

Converging on the Fisheries in the South China Sea

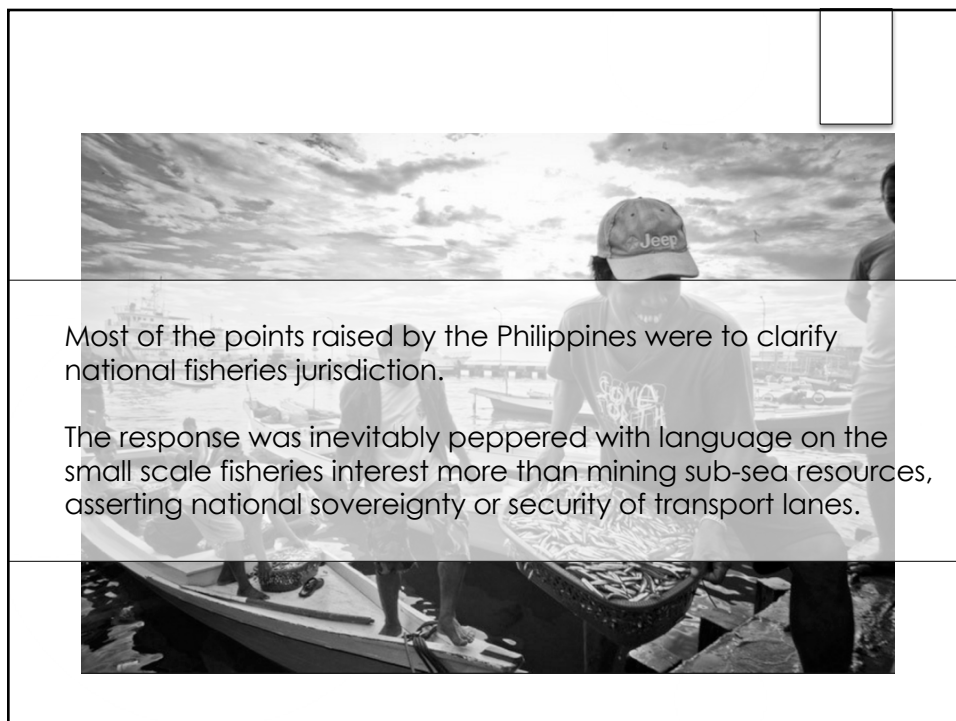
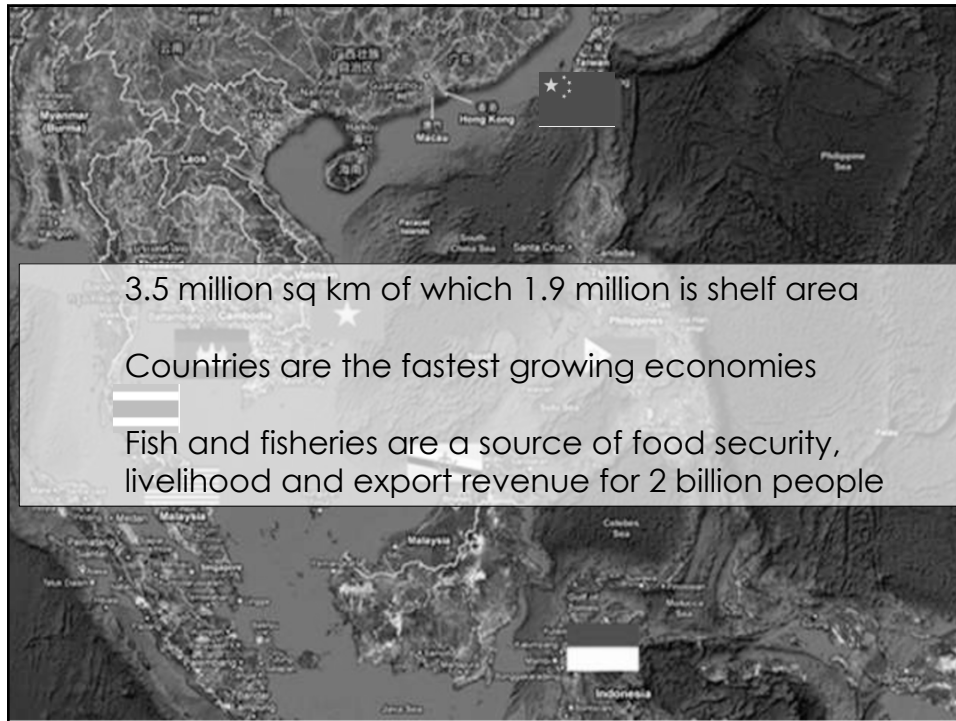
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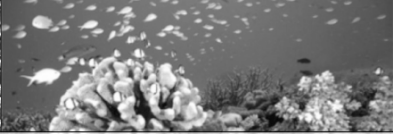




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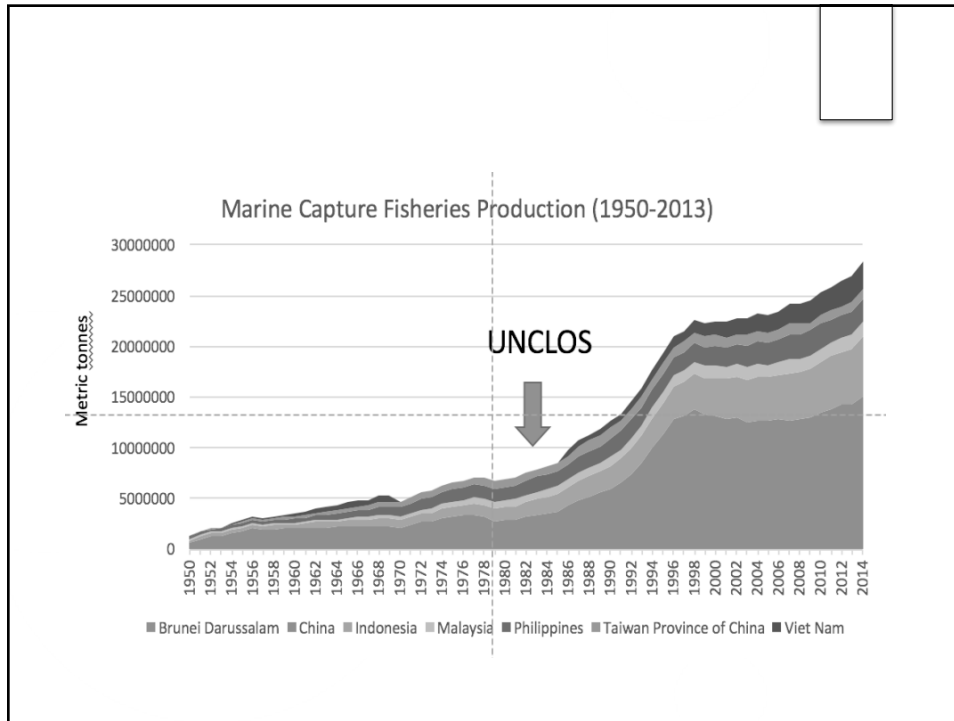
DR. MA. CARMEN A. LAGMAN





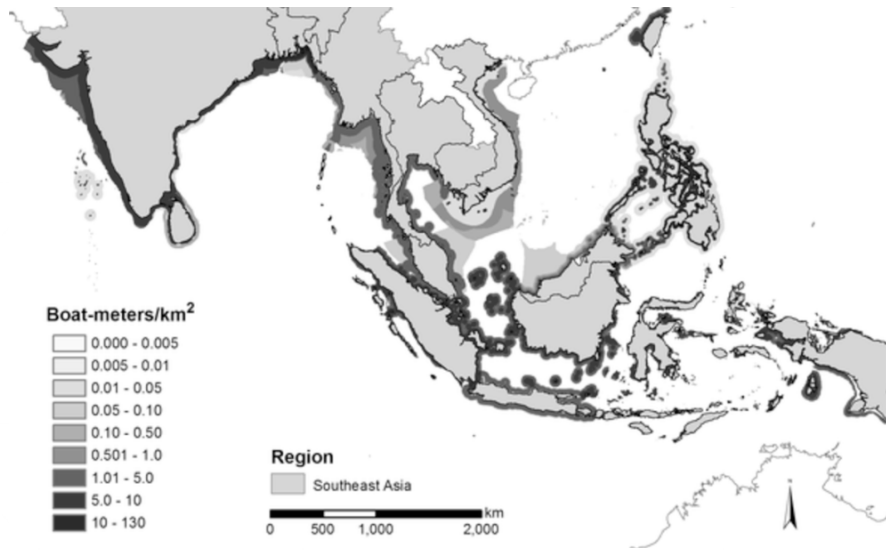
	
<p>Maybe, brokering for cooperative agreements for a common dynamic resource on the ocean will be easier than agreements on ownership of islands and sub-surface features in the SCS</p>	
	

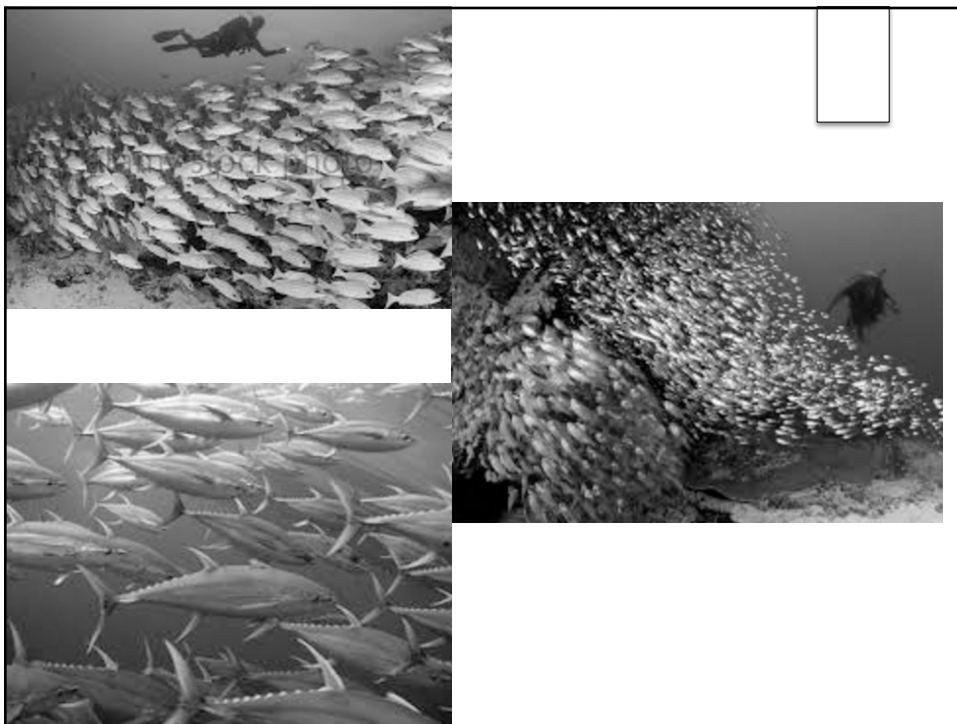
	<p>The 1982 United Nations Convention on the Law of the Sea</p> <p><small>Justin Adrián Espaldón Ordoño U.P. College of Law</small></p>	
<p>UNCLOS brought about a redistribution of benefits from fishing from distant water fishing fleets to the coastal states. And the shifting of capture fisheries production from the developed to the developing world.</p>		
		



Rank	Country/ Region (FAO State of Fisheries and Aquaculture Report 2016)	Capture Fisheries Production (tons)
1	China	14,811,390
2	Indonesia	6,016,525
3	USA	4,954,467
4	Russian Fed	4,000,702
5	Japan	3,630,364
6	Peru	3,548,689
7	India	3,418,821
8	Viet Nam	2,711,100
9	Myanmar	2,137,350
10	Philippines	2,354,367
11	Norway	2,301,288
12	Republic of Korea	1,718,626
13	Thailand	1,559,746
14	Malaysia	1,458,126
15	Mexico	1,396,205
16	Morocco	1,350,147
17	Spain	1,103,537
18	Iceland	1,076,558
19	Taiwan	1,067,244
20	Canada	835,196
	WORLD	81,549,353

Fishing effort across SCS







There are 3,365 species of marine fish in 265 families in the South China Sea . In contrast the Caribbean has 65 coral species and about 411 species of marine fish

Geographic Context

Country/ Region (World Factbook)	Population	Per capita GDP	Land Area	EEZ	Continental Shelf Area (0-200 m depth)	
					As % of EEZ	
	(millions)	(USD)	(x10 ³ sq. km)	(x10 ³ sq. km)	(x10 ³ sq. km)	(x10 ³ sq. km)
Brunei Darussalam	0.4	79,700	5.8	38.6	9.0	22.0
Cambodia	159.5	3,500	181.0	55.6	15.0	27.0
China	1,373.5	14,100	9,596.9	n.a	n.a.	n.a
Indonesia	258.3	11,100	1,919.4	5,408.6	2,777.0	51.0
Malaysia	31.0	26,300	329.8	475.6	374.0	79.0
Philippines	102.6	7,300	300.0	1,786.0	178.0	10.0
Taiwan	23.5	46,800	35.9	n.a.	n.a.	n.a
Thailand	68.2	16,100	514.0	257.6	86	33
Viet Nam	95.3	6,000	329.5	722.1	328.0	45.0

Fish in Asian diets (FAO Statistics 2015)



Nutrients and primary productivity

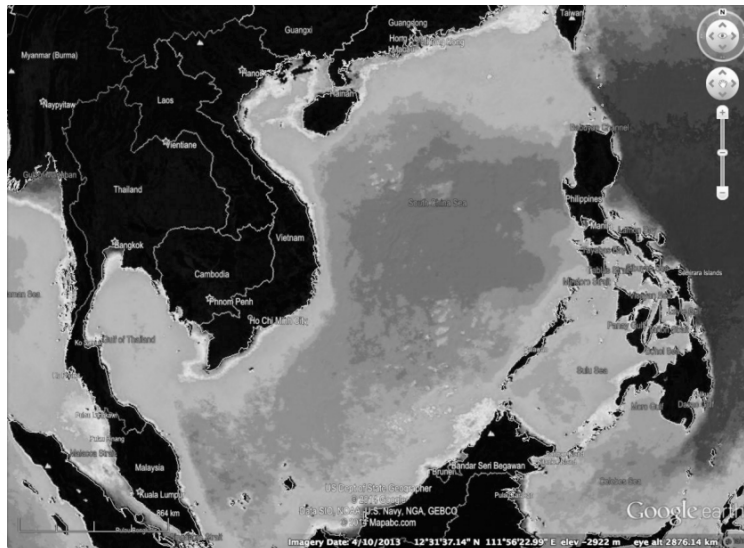
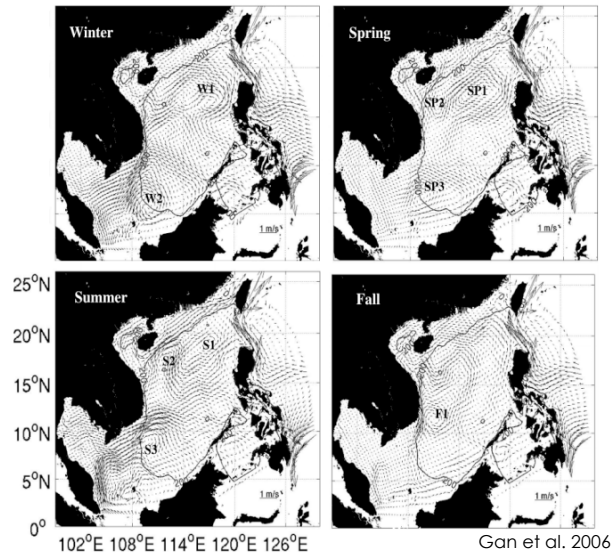
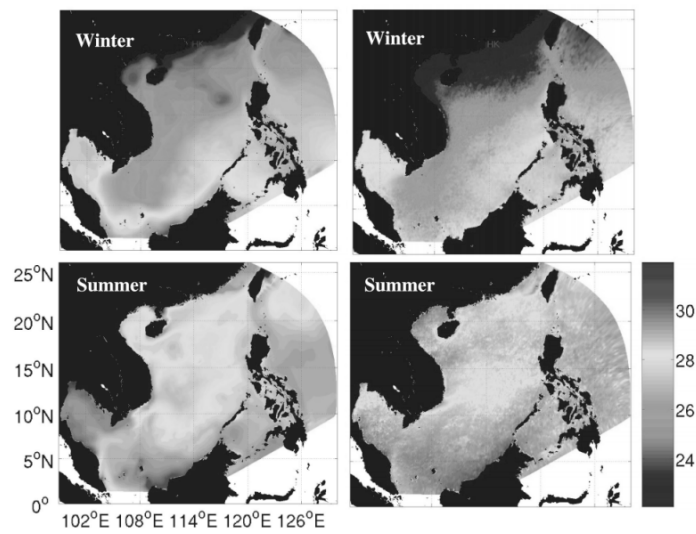


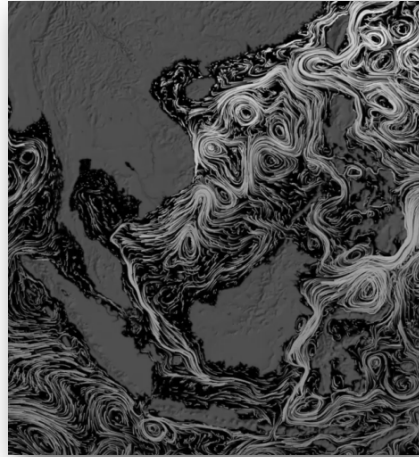
Image from talk given by Dr. Jay Batongbacal, Director UP Institute of Maritime Affairs and Law of the Sea

Monsoon patterns in the SCS



Temperature variation in the SCS





Video courtesy:
Greg Shirah and
colleagues,
Scientific Visualization
Studio
NASA/Goddard Space
Flight Center

Based on the:
JPL/MIT ECCO2 Ocean
Currents Model, run for
2007-03-25 to 2008-03-03
by Dimitris Menemenlis

SCS mangroves and coral reefs

Country (Vo ST, 2013)	South China Sea coral reef area (ha)	South China Sea Mangrove area (ha)
Cambodia	2,808	72,400
Indonesia	39,300	93,4000
Malaysia	43,400	-
Philippines	46,4000	28,000
Thailand	90,000	62,600
Vietnam	110,000	157,000
Total	750,000	1,770,000

Fishing down the food web

