guide for water planners, managers and engineers. [2020. Online]. Ref. 287
- Index of 99 Latin-Khmer and Khmer-Latin fish names. [2019. Not online]. Ref. 117
- Legislating for sustainable small-scale fisheries – a guide on how to align national fisheries legislation to the Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the context of food security and poverty eradication. [2020. Online]. Ref. 106
- Livelihoods enhancement manual. [2018. Not online]. Ref. 135
- Mekong ecosystem environmentally sensitive development manual. [2015. Online]. Ref. 426
- MRC guidelines for hydropower environmental impact mitigation and risk management in the Lower Mekong mainstream and tributaries vol. 1 [2019. Online]. Ref. 264
- MRC guidelines for hydropower environmental impact mitigation and risk management in the Lower Mekong mainstream and tributaries vol. 2 [2019. Online]. Ref. 265
- Practical guide for gender analysis in small-scale fisheries and aquaculture in Southeast Asia. [2020. Online]. Ref. 380
- Recommended actions to implement the ASEAN guidelines for preventing the entry of fish and fishery products from IUU fishing activities into the supply chain. [2017. Online]. Ref. 361
- Regional guidelines on cold chain management of fish and fishery products in ASEAN region. [2019. Online]. Ref. 372
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- Species sightings protocol. [2020. Not online]. Ref. 268
- Standard operating procedure for collection and preservation of DNA tissue samples. [2016. Online]. Ref. 459
- Standard Operating Procedures (SOP) sharks, rays and skates data collection in the Southeast Asian waters. [2017. Online]. Ref. 366
- Standard Operating Procedures for data collection and analysis of neritic tunas. [2016. Online]. Ref. 350

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- 2 Abdul Razak Latun, Mazalina Ali, Mohd Tamimi Ali Ahmad, Masaya Katoh. 2016. Boosting national mechanisms to combat IUU fishing: Dynamism of the Southeast Asian fisheries sector. *Fish for the People*. 14; 1; 36-43.
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Overall, research in the Cambodian fisheries sector is lively and productive. The information generated, often of high quality, is not yet fully accessible nor used for decision-making, but the potential is major and offers bright perspectives.

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