



**TECHNICAL AND COMPLIANCE COMMITTEE
SEVENTH REGULAR SESSION**

28 September – 4 October 2011
Pohnpei, Federated States of Micronesia

Individual Impact of CMM Components – Request by Japan

**WCPFC-TCC7-2011-IP/08
30 September 2011**

Prepared by SPC

Individual Impact of CMM Components – Request by Japan

Japan request that the impacts of the different fishery reductions that have occurred under CMM 2008-01 be quantified separately. The most straightforward way to do this is to:

- Use the projections to estimate F/F_{MSY} if the observed fishery catch/effort that occurred in 2004 occurred for 10 years, from 2012. This is used as a base for comparison.
- Compute the F/F_{MSY} that would have occurred under the 2004 baseline but with the following changes, implemented separately:
 - Longline catch in 2009
 - Longline catch in 2010
 - Purse seine effort in 2009 (incorporating FAD closure)
 - Purse seine effort in 2010 (incorporating FAD closure)
 - ID/PH catch in 2009
 - ID/PH catch in 2010
- The percentage of overfishing removed from the 2004 base F/F_{MSY} obtained in each of the above scenarios indicates the separate contribution overfishing reduction of the 2009 and 2010 conditions reported for each of the three main fishery components.

Results

Catch/Effort Conditions	F/F_{MSY}	% of 2004 overfishing removed
2004	1.57	-
LL 2009, rest 2004	1.47	17.5
LL 2010, rest 2004	1.38	33.3
PS 2009, rest 2004	1.47	17.5
PS 2010, rest 2004	1.20	64.9
PH/ID 2009, rest 2004	1.64	-12.3
PH/ID 2010, rest 2004	1.47	17.5
Combined effects – 2009	1.39	31.6
Combined effects – 2010	0.97	105.3