Creating space for fishermen’s livelihoods: Anlo-Ewe beach seine fishermen’s negotiations for livelihood space within multiple governance structures in Ghana
Kraan, M.L.

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Appendix 1

Overview of the gears used in the artisanal fishing sector in Ghana, showing the mesh size, crew size, sea area, regional area, period and target species.

<table>
<thead>
<tr>
<th>Fishing gear</th>
<th>Principal mesh size (mm)</th>
<th>Crew size</th>
<th>Sea area</th>
<th>Regional area</th>
<th>Period</th>
<th>Target Fish Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cast net</td>
<td>25-45</td>
<td>1-2</td>
<td>Shallow waters of sea and lagoon</td>
<td>All coastal areas</td>
<td>Year*</td>
<td>Tilapia, Mullet, Bonga</td>
</tr>
<tr>
<td>Set gillnet (toga/tenga)</td>
<td>40-50</td>
<td>2-6</td>
<td>Bottom</td>
<td>All coastal areas, except Volta Region</td>
<td>Year</td>
<td>Threadfins, Grunts, Ilisha</td>
</tr>
<tr>
<td>Set gillnet (tenga adado)</td>
<td>50-55</td>
<td>4-6</td>
<td>Bottom</td>
<td>Central Region</td>
<td>Mar-May Oct-Jan</td>
<td>Sea Breams, Grunt, Sardinella</td>
</tr>
<tr>
<td>Set gillnet (ashoo)</td>
<td>30-40</td>
<td>2-4</td>
<td>Bottom</td>
<td>Restricted to Nungua in Greater Accra Region</td>
<td>Year</td>
<td>Juvenile of Threadfin, Bigeye, Grunter, Mojarras</td>
</tr>
<tr>
<td>Set gillnet (tengirafa)</td>
<td>75</td>
<td>4-6</td>
<td>Hard bottom</td>
<td>All coastal areas, except Volta Region</td>
<td>Oct-Mar</td>
<td>Catfish, Common Sea Bream, Croakers, Tongue Sole, Dogfish, Molluscs</td>
</tr>
<tr>
<td>Set gillnet (soli-yaa)</td>
<td>60</td>
<td>4-5</td>
<td>Shallow waters</td>
<td>Accra area</td>
<td>Oct-Mar</td>
<td>Sole, Red Pendora, Blue-spotted Sea Bream, Molluscs</td>
</tr>
<tr>
<td>Set gillnet (nyaa-yaa /kotorboa / lobster net)</td>
<td>80-125</td>
<td>3-4</td>
<td>Hard rocky bottom</td>
<td>Parts of Greater Accra Region and eastern parts of Central Region</td>
<td>Nov-Mar</td>
<td>Lobster, Sharks, Rays, Molluscs</td>
</tr>
<tr>
<td>Driftnet (obue-man ali net)</td>
<td>45-50</td>
<td>7-12</td>
<td>Surface inshore</td>
<td>Greater Accra Region and Central Region</td>
<td>Year</td>
<td>Sardinella</td>
</tr>
<tr>
<td>Driftnet (flikilo-yaa)</td>
<td>50</td>
<td>4-6</td>
<td>Surface inshore</td>
<td>Parts of Greater Accra Region and Volta Region</td>
<td>Oct-Mar</td>
<td>African Half Bleak, Flat Needlefish, Atlantic Flying Fish, Sardinella, Club Mackerel</td>
</tr>
<tr>
<td>Driftnet (nifa-nifa)</td>
<td>100-200</td>
<td>4-6</td>
<td>Surface inshore</td>
<td>Parts of Greater Accra Region, Central Region and Western Region</td>
<td>Jan-Dec</td>
<td>Shark, Ray Mantra, Tunas (Yellowfin, Bigeye, Skipjack), Atlantic Little Tuna, Sailfish, Swordfish</td>
</tr>
<tr>
<td>Method</td>
<td>3-5</td>
<td>3-5</td>
<td>Surface</td>
<td>Central region</td>
<td>Jan-Dec</td>
<td>Juvenile Sardinellas</td>
</tr>
<tr>
<td>-------------------------------</td>
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<td>--------------------</td>
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<td>----------------------</td>
</tr>
<tr>
<td>Driftnet (libias / sika-ye-abrantie)</td>
<td>31</td>
<td>3-5</td>
<td>Surface</td>
<td>inshore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Encircling gillnets (aborketeo / kokole-yaa / kokore-boa, shad net)</td>
<td>55-60</td>
<td>3-5</td>
<td>Surface</td>
<td>inshore</td>
<td></td>
<td>Bonga</td>
</tr>
<tr>
<td>Seine net (beach seine)</td>
<td>50-60</td>
<td>30-50</td>
<td>Surface</td>
<td>to bottom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purse seine net (watsa – poli)</td>
<td>38-50</td>
<td>18-25</td>
<td>Surface</td>
<td>inshore</td>
<td></td>
<td>Horse Mackerel, Grunt, Ilisha, Threadfin, Anchovy, Sardinellas, Mackerel Scad</td>
</tr>
<tr>
<td>Hooks and line</td>
<td>1-2</td>
<td>1-2</td>
<td>Rocky</td>
<td>bottom, surface, inshore and offshore</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Traps</td>
<td></td>
<td></td>
<td>Bottom of</td>
<td>lagoons, shallow estuaries</td>
<td>All four coastal regions</td>
<td>Year</td>
</tr>
</tbody>
</table>

* year = used all year through.

The table shows the ethnic-technical specialisation, yet not so clear as one might expect but that is because the table does not mention the main ethnic groups but regions. And due to internal migration most ethnic groups operate in all coastal regions (see Chapter 3).
Appendix 2

Research questions, questionnaires and household survey

Research questions

Migration
1. Why do fishers migrate?
2. Where do they migrate to?
3. Since when have they been migrating?
4. How is their migration organised?
5. What position do they have in the receiving settlement?
6. How do they get permission to stay and access to the fishing grounds?
7. What position do they have in the sending settlement?
8. What is the meaning / importance of their migration for the sending settlement?

Fisheries management
1. What forms of management can be distinguished in the research location:
2. Who are included and excluded in the process?
3. What kind of decision-making process is there?
4. And how does it take place; what are the regulating activities they undertake?
5. What objectives of management can be distinguished in the research location?
6. Why do they have these objectives?
7. Where do these objectives come from, what is the world-view behind it?
8. Can the objectives be realised (in theory, by implementing the management-scheme)?
9. Are the objectives realised in practice?
10. What is the intensity of management in the research location?
11. How important is it?
12. How is it supervised?
13. What are the amount of regulations and rules?
14. What are the rules in beach-seine fishing in the research location?
15. Where do these rules come from, who made them?
16. Why are these rules made?
17. Since when are these rules in existence?
18. How are the rules enforced?
19. What is the range of the rules (for whom do they apply and for where)?
20. How are these rules adhered to in actual practice?
21. Which rules are violated often and why?
22. What is done when rules are violated?
23. Does the violation of rules lead to conflicts?
24. How are these conflicts addressed and solved?

Anlo-Ewe
1. What is the history of the Anlo-Ewe?
2. What are the boundaries of the Anlo-Ewe group?
3. Who are the leaders of the Anlo-Ewe?
4. How are the Anlo-Ewe organised?
5. What is their position vis-à-vis the other ethnical groups in Ghana?

Beach seine fishers
1. How is it done / how is it organised?
2. What equipment/gear is used?
3. Who are the beach-seine fishers?
4. Since when have they been doing it?
5. Why have they been using this technique?
6. Where are they fishing?
7. What is the purpose of beach-seine fishing?
8. What is the meaning of beach-seine fishing?
9. When do they go fishing and what are the main seasons to be distinguished?

Research sites (Woe, Akosua Village)
1. What are the various neighbourhoods that can be distinguished?
2. Where do the fishermen and processors live?
3. What are the characteristics of fishermen’s households and what are the assets of fishermen’s households?
4. What facilities can be found?
5. What are the places of interest?
6. Why are these the places of interest?
7. How many inhabitants are there?
8. How many people have migrated to other places (percentage)?
9. Where have they migrated to?
10. Why have they migrated?
11. What does this migration mean to the village?
12. Are there any migrant-settlers in the village?
13. Where do they come from?
14. Why have they settled here?
15. What are the authority structures in the village?
16. How do these authority structures work down at lower levels and how are the linked to higher levels of authority?
17. What is the main ethnic group in this village?
18. What are the main religions practices in this village?
19. What is the importance / influence of these religions?
20. What are the main organisations that can be found in this village?
21. What is the importance of these organisations?
22. What economic activities can be found in this village?
23. What is the importance of these economic activities?
24. What are the natural assets of the village and its surrounding?
25. What is the importance of these natural assets?
26. What is the history of the village?
27. What is the position of the village in the larger District?
28. What is the position of the village in the ethnic area?
Questionnaire crewmembers companies

1. What is your name?
2. How old are you?
3. What is your ethnicity, your clan?
4. Are you married? If yes, how many wives, how old, what do they do for a living?
5. Do you have children? If yes, please indicate (per wife) their age and what they do (school, work)?
6. What is your education?
7. In which company are you now fishing?
8. For how long have you been fishing in this company?
9. Have you ever migrated with this company? If yes, where to, when and how long?
10. Have you ever fished in other companies? If yes, which, when, how long and where (origin and migration destination)?
11. Have you ever done other jobs? If yes, which? (or are you now also involved in other work, like farming)
12. What were (are) your grandparents and parents doing for a living, and where are they from (hometown, migration)?
13. What do you want for the future for yourself (in terms of work)?
14. What do you want your children to do (be doing)?
15. Who are your household members and what are the income deriving activities in the household?

Questionnaire net owners companies

1. What is your name?
2. How old are you?
3. What is your ethnicity, your clan, your hometown?
4. Are you married? If yes, how many wives, how old, what do they do for a living, where do they live?
5. Do you have children? If yes, please indicate (per wife) their age and what they do (school, work)?
6. What is your education?
7. What is the name / are the names of your company(ies)?
8. Since when do you have this / these company(ies)?
9. When did you start with this / these company(ies)?
10. Have you ever migrated with this / these company (ies)? If yes, where to, when and how long?
11. If not, why not?
12. How many nets (also dormant) do you have, how many boats, how many outboard motors? * if they are joint owned, please indicate with who * if they are not used / dormant please indicate why they are not used currently.
13. How did you become owner of this / these nets (built yourself or inherited)?
14. Have you ever fished yourself in other companies? If yes, which, when, how long and where (origin and migration destination)?
15. Have you ever done other jobs? If yes, which? (or are you now also involved in other work, like farming?)
16. What were (are) your grandparents and parents doing for a living, and where are they from (hometown, migration)?
17. What do you want for the future for yourself (in terms of work)?
18. What do you want your children to do (be doing)?
19. Who are your household members and what are the income deriving activities in the household?

Easter questionnaire (Home coming party in Woe)

Please tick: Male / Female
1. What is your name?
2. How old are you?
3. What is your marital status?
3a. If you are married, how many wives do you have?
4. How many children do you have?
5. What is your profession?
5a. What is the profession of your husband / wife(s)?
6. What is your hometown?
7. Where do you live in your hometown?
8. Where have you migrated to, what is your current address?
9. How long have you lived there?
9a. With who did you migrate to there?
9b. If your husband / wife(s) did not go with you, where are they now?
9c. If (some of) your children did not go with you, where are they now?
10. Have you ever migrated to other places (next to above mentioned)?
10a. If yes, where to?
11. Do you own any of the following, and specify how many? yevudor / boat / cast net / outboard motor / set net
12. How often do you annually visit Woe?
12a. On what kind of occasion is that? Easter / Christmas / Festival in October / Funeral / Marriage / Outdooring Ceremony / Other occasions (indicate which)
**Household survey – 1st part**

Name of village part: 
Name of respondent: 
Length of stay (of respondent) in Village: 
Migrated to:

<table>
<thead>
<tr>
<th>No (a)</th>
<th>Name hh member (b)</th>
<th>Sex (c)</th>
<th>Age (d)</th>
<th>Marital status (e)</th>
<th>Rel. to hh head (f)</th>
<th>Educ. level (g)</th>
<th>Profession (h)</th>
<th>Company / Net owner (i)</th>
<th>Other i.d.a. (j)</th>
<th>Religion (k)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tr>
</tbody>
</table>

a) No: household head gets number one 

b) **Name household member**: fill in the names of the household members 

c) **Sex**: M = male, F = female 

d) **Age**: if the respondent is not sure, fill in an estimation and add ± 

e) **Marital Status**: S = single, M = married, D = divorced or separated, W = widowed 

f) **Relation to household head**: S = spouse, C = child, G = grandchild, Si = sibling, P = parent, O = other kin, N = non kin 

g) **Educational Level**: I = illiterate, P = primary school, JSS = Junior Secondary School, SSS = Senior Secondary School, V = Vocational Training, U = University (NB: if not completed, add the number of years that were completed > fi. P3 (primary school third year completed) 

h) **Profession**: NA = not applicable, F = fisherman, N = net owner, P = processor, T = trade, O = other (NB: add what) 

i) **Company / Net owner**: if the hh member is Fisherman or Net owner under (h), add in which company he fishes or who the net owner is of the company where he fishes (most). 

j) **Other income deriving activities**: apart from the profession which generates income, are there any other i.d.a.? 

k) **Religion**: C = Christian, T = Traditionalist, M = Muslim, O = other
Facilities of the household

1. Do you have electricity or a generator on your household compound? Yes / No
2. Do you have a water pipe or well on your household compound? Yes / No
2a. If no, where do you fetch your water? ..............................................................
3. Do you have toilet facilities on your household compound? Yes / No
3a. If no, where do you go to instead?
   beach / public toilet / bush..............................................................

4. Do the members of the household own any of the following:

<table>
<thead>
<tr>
<th>Assets</th>
<th>Amount</th>
<th>Who owns *</th>
<th>Commercial **</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoking oven</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas stove</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Refrigerator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canoe</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Outboard motor</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Yevudor</td>
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<td></td>
<td></td>
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<tr>
<td>Lagoon yevudor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lybia</td>
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<td></td>
<td></td>
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<tr>
<td>Cast net</td>
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<td></td>
<td></td>
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<tr>
<td>Coconut tree</td>
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<td></td>
<td></td>
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<tr>
<td>Cat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dog</td>
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<td></td>
<td></td>
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<tr>
<td>Goat</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Poultry</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Sewing machine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Car</td>
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<tr>
<td>Bicycle</td>
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<td>Radio</td>
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<tr>
<td>Television</td>
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</tr>
</tbody>
</table>

* If it is for a specific hh member, state the number of the owner. If it is for general use in the household, state hh.
** If it is used for commercial use, please explain what it is used for. If left open it is presumed to be for private use only.

5. If you / the household owns a yevudor, are you currently using it? Yes / No
Appendix 3


OFFICIAL RECEIPT

Received from KOFI AKPABIL
the sum of EIGHTY THOUSAND Cedis
being PAYMENT OF MPOANO/NSA FOR THE PERIOD 2004 SEASON
by Cash/Cheque No.

Signature
Appendix 4
Keta District CBFMC Bylaws

Preamble: The ………………………………….. CBFMC is hereby authorised and empowered by the KETA DISTRICT ASSEMBLY as from the ……….day of ……….2000 to use the following bye laws as part of the CBFMC constitution to safe guard the fish stock fishing and activities in the community.

* THE CBFMCs SHALL BE RESPONSIBLE FOR THE ENFORCEMENT OF THESE BYE LAWS

1. CONSERVATION OF FISH STOCK

<table>
<thead>
<tr>
<th>Using chemicals and poisons</th>
<th>(i)</th>
<th>The use of chemicals or poisons is prohibited. Offenders shall be liable to a fine including burning of the fishing gear and cash of One hundred thousand cedis.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hauling and landing of fish juveniles</td>
<td>(ii)</td>
<td>The hauling and landing of fish juveniles apart from Abobi ashore is banned. Perpetrators will be fined Five hundred to One million cedis.</td>
</tr>
<tr>
<td>Use of prescribed net</td>
<td>(iii)</td>
<td>The use of beach seines and nets with mesh size less than 25mm or 1 inch is forbidden. Offenders will be prosecuted at court.</td>
</tr>
<tr>
<td>Close season</td>
<td>(iv)</td>
<td>Close season will be imposed from time to time by the CBFMC in consultation with DOF. Offenders will be arrested and prosecuted.</td>
</tr>
<tr>
<td>Protection of sea turtle</td>
<td>(v)</td>
<td>Anyone caught in possession or harming the Sea turtle or any other endangered species shall be prosecuted.</td>
</tr>
<tr>
<td>Use of dynamites</td>
<td>(vi)</td>
<td>The use of dynamites and any other explosives in fishing is prohibited. Perpetrators will be prosecuted at court.</td>
</tr>
</tbody>
</table>

2. CONFLICT ALLEVIATION

<table>
<thead>
<tr>
<th>Fighting</th>
<th>(i)</th>
<th>Fighting of any sort either at sea or at beach is prohibited. Offenders will be fined a sum of money ranging from twenty thousand to one hundred thousand cedis.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conflict among vessels/canoes</td>
<td>(ii)</td>
<td>Conflicts between two canoes and/or will attract one hundred thousand cedis each before arbitration by CBBFMC and fifty thousand cedis if the case is later withdrawn.</td>
</tr>
<tr>
<td>Two groups casting net one after the other</td>
<td>(iii)</td>
<td>If one fishing group encounters a shoal of fish and cast their net and a second group casts their net behind the first one the second group shall give one-third of their catch to the first group. Failure to do so will attract a fine up to one hundred thousand cedis.</td>
</tr>
<tr>
<td>Retrieving of items</td>
<td>(iv)</td>
<td>Any fishing input or item found or retrieved either at sea or at the beach shall be lodged with the CBFMC within the first three days from discovery. The chief fisherman shall then look for the owner through the appropriate means of announcement. Defaulters will be fined fifty thousand to four thousand cedis.</td>
</tr>
<tr>
<td>Compensation</td>
<td>(v)</td>
<td>An appropriate compensation determined by the owner and the CBFMC depending on the item retrieved shall be given to the founder/owner after a period of time.</td>
</tr>
<tr>
<td>Cursing and invoking the wrath of gods</td>
<td>(vi)</td>
<td>Any person or a group of persons who curse by the gods or invokes the wrath of gods in one way or the other on another person or a group of persons shall be liable to an offence punishable to a fine fifty thousand to two hundred thousand cedis in addition to two crates of schnapps, one gallon of akpeteshie, two sheep and one goat.</td>
</tr>
<tr>
<td>(vii)</td>
<td>Any person or a group of persons who by their action damage fishing inputs or any article belonging to another person or a group of persons shall be made to replace such items and also pay a fine of fifty thousand cedis to the CBFMC.</td>
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Casting net over already cast net (viii) It is an offence for any group of fishermen to cast their net over net already cast by another group of fishermen. Offenders shall be fined forty thousand cedis.

Carting of fish to land (ix) Should any fisherman haul in more fish than he could load onto his canoe and gives part of it to another fisherman to cart to land, the quantity of fish landed by the helper shall be equally shared between them. Offenders shall pay One hundred to four hundred thousand cedis.

3. SANITATION AT THE BEACH

Making the beach insanitary (i) Any person or group of persons who by their action create any insanitary condition at the beaches commits an offence. Offenders will be fined five thousand to fifty thousand cedis and in addition removed the unwanted material.

(ii) Any fisherman who leaves his abandoned or unserviceable canoe at the beach shall be charged fifty thousand cedis whilst he will be given time to remove the debris. *OR the committee shall remove the debris at the expense of the owner of such debris.

4. SECURITY AND SAFETY AT SEA

Carrying of harmful articles to fishing (i) Apart from fishermen operating drift gill net ‘nifa nifa’ and the hook and line, no fisherman is permitted to carry cutlass, missiles, club or any harmful article to sea or fishing grounds. Offenders shall pay a fine of fifty thousand to one hundred thousand cedis.

Refusal to assist at sea (ii) Any fisherman or a group of fishermen who ignore or refuse the appeal for help or turn down the invitation for help of fisherman who is facing problems at sea due to mechanical fault of the outboard motor being used or entangling of the net resulting in immobility commits an offence. Offenders shall pay a fine of fifty thousand to one hundred thousand cedis.

Going to sea alone (iii) It is an offence for one man to go to sea. Any one found will be fined fifty to one hundred thousand cedis.

Drunkenness (iv) No fisherman shall get drunk when going to sea. Offenders will be fined twenty thousand cedis.

Carrying of paddles to sea (v) No fisherman or a group of fishermen shall go to sea without oars or sails. Offenders shall be fined fifty thousand cedis.

5. CONDUCT AT BEACH AND SEA

Restrict movement of fismongers (i) Fish carriers and fishmongers are not to meet any canoe on its way to shore in attempt to transact business. *Offenders will be fined fifty thousand cedis.

Registration of canoes (ii) Any canoe which has not got registration number embossed on it shall not be allowed to fish* or operate at the beach.

Interfering (iii) Any person found interfering with the discharge of fish by another person or group will be guilty of an offence. The person will be fined twenty thousand cedis.

Sale of narcotic drugs (iv) Sale of India hemp or *any narcotic drug is prohibited. Offenders will be prosecuted at court.

Compliance (v) Any migrant fisherman who does not comply with the norms of the community shall *not be allowed to operate at the beach.

Carrying of fishmongers to sea (vi) Any fisherman who ferries any fishmonger to transact business on sea or lake will be fined two hundred thousand cedis, a sheep and a crate of schnapps.
### Heeding to chief fisherman’s call (vii)

Any person who fails to attend to a lawful call of the chief fisherman shall be fined five thousand cedis for fishmongers and then thousand cedis for canoe owners. *A lawful call shall be constructed to mean a call to discuss matters concerning fishing, the welfare of the community and these bye laws.

### 6. STEALING CASES

#### Stealing of fish

(i) Any person who steals fish irrespective of the quantity shall be guilty of offence. Offenders shall be fined fifty thousand cedis.

(ii) *Parents of children caught stealing will be made to twenty thousand cedis.

### 7. FISHING HOLIDAYS

#### Fish holiday

(i) There shall be no fishing whatsoever on Wednesdays. *Offenders shall be fined four hundred thousand cedis.

#### Strange canoes at beach

(ii) Any strange canoe landing at the beach on Wednesdays shall give one painful or crate of fish in every ten crates of fish to the CBFMC else will not be allowed to off-load.

### 8. LEVIES

(i) Any strange canoe landing at the beach on fishing days shall give one crate of fish to the CBFMC. Failure to give, the canoe will not be allowed to discharge its catch.

(ii) Every group of fishermen is to give one pan full or a crate of fish to in every twenty crates or pans of fish to the CBFMC.

(iii) Special levy shall be imposed on every fisher and fishmonger from time to time as the need arises. Defaulters shall be fined one hundred thousand cedis in addition to the imposed levy.

### 9. CHILDREN INVOLVEMENT IN FISHING

(i) It is prohibited for all school going children to go to sea during shool hours irrespective of shift system. Parents of any child seen will be made to pay a fine of then thousand cedis per child.

(ii) Children below the age of 15 shall not be allowed to go to sea. Boat and canoe owners who contravene this law shall be fined fifty thousand cedis.

* The CBFMC shall render accounts to the District Assembly twice in every year.