

SECTION 6

SAMPLING METHODS FOR THE FISHERIES AND AQUACULTURE SURVEYS

-- INTRODUCTION

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Sachiko TSUJI

- Senior Fishery Statistician
Food and Agriculture Organization of the United Nations (FAO)
- Secretariat of Coordinating Working Party on Fishery Statistics (CWP)
 - Japanese
 - FAO since 2005
 - SEEA Fish asset development
 - Fisheries and aquaculture census survey
 - Water use indicator for fisheries
 - Aquaculture statistics handbook
 - Assessment of sector contribution throughout value-chain
 - Fishery scientists specialized in tuna stock assessment

Main objectives:

- Introduction to overall concepts utilized in fisheries and aquaculture surveys and data needs for sector management
 - General overview – not going into the details
 - If necessary, contact with FAO/ FI for further technical assistance
- Focusing on surveys for small scale operations
- Integration of fisheries and aquaculture surveys in National Statistical survey systems
- Focusing on principles toward resolving questions
 - Sharing experiences – success and challenges
- Things not covered by the course:
 - Surveys for stock assessment (tagging, scientific surveys, line-transect, acoustic surveys, biological samplings etc)
 - Assessment of status of natural resources – fish stocks, water

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Overview :

- Section 6.1 Basic concepts:
 - General situation – strength and weakness
 - Definitions of basic concepts, terminologies
 - Minimum core data
- Section 6.2 Sampling designs:
 - Capture fishery – landing survey
 - Aquaculture
 - Surveys for other data collection
- Section 6.3 Estimation of indicators:
 - Global Strategy core data, stock monitoring, SEEA, SDGs
- Section 6.4 Facilitation tools:
 - Satellite imageries; DB integration - mapping tools; Google
- Section 6.5 Tips for fields operation:
 - Non-sampling errors; cost-accuracy balance; objective-focus;

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Session structure:

- One session – one item
- Lecture (30 - 40 minutes)
 - General introduction of issues, concepts, procedures
 - Standard classifications
 - Q/A
- Group discussion (15 minutes)
- Country presentation (Maldives, Indonesia, Fiji, Samoa)
- Plenary discussion on items identified at group discussions (20 minutes)

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Group:

Group I -- Mainly marine :

Fiji, Georgia, Maldives, Pakistan, Papua New Guinea, Samoa

Group II -- Mainly inland :

Afghanistan, Bhutan, Cambodia, Lao

Group III -- Both inland and marine:

Bangladesh, Indonesia, Myanmar, Sri Lanka, Viet Nam

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