APPENDIX 1: STUDENT ACTIVITIES   Dr Susan Bliss

IS OCEAN FISHING SUSTAINABLE?

Investigate the following issues related to ocean fishing

1. Ornamental Fish trade

Refer to the web and other sources to answer the following questions.

- What is an ornamental fish?
- List the major ornamental fish exporting countries.
- Name the major ornamental fish importing countries.
- Explain why quarantine is important (page 59).
- Sketch the supply chain and explain the movement of ornamental fish (page 19).
- Describe the results of intensive breeding.
- Discuss the ornamental fish business in Thailand (page 41) or Sri Lanka (page 42).
- Explain the problems of transport and the packaging system (page 53).

Resource

Food and Agriculture Organisation
http://www.fao.org/3/a-bb206e.pdf

2. Role of women in fishing

- Explain why women are described as the 'invisible gender' in fishing.
- Propose strategies to recognise the important role women play.

Resources

The Hidden Half, Part I – Women's role in Southeast Asia's fisheries (English Subs)
https://www.youtube.com/watch?v=pp_j8OUWETM

More than selling seashells: The unsung role of women in fisheries
https://blogs.adb.org/blog/more-selling-seashells-unsung-role-women-fisheries

Fisherwomen-The Uncounted Dimension in Fisheries Management: Shedding light on the invisible gender https://academic.oup.com/bioscience/article/67/2/111/2931761

STUDENT ACTIVITIES   Dr Susan Bliss

OCEANS SURROUNDING ASIAN COUNTRIES AT CRISES POINT

Choose a selection of the following topics to investigate.

1. Fishing gear

a. In groups describe the common types of fishing gear such as:

> Gillnets
> Longlines
> Purse seine
> Pole and line
> Pots and traps
> Dredges
> Pelagic or midwater trawls

b. Present your investigation as an oral report.

Resources

Marine Stewardship Council
https://www.msc.org/en-au/what-we-are-doing/our-approach/fishing-methods-and-gear-types?gclid=EAIaIQobChMIy_jdoJmd7wIVjSErCh1v7wfLEAAYASAAEgJs9_D_BwE

Australian Fisheries management Authority
https://www.afma.gov.au/fisheries-management/methods-and-gear/longlining

2. Bottom trawling

a. Describe Bottom Trawling.
b. In a two-column table, list the advantages and disadvantages of Bottom Trawling.

Resources

How seafood is caught-Bottom Trawling
https://www.youtube.com/watch?v=BcJFSl_YJHk

Destructiveness of Bottom Trawling
https://www.youtube.com/watch?v=yxfyB3-eaRY

3. Ghost fishing

a. What is ghost fishing?
b. List the causes of ghost fishing.
c. Describe the problems of ghost gear to fish, marine animals, birds and humans.
d. Explain the reasons for the quantity of fishing gear lost or discarded.
e. Discuss the use of Drones or ROVs for Ghost Gear Retrieval.

f. Analyse the effectiveness of the Global Ghost Gear Fishing Initiative (GGGI).

Resource

Deep Trekker
https://www.deeptrekker.com/news/ghost-fishing?matchtype=b&network=g&device=c&keyword&campaign=1185879946&adgroup=114981062613&gclid=EAIaIQobChMIuJfV9Z-d7wIVUzUrCh3qAA_mEAAYASAAEgJe-fD_BwE
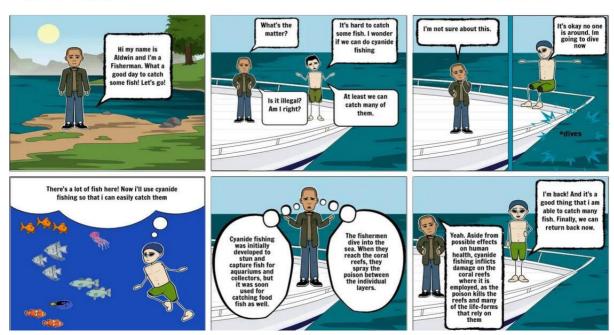
4. Illegal fishing

a. Refer to the storyboard below. Using ICT draw your own story of one type of **IUUF** from the Geography Bulletin article
https://www.storyboardthat.com/sv/storyboards/dwinnie/cyanide-fishing

b. Role of satellite fishing in tracking illegal fishing

- Explain how satellite imagery and technology works to reduce IUUF.
- Discuss how Artificial Intelligence (AI) and satellites are used to combat illegal fishing.

Resources

World Ocean Review
https://worldoceanreview.com/en/wor-2/fisheries/illegal-fishing/

How AI and satellites are used to combat illegal fishing
https://news.microsoft.com/on-the-issues/2019/06/06/ocean-mind-illegal-fishing/