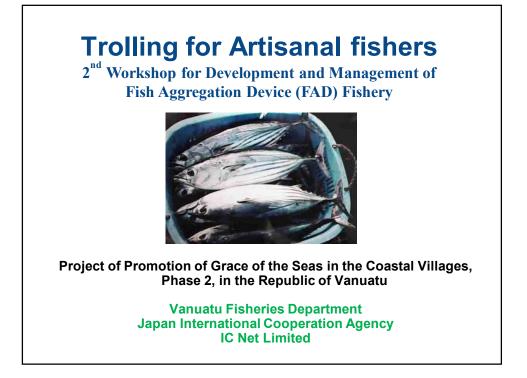
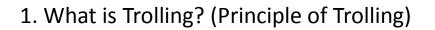
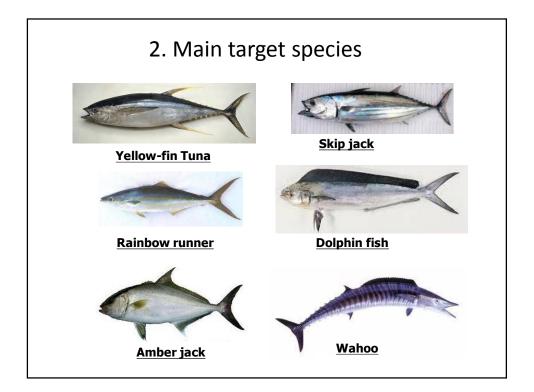
Annex 6 付属資料6: 零細漁業者のための曳き縄漁マニュアル (第2回FAD漁業・管理ワークショップ)

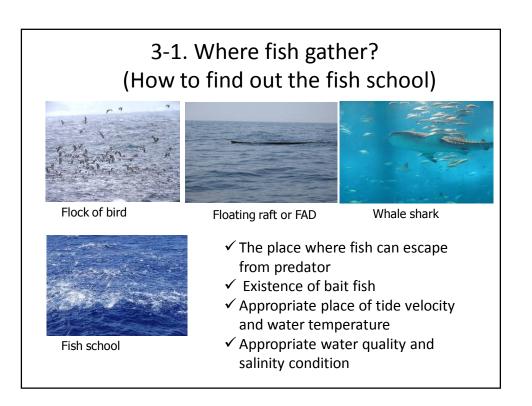


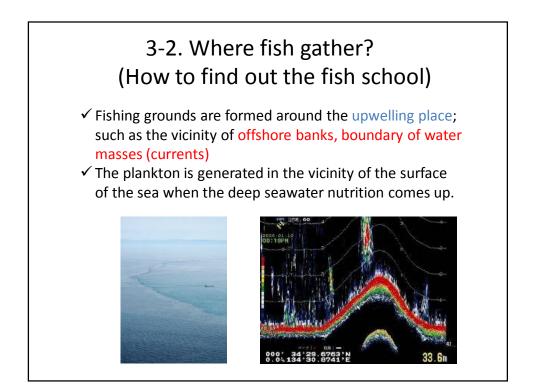
Contents What is trolling? Main target species Where fish gather? (How to find out the fish school) Behavior of pelagic fish Reaction of fish to fishing gear Trolling depth Trolling direction in relation to the sun Several types of trolling gear Artificial bait Trolling line deck arrangement Type of fishing around FAD References

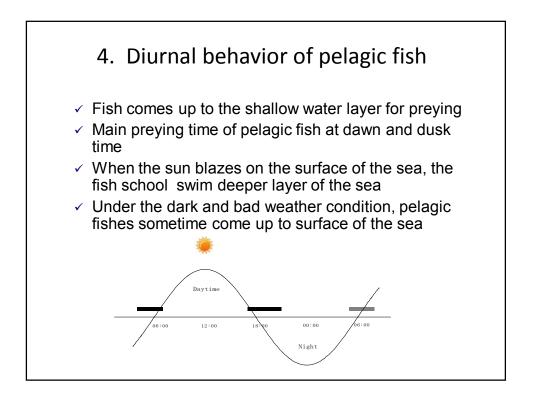


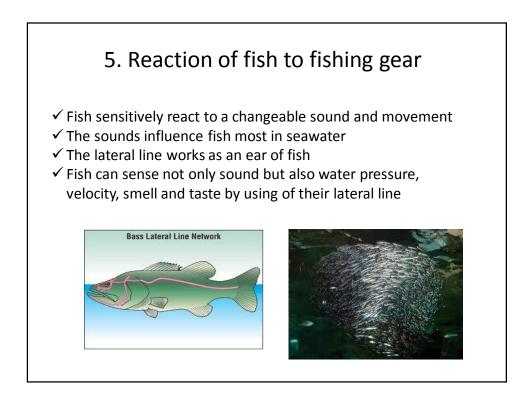
- \checkmark Trolling is the most active type of angling operation.
- ✓ The vital points involved in this fishing process include: 1) the location and pursuit of schools of fish, 2) setting the proper trolling depth for the fishing line and 3) the performance of the fishing hook and bait
- ✓ Targets are the migratory fishes who come to the same place at the same season of every year and form the fishing ground
- ✓ Trolling is the fishing method utilizing fish's behavior; their reactions to a changeable sound and movement





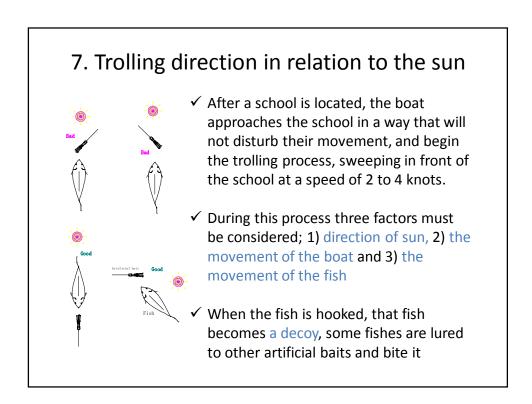


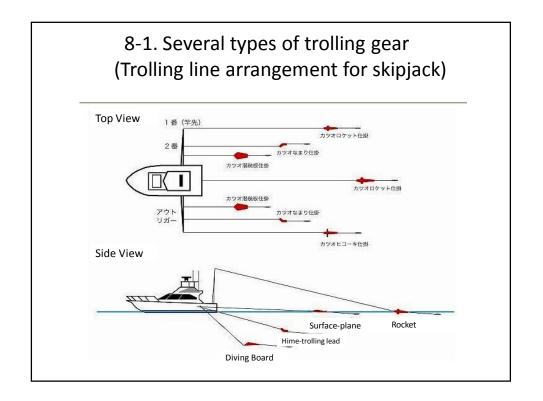


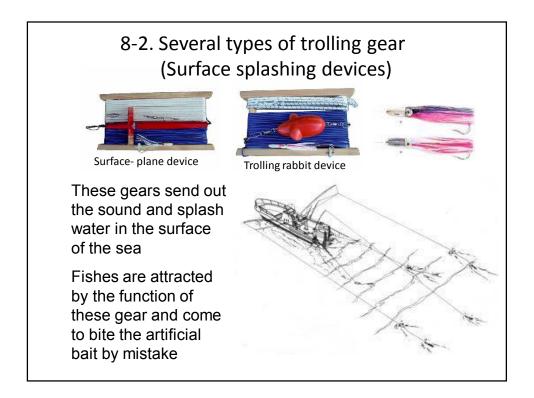


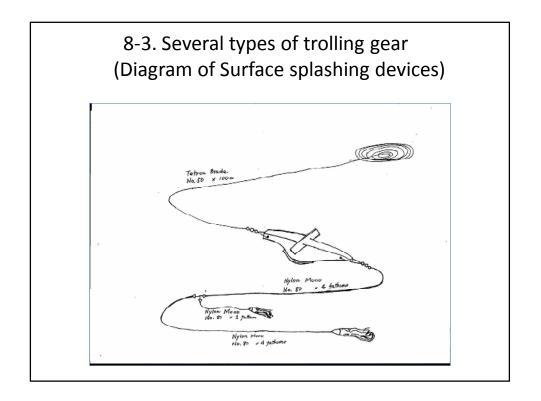
6. Trolling depth

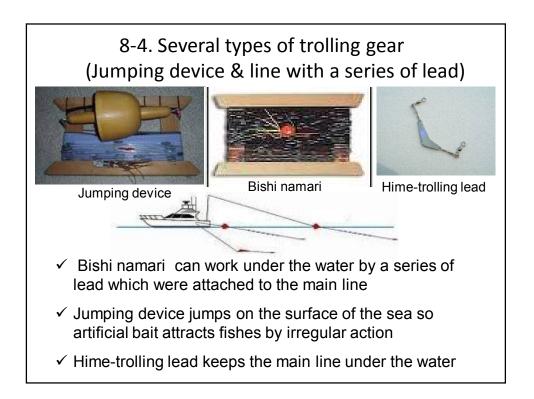
- ✓ Fish change their migrating depth according to factors such as time of day, water temperature and their degree of appetite. To achieve good fishing results, one must fish at different depths; from the surface to the middle depths.
- To make the line and hooks troll at desired depth, devices such as a) a diving board and 2) a surfaceplane, etc., are used.

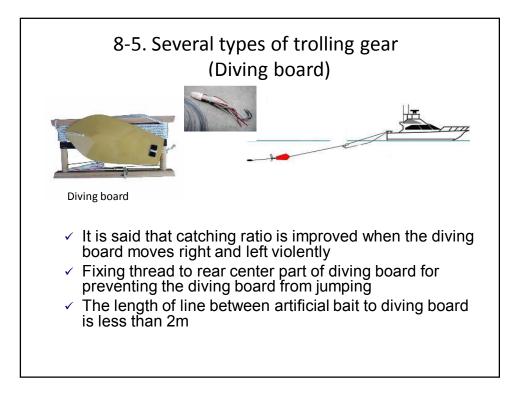


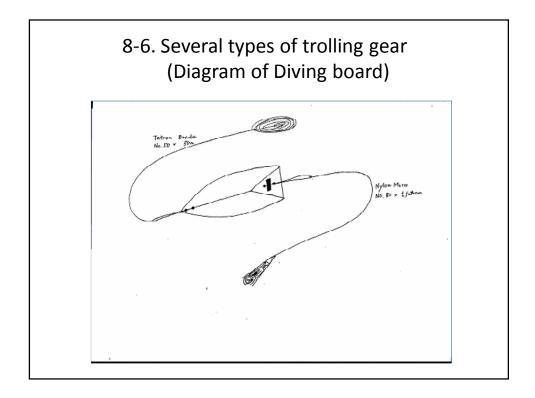


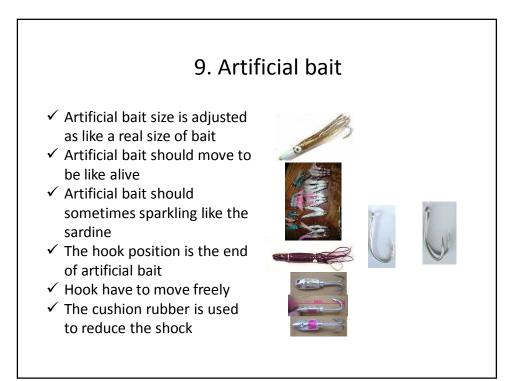


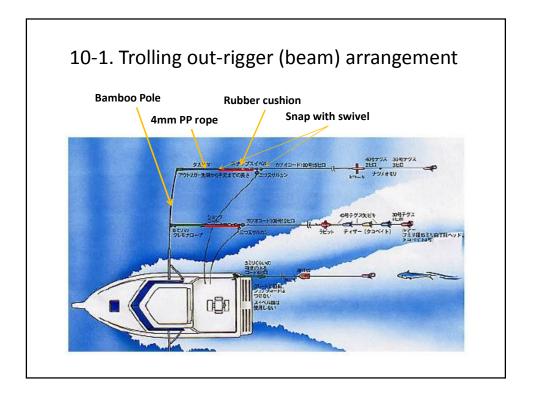














11. Types of fishing around FAD

1. Trolling

Trolling with artificial bait are commonly used to target live bait, bonito and small tuna, for drop line. Depending on size of targets, the size of hook and artificial bait are changed. Dolphinfish and wahoo also are caught by trolling.

2. Hand line with bait

Hand line with bait are normally targeting dolphinfish and wahoo, which make school around floating objects and FAD. Crushed pieces of fish are also used to attract fish around a boat.

3. Drop line (drift line) with live bait

Drop line is a kind of drifting vertical longline, which target large pelagic species, such as yellowfin tuna and marlin, in the mid-water layer. Use of live bait, such as bonito, small tuna, jacks, rainbow runner and flying fish which are caught by hand line and trolling are very efficient in attracting fish.

12. References

- 1. Troll Fishing (Fishing Technology Textbook Vol . 4) (2001, Regional Fisheries Training Project, JICA/CFTDI, Trinidad and Tobago)
- 2. Trolling for Small-scale Fisher (2010, Fisheries Training and Extension Centre (FiTEC) / OFCF, R. Morimitsu, Republic of Mauritius)
- 3. Pro Trolling (<u>http://www.pro-trolling.com/</u>)
- 4. Yozuri (http://www.duel.co.jp/catalogue/lineup/y_trolling/)