

SEEA Flow Accounts for Fisheries: Experiences from the Seychelles

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Julie L. Hass, Ph.D.



3 Topics for discussion:

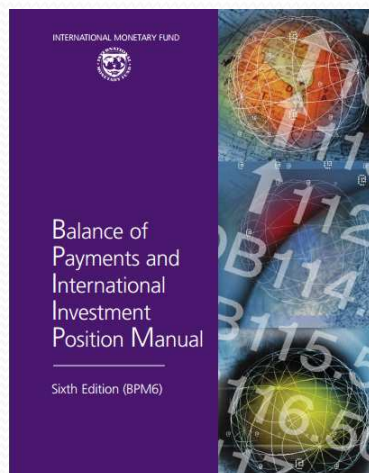
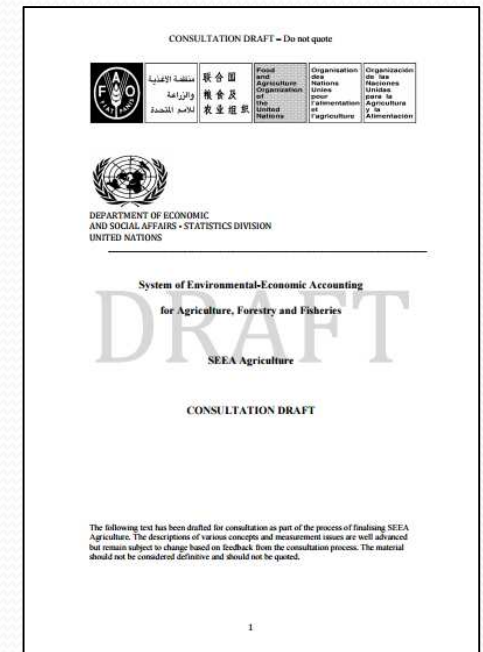
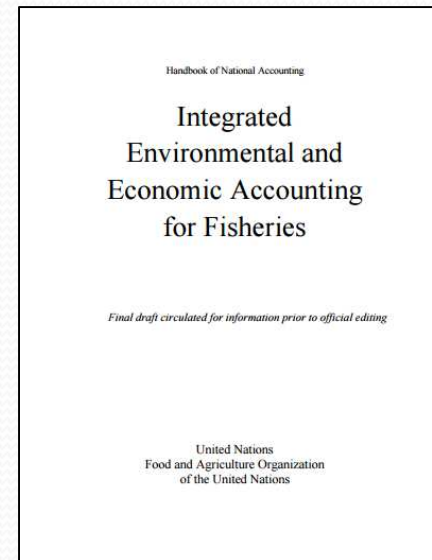
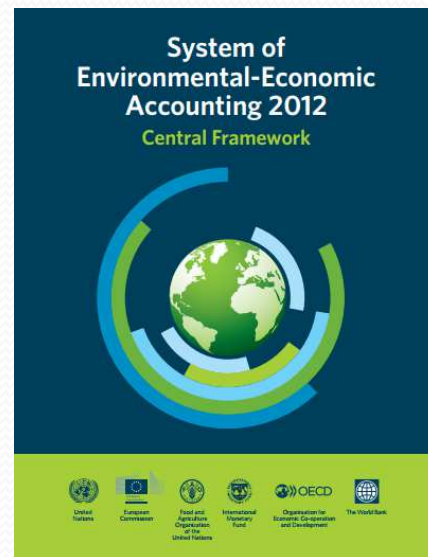
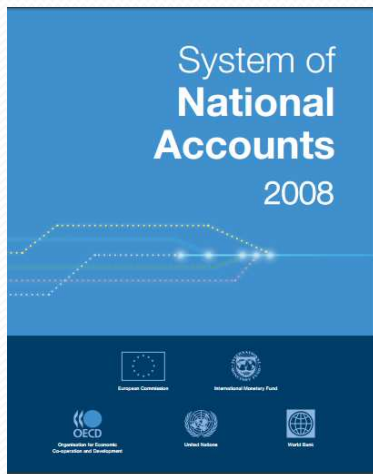
- Inconsistencies between FAO Fish statistics, Trade statistics for fish and National Accounts /BoP
- Physical Supply and Use Tables of SEEA-AFF vs. SEEA-CF 2012 PSUT. Why is a new format proposed?
- Need for defining fishing and fishing related activities
 - for economies where fishing is important (for example, SIDS – small island developing states)





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Relevant manuals...



Example from the Seychelles...



- Fishing Vessels:
- Ownership: Taiwan R.O.C.
- Registration /Flag: Seychelles
- Landings in Japan

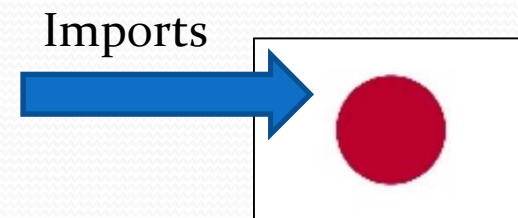
How are these activities recorded?

In the international trade statistics...

- Trade statistics record according to vessel registration (also called 'flag')
- Trade Statistics for Japan... Imports from Seychelles
- Trade Statistics for Seychelles... Since the fish were landed from the vessel directly to Japan, customs in Seychelles was not involved – so there is no corresponding export from Seychelles to Japan.



No exports



How are these activities recorded?

In FAO's fish statistics...

- For FAO reporting:
- Similar to the trade statistics... landings are recorded according to flag of fishing vessel – so imports to Japan from Seychelles with no mirror export from Seychelles to Japan.



How are these activities recorded?

In the national accounts...

- Seychelles has the responsibility to monitor all vessel activities for vessels registered (flagged) in the Seychelles.



- The economic activities of the fishing vessels are to be recorded to the country where they are considered «resident» which typically is country of ownership.
- In this case... Taiwan.






To summarize...

- There are imports to Japan from Seychelles
- There are NO exports to Japan from Seychelles
- There is no economic activity recorded for the vessels in the Seychelles – so no economic activity that would be connected to the imports to Japan from the Seychelles.
- The economic activity for the fishing vessels is recorded in the national accounts for Taiwan but there are no exports from Taiwan related to this activity.



Other challenges...

- Fish caught in Seychelles EEZ – should be considered ‘national production’ (SNA) but if a foreign-flagged fishing vessel catches the fish and lands them in the Seychelles, customs and trade statistics consider them as ‘imports’ from the country of the vessel’s flag.
- Transshipments – occur when a catch is transferred from one ship to another. Can be fish caught in Seychelles EEZ – so national production. But there is a transfer of cargo, without going through customs – Cargo ship may not be the same ownership or flag of the fishing vessel.



Need to make some clear
recommendations for
countries to follow?

Topic 2.

SEEA-CF PSUTs vs. SEEA-AFF SUTs

SEEA-CF: Physical Supply and Use Table

– extended to include the environment

Table 2.2
Basic form of a physical supply and use table

	Industries	Households	Accumulation	Rest of the world	Environment	Total
Supply table						
Natural inputs					Flows from the environment	Total supply of natural inputs
Products	Output			Imports		Total supply of products
Residuals	Residuals generated by industry	Residuals generated by final household consumption	Residuals from scrapping and demolition of produced assets			Total supply of residuals
Use table						
Natural inputs	Extraction of natural inputs					Total use of natural inputs
Products	Intermediate consumption	Household final consumption	Gross capital formation	Exports		Total use of products
Residuals	Collection and treatment of waste and other residuals		Accumulation of waste in controlled landfill sites		Residual flows direct to environment	Total use of residuals

Note: Dark grey cells are null by definition. Blank cells may contain relevant flows, which are explained in detail in chapter III.

https://unstats.un.org/unsd/envaccounting/seeaRev/SEEA_CF_Final_en.pdf

SEEA-AFF SUT (Supply)

SUPPLY TABLE		Output							Imports			Total supply	
		Capture fisheries			Aquaculture			Other catch	Total Output	Food use	Non-food use		Total imports
		Gross catch	Discarded catch	Nominal catch	Harvest	Harvest loss	Nominal harvest						
Fish and other aquatic products													
Fish	Freshwater fish												
	Diadromous fish												
	Demersal fish												
	Tunas, bonitos, billfishes												
	Other pelagic fish												
	Marine fish, other												
Crustaceans													
Molluscs	Cephalopods												
	Other molluscs excl cephalopods												
Aquatic animals, other	Marine mammals												
	Reptiles												
	Other aquatic animals												
	Pearls, sponges and corals												
Aquatic plants, algae	Algae												
	Macro plants												

SEEA-AFF SUT (Use)

USE TABLE		Intermediate consumption		Household final consumption			Changes in inventories		Exports			Total use
		Feed	Other uses	Food consumption	of which: Food waste	Other uses	Post-harvest/catch losses	Other changes	Food use	Non-food use	Total Exports	
Fish and other aquatic products												
Fish	Freshwater fish											
	Diadromous fish											
	Demersal fish											
	Tunas, bonitos, billfishes											
	Other pelagic fish											
	Marine fish, other											
Crustaceans												
Molluscs	Cephalopods											
	Other molluscs excl cephalopods											
Aquatic animals, other	Marine mammals											
	Reptiles											
	Other aquatic animals											
	Pearls, sponges and corals											
Aquatic plants, algae	Algae											
	Macro plants											



SEEA-CF PSUTs vs SEEA-AFF SUTs

- Differences...
- AFF SUTs do not explicitly include the environment
- Discarded catch is recorded by species (which is not possible) and included in «supply» table
- By catch is not really a product in SNA terms – so why is it included in the supply table?
- Statistics are stronger on supply than on use – but when trying to develop ‘use’ – most ‘waste’ was used for fish meal
- Hard to identify the roles of industries (fishing, fish processing) and households with the AFF SUT.

Why not use the SEEA-CF PSUT in SEEA-AFF?

Activity Accounts for Fish



Need Activity Accounts for Fishing

- Countries where fishing is a substantial activity in the country, it is important the the fishing activities and the fishing-related activities are identified – in separate accounts (like tourism satelite accounts).
- SEEA-AFF (2015 draft) – by design – only proposes very limited activity accounts for fishing.
- The IEEA-F (2004 also known as SEEA-F) makes more extensive recommendations – but these are outdated due to revisions to ISIC and other product and activity classifications.

Consider updating IEEA-2004?

- Need to include recommendations on...
- Fishing and related activities – from ISIC
- Taxes, subsidies, license fees, tradeable permits
- Resource management and environmental protection expenditures (by CEPA and CREMA)
- The OECD advocates establishing comprehensive satellite accounts – which go beyond fishing...



**Need updated guidelines
for countries to follow for
establishing activity
accounts for fishing!**

Thank you for your attention!



Julie L. Hass, Ph.D.
email: JLHASS@gmail.com