

ASIAPACIFIC-FISHWATCH CONCEPT AND THE WOLF HERRINGS (CHIROCENTRUS SPP) AS EXAMPLE

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Consumer information on fish is a well kept secret in Asia-Pacific

- Asian Fisheries Society is starting AsiaPacific-FishWatch, an online project to
 - ... explain about Asia-Pacific fish products eaten locally and in major world markets
 - ... provide authoritative, accessible information for consumers, the general public, fish exporters and importers, fisheries managers, aquaculturists, fishers and scientists



Photo: New Straits Times 6 July 2008

Fish Facts for All



Fish buyer making a decision, Pasar Berserhati, Manado Photo: M. Williams

- People could use information that is
 - accessible and authoritative
 - addresses their concerns on
 - price
 - safety
 - nutrition
 - sustainability
 - food security, fair trade

A Focus on people



Yellowfin tuna, Pasar Berserhati, Manado Photo: P. Kailola

- From the water to the mouth
 - and steps in between
 - including women's roles
- Different supply chains for different markets
 - fresh and processed local
 - distant urban
 - fresh and processed export
 - re-processed

Scope and scale



- Asia and western Pacific regions
- Initial priority on edible species
 - aquaculture and fisheries
- About 100 species/groups in 1st phase (1/3 of world fish)
- Criteria include
 - >100,000 t production
 - high value
 - at least top 3 producing countries

Wolf herrings as an example

- Clupeoid
- 2 species
 - Chirocentrus dorab
 - Chirocentrus nudus

Chirocentrus dorab

Dorab wolf herring



Chirocentrus nudus
White-finned wolf herring

Photos: J. Randall

The basic species structure

AsiaPacific-FishWatch

FISH FACTS FOR ALL

HOME ABOUT SPECIES/SPECIES GROUPS

Wolf herrings (Chirocentrus spp)

Wolf herrings - (Chirocentrus spp) < Pilot species - Work in Progress>

Photos: J.Randall (left: C. dorab; right: C. nudus)

Sustainability Identification & Biology Environment

Production

Trade

Top 3

countries

References & Links

Sourcing information



Fish seller, Goa, India Feb. 2010

- All information will be properly acknowledged
- FAO various, including FishSTAT
- FishBase, FishBOL,
- Scientific literature, books and other sources from Internet
- Personal expert contacts
- Observations in the field, market

Finding out what users want

- Short user questionnaire
 - 76 responses at 5 workshops (2009-11)
 - Soon to go online
 - What is the common name?
 - Have you eaten it and how?
 - Do you like eating it?
 - What would you like to know about it?

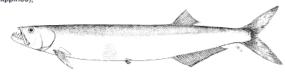
WOLF HERRINGS Chirocentrus dorab and C. nudus

Common names

Chirocentrus dorab: dorab wolf herring (FAO, Australia), blackfin wolf-herring, parang-parang (Indonesia, Malaysia, Philippines), ikan parang (Malaysia), golok-golok Indonesia, <u>Cá Dưa</u> and <u>Cá Rựa</u> (Vietnam), ??? Thailand



 Chironcentrus nudus: whitefin wolf herring (FAO, Australia), parang, parang-parang (Indonesia, Malaysia, Philippines),



Common group name wolf herrings

DESCRIPTION

Wolf herrings are long, highly laterally compressed fishes in the same group as herrings, sardines, pilchards, sprats, shads and anchovies. Wolf herrings are common coastal fish from the western Pacific (Solomon Islands) to east Africa.

Do you know this fish? Yes/No

What country do you currently live in? Country:

If Yes, what common name do you use for it in your country?

Name:

Country

Have you ever eaten it? Yes/No

If Yes, in what form did you eat it (e.g., in soup, fillet, fish ball, dried, etc)?

Where did you eat it and buy it (e.g., home, restaurant, buy from market, etc)?

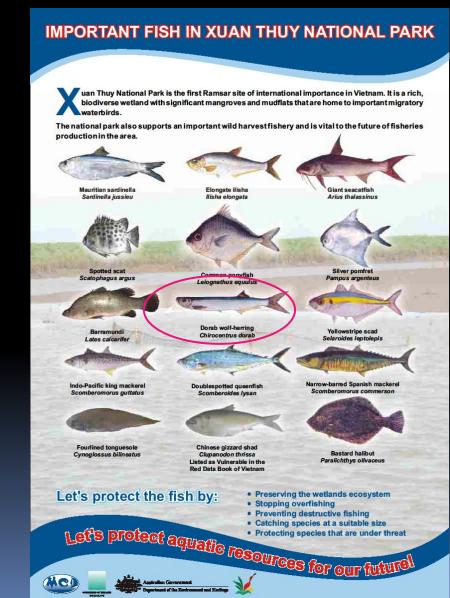
Do you like eating this fish and why?

As a consumer, what information would you like to have about this fish (e.g., its nutritional value, where it was caught, how, is it safe etc etc)?

When completed, please return to Meryl Williams

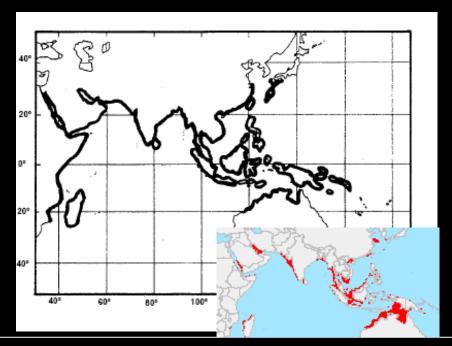
Info gaps and blind spots (1)

- Few countries report catch to FAO (9 only in 2008, 13 ever)
 - E.g., Vietnam does not report as species
- Total identified catch
 - 74,413 t (2008)
- Species confusion?
 - C. dorab (4 countries)
 - C. nudus (2 countries)
 - C. nei (unident.) (7 countries)

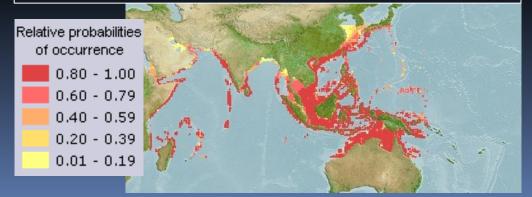


Info gaps and blind spots (2)

- Distribution not fully clear
 - FAO, OBIS etc.
 - Based largely on museum records
 - Missing east coast Australia,
 Fiji etc
 - FishBase
 - Some unreviewed estimates based on modeling suitable habitat ranges (Aquamaps)
 - Missing Fiji, offshore range likely too large

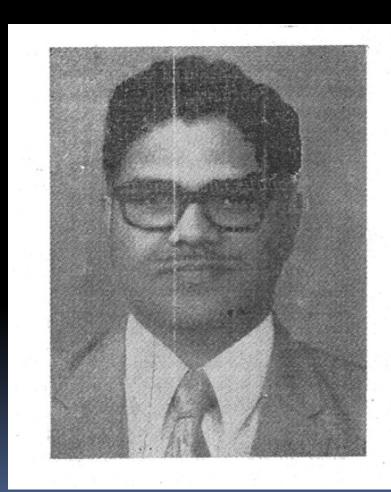


Above: FAO Species Synopsis, FIGIS (insert) Below: FishBase Aquamaps (unreviewed)



Species distinctions (1)

- Very difficult to distinguish species visually
- Most authoritative work done by Dr G Luther, CMFRI India
- Studied Chirocentrus spp in Gulf of Mannar, 1964-69
- Ph D and published papers in Indian journals (1980s)
 - J. mar. biol. Ass. India, etc
- Similar but different biologies
- 80% of catch was C. nudus



Species distinctions (2)

 Most articles simply refer to *C. dorab* or the 'dorab wolf-herring'

But

- 100% C. nudus at Penang local markets (2 years observations)
- E. coast Australia baitfish may be mainly *C. nudus*
- So what is the real species composition?



Chirocentrus nudus
Batu Lanchang fish market, Penang

Common and market names

- FAO: wolf-herring
- FishBase lists many common names
- AsiaPacific-FishWatch will distinguish the official market names in each country, e.g., ikan parang (Malaysia)



Wolf-herring among mixed fish Batu Lanchang market, Penang, 2011

A plethora of consumer options



A plethora of consumer options

- Also fresh, fried, dried, in soup, sashimi
- Differing views on taste (on balance highly positive)
- Bony but concept needs refining!
- High levels of poly-unsaturated fatty acids
- Also well-regarded recreational fish by anglers; and top baitfish for gamefish (Australia)



Dried wolf-herring, Medan market

Dec 2010

Production, trade, top 3 countries

- Caught in coastal drifting gill nets
- As officially reported
 - Indonesia
 - India
 - Thailand
 - Also Malaysia, Iran,
 Pakistan, Philippines,
 Saudi Arabia, Singapore
- Little international trade
 - Some product requests from China





Penang gill-net boats

Sustainability, environment

- Multi-species fisheries
- No stock assessments
 - But large specimens rare
- High trophic level feeder



Single large wolf-herring Batu Lanchang markets, Penang Feb 2010

http:/asiapacfishwatch.org/

AsiaPacific-FishWatch

FISH FACTS FOR ALL



Welcome to the new AsiaPacific-FishWatch site!

Posted on January 9, 2011 | Leave a comment

The <u>Asian Fisheries Society</u> is developing an online information system for Asia-Pacific fisheries and aquaculture products. This authoritative information system will engage the knowledge and expertise of hundreds of regional fisheries and aquaculture experts and all key institutions.

We are taking a whole of supply chain approach, covering information on sustainability, indentification and biology, environment, production, trade, details from the top 3 producing countries for each commodity/species group and giving up to date references and further links.

The previous site for AsiaPacifico-FishWatch is also still active and contains information on planning meetings and pilot species

(http://sites.google.com/site/fishwatchasiapacific/Home)

ASIAPACIFIC - FISHWATCH

Our aim is to explain Asia-Pacific fish products eaten locally and in major world markets through providing authoritative, accessible information for consumers, the general public, fish exporters and importers, fisheries managers and scientists. A project of the Asian Fisheries Society and partners.

RECENT POSTS

■ Welcome to the new AsiaPacific-FishWatch site!

ASIAPACIFIC -FISHWATCH TAG CLOUD

aquaculture Asia fisheries Pacific supply chain

SPECIES/SPECIES GROUP

Basa

Search

Wolf herrings

ARCHIVES

January 2011

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EXPERTS AND FISH EATERS WANTED!

Posted in Home

→ Leave a comment

Building on Know How



Expert Planning Meeting, Manado May 2010

- Using and sharing experiences
 - from NOAA's FishWatch, NACA, SEAFDEC, INFOFISH, China fisheries information system, Australian fisheries atlas
- Linking with relevant fish information systems
 - e.g., NOAA FishWatch, FAO, FishBase, FishSource