



# **The Practical Workshop on Stock Assessments of Indo-Pacific King Mackerel and Narrow-barred Spanish Mackerel**

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*The Practical Workshop on Stock Assessments of  
Indo-Pacific King Mackerel and Narrow-barred Spanish Mackerel*

# Indo-Pacific King Mackerel and Narrow-barred Spanish Mackerel



- Indo-Pacific King Mackerel  
*Scomberomorus guttatus*



- Narrow-barred Spanish Mackerel  
*Scomberomorus commerson*

# Fishing gear



## Thai Purse Seine

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# Fishing gear

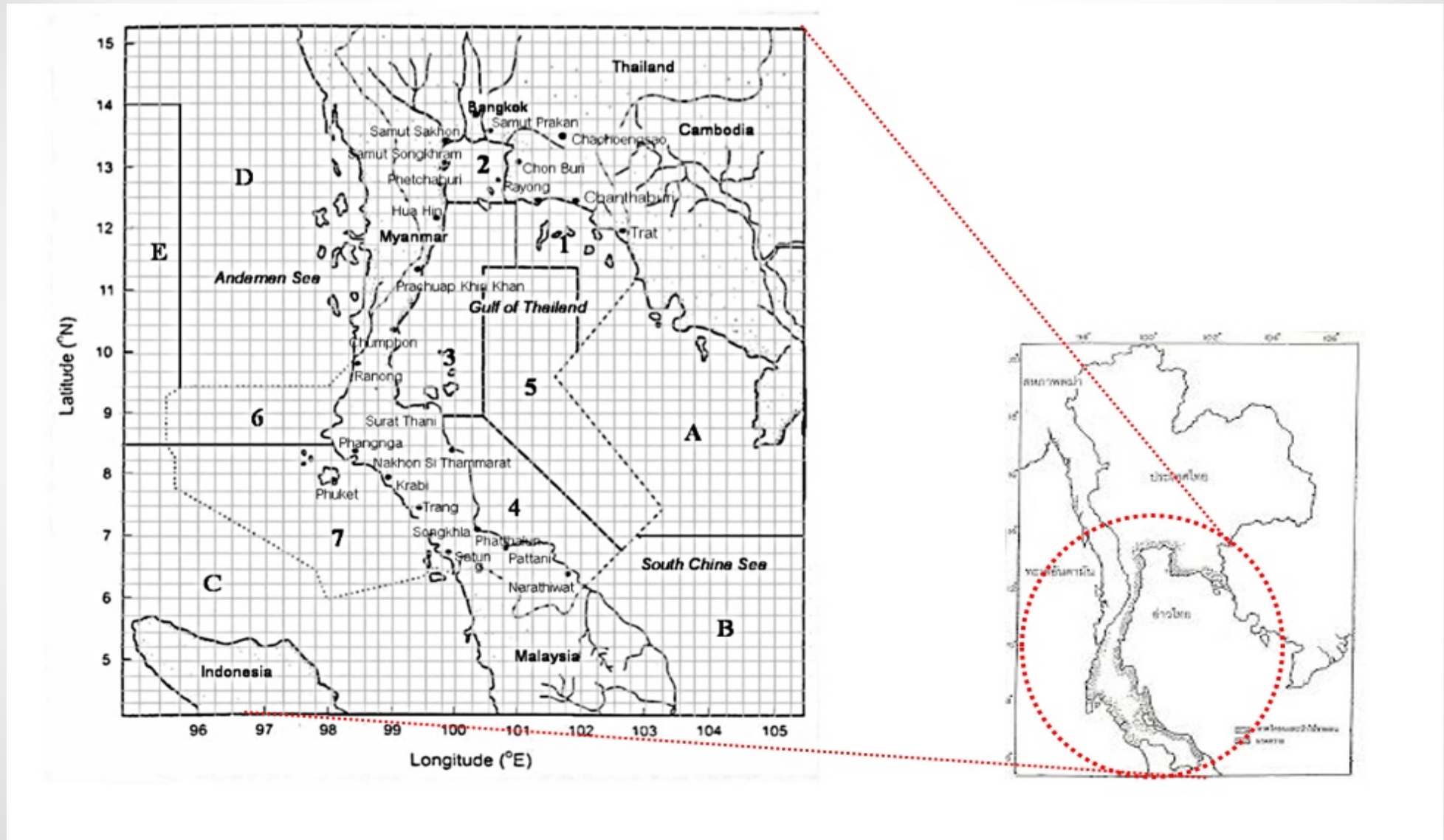


## Gill Net

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# Map of Fishing area in Thailand



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# Catch (ton) of king mackerel by king mackerel purse seine in the Gulf of Thailand



YEAR	CATCH(Ton)							
	1	2	3	4	5	A	B	Total
2000	0	0	291	0	0	202	0	493
2001	0	594	59	0	0	0	0	653
2002	0	20	38	44	0	59	234	395
2003	0	21	68	0	0	2	174	265
2004	0	20	88	1	0	15	144	268
2005	0	1,272	38	0	144	56	116	1,626
2006	0	23	63	0	67	104	59	316
2007	0	57	128	21	27	32	28	293
2008	3	129	133	26	26	29	0	346
2009	0	94	138	22	26	37	0	317
2010	0	117	155	13	14	42	0	341
2011	22	55	77	98	75	30	0	357
2012	21	53	279	371	278	79	0	1,081
2013	0	57	330	399	286	0	0	1,072
2014	0	61	323	431	301	83	0	1,199
2015	25	61	1,092	1,295	62	11	0	2,546
2016	37	6	279	1,512	394	0	0	2,228

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# Catch (ton) of king mackerel by king mackerel purse seine in the Andaman Sea



YEAR	CATCH(Ton)					
	6	7	C	D	E	Total
2000	106	547	0	0	0	653
2001	66	210	0	0	0	276
2002	178	582	0	0	0	760
2003	178	683	0	0	0	861
2004	45	493	0	0	0	538
2005	236	209	0	0	0	445
2006	179	303	0	0	0	482
2007	139	229	0	0	0	368
2008	103	311	0	0	0	414
2009	122	278	0	0	0	400
2010	4	20	0	0	0	24
2011	163	744	0	0	0	907
2012	121	637	0	0	0	758
2013	120	563	0	0	0	683
2014	136	613	0	44	0	793
2015	1	159	0	0	0	160
2016	201	271	0	0	0	472

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# Catch (ton) of king mackerel by king mackerel gillnet in the Gulf of Thailand



YEAR	CATCH(Ton)							
	1	2	3	4	5	A	B	Total
2000	0	51	33	668	248	264	352	1,616
2001	12	66	57	965	29	581	37	1,747
2002	17	50	96	1,259	160	883	0	2,465
2003	23	317	109	1,639	11	1,961	0	4,060
2004	17	706	231	1,242	8	903	0	3,107
2005	19	76	220	1,516	0	0	0	1,831
2006	31	125	185	923	0	373	0	1,637
2007	58	370	310	1,024	0	0	0	1,762
2008	20	607	255	1,048	0	0	0	1,930
2009	62	710	294	1,025	0	0	0	2,091
2010	288	1,532	799	1,286	0	0	0	3,905
2011	1,014	1,369	168	893	0	0	0	3,444
2012	599	645	268	453	0	0	0	1,965
2013	845	287	99	387	0	0	0	1,618
2014	1,110	361	139	452	0	19	0	2,081
2015	961	516	87	442	0	0	0	2,006
2016	365	147	470	77	20	0	0	1,079

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# Catch (ton) of king mackerel by king mackerel gillnet in the Andaman Sea



YEAR	CATCH(Ton)					
	6	7	C	D	E	Total
2000	549	258	0	0	0	807
2001	777	415	0	0	0	1,192
2002	877	598	0	0	0	1,475
2003	798	748	0	16	0	1,562
2004	39	640	0	0	0	679
2005	15	332	0	0	0	347
2006	14	293	0	0	0	307
2007	33	401	0	0	0	434
2008	35	109	0	0	0	144
2009	33	309	0	0	0	342
2010	33	198	0	0	0	231
2011	29	84	0	0	0	113
2012	271	118	0	0	0	389
2013	19	42	0	0	0	61
2014	19	48	0	0	0	67
2015	104	207	0	0	0	311
2016	0	0	0	0	1	1



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# Parameter of stock assessment

(Unavailable data in Thailand, Secondary Data below from Fishbase)



Species	Lm (cm)	Lmax (cm)	Length (cm)
<i>Scomberomorus guttatus</i> 	40.0	76.0	33.0-46.5
<i>Scomberomorus commerson</i> 	85.0	240.0	55.0-82.0

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# Problems and obstacles



- **Do not have previous academic research for these 2 species**
- **Do not have researcher to collect data from field survey**
- **DOF has a lot of things to do then cannot have time to collected data**  
**(no time, no budget, no staff and expert)**
- **Do not go along with middle man**  
**(price will reduce due to touching can drop of quality of fresh fish meat)**
- **The statistic data just only in catch**  
**(no length, weight, parameter and other biological data)**

# Thank you



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