Struggles of Japanese Small – Middle Scale Longline Fisheries in Last 30 years



Catch Trend by Gear in WCPO



What is Japanese small – middle scale longline ?

• Vessel Size:

Official Category is Smaller than 120 GRT Most vessels are 19 GRT (Number of Crew: 6-9).

- Fresh Fish Operation to land at Japanese port (some exception; Guam base)
- Target Species: Bigeye, Yellowfin and Albacore.
- Trip length: 20 to 35 days

Trend of Catch, Value, and No. of Vessels



Trend of Effort Distribution



Trend of Catch Volume by Species



Trend of landed value per vessel



(<u>about ¥69 million decline per vessel</u>)

Trend of Fuel Costs

 Expenditure for annual fuel cost has increased <u>about ¥ 25</u> <u>million</u> from early 2000s, assuming a vessel used 450kl per year.



Rough estimate of net loss per vessel due to catch decrease and fuel price increase

Catch decrease

About \ 69 million ↓

Fuel Prices Increase
 Hotojima: 450 kl / year \ 25 million ↑
 19 GRT: 300 kl / year \ 17 million ↑

Around \ 86 - 94 million loss.

Case Study 1 Oita = Hotojima



Area : 0.84 Km²

Coast Line : 4 km

Population : 2,848 people



- Hotojima is a unique island; only tuna LL provides job opportunity for male.
 - Almost all young boys, after
 graduation from a junior high school –
 age 15 –, board LL vessels. They can
 go back to homes only a few times a
 year.
- Women stay home in Hotojima.
- (1990) Economics of this island is directly influenced by tuna LL.

Trend of Effort Distribution ~Hotojima~



Trend of Catch Volume ~Hotojima~

•Bigeye and Yellowfin catch has decreased.

(1,000 MT)

20

Albacore catch has increased.



Trend of landed value per vessel~Hotojima~



(<u>about ¥ 68 million decline per vessel</u>)



LL decline has damaged Hotojima economy severely

Statistics of Hotojima Tuna Longline Fisheries



Miyagi =Kesennuma About Kesennuma city 333.38 Km² Area Population 17,483 people

Case Study 2



- Kesennuma city is at north-east part of Miyagi prefecture facing Pacific ocean.
- It has been developed as one of the largest Fisheries Town in JAPAN.
- Kesennuma Fishing Port has been a home port of many Offshore and Farseas Fisheries such as large scale LL and PS.
- Most of local economics depend on fishery or related industry such as fish market and fish processing and other supporting industry.

Trend of Effort Distribution ~Kesennuma~



Trend of catch volume ~Kesennuma~







- Tsunami hit Kesennuma in 2011
 No. of Death or Missing about 1,300
 No. of Damaged House about 11,000
- 5.4% of city area was flooded by Tsunami.

 Total Fisheries Catch volume and value at Kesennuma Fishing Port Before Tsunami (5 years ave.)
 Catch
 109,327 MT
 57,676 MT
 52.7% recovery
 Landing value
 23.2 bil. JPY
 14.3 bil. JPY
 61.6% recovery

Only 60% recovery even 30 months after Tsunami disaster!



Conclusion



- This decline has made a critical damage to the economy of local communities in coastal line such as Hotojima and Kesennuma
- In particular, <u>community existence is at risk in Hotojima</u>.
- Even if 30% reduction of Bigeye were to be achieved in 2017, additional years will be needed for actual recovery of the resources.
- It is not clear whether local communities in Japan still exist until such time.
- Japanese small-medium LL is a real victim of PS expansion.