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FLAGS OF CONVENIENCE, TRANSSHIPMENT, RE-SUPPLY AND AT-SEA INFRASTRUCTURE IN RELATION TO IUU FISHING

MANAGEMENT IMPLICATIONS AND RECOMMENDATIONS FOR INTERNATIONAL ACTION ARISING FROM A CASE STUDY PREPARED FOR WWF.

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This paper has been submitted to the IUU Workshop, 19-20 April, by WWF.

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# FLAGS OF CONVENIENCE, TRANSSHIPMENT, RE-SUPPLY AND AT-SEA INFRASTRUCTURE IN RELATION TO IUU FISHING

# MANAGEMENT IMPLICATIONS AND RECOMMENDATIONS FOR INTERNATIONAL ACTION ARISING FROM A CASE STUDY PREPARED FOR WWF<sup>1</sup>

### **Executive Summary**

The problem of Illegal, Unreported and Unregulated Fishing on the high seas has been the subject of much discussion and debate at the regional and global level for the past decade or more. Increasing restrictions have been put into place to attempt to deal with the problem of IUU fishing on the high seas. At the same time, the scope of the restrictions have expanded in recognition of a number of important issues: One, that the infrastructure needed to support IUU fishing on the high seas goes well beyond the IUU fishing fleets themselves; two, unless and until the flag of convenience system is eliminated, port states, market states and countries of beneficial ownership will need to employ a suite of measures to combat IUU fishing; and three, regional fisheries management organizations may, in some cases, need to be reformed to ensure that all parties agree to and effectively implement the conservation and management measures adopted by the regional organization.

The following paper has been prepared to:

- review recent trends in the numbers of fishing vessels flying Flags of Convenience,
- focus on a key aspect of IUU fishing: the at-sea transshipment and resupply fleets,
- recommend specific measures to manage at-sea transshipment and resupply and;
- place these recommendations within the context of international actions necessary to implement the UN FAO International Plan of Action on IUU Fishing.

The case study approach was chosen to enable a focused assessment of one of the key components of IUU fishing, the infrastructure facilitating at-sea transshipment and re-supply. This report contains specific information on the character of this infrastructure and recommendations to manage at-sea transshipment and re-supply, particularly in high seas tuna fisheries. If effectively implemented, these would provide a significant deterrent to IUU fishing for high valued tuna species. Other key components of IUU fishing include the ports used by IUU vessels, markets for IUU caught fish, other businesses supporting IUU fishing operations, and loopholes in the international legal regime which allow for the continuance of the

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<sup>&</sup>lt;sup>1</sup> This paper has been prepared by Matthew Gianni and Walt Simpson, International Oceans Network for WWF.

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flag of convenience system in fisheries. It is hoped that future, collaborative reports containing similarly specific recommendations on these issues will be possible.

#### 1. Introduction

- 1. The following paper reviews the general trend in the numbers of fishing vessels flying Flags of Convenience (FOC) then focuses on one of the main aspects of the IUU fishing problem the at-sea transshipment and resupply fleets. The information on general trends is based primarily on analyses and comparison of information obtained from Lloyd's Register of Shipping. The character and extent of the at-sea transshipment and resupply fleets is based on a variety of sources of information and a number of assumptions outlined in the paper. The paper focuses on the latter as they provide an important service to high seas fishing vessels, both legal and IUU, and are an essential component of the global infrastructure associated with high seas fishing. A better understanding of the specific character of the at-sea transshipment and resupply industry will provide governments, regional fisheries management organizations, legitimate fishers and other interested parties a much clearer picture of what can and should be done to prevent, deter and eliminate IUU fishing through regulating this aspect of high seas fisheries.
- 2. It must be emphasized that the effective management of high seas fisheries will never be possible where IUU fishing takes place, until the problem of IUU fishing is largely eliminated. However, the elimination of IUU fishing alone will not guarantee effective fisheries conservation and management. Much more needs to be done, consistent with the conservation provisions of the 1995 UN Fish Stocks Agreement, various provisions of the UN FAO Code of Conduct for Responsible Fisheries and related agreements to put high seas fisheries on a 'sustainable' track.

#### 2. Recent trends in Flags of Convenience fisheries

3. An analysis of information available from Lloyd's Register of Shipping provides some indication of trends in relation to fishing vessels and the flag of convenience (FOC) system. The data analyzed were for the periods 1999, 2001 and 2003. These years were chosen to coincide with the two years preceding and following the adoption of the UN FAO International Plan of Action to Prevent, Deter and Eliminate IUU Fishing. This paper analyzes information available on the Lloyd's database on fishing vessels ("fishing vessels", "trawlers" and "fish factory ships") registered to the fourteen countries with open registries listed on Table 1.

Table 1. Numbers, average tonnage and average age of fishing vessels registered to 14 countries with open registries 1999-2003. Source Lloyd's Register of Shipping

Year	Flag	Total	Total	Average	Average
	State	Vessels	Tonnage		Age
1999	BELIZE	409	348892.0	853.0	23.4
	BOLIVIA	1	232.0	232.0	52.0
	CAMBODIA	6	6547.0	1091.2	22.3
	CYPRUS	46	103573.0	2251.6	19.1
	EQUATORIAL GUINEA	56	30984.0	553.3	18.8
	GEORGIA	29	10792.0	372.1	20.9
	HONDURAS	416	175387.0	421.6	25.9
	MARSHALL ISLANDS	11	18701.0	1700.1	20.2
	MAURITIUS	22	7591.0	345.0	30.0
	NETHERLANDS ANTILLES	18	17481.0	971.2	25.4
	PANAMA	224	169679.0	757.5	31.6
	ST. VINCENT	110	81956.0	745.1	23.7
	SIERRA LEONE	34	9750.0	286.8	28.7
	VANUATU	34	50609.0	1488.5	21.9
2001	BELIZE	455	349381.0	767.9	22.8
	BOLIVIA	11	7935.0	721.4	16.0
	CAMBODIA	16	17336.0	1083.5	22.6
	CYPRUS	51	108826.0	2133.8	19.6
	EQUATORIAL GUINEA	51	28088.0	550.7	18.4
	GEORGIA	39	25338.0	649.7	23.3
	HONDURAS	313	125975.0		26.2
	MARSHALL ISLANDS	11	13289.0	1208.1	19.4
	MAURITIUS	23	7860.0	341.7	30.1
	NETHERLANDS ANTILLES	24	28131.0	1172.1	20.6
	PANAMA	198	149070.0		30.0
	ST. VINCENT	101	154787.0	1532.5	23.8
	SIERRA LEONE	30	8953.0	298.4	28.7
	VANUATU	46	116870.0	2540.7	15.0
2003	BELIZE	279	258681.0	933.9	22.0
	BOLIVIA	24	21399.0	891.6	20.0
	CAMBODIA	43	39224	912.2	20.0
	CYPRUS	41	92405.0	2253.8	18.2
	EQUATORIAL GUINEA	41	24351.0	593.9	18.5
	GEORGIA	53	24080.0	454.3	18.8
	HONDURAS	507	178802.0	352.7	23.2
	MARSHALL ISLANDS	14	16081.0	1148.6	13.6
	MAURITIUS	26	10676.0	410.6	28.0
	NETHERLANDS ANTILLES	21	18100.0	861.9	20.5
	PANAMA	205	130512.0	636.6	27.9
	ST. VINCENT	86	117161.0	1362.3	23.7
	SIERRA LEONE	35	10185.0	291.0	26.2
	VANUATU	64	93380.0	1459.1	7.5

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The fourteen countries listed on Table 1 were chosen on the basis of several factors. Four of the countries - Panama, Belize, Honduras and St Vincent and the Grenadines consistently top lists of FOC countries in terms of numbers of registered fishing vessels. They are also the countries most widely identified by regional fisheries management organizations as being the flag states of particular concern in relation to IUU fishing in a survey conducted in 2002. In addition to these four, Bolivia, Georgia, Equatorial Guinea, Sierra Leone, and Cambodia have been subject to import sanctions at one time or another by the International Commission for the Conservation of Atlantic Tunas (ICCAT) because of IUU fishing for tuna in the Atlantic Ocean by vessels flying their flags. The remaining five were chosen from the list of FOC countries identified by the International Transportworkers Federation and the report of the UN Secretary General's Consultative Group on Flag State Implementation<sup>3</sup> as having the highest number of fishing vessels on their registries in addition to the nine countries mentioned above.

- 5. In fact the list of countries on Table 1 could be much longer. The International Transportworkers (ITF) Federation identifies 28 countries as operating flags of convenience, including fishing and merchant vessels.<sup>4</sup> A UN FAO report published in 2002 lists 32 states as operating flags of convenience or open registries and having registered fishing vessels within recent years.<sup>5</sup>
- 6. To be clear, not every vessel flagged to the 14 countries listed above are necessarily engaged in IUU fishing. Twenty-one vessels flagged to Panama, for example, are listed on the ICCAT 'white list' of fishing vessels as authorized by Panama to fish in the Atlantic Ocean. The ICCAT list of 3,176 vessels authorized by contracting or cooperating parties to fish for tunas and tuna like species in the Atlantic, Caribbean, and Mediterranean Sea, also contains another twenty vessels combined flagged to Panama, St Vincent and the Grenadines, Honduras, and Belize as well as Bolivia, Vanuatu, and Sierra Leone. Most of these vessels are authorized to fish by Brazil. The Indian Ocean Tuna Commission (IOTC) does not list any vessels flagged to these 14 countries as being amongst the 2,030 vessels authorized by contracting or cooperating parties to fish tunas and tuna like species in the Indian Ocean. The Inter-American Tropical Tuna Commission (IATTC) lists fifty-two Panamanian flagged longline vessels and nineteen purse seiners

<sup>2</sup> Swann, J. Fishing Vessels Operating Under Open Registers And The Exercise Of Flag State Responsibilities: Information And Options. FAO Fisheries Circular No. 980, Rome 2002.

<sup>&</sup>lt;sup>3</sup> Consultative Group on Flag State Implementation. Advance, unedited text. Oceans and the law of the sea. United Nations, 5 March 2004

<sup>&</sup>lt;sup>4</sup> Antigua and Barbuda, Bahamas, Barbados, Belize, Bermuda, Bolivia, Burma/Myanmar, Cambodia, Cayman Islands, Comoros, Cyprus, Equatorial Guinea, Germany (second register), Gibraltar, Honduras, Jamaica, Lebanon, Liberia, Malta, Marshall Islands, Mauritius, Netherlands Antilles, Panama, Sao Tome e Principe, Sri Lanka, St Vincent and the Grenadines, Tonga, Vanuatu. The primary criteria the ITF uses in making such a designation is the extent to which there is a genuine link between the flag state and the owners of the vessels on its registry; that is, the extent to which vessels on the registry are foreign-owned. In classifying States as flag of convenience countries, the ITF also takes into consideration a State's ability and/or willingness to enforce international minimum social standards on its vessels, including respect for basic human and trade union rights, freedom of association and the right to collective bargaining with bona fide trade unions; its social record as determined by the degree of ratification and enforcement of ILO Conventions and Recommendations; and safety and environmental record as revealed by the ratification and enforcement of IMO Conventions and revealed by port state control inspections, deficiencies and Source: International Transportworkers Federation Steering the Right Course: Towards an era of detentions. responsible flag States and effective international governance of oceans and seas. June 2003. http://www.itf.org.uk/english/fisheries/pdfs/steeringrightcourse.pdf

<sup>&</sup>lt;sup>5</sup> Swann, J. Fishing Vessels Operating Under Open Registers And The Exercise Of Flag State Responsibilities: Information And Options. FAO Fisheries Circular No. 980, Rome 2002. Appendix I

<sup>&</sup>lt;sup>6</sup> ICCAT record of vessels as per the 2002 Recommendation by ICCAT Concerning the Establishment of an ICCAT Record of Vessels over 24 m Authorized to Operate in the Convention Area. http://www.iccat.org/vessel2/vessels.aspx (accessed 29 March 2004).

IOTC Record of vessels over 24 metres authorized to operate in the IOTC area (updated 2004-03-29). http://www.iotc.org/English/record/search.php

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(the flag and status of two are under dispute) authorized by Panama to fish in the Eastern Pacific Ocean. Honduras, Belize, Bolivia, and Vanuatu have an additional 18 vessels combined on the IATTC list of purse seine vessels. Unfortunately, the authors were unable to review the South Pacific Forum Fisheries Agency's Regional Register of Fishing Vessels to determine the extent, if any, that vessels flagged to the fourteen countries are on the list of vessels in good standing.

- 7. Given that many of the vessels flagged to the fourteen countries on Table 1 are longline vessels targeting tuna and other highly migratory species, this begs an important question: aside from the relatively small percentage authorized to fish as indicated above, where do these vessels fish? Taking Honduras as an example, it had 507 vessels over 24 meters registered in 2003. The website for the Honduras ships Registry states that, as a condition for obtaining the Honduran flag, "...fishing vessels have to submit an affidavit which states, according to the Resolution issued by the International Commission for the Conservation of Atlantic Tunas, that there is to be no tuna fishing. If this document is not presented, a clause which prohibits such activity will be placed on the back of the Certificate of Registration."
- 8. On the ICCAT list, there are four Honduran flagged vessels authorized by Brazil to fish in the ICCAT area under charter arrangements with Brazilian companies. An additional two tuna purse-seine vessels are authorized to fish in the Eastern Pacific in the IATTC area. No Honduran flagged vessels are listed as authorized to fish for tuna in the Indian Ocean. Of the remaining 501 large-scale fishing vessels on the Honduran registry, many, if not most, are likely to be tuna fishing vessels. If not the Atlantic, Indian Ocean or Eastern Pacific tuna fisheries, where are the remaining longline vessels authorized to fish?
- 9. In addition to the vessels registered to the fourteen countries listed on Table 1, the unknown category contains at least some vessels registered to flags of convenience as well. For example, in a random selection of thirty vessels on the 2003 Lloyd's database listed as flag "unknown", the authors determined the flags of thirteen of these by using data from other sources including Lloyds Marine Information Group, the International Telecommunications Union, INMARSAT and various national agencies responsible for the IMO program of Port State Control. Of these thirteen, eight were flagged to one of the 14 FOC countries, another 4 were flagged in countries not listed on Table 1, and one vessel was found to have been scrapped.

# Trends

10. With these caveats in mind, a number of interesting trends emerge from the information on the Lloyd's database.

## i. Top four flag of convenience countries:

11. Belize, Panama, Honduras, and St Vincent and the Grenadines collectively have had over 1100 fishing vessels registered to fly their flags in each of the three years. Over the period 1999-2003, although the number of vessels flagged to Belize declined by approximately 30% while the number flagged to Honduras increased by some 20%, all four countries remained at the top of the list of FOC countries in terms of the numbers of fishing vessels on their registries.

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<sup>&</sup>lt;sup>8</sup> List of authorized large longline vessels, IATTC Vessel database. Inter-American Tropical Tuna Commission.

<a href="http://www.iattc.org/vessellistopen/ALLLVList.aspx">http://www.iattc.org/vessellistopen/ALLLVList.aspx</a> (accessed 1 April 2004). Active purse-seine capacity lists, IATTC Vessel database. 1 March 2004. <a href="http://www.iattc.org/PDFFiles2/ActivePurseSeineCapacityList03012004.pdf">http://www.iattc.org/PDFFiles2/ActivePurseSeineCapacityList03012004.pdf</a>

<sup>&</sup>lt;sup>9</sup> http://www.marinamercante.hn/registry2.html fishing.

12. There have been a number of measures adopted over the past several years by ICCAT, CCAMLR, IOTC and other regional fisheries management organizations, including, in some cases, trade measures and import bans directed specifically at all four countries. While these measures apparently have resulted in some deregistration of fishing vessels from the registries of one or more countries (e.g. Panama) they have not prevented any of these states from continuing to maintain large numbers of fishing vessels on their registries if the Lloyd's information is at all correct. Nor have the measures adopted by the regional fisheries management organizations discouraged large numbers of ship owners interested in flying FOCs from continuing to register their ships to Panama, Belize, Honduras, and St. Vincent and the Grenadines.

#### ii. Up and coming FOCs/others:

- 13. Amongst the other countries on the list, Georgia, Cambodia, Vanuatu and Bolivia appear to be 'up and coming' flags of convenience for fishing vessels. The numbers of fishing vessels flagged to each of these four countries rose markedly between 1999-2003 with an increase from 70 to 184 fishing vessels registered to all four countries combined. Of the 64 vessels flagged to Vanuatu, twenty have been built in the last three years.
- 14. Cyprus continues to maintain over 40 fishing vessels on its registry in spite of the fact that it will join the European Union in May 2004 and the commitments made by the European Union to crack down on IUU fishing. Finally, while the number of vessels flagged to Honduras declined between 1999 and 2001, the number jumped from 313 vessels to over 500 vessels in 2003. In general terms, this dramatic a change in the numbers of fishing vessels on the Honduran registry would appear to be an ongoing indication of the relative ease with which fishing vessels are able to 'hop' from flag to flag.

# iii. Effectiveness of UN FAO IPOA:

15. One of the most obvious trends is that the number of fishing vessels on the Lloyd's Register database registered to these fourteen flag of convenience countries combined has declined only slightly, even two years after the adoption of the UN FAO IPOA on IUU fishing. Moreover, the number of vessels listed as flag "unknown" on the database has increased over the same period. As indicated earlier, eight vessels of a random sample of 30 vessels listed as flag "unknown" on the Lloyd's database were found to be registered to FOC countries suggesting that substantial numbers of vessels on this list may in fact be registered to FOC countries. Further investigation into the vessels registered to flags of convenience in the "unknown" category, and the reasons why these and others vessels are listed as such on the Lloyd's database, would be useful in providing a clearer picture of trends in the flagging of fishing vessels over the past several years. Nonetheless, assuming the information on the Lloyd's database is reasonably indicative of overall trends in the flag of convenience registries, from a global perspective the adoption of the UN FAO IPOA on IUU fishing and the efforts of regional fisheries management organizations and some states to combat IUU fishing to date have had little effect.

Table 2. Summary of trends in numbers, average tonnage and average length of fishing vessels (Fishing Vessels, Trawlers and Fish Factory Ships) registered to the 14 countries listed on Table 1, 1999-2003, compared to all fishing vessels ≥ 24 meters in length. Source Lloyd's Maritime Service

	Type of Vessels		% of total Vessels	Average Length	Average Gross Tonnage	Total Tonnage	% of Total Gross Tonnage	Average Age
1999	All Flags	19581		42.13	546.4	10,698,61 9.00		25.3
1999	FOC Flags (14 countries)	1449	7.4	50.41	780.8	1,131,449 .00	10.6	25.2
1999	Flag Unknown	1108	5.7	42.17	353.5	391,732.0 0	3.7	33.0
2001	All Flags	19206		42.38	543.6	10,441,28 9.00		25.0
2001	FOC Flags (14 countries)	1340	7.0	50.35	845.1	1,132,447 .00	10.8	24.4
2001	Flag Unknown	1248	6.5	43.46	429.4	535,878.0 0	5.1	30.1
2003	All Flags	19905		42.40	548.7	10,922,79 4.00		24.0
2003	FOC Flags (14 countries)	1279	6.4	48.51	806.0	1,030,883 .00	9.4	22.4
2003	Flag Unknown	1485	7.5	42.66	416.5	618,490.0 0	5.7	28.4

#### iv. New vessel construction:

- 16. Another trend that emerges is the fact that some 14% of large-scale fishing vessels built within the past three years were flying flags of convenience by the end of 2003. This represents a real problem in that a significant portion of new vessels appear to be built with a view to engaging in IUU fishing.
- Most of these vessels are built in Taiwan (see Table 3.2). In fact, of the 51 fishing vessels over 24 meters built in Taiwan over the past three years, 50 were flagged in FOC countries by the end of 2003 only one was flagged in Taiwan. It would be worth further investigation to determine whether any of the companies in Taiwan involved in building new vessels have benefited from funds for the joint Japan/Taiwan program designed to decommission large-scale tuna longline vessels. Further, given the status of Taiwan as a "Cooperating Party, Entity or Fishing Entity" of ICCAT, the government should be encouraged to ensure that no vessels built in Taiwanese shipyards are allowed to register to flag of convenience countries.

Table 3.1 Summary: New Fishing Vessel Construction 2001, 2002, 2003

Fishing Vessels > 24m built in 2001, 2002, 2003

	Number of Vessels Built	Total Gross Tonnage
Registered in All Countries	478	263354
Registered FOC or Unknown	58	36985
FOC and Unknown Vessels As	14.0	
A Percentage of Total Tonnage		
Belize	11	3644
Bolivia	5	4159
Cambodia	1	2495
Cyprus	0	0
Equatorial Guinea	0	0
Georgia	6	3289
Honduras	0	0
Marshall Islands	1	1152
Mauritius	0	0
Netherlands Antilles	1	393
Panama	9	2744
St. Vincents	1	635
Sierra Leone	0	0
Vanuatu	20	17631
Unknown	3	843

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Table 3.2 Names Fishing Vessels Flagged to FOCs and Unknown Built in 2001, 2002, and 2003

Vessel Name	Flag	Registered Owner	Residence of Registered Owner	Nationality of Builder	Length	Gross Tonnage
Belize						
RUEY TAY	Belize	RUEY YIH FISHERY	Belize	Taiwan	29.9	119
SAN JOSE	Belize	SEDAMANOS AREVALO	Ecuador	Ecuador	29.9	131
SOUTHERN STAR No. 888	Belize	GRACE MARINE	Taiwan	Taiwan	56.5	520
WANG JIA MEN	Belize	OWNER UNKNOWN	Unknown	Taiwan	29.8	140
YU LONG	Belize	OWNER UNKNOWN	Unknown	Taiwan	29.9	125
YU LONG No. 10	Belize	OWNER UNKNOWN	Unknown	Taiwan	29.9	125
YU LONG No. 2	Belize	OWNER UNKNOWN	Unknown	Taiwan	29.9	125
YU LONG No. 6	Belize	OWNER UNKNOWN	Unknown	Taiwan	29.9	125
ZEE CHUN TSAI No. 22	Belize	WU LAI MING	Taiwan	Taiwan	29.9	119
ZEE CHUN TSAI No. 23	Belize	OWNER UNKNOWN	Unknown	Taiwan	29.9	119
ZHOU SHAN 18	Belize	ZHOUSHAN PUTUO	China	China	86.2	1,996
	•	·		Total		3644
				Average	37.4	331.3

Bolivia						
CHAMPION	Bolivia	SUN HOPE	Taiwan	Taiwan	54.6	647
		INVESTMENT				
GEORGIA	Bolivia	GEORGIA FISHERY	Taiwan	Taiwan	62.6	878
HUNTER	Bolivia	HUNTER FISHERY	Taiwan	Taiwan	62.6	878
ISABEL	Bolivia	ISABEL FISHERY	Taiwan	Taiwan	62.6	878
JACKSON	Bolivia	JACKSON FISHERY	Taiwan	Taiwan	62.6	878
				Total		4159
				Average	60.99	831.8

Cambodia						
SHIN HO CHUN	Cambodia	LUBMAIN SHIPPING	•	Taiwan	85.2	2,495
No. 102						

Georgia							
CHEN	CHIEH	Georgia	PI CHING FISHERY	Taiwan	Taiwan	24.0	101
NO. 31							
CHEN	CHIEH	Georgia	PI CHING FISHERY	Taiwan	Taiwan	24.0	101
NO. 32							
KIEV		Georgia	KIEV FISHERY	Taiwan	Taiwan	54.6	647
MONAS		Georgia	MONAS FISHERY	Taiwan	Taiwan	63.2	1,105
NANTAI		Georgia	NANTAI FISHERY	Taiwan	Taiwan	63.2	1,105
SHANG JY	<u>/</u>	Georgia	SHINE-YEAR	Singapore	Taiwan	24.0	230
			MARITIME				
					Total		3289
					Average	42.1	548.2

Netherlands Anti	lles					
PATUDO	Netherlands Antilles	OVERSEAS TUNA	Spain	Spain	44.5	393
						1
Panama						
CHUNG KUO No. 81	Panama	GENESIS OCEAN	Panama	Taiwan	32.0	179
CHUNG KUO No. 85	Panama	GENESIS OCEAN	Panama	Taiwan	32.0	179
CHUNG KUO No. 86	Panama	GENESIS OCEAN	Panama	Taiwan	32.0	179
CHUNG KUO No. 91	Panama	GENESIS OCEAN	Panama	Taiwan	32.0	179
CHUNG KUO No. 95	Panama	GENESIS OCEAN	Panama	Taiwan	32.0	179
CHUNG KUO No. 96	Panama	GILONTAS OCEAN	Panama	Taiwan	32.0	179
MARINE 303	Panama	TUNA GLOBE	Taiwan	Taiwan	50.8	420
PESCA RICA No. 2		RICA PANAMA	Taiwan	Taiwan	59.2	625
PESCA RICA No. 6	Panama	GRANDE PANAMA	Taiwan	Taiwan	59.2	625
	•	•	•	Total		2744
l				Average	40.1	304.9

St. Vincents								
TUNA BRAS NO	St. Vincents	TUNABRAS INT.	British	China	57.4	635		
216			Virgin					
			Islands					

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Unknown						
BRAVE	Unknown	BRAVOTIME	Hong Kong	Taiwan	33.0	227
GREAT OCEAN I	Unknown	SOUTHERN CROSS	Vanuatu	Taiwan	34.6	296
SETA 70	Unknown	OWNER UNKNOWN	Unknown	Taiwan	46.0	320
				Total		843
				Average	37.9	281.0

Vanuatu						
CHIN CHUN No. 12		SHENG SHENG FISHERY	Vanuatu	Taiwan	61.0	637
FAIR VICTORY 707	Vanuatu	FAIR VICTORY INTL	Vanuatu	Taiwan	70.6	1,180
FONG SEONG 168	Vanuatu	TRANS-GLOBAL	Vanuatu	Taiwan	90.0	2,380
FONG SEONG 196	Vanuatu	TRANS-GLOBAL	Vanuatu	Taiwan	90.0	2,386
FU CHUN No. 126	Vanuatu	FU CHUN FISHERY	Vanuatu	Taiwan	61.0	637
HENG CHANG No. 168	Vanuatu	EVER FORTUNE	Vanuatu	Taiwan	61.0	637
HF No. 88	Vanuatu	HF FISHERY	Vanuatu	Taiwan	69.0	1,150
HSIANG SHENG No. 6	Vanuatu	HSIANG SHENG	Vanuatu	Taiwan	70.6	1,280
HSIANG SHUN	Vanuatu	HSIANG CHAN FISHERY	Vanuatu	China	52.7	560
JUI DER NO. 36	Vanuatu	JUI FU FISHERY	Vanuatu	China	61.5	558
JUPITER NO. 1	Vanuatu	JUPITER FISHERY	Vanuatu	Taiwan	61.5	699
MING MAN NO. 2	Vanuatu	MING SHUN FISHERY	Taiwan	Taiwan	61.5	660
MITRA No. 888	Vanuatu	RYH CHUN FISHERY	Vanuatu	Taiwan	61.5	660
MORE RICH	Vanuatu	SUN RISE FISHERY	Vanuatu	Taiwan	59.2	625
OCEAN HARVEST	Vanuatu	OCEAN HARVEST	Vanuatu	Taiwan	50.1	490
PACIFIC TRACKER NO. 116	Vanuatu	MELANESIA MARINE	Vanuatu	Taiwan	40.0	327
SHUN FA NO. 8	Vanuatu	SHUN FA FISHERY	Vanuatu	Taiwan	69.0	1,150
TO CHAN NO. 2	Vanuatu	SUN RISE FISHERY	Vanuatu	China	45.0	492
TUNAGO No. 62	Vanuatu	TUNAGO FISHERY	Vanuatu	Taiwan	45.0	498
		•		Total		17631
				Average	62.0	881.6

### v. Average size of FOC flagged vessels:

18. Finally, it is worth noting that the average length and tonnage of the vessels registered to the 14 countries listed are substantially higher than the averages for all fishing vessels combined (flying all flags) greater than or equal to 24 meters on the Lloyd's database (Table 2). For 2003, while the number of fishing vessels flying the flag of one of the fourteen FOC countries is only about 6.4 percent of the total, this fleet represents close to ten percent of the capacity of all 'large-scale' fishing vessels on the Lloyd's database as measured in Gross Tonnage.

#### 3. At-sea transhipment, tankers and resupply fleets

- 19. The viability of IUU fishing, like legal fishing, requires infrastructure and support services as well as access to market. A number of the provisions of the UN FAO International Plan of Action on IUU fishing recognize this fact. Paragraphs 73 and 74 of the IPOA call upon states to deter importers, transshippers, buyers, consumers, equipment suppliers, bankers, insurers and other services suppliers within their jurisdiction from doing business with vessels engaged in IUU fishing, including adopting laws to make such business illegal.
- 20. A major element of the supporting infrastructure for distant water fleet fishing on the high seas consists of at-sea transshipment and resupply vessels. Many high seas distant water fishing vessels stay at sea for long periods of time, transshipping their catches, refueling, rotating crews, and resupplying bait, food, and water through transshipment and resupply vessels servicing the fishing fleets at sea. In recognition of the essential role played by at-sea transshipment and resupply vessels to the operation of IUU fleets, the IPOA further elaborates on the subject of transshipment and resupply at sea and, in paragraphs 48 and 49 states:
  - 48. Flag States should ensure that their fishing, transport and support vessels do not support or engage in IUU fishing. To this end, flag States should ensure that none of their vessels re-supply fishing vessels engaged in such activities or transship fish to or from these vessels. This paragraph is without prejudice to the taking of appropriate action, as necessary, for humanitarian purposes, including the safety of crew members.
  - 49. Flag States should ensure that, to the greatest extent possible, all of their fishing, transport and support vessels involved in transshipment at sea have a prior authorization to transship issued by the flag State...

## 3.1 Transshipment: Fish transport vessels ("Reefers")

21. At-sea transshipment of the catch of fishing fleets targeting high value species of tuna such as Bigeye and Bluefin tuna operating in the Atlantic and Indian Oceans is a major component of the infrastructure supporting longline tuna fishing on the high seas. While there is no published list of transshipment vessels as far as the authors are aware, Table 4 contains a sample list of refrigerated cargo vessels that are likely to be transshipping high-grade tuna in the Atlantic, Indian Ocean and Pacific Oceans.

#### Methodology

22. This list was compiled on the basis of the following method and criteria: The major market for sashimi grade tuna is Japan and the major ports of entry for transshipped tuna into Japan were determined to be Shimizu and Yokosuka. Using the Lloyds Seasearcher database, a list of reefers regularly unloading

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in these ports was drawn up. Then, the voyages of each of these Reefers was analyzed looking for frequent transits through known tuna fishing areas and to ports known to be transshipment points for tuna, and for ships that spent significantly longer at sea in the tuna fishing areas than would normally be required for a typical transit. Once a likely candidate was identified, we then looked at other vessels owned or managed by the same company to see if any followed a similar trading pattern. This research yielded a list of over 150 reefers. We then investigated each vessel using the internet and various databases held by government and commercial organizations to narrow down the list to those most likely to be transshipping tuna at sea. The results of this procedure gave a provisional list of 66 reefers likely to be regularly picking up tuna from fishing vessels and delivering it to market in Japan. However, more research would be needed to determine the level of accuracy of the list. A representative sample of these vessels is listed in Table 4. Annex I lays out the port visits and itineraries of several of these vessels over the period 2001-2003.

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Table 4. Sample list of refrigerated cargo vessels delivering sashimi grade tuna to Japan.

VESSEL NAME	FLAG	OWNER/MANAGER	NATIONALITY OF OWNER/ MANAGER	COUNTRY OF FINANCIAL BENEFIT	PRINCIPAL AREAS OF OPERATION
1 AMAGI	PANAMA	KYOEI KAIUN KAISHA	JAPAN	JAPAN	PACIFIC-INDIAN
2 ASIAN REX	PANAMA	AZIA SEKKI	JAPAN	JAPAN	ATLANTIC-INDIAN
3 CHIKUMA	PANAMA	HAKKO MARINE	JAPAN	JAPAN	MED-INDIAN-ATLANTIC-SO
4 CORONA REEFER	JAPAN	TACHIBANA KAIUN	JAPAN	JAPAN	ATLANTIC-INDIAN-MED.
5 EITA MARU	PANAMA	TOEI REEFER LINE	JAPAN	JAPAN	ATLANTIC
6 FORTUNA REEFER	ST.	HABITAT	TAIWAN	TAIWAN	PACIFIC
	VINCENT	INTERNATIONAL			
7 FUJI	BAHAMAS	KASUGA KAIUN	JAPAN	JAPAN	INDIAN - ATLANTIC
8 GOLDEN EXPRESS	PANAMA	DONGWON INDUSTRIES	KOREA	KOREA	PACIFIC-INDIAN
9 GOUTA	PANAMA	CHIN FU FISHERY	TAIWAN	JAPAN	ATLANTIC
10 HARIMA 2	PANAMA	HAKKO MARINE	JAPAN	JAPAN	ATLANTIC-INDIAN
11 HARU	PANAMA	CHUO KISEN	JAPAN	JAPAN	ATLANTIC-INDIAN
12 HATSUKARI	PANAMA	ATLAS MARINE	JAPAN	JAPAN	ATLANTIC-PACIFIC
13 HONAI MARU	PANAMA	KYOEI KAIUN KAISHA	JAPAN	JAPAN	PACIFIC-INDIAN
14 KYUNG IL NO.7	KOREA	YUNG IL SHIPPING	KOREA	KOREA	PACIFIC
15 LUO HUA	ST.	LUODA SHIPPING	CHINA	CHINA	PACIFIC-INDIAN
	VINCENT				
16 MEITA MARU	PANAMA	TOEI REEFER LINE	JAPAN	JAPAN	ATLANTIC-PACIFIC
17 NEW PROSPERITY	PANAMA	NISSHIN KISEN	JAPAN	JAPAN	INDIAN-PACIFIC-ATLANTIC
18 REIFU	LIBERIA	KOREA MARINE	KOREA	JAPAN	ATLANTIC-INDIAN-PACIFIC
19 RYOMA	PANAMA	CHUO KISEN	JAPAN	JAPAN	ATLANTIC-INDIAN
20 SAGAMI 1	PANAMA	WAKOH KISEN	JAPAN	JAPAN	INDIAN-PACIFIC-ATLANTIC
21 SATSUMA 1	PANAMA	TACHIBANA KAIUN	JAPAN	JAPAN	PACIFIC-INDIAN-ATLANTIC
22 SEITA MARU	PANAMA	TOEI REEFER LINE	JAPAN	JAPAN	INDIAN-PACIFIC
23 SHIN IZU	PANAMA	KYOEI KAIUN KAISHA	JAPAN	JAPAN	INDIAN-PACIFIC
24 SHOFU	LIBERIA	KOREA MARINE	KOREA	KOREA	ATLANTIC-PACIFIC
25 TENHO MARU	PANAMA	HAYAMA SENPAKU	JAPAN	JAPAN	INDIAN-ATLANTIC-PACIFIC
26 TUNA QUEEN	PANAMA	ALAVANCA	JAPAN	JAPAN	MEDITERRANEAN
27 TUNABRIDGE	JAPAN	SHINKO SENPAKU	JAPAN	JAPAN	ATLANTIC-INDIAN-PACIFIC
28 TUNASTATES	PANAMA	SHINKO SENPAKU	JAPAN	JAPAN	INDIAN-ATLANTIC
29 YAMATO 2	PANAMA	WAKOH KISEN	JAPAN	JAPAN	ATLANTIC-INDIAN
30 YURISHIMA	PANAMA	ALAVANCA	JAPAN	JAPAN	PACIFIC

Table 5. Numbers and frequency of reefers likely to be delivering transshipped tuna to Shimizu and Yokosuka ports in Japan.

Ship Visits	2001	20	002	2003 A	verage/Year_
Shimizu	285	346	329	320	
Yokosuka	138	145	139	141	
Different Ships	20	001	2002	2003	Average/Year
Shimizu	64	69	65	66	
Yokosuka	50	48	45	48	

23. The case of the M/V Hatsukari, a vessel documented by Greenpeace International transshipping sashimi grade tuna in the South Atlantic from both IUU and legal longline vessels in May 2000 in the international waters in the South Atlantic, provides a practical illustration of the typical operation of a vessel involved in at-sea transshipment of high grade tuna destined for market in Japan. <sup>10</sup>

Case Study: M/V Hatsukari

#### M/V Hatsukari

On the 3rd of March, 2000, the M/V Hatsukari sailed from her homeport of Shimizu in Japan. The Hatsukari is a Japanese owned and Panama flagged refrigerated cargo ship, 94 meters long, displacing 3029 tons, with a crew of Japanese officers and Philippine sailors. After stopping in Busan, South Korea on the 12<sup>th</sup> and 13<sup>th</sup> of March and in Kaoshiong, Taiwan on the 16<sup>th</sup> and 17<sup>th</sup> of March where she most likely took on supplies for Korean and Taiwanese fishing vessels to add to those already on board for the Japanese fleet, she sailed toward Singapore to take on fuel.

The Hatsukari departed Singapore on the 24<sup>th</sup> of March for the 5,700 mile voyage to Cape Town. This voyage would normally take about 18 days, but the Hatsukari arrived in Cape Town on the 26<sup>th</sup> of April, 33 days after leaving Singapore. Given this passage time, it is likely that she made several rendezvous with vessels fishing in the western Indian Ocean to take on board their catch of frozen tuna. After servicing this fleet, the Hatsukari proceeded on to Cape Town where more supplies and spare parts were loaded for the long line fleets fishing for Big Eye tuna in the Atlantic Ocean off the African coast.

Companies that own or manage the long line tuna fishing vessels working the Eastern Atlantic Ocean had prearranged with the owners of the Hatsukari to have their catch picked up at sea and delivered to markets in Japan. Contact by radio was made between the Hatsukari and the fishing vessels, and a position and time for the rendezvous was arranged. As the Hatsukari entered the area, the long line fishing vessels pulled up their gear and one by one came along side the Hatsukari to discharge their cargo of frozen tuna and to pick up the food, supplies and spare parts.

On the 6<sup>th</sup> of May near position 9° 00 S - 5° 00 W, several hundred kilometers off the coast of Angola, the Greenpeace vessel M/V Greenpeace encountered the Hatsukari. The Hatsukari was observed meeting the Chien Chun No. 8, a Belize flag longliner and began transferring bait and receiving frozen tuna from the longline vessel. Soon afterward two more Belize flagged vessels, the Jeffrey 816 and Jackie 11 came

<sup>&</sup>lt;sup>10</sup> Bours H., Gianni M., Mather D., Pirate Fishing Plundering the Oceans. Greenpeace International February 2001.

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alongside the Hatsukari. Later the same day, the Cambodian flagged Benny No. 87 and two Taiwanese vessels, Yu I Hsiang and Jiln Horng 206, also took their turns.

Almost a month after leaving Cape Town, on the 25<sup>th</sup> of May, the Hatsukari made a brief stop at St. Vincents in the Cape Verde Islands. The Hatsukari arrived back in Cape Town on the 20<sup>th</sup> of June where it reportedly offloaded seventy-two tons of tuna of indeterminate species. She departed Cape Town on the 21<sup>st</sup> of June for the return voyage to Japan via Singapore. Again, this voyage, which would normally take approximately 18 days, took over a month due most likely to stops to service fishing vessels at-sea in the Indian Ocean. The Hatsukari arrived in Singapore on the 26<sup>th</sup> of July, departing the 29<sup>th</sup> to sail back to Japan. The Hatsukari arrived in Shimuzu on the 8<sup>th</sup> August where the transshipped cargo of high grade tuna was offloaded for market.

- 24. The M/V Hatsukari is one of a fleet of refrigerated cargo vessels or "reefers" that regularly travel from the ports of Shimuzu and Yokosuka in Japan, stopping at Busan, South Korea, Kaoshiong, Taiwan and Singapore, then continuing to the Indian and Atlantic Oceans, with stops at Cape Town, South Africa, Las Palmas in the Canary Islands of Spain and occasionally other Atlantic or Indian Ocean ports. These vessels spend relatively long periods of time at sea, transshipping sashimi grade tuna and resupplying high seas tuna longline fleets. The sample of reefers and their itineraries in Annex I follow similar patterns.
- 25. The Hatsukari was transshipping fish on the high seas from IUU fishing vessels as well as legal vessels fishing for tuna. Similarly, Greenpeace documented an attempted transshipment from a Belize flagged tuna longline vessel to the reefer M/V Toyou in the same area on 12 May 2000.<sup>11</sup> Like the Hatsukari, at least some portion of the transshipment fleet is likely to be servicing both IUU and legal tuna longline fishing vessels operating on the high seas. Although not impossible, it seems unlikely that a fleet of transshipment vessels would service IUU fishing vessels only.

Observers aboard transshipment vessels

- 26. In the same way that ICCAT, IOTC and the IATTC have developed lists of vessels authorized to fish in their respective areas of competence, the authors would argue that these and other RFMOs should require that all transshipment vessels operating in the area of competence of the organization have an authorization to transship at sea and that a list be compiled of such vessels. Furthermore, we would argue that relevant Regional Fisheries Management Organizations should agree to establish an observer program onboard all transshipment vessels to monitor and report on all transshipments in fisheries regulated by the RFMO at sea. The program should be operated under the authority or auspices of the RFMO, in cooperation with, but independent of, the flag states of the transshipment vessels (similar to the observer program on fishing vessels run by the IATTC). The failure of a tuna transshipment vessel to cooperate in the program should be made grounds for denial of port access (in other than emergency situations) and the imposition of other sanctions by the member countries of the RFMO, and others where possible.
- 27. Some of the practicalities of establishing an observer program emerge in reviewing the information on this list. All but seven of the sixty six vessels on the provisional list of reefers we identified as being involved in at-sea transshipping of high grade tuna are flagged to contracting parties of ICCAT, with most flagged to Panama and Japan. All but a handful are owned or managed by companies based in Japan and Korea. The cooperation of these three states: the flag states, market states and and/or countries of beneficial ownership of most of the transshipment fleet should be relatively straightforward all are

<sup>&</sup>lt;sup>11</sup> Ibid Greenpeace

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contracting parties of ICCAT and have committed to the IPOA on IUU fishing as well as similar resolutions on transshipment adopted by ICCAT.<sup>12</sup>

A similar situation applies for the fisheries in the IATTC area. Assuming that either or both ICCAT and the IATTC were to establish such an observer program, involving Panamanian flagged transshipment vessels and others, it should not be difficult to do the same for the Indian Ocean fisheries. Both Japan and Korea are members of the IOTC and it would be reasonable to assume that Panama could be persuaded to cooperate in such a program even though it is not currently a member of the IOTC. However, in addition to establishing observer programs, RFMOS should adopt measures to require that all transshipment vessels should be flagged to contracting parties or cooperating parties/entities of the RFMO, with sanctions applied to vessels (e.g. denial of port access) and countries (import restriction/bans) in contravention of the measures.

## 3.2 Tankers and Resupply vessels

29. Fleets of vessels that refuel and resupply high seas fishing vessels are also an essential element of the infrastructure necessary to maintain IUU fishing as well as fishing by legal operators. The authors attempted to put together a sample list of vessels most likely to be servicing distant water fishing vessels operating on the high seas and, in some cases within other countries EEZs, in Table 6.

#### Methodology

- 30. The methodology used in this case was as follows:
  - an internet search yielding several companies that specialize in refueling (bunkering) vessels at sea,
  - investigating tankers belonging to these companies, producing a profile of the vessels engaged in this type of work,
  - finding tankers fitting this profile using the Lloyds Register database,
  - reviewing the voyage history of each tanker to find those making regular voyages into areas known to be frequented by tuna fishing vessels and spending significantly longer at sea than would have been required for a routine transit.
- 31. This research produced a list of over 100 tankers which was then narrowed down to 54 that, for at least part of the year, are engaged in refueling and resupplying fishing vessels at sea. Again, this list is provisional and would require further research to verify that all of these vessels are involved, or highly likely to be involved, in refueling and reprovisioning distant water fishing vessels at sea. A sample of 30 of these vessels is included in Table 6.

<sup>&</sup>lt;sup>12</sup> For example Recommendation 02-23 adopted by ICCAT in 2002: Recommendation By ICCAT To Establish A List Of Vessels Presumed To Have Carried Out Illegal, Unreported And Unregulated Fishing Activities In The ICCAT Convention Area - Paragraph 9 "Contracting Parties and Cooperating non-Contracting Parties, Entities or Fishing Entities shall take all necessary measures, under their applicable legislation: e) To prohibit the imports, or landing and/or transshipment, of tuna and tuna-like species from vessels included in the IUU list". See also ICCAT Resolution 01-18: Scope of IUU Fishing. Adopted by ICCAT in 2001.

Table 6. Tankers and resupply vessels servicing fishing vessels at sea. Provisional list.

	TANKER NAME			NATIONALITY OF OWNER/ MANAGER	PRINCIPLE AREA OF OPERATION
1	ARSENYEV	RUSSIA	PRIMORSK SHIPPING	RUSSIA	ATLANTIC
2	ATOM 7	PANAMA	SEKWANG SHIPPING		PACIFIC
3	B.CUPID	SINGAPORE	ACELINE SHIP MNGT.	SINGAPORE	ATLANTIC
		KOREA	COSMOS SHIPPING	KOREA	PACIFIC
	DALNERECHEN SK		PRIMORSK SHIPPING	RUSSIA	ATLANTIC
	HAI GONG YOU 302	CHINA	CHINA NATIONAL FISHERIES	CHINA	ATLANTIC
7	HAI SOON 16	SINGAPORE	HAI SOON	SINGAPORE	INDIAN
8	HAI SOON II	SINGAPORE	HAI SOON	SINGAPORE	INDIAN
9	HAI SOON IX	SINGAPORE	HAI SOON	SINGAPORE	PACIFIC
10	HAI SOON XV	SINGAPORE	HAI SOON	SINGAPORE	ATLANTIC
11	HL TAURAS	SINGAPORE	HONG LAM MARINE	SINGAPORE	PACIFIC
12	HOBI MARU	ECUADOR	TOKO KAIUN	JAPAN	PACIFIC
13	HOSEI MARU	JAPAN	TOKO KAIUN	JAPAN	INDIAN
14	HOZEN MARU	JAPAN	TOKO KAIUN	JAPAN	PACIFIC
	JAPAN TUNA NO.3	PANAMA	JAPAN TUNA CO-OP	JAPAN	PACIFIC-INDIAN
16	KATIE	LIBERIA	AQUASIPS	LATVIA	ATLANTIC
17	KOSIAM	SINGAPORE	KOSIAM TRADING	SINGAPORE	PACIFIC
18	L. STAR	SINGAPORE	SEKWANG SHIPPING	SINGAPORE	INDIAN
19	SEA PEARL	SEYCHELLES	AL DAWOOD		ATLANTIC
20	MIGHTY 7	PANAMA	SEKWANG SHIPPING	KOREA	IND-PACIFIC
21	NAGAYEVO	CYPRUS	PRIMORSK SHIPPING CORP.	RUSSIA	ATLANTIC
22	NEW KOPEX	KOREA	SEKWANG SHIPPING	KOREA	PACIFIC
23	NIPAYIA	PANAMA	LOTUS SHIPPING	GREECE	INDIAN
24	ORIENTAL BLUEBIRD	PANAMA	NEW SHIPPING KAISHA	JAPAN	PACIFIC
	SHIN CO-OP MARU	PANAMA	KUMAZAWA	JAPAN	PACIFIC
26	SMILE NO.3	KOREA	SEKWANG SHIPPING	KOREA	PACIFIC
27	SOYANG	KOREA	SEKWANG SHIPPING	KOREA	PACIFIC
28	STAR TUNA	PANAMA	KOREA SHIP MANAGERS	KOREA	PACIFIC
	STARRY	SINGAPORE	HONGLAM SHIPPING	SINGAPORE	PACIFIC-INDIAN
30	VESTA 7	PANAMA	SEKWANG SHIPPING	KOREA	PACIFIC

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While the ownership and registered flags of these vessels involves a greater number of countries than do the high value tuna transshipment fleets, at least some the companies that own or manage tanker vessels are involved in a variety of other at-sea services. For example, ADDAX Bunkering Services owns or charters a fleet of 10-12 tankers that resupply fishing vessels in the Atlantic and Indian Oceans. This fleet also supplies offshore mining operations, oil platforms and seismic survey vessels. Amongst the services it supplies are fuel, provisions and fresh water. ADDAX is a subsidiary of the Geneva based transnational, ADDAX & ORYX group. Another company, SK Shipping operates a fleet of over 20 tankers supplying fuel and supplies to fishing fleets, world wide. According to their website, SK provides "...port bunkering and bunker-trading services in the North and South Pacific, the Atlantic Ocean, the Indian Ocean, PNG, Guam, and the Arafura Sea. We have also diversified our business to offer comprehensive fishing-vessel services to the fishing industry, including reefer service and fish trading". SK is a subsidiary of SK Group, the 3rd largest conglomerate in Korea.

- 33. Finally, some companies are involved in both transshipment of fish and resupply. Sunmar Shipping, for example services international fleets operating in the Russian Far East. According to its website, the company operates 20 vessels which transship "frozen fish and fish meal products" at sea and delivers the fish to markets in Europe, the United States, China, Korea, Japan and elsewhere. Sunmar also delivers provisions and supplies directly to the fishing fleets.<sup>15</sup>
- 34. It is difficult to understate the importance of tankers and resupply vessels to the operations of high seas IUU fishing fleets. Given the size, scope, visibility and the diversity of the operations of major companies involved in the business, RFMOs should engage these companies as they may be amenable to cooperating in international efforts to prevent, deter and eliminate IUU fishing, whether through observer programs, bringing company policies and business practices in line with RFMO recommendations, and/or by other means. Integrating tankers and resupply vessels and the companies that own, manage or charter these vessels into regional efforts to ensure effective compliance with RFMO measures are a necessary and potentially very effective means of combating IUU fishing.

#### 4. Recommendations/discussion

- 35. The following recommendations are drawn from the above research into recent trends in the use of flags of convenience fisheries and role and character of the at-sea transshipment, refueling and resupply fleets in supporting the operations of high value tuna longline fleets and other fishing fleets on the high seas.
- 36. The recommendations are as follows:
  - 1. Further investigation into the numbers of vessels registered to flags of convenience in the "unknown" category, and the reasons why these and others vessels are listed as such on the Lloyd's database, would be useful in providing a clearer picture of trends in the flagging of fishing vessels over the past several years.
  - 2. It would be worth further investigation to determine whether any of the companies in Taiwan involved in building new fishing vessels over the past three years, virtually all of which have been flagged to FOC countries, have benefited from funds for the joint Japan/Taiwan program designed to decommission large-scale tuna longline vessels.

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<sup>13</sup> http://www.addax-oryx.com/media/pdf/bunkers.pdf

<sup>&</sup>lt;sup>14</sup> http://www.skshipping.com/jsp/eng/company/overview.jsp

<sup>15</sup> http://www.sunmar.com/ssi/default.htm

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- 3. Given the status of Taiwan as a "Cooperating Party, Entity or Fishing Entity" of ICCAT, the government should be encouraged to ensure that no vessels built in Taiwanese shipyards are allowed to register to flag of convenience countries.
- 4. RFMOs should require that all transshipment vessels operating in the area of competence of the organization have an authorization to transship at sea and that a list be compiled of such vessels.
- 5. RFMOs should agree to establish an observer program onboard all transshipment vessels to monitor and report on all transshipment at sea. The program should be operated under the authority or auspices of the RFMO, in cooperation with, but independent of, the flag states of the transshipment vessels concerned.
- 6. RFMOS should adopt measures to require that all transshipment vessels should be flagged to contracting parties or cooperating parties/entities of the RFMO, with sanctions applied to vessels (e.g. denial of port access) and countries (import restriction/bans) in contravention of the measures.
- 7. RFMOs should engage companies that own, manage or charter tankers and resupply vessels servicing fishing vessels on the high seas to cooperate in international efforts to prevent, deter and eliminate IUU fishing, whether through observer programs, bringing company policies and business practices in line with RFMO recommendations, and/or by other means.
- 37. In addition to the above, as mentioned in executive summary the there are a number of other aspects of the infrastructure worldwide that support and facilitate IUU fisheries. It is clear from the Lloyd's data that the number of fishing vessels flying flags of convenience remains high in spite of the adoption of the UN FAO International Plan of Action on IUU fishing and the many efforts of regional fisheries management organizations over the past several years.
- 38. In the absence of (or, in effect, as a substitute for) effective flag state control, responsible nations will continue to incur the cost of deterring IUU fishing. These costs are essentially twofold: one, the cost of monitoring control and enforcement, whether at sea, in port, regulating imports or investigating and prosecuting nationals or companies within their jurisdiction involved in IUU fishing. Two, the cost to responsible fishing nations in terms of research, conservation and management and the loss of actual or potential revenue to IUU fishing.
- 39. As was discussed in a paper prepared by Gianni for WWF for the June 2003 meeting OECD Ministerial level Round Table on Sustainable Development related to fisheries, the financial benefit derived by Flag of Convenience states in registering fishing vessels are relatively small. By some estimates, the top four flag of convenience countries may derive only a few million US dollars per year in revenues from the flagging of over 1000 fishing vessels combined. By comparison, the cost to the international community of the failure of these states to exercise control over the activities of their fishing vessels is likely to be far larger.
- 40. It would be well worth considering a means or method to document and/or reasonably estimate the types of costs incurred by responsible flag states as a result of FOC fishing. Then, on this basis, seek compensation through international arbitration mechanisms available from specific states operating open registries whose vessels are fishing in a region in contravention of the measures established by a relevant fisheries management organization to the detriment of responsible flag states' fleets. Whether or not there is a genuine economic link between the flag state and the IUU fishing vessels or fleets flying its flag, the flag state bears the ultimate responsibility for the activities of the vessels. If an FOC state is faced with prospect of paying substantial sums in compensation to other states for its failure to regulate its fishing

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fleets, this could prove a significant and cost-effective deterrent to IUU fishing in ways which port state controls, market restrictions, and enhanced monitoring, control and surveillance have so far be unable to accomplish.

41. The authors hope to further develop this line of inquiry as part of a larger project involving further research into the variety of components of the international infrastructure supporting IUU fishing on the high seas.

# ANNEX I.

# SAMPLE OF PORT VISITS AND ITINERARIES OF REFRIGERATED CARGO VESSELS TRANSSHIPPING HIGH VALUE TUNA AT SEA FOR DELIVERY TO JAPAN. 2001-2003.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC		
	O/AII	125	maix.	ALIX	III/X	OON	002	AGG	<u> </u>	00.				
						M/V A	SIAN REX							
2001	CP - JPN SH		YK - SH - KA	SI - CP	E & W. ATL. (I	LA - ALG - COL	) PC - JPN	YK - TO -	SH - YK - KA	SI - CP	E. & W. ATLANTIC	PC - Y		
2002	YK - SI	H - YK - SH - KA	SI - CP	EAST ATLAN	NTIC (CP)	CP - SI	SH - YK - SI	H - YK - KA	SI - CP	EAST ATLANT	TIC (LAS PALMAS)	CP - 8		
2003	SH - B	U - SU - KA	SI - CP	E. ATLANTIC	(LAS PALMAS)	CP - SI	SH - YK - SH -	· SU - KA	EAS	Γ ATLANTIC (C	ATLANTIC (CAPE VERDE, ISLANDS) CP			
						M/V C	CHIKUMA							
2001		SH - T	O - YK JPN - I	ESP I	MEDITERRANEA	۸N	PL	T	O - SH - BU - KA	SI - CP	MEDITERR	ANEAN		
2002	MED (CRO)	MED - JPN	TO-SH SI-	SZC	MED	ITERRANEAN		SZC - SI	TO - SH - BU	KOR - MED	MEDITERRAN	NEAN		
2003	ME	D-JPN TO	- SH JPN - ME	ED .	MEDITERRANI	EAN	MED - JPN	SH - TO - S	H - KA JPN - N	1ED	MEDITERRANEAN	١		
						M/V	EITA MARU							
2001	SH - YK - SH	- YK - SH - YK - KA	A	IN	DIAN OCEAN		SH	I - YK - SH - YK -	· SH - KA		INDIAN OCEAN			
2002	SH	KA	SI - CP	EW. AT	LANTIC PC	- JPN	SH - YK - SH - Y	K - KA	JPN - TRN	WEST - EA	AST ATLANTIC	CP - SI		
2003	SH - YK	- SH - YK - KA	SI - CP	EAST ATLAI	NTIC CP -	SI	SH -	YK - SH - YK - S	H - YK - KA					
						M/V HA	RIMA 2							
2001	EAS	ST ATLANTIC	CP - SH	SH - YK	- SH - YK - KA - Bl	J   5	SOUTH CHINA S	EA - INDONESIA	S	H - YK - SH - YK -	KA - BU S. (	CHINA SEA - I		
2002	SH	BU - KA	S. CHINA S	EA - IND	SH	BU - K	A A	SOUTH CHINA	SEA - INDONESIA	YK -	SH - YK - SH - BU - KA			
2003	WEST PAC.(PA	A) SI	H - YK - SH - YK - KA	A TAI	- PC W	E. ATLANTIC (L	AS) CP-S	I SH - YK	( - SH - YK - SH - YK	- KA	S. CHINA SEA - IND.	SH		

#### M/V HARU

2001		KA - BU	- KA - BU - SH	JPN - PC	W E. ATLAN	TIC. (TRN - C	P) CP - S		SH - YK - SH	- YK - BU - KA	S. CHIN	IA SEA - INDON	IESIA. S
2002	YK - SH - KA		INDIAN OCEAN (MA	.)	SH - YK - TO - KA		NDIAN O. (SY	HELLES	S) SH	- YK - KA	MEDITERR	ANEAN	SH - KA
2003	SI - CP	EAST - WEST	Γ ATLANTIC (CP-LA)	CP - SI	SH - YK - SH	- BU - KA	SI - CP	EAS	ST ATLANTIC	CP - SI	SH - TO - TO - KA	SI - SY	INDIAN OCEAN
	JAN	FEB	MAR	APR	MAY	JUN	JU	L	AUG	SEP	OCT	NOV	DEC

#### M/V HATSUKARI

2001	SH - YK - S	SH - YK - KA - SH	WEST PACIFIC (PA	A) BU - SH -	YK - KA - BU	WEST PACIFIC	SH - BU - SH - YK - SH - HA	
2002	JPN - PC	WEST ATLANTIC (LA	- CVI) PC - JPN	BU - SH	SI - CP	EAST ATLANTIC (CP - S	SVI) CP - SI	SH - YK
2003	SH - YK	WEST - EAST PA	ACIFIC	SH - YK - TO - SH - BU - KA		EAST PACIFIC (CA)	YK - SH - TO -	- BU - KA JPN

#### M/V MEITA MARU

2001	SH - HA	SI - CP	EAST ATLANT	TIC (LAS P	'ALMAS)	CP - SI	SH - Y	K - SH - YK - S	SH - YK	JPN - PER	W. & E. F	PACIFIC (CA)	PER - JPN	SH - BU -	- SH - HA - BU
2222		· · · · · · · · · · · · · · · · ·	D.1.1110)	05 0		011 011 011	17.4	01 00	5107	ATI ANTIO (0ABE)	(5555)	05 01	011 )/// 011	011 174	01 05
2002	SI - CP	E. ATL. (LAS	PALMAS)	CP - SI		SH - BU - SH -	KA	SI - CP	EAST	ATLANTIC (CAPE \	/ERDE)	CP - SI	SH - YK - SH -	· SU - KA	SI - CP
2003	EAST ATLA	NTIC (LAS PALMA	18)	CP - SI	211		YK - HA - KA	SI - CP		E. & W. ATLANT		- E DACIEIC	PC - JPN	SH - VK -	- SH - TO - SH
2003	EASTAILA	INTIC (LAS FALIVIA	43)	)F - 31	ЭП		I N - MA - NA	SI - CF		E. & W. ATLAINT	IC - LA - FC	- E. FACIFIC	FC-JFN	3H - IK -	- 3H - 10 - 3H

### M/V NEW PROSPERITY

2001	V	V. PAC	YK - SH - YK - SH - TO - KE	E	JPN - PER	EAST PAG	CIFIC (CA)	PER - JPN	SH - B	U - TO - YK - I	BU - SH		SI - CP	EAST A	ATLANTIC (CP -	- WB)	CP-SI
			11 )/// OU BU //		W 540 (0U 54)		\## QU TO	\## OII	\## OII		. [		24 OLEIO (DEDI.))		DED 140	lvar ou	
2002	-	5	H -YK - SH - BU - KA		W. PAC (SU-PA)		YK - SH - TO	- YK - SH -	YK - SH	JPN - PE	Κ	E. I	PACIFIC (PERU)		PER - JAP	YK - SH -	· HA - KA
2003		SI - CP	EAST ATLANTIC (CP)		P-SI SH		<b>_</b> BU - KA		W DAC	(6)()		VIZ	TO - BU - KA		INDIANO	CEAN (SY	Λ I
2003		SI - CP	EAST ATLANTIC (CP)	U	P - SI SH		BU - KA		W. PAC.	(SV)		YK-	10 - BU - KA		INDIAN O	CEAN (SY	)

#### M/V SHOFU

2001		EAST ATLAN	ΓΙC (LAS PA	LMAS) CP - SI	SH		YK - BU - KA		WEST PAC (PA	١)	SH	BU - KA - BU - SH	
2002	WEST PACIF	C (PAPEETE		SH - BU - SH - YK - B	II-KA	SI - CP	EAST ATLANTIC	C (CAPE TO	OWN) CP -	SI BU-	SH	BU - SH - BU - KA	
2002	WEOTTAOII	O (I AI LLIL)		011-100-011-11C-1	O - IVA	01-01	LAOT ATEANTIC	J (OAI L TO	) (OI	OI BO	OII	BO - GIT - BO - IKA	
2003	WEST PAC	FIC	YK - SH	SH	SI - I	MED I	E. ATL- MED (LA-ESP)	MED -	SI SH-T	O - BU - KA	SI - PC	WEST & EAST ATLAN	TIC (LA)

# M/V TENHO MARU

2001	EAST PACIFIC	SH -YK - SH	S	SI - SZC MED -	E. ATLANTIC (	LA - ESP)	SZC - S	SI SH	YK	- SH - YK	E.PA	AC (MA) SH
2002	W.PAC SH -YK	- SH - TO - SH - KA	SI - SZC	ME. E. ATLAN	NTIC (LA - ESP)	SZ	- SI	BU - TO -	SH - KA - BU - SH	ı	W. PAC	IFIC (PAPEETE)
2003	SH - BU - SU - S	H - KA - BU	W. PACIFIC (F	PAPEETE)	SH	SH - BU - F	KA S	I - SY INDIA	AN OCEANS (SYC	CHELLES)	SY-INO SH	I SH - BU - K
	JAN	FEB MAR	APR	MAY	JUN	Jl	JL	AUG	SEP	OCT	NOV	DEC
					M/V T	UNASTAT	ES					
2001	EAST ATLANTIC	(CAPE TOWN)	CP - SI	SH - TO - SH - I	BU - KA	SI - CP	EA	AST ATLANTIC (CF	P) CP - :	SH SH		BU - KA - SU
2002	INDIAN OCEAN (S	SY) SH		BU - KA	SI - LA E	. ATLANTIC	LA ·	- COL - PC - JPN	BU -SH - TO	SH - SU - F	KA A	INDIAN O. (SY
2003	INO YK	C-SH BU	WEST PACIFI	TC (SUVA)	SH - TO - YK	- BU - KA		INDIAN OCE	AN	YK - TO	- SU - KA	SI - CP
					M/V	YAMATO	2					
2001	SH - KA	SI - CP	EAST ATL	ANTIC CP -S	BI	SH - YK - SH	- BU - KA	S. (	CHINA SEA - INDO	DNESIA	SH - Yk	( - SH - BU - KA
2002	S. CHINA SEA - INDO	NESIA SH	- YK - SH - YK - SH	I - KA S.	CHINA SEA - IN	DONESIA	SH	1 - YK - SH - BU - k	KA SI - C	P SOUTH	H ATLANTIC	CP - SI SH
2003	YK - SH - KA	S. CHINA SEA - INDON	IESIA SH -	- YK - SH - BU - KA	S. CHINA	SEA - INDON	ESIA	SH - TO - SH - K	A - SH JP	N - TRN	WEST AND E	EAST ATLANTIC

=	LOADING FISH AT SEA OR IN PORT	=	VESSEL IN TRANSIT	= VESSEL IN PORT DISCHARGING CATCH OR STANDING BY
ALG	ALGERIA			
ATL	ATLANTIC OCEAN		MED	MEDITERRANEAN
BU	BUSAN, S. KOREA		MN	MANTA, ECUADOR
CA	CALLAO, PERU		PA	PAPEETE, TAHITI
CO	COLUMBIA		PAC	PACIFIC OCEAN
CP	CAPE TOWN, SOUTH AFRICA		PC	PANAMA CANAL
CRO	CROATIA		PER	PERU
CVI	CAPE VERDE ISLANDS		PL	PORT LINCOLN, AUSTRALIA
DU	DURBAN, SOUTH AFRICA		TRN	TRINIDAD
ESP	SPAIN		SH	SHIMUZU, JAPAN
FR	FREMANTLE, AUSTRALIA		SI	SINGAPORE
HA	HAHINOHE, JAPAN		SU	SUAO, TAIWAN
IN	INDONESIA		SV	SUVA, FIJI
INO	INDIAN OCEAN		SY	SEYCHELLES
JPN	JAPAN		SZC	SUEZ CANAL
KA	KAOSHUING, TAIWAN		TAI	TAIWAN
KE	KESENNUMA, JAPAN		то	TOKYO, JAPAN
KOR	KOREA		TUN	TUNESIA
LA	LAS PALMAS, CANARY ISLANDS		WB	WALVIS BAY, NAMIBIA
MA	MAURITIUS		YK	YOKOSUKA JAPAN
MAL	MALTA			

# ANNEX II. SAMPLE ITINERARIES OF TANKERS REFUELING FISHING VESSELS AT SEA. 2001-2003

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
•						M/T STA	AR TUNA					
2001		HI NO	ORTH EAST PAC	IFIC HI EAST	PACIFIC HI	EAST PAC	IFIC HI	NORTH W	/EST PACIFIC	н	WEST PACIFIC	SH
2002	UL-BU	WEST PACIF	IC HI E	EAST PACIFIC	HI EAST PA	CIFIC HI EA	ST PACIFIC HI	WEST PACI	FIC BU	EAST PA	CIFIC HI	EAST PAG
2003		WEST PACIFIC	; BU	SI		NOF	RTH PACIFIC		Н	EAST PACIFI	IC HI EAS	ST PACIFIC
						M/T B.	CUPID					
2001	E.ATL LP	E.TL LP E.ATL	E.ATL LP	E.ATL AB E.A	ATL AB E. ATL	ANTIC TE	E. ATLANTIC	LP EAS	T ATLANTIC	LP	EAST ATLANTIC	AB
2002	E.ATL LP	EAST ATI	_ANTIC	AB E.ATL TE	AB E	AST ATLANTIC	TE E. ATL	ANTIC LO E	ATL LO E.A	ATL LO LO	E. ATLANTIC	LO E.ATI
2003	те те	EAST A	TLANTIC	LP	EAST ATLA	NTIC	LP E.ATL	TE TE E.A	TL LP EAS	ST ATLANTIC	LP EAST A	FLANTIC
						M/T A	TOM 7					
2001		WEST PACIFIC	;	YO W.PA	C YO-AK			PACIF	IC		YO	PACIFIC
2002	PAC YO	WES	T PACIFIC	GU								NA
2003	UL	W. PACIFIC	UL PAC	DIFIC BA	E.PAC BA	EAS <sup>-</sup>	T PACIFIC	BA EAST	PACIFIC BA	EAST PAC	IFIC BA E	E.PAC BA

#### M/T VESTA 7

