



TROPICAL TUNA CONSERVATION & MANAGEMENT MEASURE

PNAO Presentation
TTWG Tokyo, Japan
27 - 30 August 2013

SC recommendations for a new TT CMM include:



- ✓ Reduce FAD use
- ✓ Apply clear PS effort limits in all areas
- ✓ Reduce fishing mortality on bigeye tuna from the LL fishery
- ✓ Adopt management measures that apply to all sectors of the fishery
- ✓ LL bigeye reductions and FAD set reductions presented by SPC at SC9



Balance of Longline and Purse Seine Cuts



- SPC combinations of LL bigeye reductions and FAD sets reductions

| % BET overfishing removed relative to status quo - 2011 | Scalar on 2011 | | Contribution to reduction (%) | |
|---|----------------|---------------|-------------------------------|--------|
| | LL catch | PS ASS effort | LL | PS ASS |
| 100.12 | 1.19 | 0.47 | -8.93 | 108.93 |
| 100.04 | 1.14 | 0.49 | -5.1 | 105.1 |
| 99.96 | 1.09 | 0.51 | -1.27 | 101.27 |
| 99.89 | 1.04 | 0.53 | 2.56 | 97.44 |
| 99.81 | 0.99 | 0.55 | 6.4 | 93.6 |
| 100.18 | 0.96 | 0.56 | 8.67 | 91.33 |
| 100.10 | 0.91 | 0.58 | 12.5 | 87.5 |
| 100.03 | 0.86 | 0.6 | 16.34 | 83.66 |
| 99.95 | 0.81 | 0.62 | 20.19 | 79.81 |
| 99.87 | 0.76 | 0.64 | 24.04 | 75.96 |
| 100.16 | 0.68 | 0.67 | 30.09 | 69.91 |
| 100.09 | 0.63 | 0.69 | 33.94 | 66.06 |
| 100.01 | 0.58 | 0.71 | 37.79 | 62.21 |
| 99.93 | 0.53 | 0.73 | 41.65 | 58.35 |
| 99.86 | 0.48 | 0.75 | 45.52 | 54.48 |
| 100.15 | 0.4 | 0.78 | 51.52 | 48.48 |
| 100.07 | 0.35 | 0.8 | 55.38 | 44.62 |
| 100.00 | 0.3 | 0.82 | 59.25 | 40.75 |
| 99.92 | 0.25 | 0.84 | 63.13 | 36.87 |
| 99.84 | 0.2 | 0.86 | 67.01 | 32.99 |



PNA Position

From SPC advice on combinations to remove BET overfishing:

- ✓ Around 32% reductions in LL catches
- ✓ Around 33% reductions in PS FAD effort



Equal balance of Longline and Purse Seine Cuts

Purse Seine Fishery Management



- Objective is to optimize skipjack utilization
- Bigeye bycatch to be managed by mitigation measures
- Clear PS effort limits across all zones and HS, based on 2010 levels
- PNA has set a limit for its EEZ of the 2010 level and the Commission needs to adopt a compatible limit for the High Seas
- Compatible High Seas limit of 2,190 days (now updated to 2,239 days)
- Allocated if there's agreement, otherwise WCPFC closes the HS when limit is reached
- Reinstating the closure of the Western High Seas pockets
- Limit of 4,659 days for Philippines fishing under special arrangement in HS, based on 2004 level

Bigeye Bycatch Mitigation



- The Commission cannot adopt a measure that risks transferring a disproportionate burden to Small Island Developing States
- For the short term, up to 2 months FAD closure extension to 5 months, or equivalent alternative
- Has to be part of a package that includes appropriate reductions in Longline Bigeye catches and effort
- Replaced in time by zone based FAD set limits
- Transfer payment to the Small Island Developing States for disproportionate burden

Disproportionate Burden



- The FAD measures apply largely in the waters of SIDS at substantial cost
- The FAD measures benefit longline bigeye fishery which is mainly outside SIDS waters, especially in High Seas
- The Commission cannot adopt such measures without removing the disproportionate burden

Transfer Payments



- To avoid transfer of a disproportionate burden
- As an interim arrangement until a system to transfer longline bigeye rights to SIDS can be implemented
- \$15 million per additional month of FAD closure or equivalent FAD set limit
- Based on appropriate share of the estimated \$20m/month cost of FAD closure to fishing in SIDS waters
- Very small in relation to benefits to major longline fleets from improved bigeye stock status
- Can be financed from range of sources, including fees on High Seas purse seining and longlining

FAD closure extension or equivalent alternative



- 4th and 5th month extension; or
- Equivalent alternative measure to FAD closure based on limits to FAD set numbers can be considered with improvements on effectiveness
- + High Seas FAD ban to address high bigeye catch rates in the high seas



reduce FAD effort by around 30%



Longline Fishery Management

- Longline Catch Limits
- Longline Effort Reductions

Longline Catch Limits



- Existing longline bigeye catch limits have failed to achieve 30% reduction of bigeye fishing mortality and have not been effective
- Latest summary data shows Longline bigeye catches have only been reduced by 7.3% since 2008 and are increasing
- Catch reductions largely due to falling biomass and catch rates, not reduced fishing
- 32% cut in Longline bigeye catches is needed

Longline Effort Reductions



- Tropical LL effort has increased by >30% recently
- Completely out of control in the High Seas
- Reductions in longline effort are necessary
- PNA proposes a 1 month high seas closure for each month of the FAD closure to distant water longline vessels that are not supporting SIDS development
- Alternative proposals?



Capacity Limits

- Capacity limits on non-SIDS fleets should be considered in the new CMM
- They must apply to Purse Seine fleets as well as Longline fleets

PNA CONCEPT



- Hard limits for High Seas Purse Seine effort
- Up to 5 month FAD closure or equivalent FAD set limit
- Compensation to SIDS of \$15million/additional month
- Western High Seas pockets closed
- High Seas FAD closure
- 30% reduction in Longline bigeye catch limits for the 5 major LL fleets
- Distant water High Seas Longline closure for the same period as FAD closure
- Purse Seine & Longline non-SIDS capacity limit

| | Key Purse Seine Measures | | Longline Measures | |
|---------|--|---|---|---|
| | Purse Seine Effort | BET Bycatch Mitigation (3) | LL Catch Limit (2) | Longline Effort |
| 2014 | <ul style="list-style-type: none"> Effort in HS, PNA & other EEZs limited to 2010 level HS effort preferably allocated | <ul style="list-style-type: none"> 4 month FAD closure or 3 months FAD closure + a FAD limit by fleet, equivalent to 4 months FAD closure (4) \$15m transfer to SIDS | Additional 10% reduction on CMM-2012-01 | 4 month HS closure to distant water vessels |
| 2015-16 | <ul style="list-style-type: none"> If no agreement on HS allocation, WCPFC Secretariat closes HS fishing (20N/20S) after 2,190 days excl. fixed limit for Philippines HS effort under special arrangement | <ul style="list-style-type: none"> 5 month FAD closure or 3 months FAD closure + a FAD limit by fleet, equivalent to 5 months FAD closure (4) \$30m transfer to SIDS | Additional 20% reduction on CMM 2012-01 | 5 month HS closure to distant water vessels |
| 2017 | | <ul style="list-style-type: none"> As for 2015 + a High Seas FAD closure or alternative measure to reduce high rates of BET bycatch in High Seas (1) | Additional 30% reduction on CMM 2012-01 | 6 month HS closure to distant water vessels |



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