

THE IMPRACTICABILITY EXEMPTION TO THE WCPFC'S PROHIBITION ON TRANSHIPMENT ON THE HIGH SEAS

BY
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Transshipment at sea allows fishing vessels to offload their catch on to carrier vessels, take on supplies, and continue fishing without leaving their fishing grounds. Worldwide, transshipment at sea, particularly on the high seas, poses serious problems because it is largely unmonitored. It is associated with higher levels of illegal, unreported, and unregulated fishing and has also been implicated in a range of criminal activities, including wildlife trafficking, drug trafficking, human smuggling, and more. For these reasons, the international community has sought to limit or ban transshipment at sea. The Western and Central Pacific Fisheries Commission (WCPFC) prohibits transshipment at sea by purse seine vessels. For longline and other non-purse seine vessels, however, it prohibits transshipment on the high seas unless a WCPFC member determines that transshipment in port is “impracticable” because it would cause “significant economic hardship” or require a vessel to make “significant and substantial changes to its historical mode of operation.” Certain WCPFC members, however, treat this exemption as the rule. The evidence strongly indicates that transshipment in port would not cause significant economic hardship or a substantial change to a vessel’s mode of operation. Moreover, market reasons do not suggest that transshipment at sea is needed to get valuable fish products to market.

This Article proposes replacement of the “impracticability” test with bright line rules—namely, a presumption against transshipment on the high seas. It allows, however, time-limited exemptions to ensure transshipment of ultra-low temperature frozen fish from a fishing vessel to a carrier vessel and for fresh fish but directs the Secretariat to study

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the circumstances under which these exemptions are needed; the exemptions expire unless these studies conclude that the exemptions are necessary. In addition, and in sharp contrast to the current regime, the exemptions must be approved by the WCPFC; they cannot be unilaterally established. The process that applies to exemptions for purse seine vessels would be applied to all other vessels. Moreover, to allow the WCPFC to review implementation of such plans to encourage transshipment in port, exemptions may not be granted for more than three years, although CCMs may apply for a new exemption at the end of the three years. Only through such a process can the WCPFC help minimize illegal, unreported, and unregulated fishing, prevent human rights abuses, and reduce opportunities for human trafficking and smuggling of guns, drugs, and wildlife. At the same time, it will help Pacific Island States develop their ports and economies.

| | | |
|-------|--|-----|
| I. | INTRODUCTION..... | 133 |
| II. | THE MOVE TOWARDS TRANSHIPMENT IN PORT | 138 |
| III. | THE TRANSHIPMENT RULES OF THE WCPFC | 140 |
| | A. <i>The WCPF Convention</i> | 140 |
| | B. <i>CMM 2009–06</i> | 141 |
| | C. <i>Transshipment in Practice</i> | 144 |
| IV. | OTHER APPROACHES TO DEFINING “IMPRACTICABILITY” AND TO HIGH SEAS TRANSHIPMENT..... | 146 |
| | A. <i>The Executive Director’s 2013 Approach</i> | 147 |
| | B. <i>The Secretariat’s 2016 Approach</i> | 149 |
| | C. <i>Transshipment Rules of the Other Tuna RFMOs</i> | 151 |
| V. | THE CCM’S VIEWS OF “IMPRACTICABILITY” | 155 |
| VI. | IS TRANSHIPMENT IN THE WCPFC CONVENTION AREA REALLY IMPRACTICABLE?..... | 159 |
| | A. <i>Location and Composition of the Catch in the WCPFC Convention Area</i> | 160 |
| | B. <i>Ports and Port Infrastructure</i> | 162 |
| | C. <i>The Role of Transshipment Fees and Other Port Costs</i> | 166 |
| | D. <i>Fuel, Labor, and Other Costs and Trends</i> | 168 |
| | E. <i>The “Fresh Fish” and “ULT Fish” Exemptions</i> | 173 |
| VII. | RETHINKING THE IMPRACTICABILITY STANDARD: A PROPOSAL | 175 |
| | A. <i>Problems with the Impracticability Test</i> | 175 |
| | B. <i>A New Test: A Presumption Against High Seas Transshipment</i> | 178 |
| VIII. | CONCLUSION..... | 185 |

I. INTRODUCTION

The Convention on the Conservation and Management of Highly Migratory Fish Stocks in the Western Pacific Ocean (WCPFC Convention) establishes the Western and Central Pacific Fisheries Commission (WCPFC)¹ to manage tuna and other fish stocks in an area that covers roughly 20% of Earth's surface.² The WCPFC includes a mix of Pacific Island States that manage tuna stocks in their jurisdictional waters and rely on tuna as a major economic resource and distant water fishing nations that have historically had short-term economic interests in the fisheries.³ As a consequence, the WCPFC has found it difficult to manage tuna and other species effectively, with the short-term profit motives often prevailing over a more conservation-oriented approach.⁴ For example, Pacific bluefin tuna is now at 2.6% of historic spawning biomass⁵ and stock levels for other tuna species appear headed in the same direction.⁶

Fisheries scientists tasked with providing advice to the WCPFC on maximum sustainable yields for fish catches have been challenged to provide this advice⁷ for a number of reasons,⁸ including “important gaps” in

¹ Convention on the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific Ocean, Sept. 5, 2000, 2275 U.N.T.S. 40532, <https://perma.cc/5CAL-V54P> [hereinafter WCPFC Convention].

² *Frequently Asked Questions and Brochures*, W. & CENT. PAC. FISHERIES COMM'N, <https://perma.cc/Q9Y4-RSG4> (last updated Mar. 3, 2010).

³ Pepe Clarke, *Management of Tuna Fisheries in the Western and Central Pacific*, in SHARED RESOURCES: ISSUES OF GOVERNANCE 199, 203–04 (Sharelle Hart ed., 2008) (describing how Japan, Chinese Taipei, South Korea, and the United States—all distant water fishing nations—wanted the fish for commercial sale at large profit margins, whereas the Pacific island developing states wanted greater economic benefits from their tuna fisheries).

⁴ See *Frequently Asked Questions and Brochures*, *supra* note 2 (“The small island developing States of the Pacific have long held aspirations for developing their own domestic commercial fisheries and retaining an even greater share of the benefits from the multi-billion dollar fishery in their backyards. At the same time, the well-established fleets of the industrialized countries continue to grow and become more efficient with the advent of new and better fishing technology. Such growth in the number of fishing vessels in both small and large fleets, coupled with higher productivity in some fleets, poses real threats to the sustainability of WCPO tuna resources.”).

⁵ W. AND CENT. PAC. FISHERIES COMM'N, TWELFTH REGULAR SESSION OF THE SCIENTIFIC COMMITTEE: SUMMARY REPORT, at xvii fig.7-5 (2016), <https://perma.cc/CSEX-3HUY> [hereinafter SC12 SUMMARY REPORT].

⁶ The WCPFC's Scientific Committee reported the following at its 2018 meeting with respect to bigeye tuna in the eastern Pacific Ocean (EPO):

All the indicators, except catch, show strong trends over time, indicating increasing fishing mortality and reduced abundance, and are at, or above, their reference levels. The increasing number of sets and the decreasing mean weight of the fish in the catch suggests that the bigeye stock in the EPO is under increasing fishing pressure, and measures additional to the current seasonal closures, such as limits on the number of floating-object sets, are required.

W. AND CENT. PAC. FISHERIES COMM'N, FOURTEENTH REGULAR SESSION OF THE SCIENTIFIC COMMITTEE: SUMMARY REPORT ¶ 40 (2018), <https://perma.cc/J5KQ-6R2G>.

⁷ A regular feature of WCPFC meetings is a document, prepared by the WCPFC's science providers, called “data gaps.” See, e.g., Peter Williams, W. and Cent. Pac. Fisheries Comm'n,

catch, effort, and size composition data.⁹ For example, the vessels of some members tranship fish on the high seas to carrier vessels (often referred to as refrigerated vessels or “reefers”), non-fishing vessels with massive capacity to move refrigerated or frozen fish from ocean to port.¹⁰ Most regional fisheries management organizations (RFMOs), like the WCPFC, have identified transshipment at sea—both within waters under national jurisdiction and on the high seas—as a major concern because it is difficult, if not impossible, to monitor.¹¹ Without effective monitoring, transshipment provides easy opportunities to mix illegal or unreported catch with legal catch, thus allowing illegal operators to “launder” their product.¹² Transshipment at sea has also been implicated in a range of criminal activities, including wildlife trafficking, drug trafficking, human smuggling, and more.¹³

For these reasons, the international community has sought to limit or ban transshipment at sea.¹⁴ The United Nations Fish Stocks Agreement requires flag states to regulate transshipment on the high seas to ensure that the effectiveness of conservation and management measures is not

Scientific Data Available to the Western and Central Pacific Fisheries Commission, at 2, WCPFC-SC11-2015/ST WP-1 rev.1 (Aug. 5–13, 2015), <https://perma.cc/C68V-VAW3>; Peter Williams, W. and Cent. Pac. Fisheries Comm’n, *Scientific Data Available to the Western and Central Pacific Fisheries Commission*, at 2, WCPFC-SC10-2014/ST WP-1 (Aug. 6–14, 2014), <https://perma.cc/H34G-F3U8>.

⁸ For example, several WCPFC members refused to provide operational level data on fish catches. Chris Wold et al., *Bringing Pacific Bluefin Tuna Back from the Brink: Ensuring the Submission of Operational Data to the Western and Central Pacific Fisheries Commission*, 6 MICH. J. ENVTL. & ADMIN. L. 239, 258 (2016), <https://perma.cc/87NK-AL9D>. These members now appear to be providing that data moving forward but they still have not provided historical data on fish catches. Peter Williams, W. and Cent. Pac. Fisheries Comm’n, *Scientific Data Available to the Western and Central Pacific Fisheries Commission*, at 2, WCPFC-SC13-2017/ST-WP-01 (Aug. 9–17, 2017), <https://perma.cc/WU2R-CGJG> (stating that “[t]he continued provision of operational data for the Japanese, Chinese and Korean tuna fleets is also noteworthy”); see also Chris Wold et al., *Bringing Southern Bluefin Tuna Back from the Brink: Enhancing Understanding of the Scientific Process in the Western and Central Pacific Fisheries Commission*, 42 B.C. ENVTL. AFFAIRS L. REV. 347 (2015) (describing the conflicting scientific advice that the WCPFC receives from its two different science providers).

⁹ See Peter Williams, W. and Cent. Pac. Fisheries Comm’n, *Scientific Data Available to the Western and Central Pacific Fisheries Commission*, at 1, WCPFC-SC14-2018 ST-WP-01 rev. 1* (Aug. 13, 2018), <https://perma.cc/3RJ9-A8C6>.

¹⁰ LACEY MALARKY & BETH LOWELL, NO MORE HIDING AT SEA: TRANSSHIPPING EXPOSED 4 (2017), <https://perma.cc/SFV2-KASF>.

¹¹ Christopher Ewell et al., *Potential Ecological and Social Benefits of a Moratorium on Transshipment on the High Sea*, 81 MARINE POL’Y 293, 296 (2017).

¹² See *id.* at 294 fig.1, 295.

¹³ U.N. OFFICE ON DRUGS AND CRIME, TRANSNATIONAL ORGANIZED CRIME IN THE FISHING INDUSTRY: FOCUS ON TRAFFICKING IN PERSONS, SMUGGLING OF MIGRANTS, ILLICIT DRUGS TRAFFICKING 9–10 (2011), <https://perma.cc/V5DM-5ZUN>.

¹⁴ See U.N. Conference on Straddling Fish Stocks and Highly Migratory Fish Stocks, *Agreement for the Implementation of the Provisions of this United Nations Convention of the Law of the Sea of 10 December 1982 Relating to the Conservation and Management of Straddling Fish Stocks and Highly Migratory Fish Stocks*, preamble ¶¶ 2, 5, 9, art. 18, U.N. Doc. A/Conf.164/37 (Dec. 11, 2001).

undermined.¹⁵ The United Nations General Assembly has noted “the importance of adequately regulating, monitoring and controlling transshipment at sea to contribute to combating illegal, unreported and unregulated fishing activities.”¹⁶ It has called “upon States to take all measures necessary to ensure that vessels flying their flag do not engage in transshipment of fish caught by fishing vessels engaged in illegal, unreported, and unregulated [(IUU)] fishing” by monitoring, controlling, and preventing transshipment at sea.¹⁷ The United Nations Food and Agriculture Organization (FAO) Technical Guidelines for Responsible Fisheries state that a high seas transshipment ban would be an effective means of limiting IUU fishing.¹⁸

The WCPF Convention and the WCPFC have also sought to limit transshipment at sea, but they have established different transshipment rules for purse seine vessels and other fishing vessels.¹⁹ The WCPF Convention expressly prohibits transshipment on the high seas and in a WCPFC Member’s territorial sea and exclusive economic zone by purse seine vessels operating within the WCPFC Convention Area.²⁰ For longliners and other vessels, however, the WCPF Convention only requires WCPFC members and cooperating non-members (collectively known as CCMs) to “encourage their vessels, to the extent practicable, to conduct transshipment in port.”²¹ Through a binding conservation and management measure (CMM)—CMM 2009–06—the WCPFC prohibits longliners and other vessels from transshipping on the high seas except where CCM has determined that “it is *impracticable* for certain vessels . . . to operate without being able to tranship on the high seas.”²² CMM 2009–06 requires WCPFC Members to make vessel-specific determinations as to impracticability and submit a plan detailing the steps being taken to encourage transshipment in port.²³ However, certain CCMs are not implementing either of these duties and transshipment on the high seas has become the norm rather than the exception.²⁴ Just under 55% of longline and other non-purse vessels are

¹⁵ *Id.* at art. 18, ¶ 1.

¹⁶ G.A. Res. 70/75, ¶ 27 (Dec. 8, 2015).

¹⁷ *Id.* at ¶¶ 79, 99.

¹⁸ U.N. FOOD AND AGRIC. ORG., IMPLEMENTATION OF THE INTERNATIONAL PLAN OF ACTION TO PREVENT, DETER AND ELIMINATE ILLEGAL, UNREPORTED AND UNREGULATED FISHING: FAO TECHNICAL GUIDELINES FOR RESPONSIBLE FISHERIES NO. 9., at 29 (2002), <https://perma.cc/7AP6-2TA2> [hereinafter TECHNICAL GUIDELINES FOR RESPONSIBLE FISHERIES].

¹⁹ See WCPF Convention, *supra* note 1, at art. 29.

²⁰ *Id.* at art. 29, ¶ 5.

²¹ *Id.* at art. 29, ¶ 1. In addition, it requires transshipping in jurisdictional waters to take place in accordance with applicable national laws. *Id.* at art. 29, ¶ 2.

²² W. and Cent. Pac. Fisheries Comm’n, *Conservation and Management Measure on the Regulation of Transshipment*, at ¶ 34, CMM 2009–06 (Dec. 7–11, 2009), <https://perma.cc/9H4J-RHVY> (emphasis added) [hereinafter CMM 2009–06].

²³ *Id.* at ¶ 35(a)(ii), (v).

²⁴ W. and Cent. Pac. Fisheries Comm’n, *Guidelines for Determining Impracticability—High Seas Transshipment Activities*, WCPFC-TCC9-2013-17 (Aug. 30, 2013), <https://perma.cc/N429-S24B> [hereinafter *2013 Guidelines for Determining Impracticability*] (stating that Members have not complied with paragraph 35(a)(v)); W. and Cent. Pac. Fisheries Comm’n, *Development of*

registered to tranship on the high seas²⁵ and significant amounts of valuable tuna, including 42.2% of bigeye tuna, are transhipped on the high seas.²⁶ Clearly, CMM 2009–06 is not effectively reducing transshipment on the high seas.

Moreover, the evidence indicates that transshipment in port is not impracticable. Port infrastructure throughout the region is sufficient to support and supply fishing vessels.²⁷ The purse seine fleet, which catches a significant amount of fish on the high seas, still manages to tranship in port.²⁸ At least three longline fleets—those of the European Union, Japan, and the United States—fish on the high seas hundreds of nautical miles from port, yet tranship all (E.U. and U.S.) or most (Japan) of their high seas catch in port.²⁹ Yet, a large number of high seas transshipments occur just outside the exclusive economic zones (EEZs) of CCMs,³⁰ about 200 nautical miles from a port,³¹ suggesting that these vessels are able to travel a much shorter distance than the E.U., U.S., and Japanese longliners do to tranship in port. It also suggests that they are moving from waters under national jurisdiction to the high seas in order to avoid monitoring by coastal state CCMs. In fact, over the last two years, just three CCMs—China, Chinese Taipei, and Vanuatu—accounted for 84% and 89% of those transshipments in 2015 and 2016, respectively.³² Moreover, costs associated with transshipment in port are insignificant in relation to the costs of operating a tuna vessel.³³ Fuel and labor costs do not fully explain the impracticability of transshipping in port as overcapacity may play a more significant role as evidenced by the profitability of the Japanese fleet.³⁴ Given the variables affecting

Guidelines for High Seas Transshipment from Fishing Vessels Other than Purse Seine Vessels (CMM 2009–06 Para 37), at ¶ 10, WCPFC-TCC12-2016-15_rev2 (Aug. 25, 2016), <https://perma.cc/6CZF-2TH5> [hereinafter *2016 Guidelines for High Seas Transshipment*] (stating that, since July 2014, determinations of impracticability must be implied from information in the WCPFC's Record of Fishing Vessels).

²⁵ W. and Cent. Pac. Fisheries Comm'n, *Annual Report on WCPFC Transshipment Reporting with an Emphasis on High Seas Activities*, at ¶ 6, WCPFC-TCC-2018-RP03 (Sept. 14, 2018), <https://perma.cc/XQR6-CZT6> [hereinafter *2018 Annual Report on WCPFC Transshipment Reporting*].

²⁶ *Id.* at 10 tbl.4. This is an increase from 36.9% in 2016. W. and Cent. Pac. Fisheries Comm'n, *Annual Report on WCPFC Transshipment Reporting with an Emphasis on High Seas Activities*, at 7 tbl.3, WCPFC-TCC13-2017-RP03 (Sept. 20, 2017), <https://perma.cc/V7TC-7GXP> [hereinafter *2017 Annual Report on WCPFC Transshipment Reporting*].

²⁷ See *infra* Part VI.B.

²⁸ E-mail from Peter Williams, Oceanic Fisheries Programme (OFP), Secretariat of the Pacific Community (SPC), to Chris Wold, Attorney, Lewis & Clark International Environmental Law Project (Dec. 5, 2017) (on file with the author).

²⁹ See *infra* Part III.C.

³⁰ *2017 Annual Report on WCPFC Transshipment Reporting*, *supra* note 26, at figs. 3 & 4; Francisco Blaha, *The Impracticability Exemption for Transshipment on the High Seas* (Sep. 22, 2018), <https://perma.cc/7P6S-5J64>.

³¹ The United Nations Convention on the Law of the Sea, Dec. 10, 1982, 1833 U.N.T.S. 3, U.N. Doc. A/CONF.62/122 (entered into force Nov. 16, 1994), <https://perma.cc/5G7T-W266>.

³² *2017 Annual Report on WCPFC Transshipment Reporting*, *supra* note 26, at tbl. 2.

³³ See *infra* Part VI.C.

³⁴ See *infra* Part VI.D.

profitability—operational costs, subsidies, over-capitalization—assessing whether transshipment in port causes “significant economic hardship” on a vessel-by-vessel basis is challenging. Even two conditions used to support exemptions from a high seas transshipment ban—the lack of ultra-low temperature (ULT) freezer capacity at some ports³⁵ and the need to get fresh fish to market—are questionable.

Thus, this Article proposes replacing the “impracticability” test with bright line rules. It begins with a presumption against transshipment on the high seas but allows, at least in the short term, vessel-specific exemptions to tranship ULT frozen fish from a fishing vessel to a carrier vessel with ULT freezer capacity and for fresh fish. However, it directs the WCPFC Secretariat to study whether ports have a shortage of ULT freezer capacity and whether carrier vessels can be placed in various ports to accept ULT frozen fish just as they would on the high seas. It also directs the Secretariat to identify the circumstances under which fresh fish needs to be transhipped in order to maintain a high-quality fish product. In addition, and in sharp contrast to the current regime, vessel-specific exemptions must be approved by the WCPFC; they cannot be unilaterally established. The abject failure of CCMs to comply with the WCPFC’s information requirements, including the submission of a plan to encourage transshipment in port, indicates that unilateral decision making should be abandoned.³⁶ Moreover, to promote the implementation of a plan to encourage transshipment in port, exemptions may not be granted for more than three years. While a CCM may apply for a new exemption for a vessel at the end of the three years, presumably the WCPFC will want evidence that the CCM is implementing its plan before granting the exemption.

Part II of this Article describes the reasons why the international community has moved to limit transshipment at sea, particularly transshipment on the high seas. Part III reviews the rules for transshipment in the WCPFC as well as the current transshipment practices of CCMs. Part IV summarizes two previous Secretariat proposals to revise the impracticability standard as well as the transshipment rules of the four other tuna RFMOs. Part V discusses CCMs’ views of the impracticability standard as well as their views of the two Secretariat proposals. Part VI evaluates a number of factors, including location of the catch, port infrastructure and fuel costs, and concludes that transshipment in port is not impracticable. Part VII then recommends the rejection of the impracticability standard and articulates a new test for granting time-limited, vessel-specific exemptions to a ban on high seas transshipment. Part VIII concludes that the WCPFC should adopt this new test to protect the region’s most valuable economic resource, prevent IUU fishing, and minimize human rights abuses and illegal activity associated with transshipment on the high seas.

³⁵ See *infra* Part VI.B; see also *2016 Guidelines for High Seas Transshipment*, *supra* note 24, at ¶ 19.

³⁶ See *2013 Guidelines for Determining Impracticability*, *supra* note 24.

II. THE MOVE TOWARDS TRANSHIPMENT IN PORT

Transshipment, as defined by the WCPFC, is the unloading of all or any of the fish aboard a fishing vessel to another fishing vessel, including support ships and carrier vessels, either at sea or in port.³⁷ Transshipment is a practice that allows fishing vessels to offload their catch, take on supplies, and continue fishing without leaving their fishing grounds.³⁸ Fishing vessels can thus stay at sea and continue fishing “for many years at a time.”³⁹ Fishing vessels that tranship at sea likely save time and money by avoiding fuel costs and eliminating the time needed to transit to port for transshipment.⁴⁰ As Interpol reports, “[i]t makes commercial sense for [fishing vessels] to tranship and resupply near the fishing grounds, which may be mid-ocean. Many fishing vessels can be serviced by one reefer, and valuable fishing time is not lost by long journeys to designated transshipping sites near to shore.”⁴¹

Nonetheless, transshipment at sea is increasingly viewed as a serious concern. Studies have found that transshipment at sea is associated with higher levels of IUU fishing.⁴² In fact, four RFMOs have expressed “grave concern” that transshipment at sea facilitates organized tuna laundering and significant levels of IUU fishing.⁴³ But the problem is not unique to tuna fisheries.⁴⁴ In salmon and pollock fisheries, legal catches have been mixed with illegal catches during high seas transshipments.⁴⁵ Investigations of IUU fishing for toothfish have found that fishing operators tranship on the high seas to avoid the inevitable scrutiny that would occur during transshipment in port.⁴⁶ As with the salmon and pollock fisheries,⁴⁷ transshipment at sea of

³⁷ WCPF Convention, *supra* note 1, at art. I §§ (e), (h). The FAO similarly defines it as the “act of transferring the catch from one fishing vessel to either another fishing vessel or to a vessel used solely for the carriage of cargo.” *Fishing Operations – I*, FOOD & AGRIC. ORG. U.N., <https://perma.cc/7B7G-DEZ2> (last visited Feb. 16, 2019).

³⁸ Ewell et al., *supra* note 11, at 293.

³⁹ U.N. OFFICE ON DRUGS AND CRIME, *supra* note 13, at 34.

⁴⁰ Ewell et al., *supra* note 11, at 293.

⁴¹ INTERPOL, STUDY ON FISHERIES CRIME IN THE WEST AFRICAN COASTAL REGION 15 (Sept. 2014), <https://perma.cc/W5SH-Z4G4>.

⁴² GLOBAL FISHING WATCH, THE GLOBAL VIEW OF TRANSSHIPMENT: REVISED PRELIMINARY FINDINGS 2 (2017), <https://perma.cc/H5XA-QRYR>.

⁴³ Indian Ocean Tuna Comm’n, *Resolution on Establishing a Programme for Transshipment by Large-Scale Fishing Vessels*, at preamble ¶ 2, Res. 17/06, (Oct. 10, 2017), <https://perma.cc/BEM7-52JW> [hereinafter IOTC Resolution 17/06]; Int’l Comm’n for the Conservation of Atl. Tunas, *Recommendation by ICCAT on Transshipment*, at 1, Res. 16-15, <https://perma.cc/P5TJ-BGE7> [hereinafter ICCAT Recommendation 16-15]; Inter-Am. Tropical Tuna Comm’n., *Amendments to Resolution C-11-09 on Establishing a Program for Transshipments by Large-Scale Fishing Vessels*, at 1, Res. C-12-07, (June 25–29, 2012), <https://perma.cc/759U-D6HD> [hereinafter IATCC Resolution C-12-07]; The Comm’n for the Conservation of S. Bluefin Tuna, *Resolution on Establishing a Program for Transshipment by Large-Scale Fishing Vessels*, at 1, (Oct. 12, 2017), <https://perma.cc/5AM7-YREC> [hereinafter CCSBT Transshipment Resolution].

⁴⁴ See, e.g., Ganapathiraju Pramod et al., *Estimates of Illegal and Unreported Fish in Seafood Imports to the USA*, 48 MARINE POL’Y 102, 104 (2014).

⁴⁵ See *id.* at 108–09.

⁴⁶ U.N. OFFICE ON DRUGS AND CRIME, *supra* note 13, at 107

⁴⁷ See Pramod et al., *supra* note 44, at 105–09.

toothfish allows fishers to launder illegally caught fish with legally caught fish in order to “circumvent quota and licensing regulations.”⁴⁸ The United Nations Office on Drugs and Crime (UNODC) has concluded that fishers understand clearly that “transshipments are often hard to detect due to the lack of adequate surveillance and vessel tracking of fishing vessels” and that “this *modus operandi* is quite common” in fisheries other than the toothfish fishery.⁴⁹ More than just facilitating the evasion of rules, transshipments at sea have real conservation and human costs: transshipments to evade fisheries rules and other IUU activities “deplet[e] fish stocks [and] severely affect[] food security.”⁵⁰

Transshipment at sea also raises concerns about slavery, links to organized crime, and other criminal activity.⁵¹ In fact, the UNODC has reported a litany of criminal activities associated with transshipment at sea.⁵² Within the fishing industry, the “most prevalent” reason for human trafficking is forced labor,⁵³ although trafficking of women and children for prostitution also occurs.⁵⁴ The UNODC makes clear that transshipment at sea abets this crime: “[f]ishers report that they are traded from vessel to vessel whilst at sea to meet crewing needs.”⁵⁵ Fishers also smuggle migrants as part of criminal networks, including in the Oceania region.⁵⁶ Fishing vessels and the fish processing industry are crucial components of drug smuggling, and transshipment facilitates that smuggling.⁵⁷ These activities are also frequently associated with corruption and money laundering.⁵⁸ As the UNODC reports, with the ability of fishing vessels to stay at sea for very long periods of time, transshipment allows these criminal activities to remain out of sight and undetected.⁵⁹ With almost 40% of the transshipments occurring on the high seas,⁶⁰ the scale of criminal activity, including IUU fishing,⁶¹ is potentially huge.

Transshipment at sea is also associated with the use of carrier vessels flagged by states known to issue flags of convenience.⁶² This should be a

⁴⁸ U.N. OFFICE ON DRUGS AND CRIME, *supra* note 13, at 107.

⁴⁹ *Id.*

⁵⁰ *See id.* at 97.

⁵¹ *Id.* at 9–10.

⁵² *Id.*

⁵³ *Id.* at 23.

⁵⁴ *Id.* Some of these concerns, such as prostitution and human trafficking, are associated not only with transshipment at sea. *See id.* The Port of Majuro in the Marshall Islands, for example, is known as “a destination for East Asian and Marshallese girls and women subjected to sex trafficking and a transit point for foreign fishermen subjected to labor trafficking.” U.S. DEP’T. OF STATE, TRAFFICKING IN PERSONS REPORT 296 (2018), <https://perma.cc/XR4B-UUEB>.

⁵⁵ U.N. OFFICE ON DRUGS AND CRIME, *supra* note 13, at 34.

⁵⁶ *Id.* at 56, 70.

⁵⁷ *Id.* at 86–88.

⁵⁸ *Id.* at 97. UNODC also reported “that environmental crimes (including marine living resource crimes) are the third most frequent predicate of money laundering in the Pacific,” although it did not draw a connection to transshipment at sea. *See id.* at 108.

⁵⁹ *Id.* at 4; MALARKY & LOWELL, *supra* note 10, at 2.

⁶⁰ MALARKY & LOWELL, *supra* note 10, at 2.

⁶¹ *Id.* at 1–2.

⁶² Ewell et al., *supra* note 11, at 296–97.

concern of the WCPFC, with a large number of carrier vessels flagged by Panama (115 vessels), Liberia (twenty-five vessels), and Vanuatu (four vessels).⁶³ These states have historically been associated with the issuance of flags of convenience.⁶⁴

III. THE TRANSHIPMENT RULES OF THE WCPFC

In light of these concerns, RFMOs and other international bodies have been seeking to ban or strictly limit transshipment at sea.⁶⁵ The South East Atlantic Fisheries Organisation has completely banned transshipment at sea within its Convention Area.⁶⁶ However, the WCPFC, like other tuna RFMOs, has created a compromise that prohibits transshipment at sea for purse seine vessels while allowing it for other types of vessels.⁶⁷

A. The WCPF Convention

The WCPF Convention endeavors to limit transshipment at sea by establishing both a general framework for transshipment and a specific prohibition against transshipment at sea by purse seine vessels.⁶⁸ The WCPF Convention's general framework requires CCMs to "encourage" their fishing vessels to tranship in port "to the extent practicable."⁶⁹ For any transshipment, including transshipment on the high seas, the WCPF Convention requires all vessels that tranship to comply with WCPFC procedures to verify the quantity and species being transhipped and allow full access by persons authorized by the WCPFC to gather any information to fully monitor the transshipment.⁷⁰ In addition, any transshipment in port or in waters under national jurisdiction must take place in accordance with applicable national laws.⁷¹

Moreover, the WCPF Convention prohibits, subject to exemptions that the WCPFC may adopt,⁷² transshipment at sea by purse seine vessels

⁶³ *WCPFC Record of Fishing Vessels*, W. & CENT. PAC. FISHERIES COMM'N, <https://perma.cc/83QH-B6CD> (last visited Feb. 16, 2019). The WCPFC has recognized this issue and decided in 2017 to require CCMs to report observer coverage on carrier vessels. W. AND CENT. PAC. FISHERIES COMM'N, FOURTEENTH REGULAR SESSION OF THE COMMISSION: SUMMARY REPORT, at ¶ 387 (2018), <https://perma.cc/4ECK-6GYV> [hereinafter WCPFC14 SUMMARY REPORT].

⁶⁴ Allan I. Mendelsohn, *Flags of Convenience: Aviation and Maritime*, 79 J. AIR L. & COM. 151, 157 (2014), <https://perma.cc/KSR7-MEUV>; see also Nathan A. Miller et al., *Identifying Global Patterns of Transshipment Behavior*, 5 FRONT. MAR. SCI., July 2018, at 5, <https://perma.cc/HV2M-KKAM>.

⁶⁵ Kristina Boerder et al., *Global Hot Spots of Transshipment of Fish Catch at Sea*, 4 SCI. ADV. 1 (2018), <https://perma.cc/5JKC-SFLU>.

⁶⁶ S. E. Atl. Fisheries Organisation, System of Observation, Inspection, Compliance and Enforcement, art. 5 (Dec. 2, 2016), <https://perma.cc/5BEJ-HWV6>.

⁶⁷ See WCPF Convention, *supra* note 1, at art. 29.

⁶⁸ *Id.*

⁶⁹ *Id.* at art. 29(1).

⁷⁰ *Id.* at art. 29(4), Annex III, art. 4.

⁷¹ *Id.* at art. 29(4).

⁷² *Id.* at art. 29(5).

operating anywhere in the Convention Area.⁷³ The WCPFC has adopted two exemptions to this prohibition.⁷⁴ The first exempts existing group seine operations composed of purse seine vessels with a fish hold capacity of 600 metric tons or less flagged to Papua New Guinea and Philippines.⁷⁵ The second exempted transshipment activities involving vessels flagged by New Zealand for one year provided that all fishing and transshipping activities take place within New Zealand waters.⁷⁶ No other exemption has been granted; regardless, the WCPFC may not grant an exemption for transshipment on the high seas by a purse seine vessel.⁷⁷

B. CMM 2009–06

Due to the composition of the fleet and the nature of the catch, the WCPF Convention's prohibition against transshipment at sea by purse seiners affects a small number of registered vessels operating in the Convention Area (8%)⁷⁸ but a large percentage of the catch (69%).⁷⁹ Nonetheless, more than 3,000 longline vessels⁸⁰ and smaller numbers of pole-and-line vessels⁸¹ registered to fish in the Convention Area are not subject to the prohibition against transshipment at sea.

Consequently, and consistent with its obligation to develop procedures relating to transshipment,⁸² the WCPFC has adopted CMM 2009–06 to provide additional rules for transshipment at sea and on the high seas.⁸³ CMM 2009–06 sets out general policy considerations in the preamble⁸⁴ and, in the operative section, generally applicable provisions relating to observers, reporting, and documentation, as well as specific rules relating to longline and other non-purse seine vessels.⁸⁵

⁷³ *Id.*

⁷⁴ See CMM 2009–06, *supra* note 22, at ¶ 25.

⁷⁵ CMM 2009–06, *supra* note 22, at ¶ 25(a).

⁷⁶ *Id.* at ¶ 25(b). New Zealand sought the one-year exemption for its purse seine fleet due to the vastness of its EEZ—the fourth largest in the world—with fishing grounds up to 600 miles from the nearest port; it further assured the WCPFC that it had a comprehensive management and monitoring scheme for vessels operating within New Zealand's EEZ. Letter from Matthew Hopper, Reg'l Engagement Manager, Ministry of Fisheries, to Glenn Hurry, Exec. Dir., W. Cent. Pac. Fisheries Comm'n (Oct. 24, 2011), <https://perma.cc/6VU3-PCPB>. Satisfied with these reasons, and because the exemption was temporary, the WCPFC granted New Zealand an exemption. W. AND CENT. PAC. FISHERIES COMM'N, EIGHTH REGULAR SESSION: SUMMARY REPORT, at ¶ 284 (2012), <https://perma.cc/89GR-64CR> [hereinafter WCPFC8 SUMMARY REPORT].

⁷⁷ CMM 2009–06, *supra* note 22, at ¶ 32.

⁷⁸ Peter Williams et al., W. and Cent. Pac. Fisheries Comm'n, *Overview of Tuna Fisheries in the Western and Central Pacific Ocean, Including Economic Conditions – 2016*, at 4, 69, WCPFC-SC13-2017/GN-WP-01 (Aug. 9–17, 2017), <https://perma.cc/SF58-KHNV> [hereinafter *2016 Overview of Tuna Fisheries in the Western and Central Pacific Ocean*].

⁷⁹ *Id.* at 2.

⁸⁰ *Id.* at 24.

⁸¹ *Id.* at 21.

⁸² WCPF Convention, *supra* note 1, at art. 29(3).

⁸³ CMM 2009–06, *supra* note 22, at preamble ¶ 4.

⁸⁴ *Id.* at preamble ¶¶ 1–2.

⁸⁵ *Id.* at ¶¶ 11, 13, 15, Annex II.

The preamble begins by recognizing that transshipment at sea is a common global practice, but that “unregulated and unreported transshipment of catches of highly migratory fish stocks at sea, in particular on the high seas, contributes to distorted reporting of catches of such stocks and supports IUU fishing in the Convention Area.”⁸⁶ Misreporting of catches supports IUU fishing and undermines effective conservation and management of fish stocks, which is “dependent on the provision of accurate reporting of catches of such stocks in the Convention Area.”⁸⁷ Consequently, a goal of the WCPF Convention and CCM 2009–06 is to conduct transshipment in port to the extent practicable.⁸⁸ Doing so could also deliver important economic benefits to Small Island Development State (SIDS) CCMs.⁸⁹

The generally applicable provisions require, for each transshipment, both the fishing vessel and the carrier vessel to complete a WCPFC Transshipment Declaration⁹⁰ that includes the names of the relevant vessels, the species and quantities transhipped, the location of the catches and transshipment, and other information.⁹¹ CCMs responsible for the fishing and carrier vessels must submit the Transshipment Declaration to the WCPFC Executive Director within fifteen days of transshipment.⁹²

In addition, any transshipment at sea requires an observer from the WCPFC Regional Observer Programme to observe the transshipment.⁹³ In the case of transshipments to vessels thirty-three meters in length or less that do not involve purse seine- or frozen longline-caught fish, the observer may be placed on either the offloading vessel or receiving vessel.⁹⁴ For transshipments involving troll caught or pole-and-line-caught fish not covered by the first condition and in all other cases, the observer must be deployed on the receiving vessel.⁹⁵ In all cases, observers must be given full access to both the fishing vessel and the receiving vessel.⁹⁶ The observer has the responsibility to confirm that the quantities of fish transhipped align with the quantities reported in the logsheets and WCPFC Transshipment Declaration.⁹⁷

In CMM 2009–06, the WCPFC also establishes the conditions for transshipment at sea by non-purse seine fishing vessels—longline, troll, and pole-and-line fishing vessels.⁹⁸ For these vessels, transshipment in national waters must occur “in accordance with relevant domestic laws.”⁹⁹ However,

⁸⁶ *Id.* at preamble ¶ 2.

⁸⁷ CMM 2009–06, *supra* note 22, at preamble ¶ 1.

⁸⁸ *See id.* at preamble ¶ 3.

⁸⁹ *Id.* at preamble ¶ 7.

⁹⁰ *Id.* at ¶ 10.

⁹¹ *Id.* at Annex 1.

⁹² *Id.* at ¶ 24.

⁹³ *Id.* at ¶ 13.

⁹⁴ *Id.* at ¶ 13(a).

⁹⁵ *Id.* at ¶¶ 13(b), (c).

⁹⁶ *Id.* at ¶ 15.

⁹⁷ *Id.* at ¶ 14(b).

⁹⁸ *Id.* at ¶ 33.

⁹⁹ *Id.*

transshipment on the high seas is prohibited, “except where a CCM has determined . . . that it is impracticable for certain vessels . . . to operate without being able to tranship on the high seas.”¹⁰⁰

The WCPFC has established a two-part test for determining when transshipment in port is “impracticable.”¹⁰¹ First, the prohibition on high seas transshipment must create “significant economic hardship.”¹⁰² The relevant CCM must determine whether transshipment in port causes “significant economic hardship” based on “the cost that would be incurred to transship or land fish at feasible and allowable locations other than on the high seas, as compared to total operating costs, net revenues, or some other meaningful measure of costs and/or revenues.”¹⁰³

Second, the prohibition on high seas transshipment must cause the vessel to make “significant and substantial changes to its historical mode of operation.”¹⁰⁴ The CMM does not provide guidance on how that determination should be made, leaving considerable discretion to individual CCMs. However, the test does not provide CCMs with unfettered discretion. Significantly, this test contemplates a vessel-by-vessel analysis rather than a fisheries-wide determination.¹⁰⁵ For example, it refers to “the vessel”; both the use of the definite article (“the”) and the singular “vessel” indicate that the test must be applied to a specific vessel. The test also refers to historical modes of operation, an assessment which must be made for a particular vessel since each vessel will have a different history.¹⁰⁶ Each vessel, due to the location of where it fishes, the size of the vessel, the size of the crew, and other factors, will have different costs associated with transshipping in port, within national waters, or on the high seas.

CMM 2009–06 further contemplates a multilateral process for reducing and monitoring transshipment on the high seas.¹⁰⁷ While the relevant CCM may unilaterally determine when transshipment in port or in national waters is “impracticable,” it must advise the WCPFC of its procedures for monitoring and verifying transshipments, indicate the vessels to which an “impracticability” finding applies, notify the Executive Director thirty-six hours prior to transshipment, and provide the Executive Director with the Transshipment Declaration within fifteen days of completion of each transshipment.¹⁰⁸ Moreover, each CCM allowing transshipment on the high seas must submit to the WCPFC a plan detailing the steps it is taking to encourage transshipment in port.¹⁰⁹

¹⁰⁰ *Id.* at ¶ 34.

¹⁰¹ *See id.* at ¶ 37.

¹⁰² *Id.* at ¶ 37(a).

¹⁰³ *Id.*

¹⁰⁴ *Id.* at ¶ 37(b).

¹⁰⁵ *See id.* at ¶ 38.

¹⁰⁶ *Id.* at ¶ 37(b).

¹⁰⁷ *Id.* at ¶ 35(a).

¹⁰⁸ *Id.* at ¶¶ 34–35.

¹⁰⁹ *Id.* at ¶ 35(a)(v).

Lastly, the guidelines embodied in this two-part test are intended to be interim guidelines.¹¹⁰ CMM 2009–06 expressly calls for the Executive Director to propose new “guidelines for the determination of circumstances where it is impracticable for vessels to tranship in port or in waters under national jurisdiction.”¹¹¹ It contemplates the adoption of new guidelines in 2012,¹¹² although that deadline has passed without the adoption of new guidelines.¹¹³ Until new guidelines are adopted, the interim guidelines remain in place because CMM 2009–06 does not include an expiration date for the interim guidelines (i.e., a sunset clause).

C. Transhipment in Practice

Transhipment practice within the WCPFC varies by region and by CCM. Some CCMs, for example, prohibit transhipment at sea by all vessels in all circumstances, including the Parties to the Nauru Agreement (PNA).¹¹⁴

Other CCMs, however, are availing themselves of the exemption for transshipping at sea at a rate that indicates they are not making vessel-specific impracticability determinations.¹¹⁵ In 2016, for example, CCMs authorized 2,223 of 4,468 (49.75%) WCPFC-registered vessels to tranship on the high seas, including 58.2% of all longline vessels, 88.2% of all pole-and-line vessels, and 42.8% of carrier and bunker vessels.¹¹⁶ The percentage of vessels authorized to tranship on the high seas rose to 52% (2,431 out of 4,658 vessels) in 2017, with the majority of these vessels being longline vessels (1,831 vessels).¹¹⁷

The number of reported high seas transhipment events has fluctuated from year to year between 2011 to 2016, with a high of 1089 in 2017 and a low of 525 in 2012.¹¹⁸ However, the number of high seas transhipments appears to be trending upwards.¹¹⁹ One possible reason is the move of some fleets from fishing in EEZs to the high seas due to increasing costs of fishing

¹¹⁰ See *id.* at ¶ 37.

¹¹¹ W. AND CENT. PAC. FISHERIES COMM’N, TECHNICAL AND COMPLIANCE COMMITTEE: NINTH REGULAR SESSION, at ¶ 257 (2013), <https://perma.cc/TH2F-H5TK> [hereinafter TCC9 SUMMARY REPORT]; see CMM 2009–06, *supra* note 22, at ¶ 37.

¹¹² CMM 2009–06, *supra* note 22, ¶ 37.

¹¹³ TCC9 SUMMARY REPORT, *supra* note 111, at ¶ 264 (showing deadline passed).

¹¹⁴ A Second Arrangement Implementing the Nauru Agreement Setting Forth Additional Terms and Conditions of access to the Fisheries Zones of the Parties, art. I, Sept. 19, 1990, <https://perma.cc/469G-YT99>. The Parties to the Nauru Agreement are Federated States of Micronesia, Kiribati, Marshall Islands, Nauru, Palau, Papua New Guinea, Solomon Islands, and Tuvalu. *About Us, PARTIES TO NAURU AGREEMENT*, <https://perma.cc/685C-WJEG> (last visited Feb. 16, 2018).

¹¹⁵ *2016 Guidelines for High Seas Transhipment*, *supra* note 24, at ¶¶ 3, 13, 15.

¹¹⁶ *Id.* at ¶ 15.

¹¹⁷ *2017 Annual Report on WCPFC Transhipment Reporting*, *supra* note 26, at ¶ 4 & fig.1.

¹¹⁸ *Id.* at 6 tbl.1; *2018 Annual Report on WCPFC Transhipment Reporting*, *supra* note 25, at 10 tbl.5.

¹¹⁹ See Table 1.

in the EEZs of some Pacific Island States.¹²⁰ All reported high seas transshipments in 2015 and 2016 were conducted by fishing vessels registered to just five CCMs—China, Korea, Chinese Taipei, Vanuatu, and Japan—but the vessels of China, Chinese Taipei, and Vanuatu accounted for 84% and 89% of those transshipments in 2015 and 2016, respectively.¹²¹ As twenty-two of the twenty-five registered longline vessels flagged by Vanuatu are owned by individuals or companies in China and Chinese Taipei,¹²² it may be possible to attribute an even greater portion of high seas transshipments to those two CCMs.

Table 1. Number of Reported High Seas Transshipment: 2011–2017

| Year | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|----------------|------|------|------|------|------|------|------|
| Transshipments | 680 | 525 | 593 | 552 | 754 | 948 | 1089 |

Table 2. Number of Reported High Seas Transshipment by CCM: 2015–2016

| CCM | 2015 | 2016 |
|---------------------|------------|------------|
| China | 239 | 306 |
| Japan | 29 | 28 |
| Korea (Republic of) | 88 | 77 |
| Chinese Taipei | 186 | 289 |
| Vanuatu | 212 | 248 |
| Total | 754 | 948 |

High seas transshipments in 2016 accounted for a large percentage of the catches for certain species, including 25.3% of albacore, 36.9% of bigeye tuna, and 10% of yellowfin tuna.¹²³ The proportion of high seas catch relative to catch limits appears to be even greater when the small number of vessels transshipping on the high seas is considered: just 352 fishing vessels of the more than 3,100 non-purse seine fishing vessels registered to fish in the

¹²⁰ PETER TERAWASI & CHRIS REID, PAC. ISLANDS FORUM FISHERIES AGENCY, ECONOMIC AND DEVELOPMENT INDICATORS AND STATISTICS: TUNA FISHERIES OF THE WESTERN AND CENTRAL PACIFIC OCEAN 2 (2016), <https://perma.cc/N2YU-X64C> (stating that the high seas purse seine catch in 2015 “was almost double that in 2014 and more than treble that between 2010 and 2013 as some fleets increased their high seas fishing likely, at least in part, in response to the increasing cost of access to PNA EEZs”).

¹²¹ 2017 *Annual Report on WCPFC Transshipment Reporting*, *supra* note 26, at 6 tbl.2. Information for 2017 is provisional but is consistent with data for 2016, with China, Chinese Taipei, and Vanuatu accounting for 89% of transshipments. 2018 *Annual Report on WCPFC Transshipment Reporting*, *supra* note 25, at 10 tbl.5.

¹²² *WCPFC Record of Fishing Vessels*, W. & CENT. PAC. FISHERIES COMM'N, <https://perma.cc/2RA7-UZBS> (last visited Feb. 16, 2019).

¹²³ 2017 *Annual Report on WCPFC Transshipment Reporting*, *supra* note 26, at 7 tbl.3.

WCPFC Convention Area¹²⁴ accounted for the catch transhipped on the high seas in 2016.¹²⁵

Yet, according to the annual reports of CCMs, some longline fleets rarely, if ever, tranship on the high seas. For example, twenty-three CCMs reported that vessels they flag fish on the high seas, but just seven of these CCMs (including carrier vessels from Liberia and Panama) reported that vessels they flag tranship on the high seas.¹²⁶ The 159 U.S. and 454 Japanese longline vessels rarely tranship on the high seas.¹²⁷ In fact, no U.S. vessels transhipped on the high seas in 2014, 2015, and 2016;¹²⁸ Japanese vessels reported just thirty-one, twenty-nine, and twenty-eight high seas transhipments in those years.¹²⁹ Significantly, these vessels typically fish far from the ports in which they land their fish. U.S. tuna longline vessels fish up to 1,000 nautical miles from Honolulu, although most trips are within 500 nautical miles, yet land their catch in Honolulu.¹³⁰ Japanese longline vessels focus their fishing in tropical waters easily more than 1,000 nautical miles from Japan,¹³¹ yet land their catch back in Japan.¹³²

IV. OTHER APPROACHES TO DEFINING “IMPRACTICABILITY” AND TO HIGH SEAS TRANSHIPMENT

CMM 2009–06 calls on the WCPFC’s Executive Director to prepare new guidelines for determining the circumstances in which it is impracticable for certain vessels to tranship in port or in waters under national jurisdiction.¹³³ On two occasions, the Executive Director has submitted proposals for redefining “impracticability” that account for certain aspects of the fishery, but CCMs have rejected these proposals. The four other tuna RFMOs have taken a different approach. They simply grant large-scale longliners the option to tranship at sea provided that they meet certain conditions.

¹²⁴ *Vessels in the RFV by Vessel Type*, W. & CENT. PAC. FISHING COMMISSION, <https://perma.cc/ZS75-GXRJ> (last visited Feb. 16, 2019).

¹²⁵ *2017 Annual Report on WCPFC Transhipment Reporting*, *supra* note 26, at 6 tbl.1.

¹²⁶ *Id.* at 3–4.

¹²⁷ *Id.* at 2 fig.1, 6 tbl.2.

¹²⁸ *Id.* at 6 tbl.2.

¹²⁹ *Id.*

¹³⁰ *See Overview of Fisheries—Pelagics*, W. PAC. REG’L FISHERY MGMT. COUNCIL, <https://perma.cc/T5RY-EC2V> (last visited Feb. 16, 2019).

¹³¹ *2016 Overview of Tuna Fisheries in the Western and Central Pacific Ocean*, *supra* note 78, at 24 (noting that the distant water longline vessels of Japan fish for bigeye and yellowfin tuna “primarily operate in the eastern tropical waters” of the WCPFC Convention Area).

¹³² LIAM CAMPLING ET AL., FORUM FISHERIES AGENCY, *THE TUNA LONGLINE INDUSTRY IN THE WESTERN AND CENTRAL PACIFIC OCEAN AND ITS MARKET DYNAMICS* 128 (2017), <https://perma.cc/HV2K-JFYR> (“Japanese [distant water] vessels operating in WCPO waters are authorized to undertake high seas transhipment, but typically return to Japanese ports at the end of a voyage and only occasionally tranship on the high seas.”). About 85% of Japan’s fishing in the WCPFC Convention Area occurs outside its EEZ. *Id.*

¹³³ CMM 2009–06, *supra* note 22, at ¶ 37.

A. The Executive Director's 2013 Approach

With the adoption of CMM 2009–06, the WCPFC Secretariat began to receive notifications of high seas transshipments.¹³⁴ Surprised by the receipt of 878 notifications of high seas transshipments over a sixteen-month period between July 2010 and October 2011,¹³⁵ the Executive Director proposed new guidelines to the Technical and Compliance Committee (TCC) and its Ninth Regular Session (TCC9).¹³⁶

The Executive Director contextualized his recommendations by setting out trends in international law and specific facts about the WCPFC fishery.¹³⁷ He reported, for example, that the FAO's Technical Guidelines for Responsible Fisheries provide that flag States should prevent their vessels from transshipping at sea without authorization, but that “[a]n even more effective approach would be to prohibit transshipment of fish at sea entirely, as some states have already done.”¹³⁸

With respect to the WCPFC fishery, he noted that purse seine vessels and some large longline operators conduct all transshipments in port,¹³⁹ calling into question the impracticability of transshipment in port.¹⁴⁰ He reported that transshipment data revealed that most transshipment occurs just beyond the EEZs of member countries—“not very far from port”¹⁴¹—again, calling into question whether it is really impracticable to tranship in port.¹⁴² The Executive Director also noted that most transshipment at sea occurs near countries with well-established port and transport infrastructure,¹⁴³ indicating there are no physical barriers to transshipment in port,¹⁴⁴ and transshipment in port would provide “far stronger monitoring and surveillance” of fish catches and operations.¹⁴⁵

Further, the Executive Director challenged longliners' economic argument that banning transshipment at sea would render longline fishing unviable.¹⁴⁶ He stated that, while transshipping frozen fish on the high seas might be more profitable, “it is arguable that there are no cases where it is impracticable to tranship frozen longline caught product in port.”¹⁴⁷ Moreover, if profit margins are so small for longliners such that transshipping in port truly is impracticable, then “the likelihood of accurate and honest

¹³⁴ See WCPFC8 SUMMARY REPORT, *supra* note 76, at ¶ 282.

¹³⁵ *Id.*

¹³⁶ 2013 Guidelines for Determining Impracticability, *supra* note 24.

¹³⁷ *Id.* at 2.

¹³⁸ *Id.* (citing TECHNICAL GUIDELINES FOR RESPONSIBLE FISHERIES, *supra* note 18, at 29).

¹³⁹ *Id.* The Executive Director did not specifically identify the United States and Japan but those two CCMs were likely the focus of his comment. See *supra* Part III.C (describing high seas transshipments of U.S. and Japanese vessels).

¹⁴⁰ 2013 Guidelines for Determining Impracticability, *supra* note 24, at 7.

¹⁴¹ *Id.* at 3; see also *id.* at map 1.

¹⁴² *Id.* at 5.

¹⁴³ *Id.* at 8.

¹⁴⁴ *Id.*

¹⁴⁵ *Id.*

¹⁴⁶ *Id.* at 5.

¹⁴⁷ *Id.*

reporting is small and they are more likely to undertake IUU activity than profitable operators.”¹⁴⁸ However, he did indicate that transshipment at sea of sashimi-grade product “is one circumstance where it is impractical to transship in port.”¹⁴⁹

Lastly, the Executive Director concluded that no CCM has provided advice to the WCPFC on its procedures for monitoring and verification of transshipment on the high seas, as required by CMM 2009–06.¹⁵⁰ Moreover, “no CCM has provided the Secretariat with a plan detailing steps it has taken to encourage transshipping in port in the future,” also required by CMM 2009–06.¹⁵¹

In light of these observations, the Executive Director proposed the following revisions to CMM 2009–06:

- Instead of a single observer to monitor the transshipment, an observer should be posted on both the fishing vessel and the carrier vessel for all transshipments at sea.¹⁵²
- Transshipment at sea should occur only if the relevant CCM fully complies with the requirements to advise the WCPFC of its procedures for monitoring and verifying transshipments and submits a plan to the WCPFC detailing the steps it is taking to encourage transshipment in port.¹⁵³
- Instead of relying on inferences of “significant economic hardship,” a CCM must provide “documented evidence” to the Secretariat that it has complied with the “significant economic hardship” assessment of CCM 2009–06.¹⁵⁴ CMM 2009–06 does not currently require the submission of documented evidence prior to transshipment.
- Although not included in his written proposal, the Executive Director also indicated that transshipment in high seas pockets should be prohibited.¹⁵⁵

As described in Part V, the TCC did not recommend that the WCPFC consider the proposal.¹⁵⁶

148 *Id.*

149 *Id.*

150 *Id.*

151 *Id.*

152 *Id.* at 12.

153 *Id.*

154 *Id.* at 14–15.

155 In introducing his proposal at TCC9, the Executive Director invited TCC9 to consider “whether allowing transshipment from vessels other than purse seines is in the best interest of the Commission . . . [and] whether to prohibit transshipment in the high seas pockets.” TCC9 SUMMARY REPORT, *supra* note 111, at ¶ 257.

156 *See infra* Part V.

B. The Secretariat's 2016 Approach

The Secretariat returned in 2016 with a new proposal that dramatically reshaped how to determine when transshipment in port might be impracticable.¹⁵⁷ The Secretariat acknowledged the challenges of assessing “significant economic hardship” and “significant and substantial changes” to a vessel’s historical mode of operation because no criteria existed to make those determinations.¹⁵⁸ Nonetheless, the use of words like “significant” and “substantial” indicates a “high threshold” for allowing transshipment on the high seas.¹⁵⁹

As with the 2013 proposal, the Secretariat made a number of observations to support its proposal.

- CCMs believe that the current interim guidelines are “unsatisfactory and not workable”¹⁶⁰ as indicated by their 1) failure to implement the guidelines; 2) failure to submit plans to encourage transshipment in port;¹⁶¹ 3) view that the guidelines are subjective; and 4) view that transshipment at sea remains a common global practice.¹⁶²
- The United Nations General Assembly adopted a resolution calling for effective control of transshipment to prevent, deter, and eliminate IUU fishing activities and the FAO indicated that prohibiting transshipment at sea was an effective way to accomplish that goal.¹⁶³
- The number of vessels authorized to tranship at sea is rising.¹⁶⁴
- CCMs were authorizing transshipment on the high seas not when it is “impracticable,” that is, when it is “practically impossible . . . but rather when it is difficult.”¹⁶⁵
- Transferring an observer between vessels poses “significant observer safety issues and . . . inspection of documentation alone may not be sufficient for verification purposes.”¹⁶⁶ Consequently, “monitoring of transshipments . . . remains a concern.”¹⁶⁷
- Allowing transshipment of shark products, including fins, undermines conservation efforts and may increase IUU fishing.¹⁶⁸
- The large number of transshipments occurring on the high seas just outside the EEZs of CCMs, including just inside high seas pockets,

¹⁵⁷ See generally *2016 Guidelines for High Seas Transshipment*, *supra* note 24.

¹⁵⁸ *Id.* at ¶ 9.

¹⁵⁹ *Id.*

¹⁶⁰ *Id.* at ¶ 12.

¹⁶¹ *Id.*

¹⁶² *Id.*

¹⁶³ *Id.* at ¶ 14.

¹⁶⁴ *Id.* at ¶ 10.

¹⁶⁵ *Id.* at ¶ 16.

¹⁶⁶ *Id.* at ¶ 17.

¹⁶⁷ *Id.*

¹⁶⁸ *Id.* at ¶ 21.

indicates that “vessels are transshipping in these areas for convenience” and to avoid monitoring by coastal states.¹⁶⁹

Despite these arguments for more strictly regulating or prohibiting transshipment at sea, the Secretariat believed that certain vessels did need to tranship at sea to maintain high quality standards.¹⁷⁰ According to the Secretariat, “fresh fish from ice-chilled longliners, troll, and pole-and-line vessels” that supply fresh sashimi market may need to tranship at sea.¹⁷¹ Similarly, vessels supplying high-grade ULT fish to sashimi markets may need to tranship at sea.¹⁷² On the other hand, vessels supplying tuna for the cannery market do not.¹⁷³

Based on these observations, the Secretariat proposed new guidelines for transshipment at sea that sought to balance the high threshold for determining when transshipment in port was impracticable with the characteristics of the fishing fleet and tuna markets.¹⁷⁴ New guidelines should also include criteria that “are easily measured, able to be monitored effectively . . . do not advantage inefficient operators . . . [and are] consistent with the objectives of ensuring effective conservation and management, obtaining fisheries data, monitoring compliance, and preventing IUU fishing.”¹⁷⁵ Based on these observations and factors, the Secretariat proposed the following guidelines:

- CCMs may only make an “impracticability” finding to allow transshipment on the high seas for the following vessels:
 - Non-purse seine vessels using flake ice or refrigerated sea water and which tranship fresh fish to receiving vessels, where “fresh fish” means tuna or other highly migratory species that are alive, whole or dressed/gutted, but not further processed or frozen;
 - ULT freezer longline vessels which tranship tuna to ULT freezer carriers in order to supply the high-grade frozen sashimi market; and
 - Non-purse seine vessels which fish in WCPFC//Inter-American Tropical Tuna Commission (IATTC) overlap area, provided that the CCM flag State has notified the WCPFC and IATTC that it will apply IATTC resolutions in accordance with the WCPFC9 Decision on the WCPFC-IATTC Overlap Area.

¹⁶⁹ *Id.* at ¶ 22.

¹⁷⁰ *Id.* at ¶ 19. Whether tuna caught on the high seas by longline vessels needs to be transhipped is unlikely in most cases. This is discussed *infra* at Part VI.E.

¹⁷¹ *Id.*

¹⁷² *Id.*

¹⁷³ *Id.*

¹⁷⁴ *Id.* at ¶ 24.

¹⁷⁵ *Id.*

- Any transshipment on the high seas requires an observer deployed on both the fishing vessels and the receiving vessel.
- CCMs may not make an impracticability finding if the vessel is authorized to tranship shark products.
- CCMs must include in their annual reports information concerning their procedures for monitoring and verifying transshipments and a “plan detailing what steps it is taking to encourage transshipment to occur in port.”¹⁷⁶

As with the Executive Director’s 2013 proposal,¹⁷⁷ the TCC did not forward this proposal to the WCPFC for consideration.¹⁷⁸

C. Transshipment Rules of the Other Tuna RFMOs

The four other tuna RFMOs (t-RFMOs)—the Indian Ocean Tuna Commission (IOTC),¹⁷⁹ International Commission for the Conservation of Atlantic Tuna (ICCAT),¹⁸⁰ IATTC,¹⁸¹ and Commission for the Conservation of Southern Bluefin Tuna (CCSBT)¹⁸²—have virtually identical rules for addressing transshipment at sea.¹⁸³ They do not differ in any meaningful way,¹⁸⁴ but they differ markedly from the WCPFC’s rules by not requiring a

¹⁷⁶ *Id.* at 7.

¹⁷⁷ See *supra* note 156 and accompanying text.

¹⁷⁸ W. AND CENT. PAC. FISHERIES COMM’N, TWELFTH MEETING OF THE TECHNICAL AND COMPLIANCE COMMITTEE OF THE COMMISSION FOR THE CONSERVATION AND MANAGEMENT OF HIGHLY MIGRATORY FISH STOCKS IN THE WESTERN AND CENTRAL PACIFIC OCEAN: SUMMARY REPORT, at ¶¶ 273–75 (2016), <https://perma.cc/RP39-8EFQ> [hereinafter TCC12 SUMMARY REPORT].

¹⁷⁹ The Indian Ocean Tuna Commission was established by the Agreement for the Establishment of the Indian Ocean Tuna Commission, art. I, Nov. 25, 1993 (entered into force Mar. 27, 1996), <https://perma.cc/CB5M-GMSK> [hereinafter IOTC Convention].

¹⁸⁰ International Convention for the Conservation of Atlantic Tunas, art. 3, May 14, 1966, 20 U.S.T. 2887, 673 U.N.T.S. 63 (entered into force March 21, 1969) [hereinafter ICCAT].

¹⁸¹ Inter-American Tropical Tuna Convention, May 31, 1949, 1 U.S.T. 230, (entered into force Mar. 3, 1950) [hereinafter IATTC Convention]. The IATTC and its rules for fishing were updated in the Convention for Strengthening the Inter-American Tropical Tuna Convention, June 27, 2003, (entered into force on Aug. 27 2010) <https://perma.cc/83J9-TUMK> [hereinafter Antigua Convention].

¹⁸² Convention for the Conservation of Southern Bluefin Tuna, art. 6, May 10, 1993, 1819 U.N.T.S. 360 (entered into force May 20, 1994) [hereinafter CCSBT Convention].

¹⁸³ See IOTC Resolution 17/06, *supra* note 43, at ¶¶ 1, 3 (creating a program to monitor large scale tuna vessels transshipment at sea and requiring all other transshipments be done at port); ICCAT Recommendation 16-15, *supra* note 43, at ¶ 1 (creating a program to monitor large scale tuna vessels transshipment at sea and requiring all other transshipments be done at port); IATTC Resolution C-12-07, *supra* note 43, at ¶¶ 1, 4 (creating a program to monitor large scale tuna vessels transshipment at sea and requiring all other transshipments be done at port); CCSBT Transshipment Resolution, *supra* note 43, at ¶ 2 (creating a program to monitor large scale tuna vessels transshipment at sea and requiring all other transshipments be done at port).

¹⁸⁴ For a comprehensive assessment of the transshipment rules for these tuna RFMOs, as well as other RFMOs, see generally CLAIRE VAN DER GEEST, INT’L SEAFOOD SUSTAINABILITY FOUND., TRANSHIPMENT: STRENGTHENING TUNA RFMO TRANSHIPMENT REGULATIONS (2018).

finding of impracticability.¹⁸⁵ Instead, large-scale longliners are allowed to transship at sea, provided they meet certain conditions.¹⁸⁶

These four t-RFMOs begin by expressing “grave concern” about the role of transshipment at sea in organized tuna laundering operations and IUU fishing.¹⁸⁷ Due to these concerns, some parties and cooperating non-parties (collectively referred to as CPCs) have proposed a complete ban on transshipment at sea.¹⁸⁸ Some tuna RFMOs prohibit transshipment at sea within their relevant Convention Areas for species subject to their management authority.¹⁸⁹ For example, the IOTC prohibits transshipment at sea for tuna and tuna-like species and sharks caught in association with such tuna species.¹⁹⁰ The CCSBT prohibits transshipment at sea for southern bluefin tuna.¹⁹¹

These prohibitions against transshipment at sea, however, include a significant exception: they do not apply to large-scale tuna longline vessels (LSTLVs)¹⁹² or similar vessels that meet specific conditions.¹⁹³ In the IOTC, these vessels are presumably at least twenty-four meters long¹⁹⁴ whereas ICCAT specifically exempts large-scale pelagic longline vessels (LSPLVs)¹⁹⁵—those vessels greater than twenty-four meters long.¹⁹⁶ The IATTC exempts large-scale tuna-fishing vessels—those “vessels fishing beyond areas of national jurisdiction or beyond CPC-controlled areas.”¹⁹⁷ The CCSBT exempts large-scale tuna longline vessels, which are defined as “a tuna longline fishing vessel with Freezing Capacity.”¹⁹⁸ “Freezing capacity” is then defined to mean a vessel with a freezer “capable of storing more than 500 kilograms of [southern bluefin tuna] at -30°C or below.”¹⁹⁹

¹⁸⁵ See WCPF Convention, *supra* note 1, at art. 29 (requiring practicability to prohibit at-sea transshipment).

¹⁸⁶ See, e.g., IOTC Resolution 17/06, *supra* note 43, at ¶ 3 (allowing at-sea transshipment only for largescale tuna longline fishing vessels).

¹⁸⁷ IOTC Resolution 17/06, *supra* note 43, at preamble ¶¶ 1–2; ICCAT Recommendation 16-15, *supra* note 43, at preamble ¶¶ 1–2; IATTC Resolution C-12-07, *supra* note 43, at preamble ¶¶ 1–2; CCSBT Transshipment Resolution, *supra* note 43, at preamble ¶¶ 1–2.

¹⁸⁸ See Indian Ocean Tuna Comm’n, *Report of the Twelfth Session of the Indian Ocean Tuna Commission*, at ¶ 50, IOTC 2008 S12 R[E] (June 7–11, 2008), <https://perma.cc/AFV8-BD3Q> (noting that France had proposed such a ban in three consecutive years).

¹⁸⁹ See, e.g., IOTC Resolution 17/06, *supra* note 43, at ¶¶ 1–2 (prohibiting at-sea transshipment of tuna species outside of monitoring program).

¹⁹⁰ *Id.*; see also ICCAT Recommendation 16-15, *supra* note 43, at ¶ 1 (applying to “tuna and tuna-like species and other species caught in association with these species”); IATTC Resolution C-12-07, *supra* note 43, at ¶ 1 (applying to “tuna and tuna-like species”).

¹⁹¹ See CCSBT Transshipment Resolution, *supra* note 43, at ¶ 2.

¹⁹² IOTC Resolution 17/06, *supra* note 43, at ¶¶ 3–4.

¹⁹³ *Id.*

¹⁹⁴ The IOTC does not expressly define LSTLVs, but the IOTC requires vessels at least twenty-four meters in length to be included in the IOTC’s Record of Vessels. Indian Ocean Tuna Comm’n, *Resolution 15/04, Concerning the IOTC Record of Vessels Authorised to Operate in the IOTC Area of Competence*, at ¶ 1(a) (Sept. 10, 2015), <https://perma.cc/A8AN-NG6J>.

¹⁹⁵ ICCAT Recommendation 16-15, *supra* note 43, at ¶ 1.

¹⁹⁶ *Id.*

¹⁹⁷ IATTC Resolution C-12-07, *supra* note 43, at ¶ 2 & n.1.

¹⁹⁸ CCSBT Transshipment Resolution, *supra* note 43, at ¶ 1(a).

¹⁹⁹ *Id.* at ¶ 1(c).

In addition to meeting these threshold conditions, a vessel may not tranship at sea unless a number of other conditions are met. First, a CPC must affirmatively authorize its LSTLVs to tranship at sea.²⁰⁰ Second, at least twenty-four hours prior to any transshipment, the fishing vessel must notify the flag state of the intended transshipment.²⁰¹ In addition, where transshipment takes place in waters under the jurisdiction of a CPC, that CPC must provide authorization prior to the transshipment occurring.²⁰²

Third, any transshipment must be accompanied by a transshipment declaration that includes information about the carrier vessel, the fishing vessel, the location of the transshipment, and the species transhipped, including the weight of each species and the type of product (whole, gutted, etc.).²⁰³ The fishing vessel has fifteen days to complete and submit the transshipment declaration to the flag state;²⁰⁴ the master of the carrier vessel must complete and transmit the transshipment declaration to the relevant RFMO Secretariat and flag state within twenty-four hours after completing transshipment and to the competent authorities in the state where the fish will be landed at least forty-eight hours before landing.²⁰⁵

Fourth, the carrier vessel must be registered on the RFMO's Record of Carrier Vessels.²⁰⁶ Carrier vessels must install and operate a vessel monitoring system²⁰⁷ and have onboard an observer trained and chosen from the RFMO's Regional Observer Programme.²⁰⁸ Without an observer, vessels are prohibited from commencing or continuing at-sea transshipment.²⁰⁹

²⁰⁰ *Id.*; ICCAT Recommendation 16-15, *supra* note 43, at ¶ 15; IATTC Resolution C-12-07, *supra* note 43, at ¶ 12; CCSBT Transshipment Resolution, *supra* note 43, at ¶ 13.

²⁰¹ IOTC Resolution 17/06, *supra* note 43, at ¶ 12; ICCAT Recommendation 16-15, *supra* note 43, at ¶ 16; IATTC Resolution C-12-07, *supra* note 43, at ¶ 14; CCSBT Transshipment Resolution, *supra* note 43, at ¶ 14.

²⁰² IOTC Resolution 17/06, *supra* note 43, at ¶ 10; ICCAT Recommendation 16-15, *supra* note 43, at ¶ 14; IATTC Resolution C-12-07, *supra* note 43, at ¶ 11; CCSBT Transshipment Resolution, *supra* note 43, at ¶ 11.

²⁰³ IOTC Resolution 17/06, *supra* note 43, at ¶ 13, Annex II; ICCAT Recommendation 16-15, *supra* note 43, at ¶ 16, appendix 1; IATTC Resolution C-12-07, *supra* note 43, at ¶¶ 13–15, Annex 2; CCSBT Transshipment Resolution, *supra* note 43, at ¶ 15, Annex I.

²⁰⁴ IOTC Resolution 17/06, *supra* note 43, at ¶ 13; ICCAT Recommendation 16-15, *supra* note 43, at ¶ 16; IATTC Resolution C-12-07, *supra* note 43, at ¶ 13; CCSBT Transshipment Resolution, *supra* note 43, at ¶ 15.

²⁰⁵ IOTC Resolution 17/06, *supra* note 43, at ¶¶ 15–16; ICCAT Recommendation 16-15, *supra* note 43, at ¶¶ 17–18; IATTC Resolution C-12-07, *supra* note 43, at ¶¶ 14–15; CCSBT Transshipment Resolution, *supra* note 43, at ¶¶ 17–18.

²⁰⁶ IOTC Resolution 17/06, *supra* note 43, at ¶¶ 5–6; ICCAT Recommendation 16-15, *supra* note 43, at ¶¶ 6–8; IATTC Resolution C-12-07, *supra* note 43, at ¶¶ 6–8; CCSBT Transshipment Resolution, *supra* note 43, at ¶¶ 4–5.

²⁰⁷ IOTC Resolution 17/06, *supra* note 43, at ¶ 9; ICCAT Recommendation 16-15, *supra* note 43, at ¶ 11; IATTC Resolution C-12-07, *supra* note 43, at ¶ 10; CCSBT Transshipment Resolution, *supra* note 43, at ¶ 8.

²⁰⁸ IOTC Resolution 17/06, *supra* note 43, at ¶ 17; ICCAT Recommendation 16-15, *supra* note 43, at ¶ 19; IATTC Resolution C-12-07, *supra* note 43, at ¶ 16; CCSBT Transshipment Resolution, *supra* note 43, at ¶ 19.

²⁰⁹ IOTC Resolution 17/06, *supra* note 43, at ¶ 18; ICCAT Recommendation 16-15, *supra* note 43, at ¶ 20; IATTC Resolution C-12-07, *supra* note 43, at ¶ 17; CCSBT Transshipment Resolution, *supra* note 43, at ¶ 20.

Some of the t-RFMOs apply additional rules. For example, ICCAT bans transshipment at sea for Mediterranean swordfish²¹⁰ and bluefin tuna²¹¹ without exceptions for LSPLVs. The IATTC's resolution "does not apply to troll vessels, pole-and-line vessels, or vessels engaged in the transshipment of fresh fish at sea."²¹²

Based on these rules, transshipment at sea by longliners continues in large numbers, although by only a few fishing nations.²¹³ LSTLVs transhipped 1,215 times in 2016 (compared to 726 in 2015) within the IOTC area of competence,²¹⁴ the vast majority occurring on the high seas. LSTLVs from Chinese Taipei accounted for 67% of these transshipments "with Chinese, Seychellois, Japanese, Malaysian and Korean flagged vessels accounting for 11%, 11%, 6%, 4% and 1%, respectively"; Tanzania and Oman accounted for roughly 1%.²¹⁵ Fishing vessels transhipped to carrier vessels "predominantly flagged to Vanuatu (29%), Taiwan, Province of China (24%), and Malaysia (10%)," with other transshipments to vessels flagged by Korea, Seychelles, Panama, Liberia, Singapore, Kiribati and Japan.²¹⁶

ICCAT reported 854 transshipments in 2016,²¹⁷ accounting for approximately 31,057 metric tons of tuna and tuna-like species.²¹⁸ Chinese Taipei, Japan, and China accounted for the vast majority of these transshipments (94%), with 384, 238, and 177 high seas transshipments, respectively.²¹⁹ ICCAT has registered 110 carrier vessels, forty-one of which are flagged by Panama and twenty-three by Liberia.²²⁰

The IATTC posted its highest number of at-sea transshipments in 2016 at 676; the previous high was 515 transshipments in 2011.²²¹ China accounted for almost half of the transshipments in 2016, with Chinese Taipei, Vanuatu,

²¹⁰ Int'l Comm'n for the Conservation of Atl. Tunas, *Recommendation by ICCAT Replacing the Recommendation [13-04] and Establishing a Multi-Annual Recovery Plan for Mediterranean Swordfish*, at ¶ 38, Doc. 16-05, <https://perma.cc/RC8V-K528>.

²¹¹ Int'l Comm'n for the Conservation of Atl. Tunas, *Recommendation by ICCAT Amending the Recommendation 13-07 by ICCAT to Establish a Multi-Annual Recovery Plan for Bluefin Tuna in the Eastern Atlantic and Mediterranean*, at ¶ 58, Doc. 14-04, <https://perma.cc/ESTB-ANAE>.

²¹² ICCAT Recommendation 16-15, *supra* note 43, at ¶ 3.

²¹³ See MARINE RES. ASSESSMENT GRP. AND CAPFISH, A SUMMARY OF THE IOTC REGIONAL OBSERVER PROGRAMME DURING 2016: ANNUAL CONTRACTORS' REPORT 5 (2017), <https://perma.cc/K2R8-CBK4>.

²¹⁴ *Id.*

²¹⁵ *Id.* at 5.

²¹⁶ *Id.*

²¹⁷ Int'l Comm'n for the Conservation of Atl. Tunas, *Report on the Implementation of the ICCAT Regional Observer Programme (ROP) for Transshipment 2016/2017*, at 3 tbl.2 Doc. No. PWG-402/2017 (Nov. 15, 2017), <https://perma.cc/2YWH-7885>.

²¹⁸ *Id.* at 3, tbl. 1.

²¹⁹ *Id.* at 3, tbl.2. Vessels from Belize, Côte d'Ivoire, Korea, Senegal, and St. Vincent and the Grenadines accounted for the remaining high seas transshipments. *Id.*

²²⁰ VAN DER GEEST, *supra* note 184, at 60.

²²¹ Inter-Am. Tropical Tuna Comm'n, *Implementation of the IATTC Regional Observer Program for Transshipment at Sea*, at 3 fig.3.2, Doc. No. IATTC-92-06 (July 24-28, 2017), <https://perma.cc/YXK7-C7BB>.

Japan, Panama, and Korea accounting for the remainder.²²² Of the seventy-three IATTC-registered carrier vessels, twenty-nine are flagged by Liberia and seventeen by Panama.²²³

V. THE CCM'S VIEWS OF "IMPRACTICABILITY"

CCMs have made various statements about whether transshipment in port is truly impracticable. As explained in Part VI.A, several CCMs believe that transshipment in port is impracticable based on the "significant economic hardship" element of the current two-part test.²²⁴ PNA members and the European Union believe that transshipment in port is feasible.²²⁵ No CCM has commented on the second element of the test—that transshipment in port would alter "historical modes of operation."

In the WCPFC's early years prior to adoption of CMM 2009–06, CCMs recommended harmonizing the WCPFC's transshipment rules with those of other RFMOs,²²⁶ noting that other RFMOs prohibited transshipment at sea by purse seine vessels and established exemptions for non-purse seine vessels.²²⁷ As noted in Part IV.C, the other tRFMOs continue to prohibit at-sea transshipment except by large scale longliners complying with a number of conditions.²²⁸ In 2007, China, Korea, and Japan continued to urge consistency with the rules of other RFMOs, but other CCMs advocated for stricter transshipment rules as a means to combat IUU fishing that is facilitated by transshipment at sea; still, they acknowledged that legitimate transshipment was "an integral part of current fishing operations for some fleets."²²⁹

Based on a range of issues identified as important for a transshipment CMM,²³⁰ the WCPFC at its fourth annual session (WCPFC4) in 2007

²²² *Id.* at 3 fig. 3.3.

²²³ *Vessel Database*, INTER-AM. TROPICAL TUNA COMM'N, <https://perma.cc/ZV5H-6T2V> (last updated Jan. 5, 2019).

²²⁴ *2016 Guidelines for High Seas Transshipment*, *supra* note 24, at ¶¶ 8–9.

²²⁵ *See, e.g.*, TCC12 SUMMARY REPORT, *supra* note 178, at ¶¶ 250, 260 (2016).

²²⁶ *See* W. AND CENT. PAC. FISHERIES COMM'N, FIRST MEETING OF THE TECHNICAL AND COMPLIANCE COMMITTEE OF THE COMMISSION FOR THE CONSERVATION AND MANAGEMENT OF HIGHLY MIGRATORY FISH STOCKS IN THE WESTERN AND CENTRAL PACIFIC OCEAN: SUMMARY REPORT, at ¶ 46(a) (2005), <https://perma.cc/QF2U-R2F2>.

²²⁷ W. AND CENT. PAC. FISHERIES COMM'N, TECHNICAL AND COMPLIANCE COMMITTEE SECOND REGULAR SESSION: SUMMARY REPORT, at ¶ 80 (2006), <https://perma.cc/VR54-PETX>.

²²⁸ *See, e.g.*, IOTC Resolution 17/06, *supra* note 43, at ¶ 3 (allowing at-sea transshipment only for largescale tuna longline fishing vessels).

²²⁹ W. AND CENT. PAC. FISHERIES COMM'N, TECHNICAL AND COMPLIANCE COMMITTEE, THIRD REGULAR SESSION: SUMMARY REPORT, at ¶ 64 (2007), <https://perma.cc/D6DW-XGKC>.

²³⁰ *Id.* at ¶ 75 ("TCC agreed that these issues are important points to be considered in a measure concerning transshipment, including, *inter alia* i. encouraging transshipment in port under Article 29 of the Convention; ii. allowance for transshipment outside the Convention Area and on the high seas under conditions that allow for appropriate monitoring of these activities; iii. allowance for carrier vessels to be flagged to non-CCMs; iv. allowance [of] continued operation of all legitimate transshipment activities; v. consideration of the necessary linkage with observer programmes; vi. development of registers and reporting requirements for carrier

undertook the first comprehensive discussion of drafting a transshipment CMM.²³¹ At the meeting, CCMs advocating for high seas transshipment stated that a requirement to tranship in port would not be “economically viable.”²³² One CCM argued that the WCPFC Convention does not call for an explicit ban on at-sea transshipment.²³³ Korea expressed interest in developing monitoring measures for transshipment at sea, requesting consideration of cost effectiveness and practicability.²³⁴ Those CCMs supporting a ban on high seas transshipment noted that transshipment monitoring with vessel monitoring systems and observers might not be effective and that transshipment in port would be economically beneficial to and promote the development of those ports.²³⁵ The CCMs could not reach an agreement at WCPFC4.

The impracticability standard first emerged in 2008 at the WCPFC’s fifth annual session on a proposal from the Republic of the Marshall Islands.²³⁶ The proposal included the two-part test of “significant economic hardship” and “significant and substantial change to historical mode of operation” that was eventually included in CMM 2009–06,²³⁷ although the significant economic hardship test was framed differently.²³⁸ Regardless, CCMs did not comment on the proposed impracticability test until the following year at the Technical Compliance Committee’s Fifth Regular Session,²³⁹ the proposal included brackets around the draft CMM’s language relating to significant

vessels; vii. specification of the types and scale of vessels that will fall under the scheme; viii. consideration of the consistency with the provisions of other RFMOs.”).

²³¹ The draft, proposed by Australia and Japan, was modeled on the transshipment rules of other RFMOs. See generally W. and Cent. Pac. Fisheries Comm’n, *[Conservation and Management Measure Establishing] Procedures for Transshipments by Fishing Vessels*, WCPFC4–2007/DP03 Rev.2 (Nov. 27, 2007), <https://perma.cc/RV8B-6B4M>.

²³² W. AND CENT. PAC. FISHERIES COMM’N, FOURTH REGULAR SESSION: SUMMARY REPORT ¶ 155 (2007), <https://perma.cc/5FTU-5TLZ> [hereinafter WCPFC4 SUMMARY REPORT].

²³³ *Id.* at ¶ 154

²³⁴ *Id.* at 95–96.

²³⁵ *Id.* at ¶ 156.

²³⁶ See generally W. and Cent. Pac. Fisheries Comm’n, *Draft Conservation and Management Measure on Regulation of Transshipment (Revision from WCPFC-TCC4-2008/DP-06)*, WCPFC5-2008/DP02 (Rev.3) (Dec. 12, 2008), <https://perma.cc/L3XQ-FVJG>.

²³⁷ *Id.* at § 2.2; see CMM 2009–06, *supra* note 22, at ¶ 37(a).

²³⁸ Compare *Draft Conservation and Management Measure on Regulation of Transshipment*, *supra* note 236, at § 2.2 (“The prohibition of transshipment in the high seas would cause a significant economic hardship, which would be assessed by comparing the average value of the catch to be transhipped with the average cost that would be incurred to move into waters under the national jurisdiction of a CCM[.]”), with CMM 2009–06, *supra* note 22, at ¶ 37(a) (“The prohibition of transshipment in the high seas would cause a significant economic hardship, which would be assessed in terms of the cost that would be incurred to transship or land fish at feasible and allowable locations other than on the high seas, as compared to total operating costs, net revenues, or some other meaningful measure of costs and/or revenues.”(emphasis added)).

²³⁹ W. and Cent. Pac. Fisheries Comm’n, *Technical and Compliance Committee, Fifth Regular Session: Marshall Islands–Draft Conservation and Management Measure on Regulations of Transshipment*, at ¶ 36, WCPFC-TCC5-2009/DP-08 (Rev.3) (Oct. 5, 2009), <https://perma.cc/XZ6N-458J>.

economic hardship,²⁴⁰ indicating that CCMs disagreed over how to make that determination.²⁴¹ Even so, the Republic of the Marshall Islands, now joined by Nauru, presented the WCPFC at its sixth annual session with a new draft, which modified the “significant economic hardship” test to its current form;²⁴² no discussion indicates why the change was made or agreed,²⁴³ although one participant in the negotiations has indicated that the adopted text provided a better representation of what the test was trying to determine.²⁴⁴

Because the two-part impracticability test included in CMM 2009–06 was intended to be an interim test, CCMs have continued discussing it.²⁴⁵ Discussions relating to the impracticability standard intensified in 2013 when the WCPFC’s Executive Director called into question the need to tranship on the high seas except in very limited circumstances.²⁴⁶ Under the Executive Director’s proposal, if transhipment on the high seas were to occur, both the fishing vessel and the receiving vessel must have an observer on board.²⁴⁷

In reaction to the proposal, Fiji responded that transhipment in port is an economic hardship for fishing vessels far from port as it leads to lost fishing time and increased fuel costs.²⁴⁸ The members of the Pacific Islands Forum Fisheries Agency (FFA) agreed with the Executive Director that observers should be on both vessels, but reiterated that all transhipments should take place within EEZs or in port where transhipment is easier to monitor.²⁴⁹ Similarly, the European Union restated its support for a total ban on transhipment at sea, but agreed that if transhipment on the high seas occurs it should be strictly monitored with observers on both vessels.²⁵⁰ However, other unidentified CCMs found the two-observer requirement “excessive and unnecessary.”²⁵¹ The United States sought to move away from

²⁴⁰ *Id.*

²⁴¹ *See id.*

²⁴² W. and Cent. Pac. Fisheries Comm’n, *Nauru and Marshall Islands - Draft Conservation and Management Measure on Regulation of Transhipment*, at ¶ 37(a), WCPFC6-2009/DP03 (Rev.2) (Dec. 7–11, 2009), <https://perma.cc/PG9R-3VLN>.

²⁴³ *See* W. AND CENT. PAC. FISHERIES COMM’N, SIXTH REGULAR SESSION, at ¶¶ 303–09 (2009), <https://perma.cc/2ZDE-7VFB> [hereinafter WCPFC6 SUMMARY REPORT].

²⁴⁴ Personal Communication from Wez Norris, Pontus Consulting, to Alfred Cook, WWF W. and Cent. Pac. Tuna Programme Manager (Aug. 27, 2018) (notes on file with Author). Previously, Mr. Norris was the Deputy Director-General, Pacific Islands Forum Fisheries Agency (FFA). Helen Grieg, *FFA Deputy Director General Appointment Announced*, FFA’s TUNAPACIFIC: FISHERIES NEWS & VIEWS (Dec. 10, 2017), <https://perma.cc/XK3E-ZNX8>.

²⁴⁵ *See, e.g., 2013 Guidelines for Determining Impracticability*, *supra* note 24.

²⁴⁶ *Id.* For more on the Executive Director’s critique and his proposal, see *supra* Part IV.A.

²⁴⁷ *2013 Guidelines for Determining Impracticability*, *supra* note 24.

²⁴⁸ *Id.* Fiji tranships tuna species at sea but within its archipelagic waters and territorial seas. MIKE A. MCCOY, A SURVEY OF TUNA TRANSHIPMENT IN PACIFIC ISLAND COUNTRIES: OPPORTUNITIES FOR INCREASING BENEFITS AND IMPROVING MONITORING 27 (2012), <https://perma.cc/G5EG-3C9N>. Under paragraph 33 of CMM 2009–06, it is allowed to do so provided that it tranships consistently with national law. CMM 2009–06, *supra* note 22, at ¶ 33.

²⁴⁹ TCC9 SUMMARY REPORT, *supra* note 111, at ¶¶ 258–59.

²⁵⁰ *Id.* at ¶ 260.

²⁵¹ *Id.* at ¶ 261.

a consideration of economic hardship and toward a focus on whether the CCM has fully implemented the notice, reporting, and observer requirements for transshipment monitoring.²⁵² In this way, the WCPFC could tackle the root problem—IUU fishing.²⁵³ Because CCMs could not reach agreement on a way forward, the TCC did not recommend consideration of the proposal at the WCPFC's next meeting.

The discussion of impracticability resumed at the WCPFC's twelfth annual session in 2015 when the Republic of Marshall Islands noted numerous problems associated with the impracticability provisions and proposed a ban on transshipment at sea.²⁵⁴ The European Union supported further work to revise CMM 2009–06²⁵⁵ and noted that the current two-part impracticability test imposes a “very high threshold” for transshipment at sea.²⁵⁶ It further recognized that transshipment in port raised costs but vessels flagged by E.U. member states have shown that it is nonetheless feasible.²⁵⁷ The FFA noted that the impracticability standards had not been implemented in good faith.²⁵⁸ Japan opposed consideration of a high seas transshipment ban, arguing that transshipment at sea is “a common global practice;” it would, however, support greater traceability of transshipments.²⁵⁹ Korea appeared to support greater observer coverage, noting that observers help ensure compliance, but it opposed a ban on transshipment at sea, which it said would create an “operational burden.”²⁶⁰ As a closing point, Korea stated its view that the WCPFC should “strike the balance between compliance, conservation and operational stability.”²⁶¹ China added that transshipment in port “is practically difficult due to operational costs and conflicts between SIDS’ domestic laws and WCPFC laws, especially around shark species.”²⁶² China also reported that “some SIDS have increased their port costs” and that “many SIDS ports do not have facilities for handling deep frozen product.”²⁶³

²⁵² *Id.* at ¶ 264.

²⁵³ *Id.*

²⁵⁴ W. AND CENT. PAC. FISHERIES COMM’N, TWELFTH REGULAR SESSION OF THE COMMISSION: SUMMARY REPORT ¶¶ 50, 698 (2015), <https://perma.cc/QZ4Z-XUTT> [hereinafter WCPFC12 SUMMARY REPORT].

²⁵⁵ *See id.* at ¶ 699.

²⁵⁶ *Id.* at ¶ 712.

²⁵⁷ *Id.*; *see also* TCC12 SUMMARY REPORT, *supra* note 178, at ¶ 250; W. AND CENT. PAC. FISHERIES COMM’N, THIRTEENTH REGULAR SESSION: SUMMARY REPORT ¶ 167 (2017) [hereinafter WCPFC13 SUMMARY REPORT].

²⁵⁸ WCPFC12 SUMMARY REPORT, *supra* note 254, at ¶ 701.

²⁵⁹ *Id.* at ¶ 703. Although Japan did not make a link to CMM 2009–06, the preamble of that CMM recognizes that “transshipment at sea is a common global practice, but that unregulated and unreported transshipment of catches of highly migratory fish stocks at sea, in particular on the high seas, contributes to distorted reporting of catches of such stocks and supports IUU fishing in the Convention Area.” CMM 2009–06, *supra* note 22, at preamble, ¶ 2.

²⁶⁰ WCPFC12 SUMMARY REPORT, *supra* note 254, at ¶ 706.

²⁶¹ *Id.*

²⁶² *Id.* at ¶ 715.

²⁶³ *Id.*

This 2015 discussion led to the development of the Secretariat's 2016 transshipment proposal,²⁶⁴ which replaced the "impracticability" test with bright line rules.²⁶⁵ CCMs reacted to the Secretariat's proposal with a variety of views. Korea and China did not understand the need to ban transshipment on the high seas if the vessel is authorized to transship sharks or shark fins;²⁶⁶ China noted the increase in the price of port transshipment fees²⁶⁷ and that some ports did not have sufficient frozen container capacity;²⁶⁸ China and Chinese Taipei sought additional flexibility to transship at sea for vessels catching albacore;²⁶⁹ China feared that a requirement to transship in port could cause its albacore tuna industry to collapse.²⁷⁰ The PNA opposed transshipment on the high seas by ULT freezer longliners.²⁷¹

On the other hand, the European Union, FFA, and PNA supported the shark provision;²⁷² the European Union acknowledged that some vessels carrying ULT fish may need to transship on the high seas;²⁷³ and the United States supported the approach overall, commenting that the "bright lines" established in the guidelines were a positive step forward.²⁷⁴ The European Union concluded by lamenting that the "impracticability" exemption "has become the norm" regarding transshipment.²⁷⁵

VI. IS TRANSHIPMENT IN THE WCPFC CONVENTION AREA REALLY IMPRACTICABLE?

Globally, transshipment at sea, and in particular transshipment on the high seas, remains a common practice in the tuna RFMOs but, as recognized by CMM 2009-06, "contributes to distorted reporting of catches of such stocks and supports IUU fishing in the Convention Area" if it is unregulated.²⁷⁶ In addition, globally, transshipment on the high seas is undertaken by relatively few fishing nations. Global trends are mirrored in the WCPFC. Many WCPFC vessels are authorized to transship on the high seas and a significant percentage of the catch is transhipped on the high seas, but three CCMs are responsible for the vast majority of high seas transshipments.

Despite the goal to minimize, if not end, transshipment on the high seas, it appears that the WCPFC's impracticability exemption has become the rule. CCMs have failed to report on procedures to monitor high seas transshipment and failed to provide plans detailing how they are encouraging

²⁶⁴ See *id.* at ¶ 718.

²⁶⁵ For a discussion of the Secretariat's 2016 proposal, see *supra* Part IV.B.

²⁶⁶ TCC12 SUMMARY REPORT, *supra* note 178, at ¶¶ 247, 251.

²⁶⁷ *Id.* at ¶¶ 249, 262.

²⁶⁸ *Id.* at ¶ 262.

²⁶⁹ *Id.* at ¶¶ 249, 256.

²⁷⁰ *Id.* at ¶ 249.

²⁷¹ *Id.* at ¶ 258.

²⁷² *Id.* at ¶¶ 250, 254, 258.

²⁷³ *Id.* at ¶ 250.

²⁷⁴ *Id.* at ¶ 257.

²⁷⁵ WCPFC13 SUMMARY REPORT, *supra* note 257, at ¶ 167.

²⁷⁶ CMM 2009-06, *supra* note 22, at preamble, ¶ 2.

a reduction in transshipment on the high seas,²⁷⁷ as required by CMM 2009–06.²⁷⁸ CCMs are not making vessel-specific determinations of impracticability; instead, the Secretariat has reported that “determinations of impracticability made by individual CCMs are implied from information provided as part of the Record of Fishing Vessels.”²⁷⁹

But is transshipment in port really impracticable? A review of relevant data concerning location of the catch, quality of port facilities, and fuel and other costs indicates that it is not.

A. Location and Composition of the Catch in the WCPFC Convention Area

A breakdown of where fish are caught by different gear types can help determine whether transshipment in port is impracticable. As the Secretariat noted in its 2013 proposal to redefine “impracticability,” purse seine vessels are able to tranship their catch in port, as are many longline vessels.²⁸⁰ In fact, purse seine vessels tranship in port even though they caught a significant portion of their catch (9%) on the high seas in 2016.²⁸¹ In addition, vessels used both gear types to catch a variety of tuna species both in EEZs and on the high seas.²⁸²

Table 3: Percentage of Total 2016 Catch in WCPFC Convention Area by Area²⁸³

| Gear | EEZ | High Seas |
|-------------|-----|-----------|
| Longline | 68% | 32% |
| Purse seine | 91% | 9% |

²⁷⁷ 2013 Guidelines for Determining Impracticability, *supra* note 24.

²⁷⁸ CMM 2009–06, *supra* note 22, at ¶ 35(a)(i)(v).

²⁷⁹ 2016 Guidelines for High Seas Transshipment, *supra* note 24, at ¶ 10.

²⁸⁰ 2013 Guidelines for Determining Impracticability, *supra* note 24.

²⁸¹ See *infra* Table 3.

²⁸² See *infra* Table 4.

²⁸³ E-mail from Peter Williams, *supra* note 28.

Table 4: Percentage of Total 2016 Catch in WCPFC Convention Area by Area and Gear Type²⁸⁴

| Longline | | |
|-----------|-------|-----------|
| Species | EEZ | High Seas |
| Skipjack | 74.0% | 26.0% |
| Yellowfin | 75.5% | 24.5% |
| Bigeye | 60.7% | 39.3% |
| Albacore | 66.7% | 33.3% |

| Purse seine | | |
|-------------|-------|-----------|
| Species | EEZ | High Seas |
| Skipjack | 90.5% | 9.5% |
| Yellowfin | 94.4% | 5.6% |
| Bigeye | 88.2% | 11.8% |

Despite these similarities, longliners tend to fish further east in the WCPFC Convention Area than purse seine vessels,²⁸⁵ with a significant amount of longline fishing occurring east of 160°W longitude.²⁸⁶ However, the two fisheries have significant overlap in the area just east of 160°E longitude.²⁸⁷ In fact, the Korean and Chinese Taipei purse seine fleets fish well east of 160°E longitude²⁸⁸ yet transhipped those catches in port.

Consequently, distance from port and the species caught are unlikely, alone, to result in a finding of impracticability. Indeed, as noted earlier, the U.S. and Japanese longline fleets rarely tranship at sea and travel 500 nautical miles and even much greater distances to tranship in port.²⁸⁹ Similarly, the E.U. longline fleet does not tranship at sea.²⁹⁰ In addition,

²⁸⁴ E-mail from Peter Williams, Oceanic Fisheries Programme (OFP), Secretariat of the Pacific Community (SPC), to Chris Wold, Attorney, Lewis & Clark International Environmental Law Project (Mar. 29, 2018) (on file with the author).

²⁸⁵ *2016 Overview of Tuna Fisheries in the Western and Central Pacific Ocean*, *supra* note 78, at figs. 11–19 (showing distribution of purse seine catch and effort); *Id.* at figs. 35–38 (showing distribution of longline catch and effort).

²⁸⁶ *Id.* at 26 fig.35.

²⁸⁷ *Id.* at 12 fig.18, 13 fig.19, 28 fig.38. Purse seine fishing effort moves back and forth across 160°E longitude depending on El Niño–Southern Oscillation Index (ENSO) conditions. The concentration of fishing effort west of 160°E longitude in 2016 is consistent with El Niño to neutral ENSO conditions. The previous two years saw more purse-seine effort east of 160°E longitude. *Id.* at 7.

²⁸⁸ *Id.* at 10 figs.14, 15.

²⁸⁹ *See supra* Part III.C.

²⁹⁰ *2017 Annual Report on WCPFC Transshipment Reporting*, *supra* note 26, at 6 tbl.2 (showing no EU transshipments at sea). Three Spanish-flagged vessels—the “EU fleet”—fish primarily for swordfish in temperate waters south of 20° south—but primarily 30° south—and typically use Papeete for transshipment and resupplying, although they also use Auckland, Suva, and Taroa. European Union, *Annual Report to the Commission, Part I: Information on Fisheries, Research, and Statistics*, at § 2.3, WCPFC-SC13-AR/CCM-05 (July 13, 2017), <https://perma.cc/MDY5-NRJW> [hereinafter European Union, *2017 Annual Report to the Commission, Part I*].

several years of transshipment records show that vessels tend to tranship on the high seas just on the other side of a CCM's EEZ boundary,²⁹¹ suggesting that they are moving from areas under national jurisdiction to the high seas to tranship.²⁹² Even if that is not true, the vessels are much closer to port than the U.S. and E.U. fleets and many vessels in the Japanese fleet that tranship in port.

B. Ports and Port Infrastructure

In general, port infrastructure in the region appears adequate to fulfill the needs of different vessel types fishing in the WCPFC Convention Area.²⁹³ Although port facilities exist throughout the region, from Papeete in the southeastern corner of the Convention area to Rabaul in the northwestern corner, fishing vessels of the four primary WCPFC distant water fishing nations (DWFN)—China, Chinese Taipei, Japan, and Korea—use five ports far more (1,276 times) than any others: Pohnpei, Majuro, Rabaul, Honiara, and Tarawa.²⁹⁴ Vessels from these four DWFNs also use Funafuti, Lae, Kiritimati, Noro, Suva, and Wewak, but these ports accounted for just sixty-four (5%) of the total transshipments in the ports of Pacific Island CCMs,²⁹⁵ with Wewak accounting for thirty-eight (60%) of them.²⁹⁶

Other ports appear to be viable as they are used by some of the major fishing operators in the WCPFC Convention Area. For example, Luen Thai Fishing Venture Ltd (LTFV), one of the major Chinese tuna companies operating in the WCPFC Convention Area, uses Majuro, Kosrae, Pohnpei, Palau, and Samoa.²⁹⁷ It uses the Pohnpei and Samoa ports for transshipping containers of frozen fish,²⁹⁸ while it uses the other ports for buying fresh fish and for other fisheries purposes.²⁹⁹ Spanish vessels tranship and resupply primarily in Papeete.³⁰⁰ This indicates that these ports are viable for transshipment.

Vessel captains choose a port for transshipment based on a few factors. The most significant factor is proximity to the fishing grounds.³⁰¹ However, other factors play a role. For example, in 2012, Majuro, in the Republic of the Marshall Islands (RMI), hosted a disproportionate number of purse seine

²⁹¹ See *2013 Guidelines for Determining Impracticability*, *supra* note 24; *2017 Annual Report on WCPFC Transshipment Reporting*, *supra* note 26, at 10 fig.3, 11 fig.4, 12 fig.5.

²⁹² See Kristina Boerder et al., *Global Hot Spots of Transshipment of Fish Catch at Sea*, 4 SCI. ADVANCES, July 2018, at 1, 3, <https://perma.cc/95ZW-AR64> (stating that “[f]or most of the time vessels spent fishing before meeting a reefer, they were located in EEZs”).

²⁹³ See *2013 Guidelines for Determining Impracticability*, *supra* note 24 (stating that WCPFC members “have well establish[ed] port and transport infrastructure and countries welcome the business associated with port based activities”).

²⁹⁴ MCCOY, *supra* note 248, at 21–22.

²⁹⁵ *Id.* at 22.

²⁹⁶ *Id.*

²⁹⁷ CAMPLING ET AL., *supra* note 132, at 182.

²⁹⁸ *Id.* at 183.

²⁹⁹ *Id.* at 182–83.

³⁰⁰ European Union, *2017 Annual Report to the Commission, Part I*, *supra* note 290, at § 2.3.

³⁰¹ MCCOY, *supra* note 248, at 22.

transhipments relative to fish caught in its EEZ.³⁰² Captains use Majuro because it established clear procedures before other ports in the region.³⁰³ For example, it ensured that quarantine and other government personnel were at the ports at the same time as purse seine vessels.³⁰⁴ It is not uncommon to have fifteen purse seine vessels in Majuro at the same time, which has led carrier vessels to congregate there as well.³⁰⁵ In addition, even if the catch did not occur in RMI's EEZ, the fishing grounds are relatively close; in contrast, the longline fishing grounds are typically farther from Majuro, and captains therefore prefer to use other ports for transhipment.³⁰⁶

The size of the catch may also play a role in where transhipment occurs. As in Majuro, tuna trading companies place carrier vessels in locations that are convenient for purse seiners.³⁰⁷ However, some purse seine vessels with smaller catches may not be able to compete for space on a carrier vessel with those vessels and companies with larger quantities of fish; they may need to travel to less convenient ports to tranship.³⁰⁸ Consequently, carrier vessels are less likely to wait in port for a longliner that may not come as it attempts to fill its hold. Thus, carrier vessels are more likely to meet longliners on the fishing grounds.³⁰⁹ Of course, if longliners were required to tranship in port, carrier vessels may establish a presence in certain ports to take advantage of increased fish product from those vessels.³¹⁰

The average catch per purse seine vessel prior to transhipment is typically going to be much larger due in part to the larger size of the vessels. For example, all vessels in the Korean purse seine fleet are 501 gross registered tonnage (GRT) or larger, while all of its longline vessels are between 201 and 500 GRT.³¹¹ Japanese purse seine vessels show a greater range of sizes, but the majority (thirty-seven of sixty-nine) are larger than 200 GRT.³¹² The average amount transhipped by Korea's purse seine vessels

³⁰² Majuro hosted 25% of DFWN transhipment operations, but only 17,500 tons of the reported transhipments were captured by distant water purse seine vessels in the entire Republic of Marshall Islands EEZ for that entire year. In contrast, Tarawa documented only 8% of transhipments occurring in port, even though there was a reported catch of 239,000 tons of fish originating from their EEZ. *Id.* at 23.

³⁰³ Interview with Mike McCoy, Associate, Gillett, Preston and Associates Inc. (Mar. 2018) (notes on file with author).

³⁰⁴ *Id.*

³⁰⁵ *Id.*

³⁰⁶ *Id.*

³⁰⁷ MCCOY, *supra* note 248, at 22.

³⁰⁸ *Id.* at 20.

³⁰⁹ Interview with Mike McCoy, *supra* note 303.

³¹⁰ Personal Communication from Wez Norris, Pontus Consulting, to Alfred Cook, WWF Western and Central Pacific Tuna Programme Manager, *supra* note 244.

³¹¹ Republic of Korea, *2017 Annual Report to the Commission, Part I: Information on Fisheries, Research, and Statistics*, WCPFC-SC13-AR/CCM-12 (Rev01), at tbl.2 (2017), <https://perma.cc/D2MM-PN4Q>.

³¹² Japan, *Annual Report to the Commission: Part I: Information on Fisheries, Research, and Statistics*, WCPFC-SC13-AR/CCM-10 (Rev3), at 9, tbl. 1 (31 July 2017), <https://perma.cc/M3LU-P7T6>.

in 2016 was 788.62 metric tons per transshipment,³¹³ while its longline vessels transhipped a total of 14,425 metric tons of fish caught in the WCPFC Convention Area in 104 transactions, for 138.70 metric tons per transshipment.³¹⁴

Korea's amount of fish transhipped from longliners appears to be much higher than average. Based on data from WCPFC transshipment forms, longline vessels transhipped on the high seas 948 times in 2016³¹⁵ and transhipped 23,640 metric tons of bigeye, 9,099 metric tons of yellowfin, and 18,135 metric tons of albacore for a total of 50,874 metric tons.³¹⁶ That equates to 53.66 metric tons of tuna per transshipment. When swordfish and other species are added to the catch, the total rises to 61,698 metric tons,³¹⁷ or 65.08 metric tons per transshipment. A review of Japan's data is roughly consistent with these averages: 44.07 metric tons per transshipment.³¹⁸

A range of other factors may also lead captains to choose one port over another. These factors include the desire of fishermen to be paid.³¹⁹ A tuna trading company may have an office that can issue checks in one port but not another. In addition, fishermen may not get paid until they sell their fish; thus, they may decide to sell and tranship their catch whenever it is convenient, including on the high seas.³²⁰ Other factors may include weather, the "need for international air travel connections" to replace crew, "past experiences in a port with government officials," the need to make repairs, and the availability of supplies, equipment, and other port amenities.³²¹

Regardless of these factors that may lead to the preference of one port over another, a comparison of the five heavily used ports for transshipment with ten other ports spread throughout the WCPFC Convention Area³²² shows little difference in their physical attributes. In other words, the region has the port infrastructure to accommodate mandatory transshipment in port by non-purse seine vessels.

For example, all fifteen ports are of sufficient depth and size to allow transshipment by even the biggest longliners authorized to fish in the WCPFC Convention Area. Heavily used ports such as Pohnpei and Rabaul have

³¹³ Korea reported a total purse seine catch of 272,863.5 metric tons and 346 transshipments. Republic of Korea, *2017 Annual Report to the Commission, Part I, supra* note 311, at tbl.6.

³¹⁴ *Id.*

³¹⁵ *2017 Annual Report on WCPFC Transshipment Reporting, supra* note 26, at 7 tbl.4.

³¹⁶ *Id.* at 7 tbl.3.

³¹⁷ *Id.* at 8 tbl.5.

³¹⁸ Japan recorded 261 metric tons of fish transhipped on the high seas and twenty-eight high seas transshipments. Japan, *2017 Annual Report to the Commission, Part I, supra* note 312, at 35 tbl. 6-1, 36 tbl.6-2.

³¹⁹ See MCCOY, *supra* note 248, at 22 ("The sale of the catch and the logistics involved may dictate use of another port.").

³²⁰ Interview with Mike McCoy, *supra* note 303.

³²¹ MCCOY, *supra* note 248, at 23.

³²² The following ten ports were assessed for this Article: Lae and Wewak in Papua New Guinea, Noro in the Solomon Islands, Kiritimati in Kiribati, Funafuti in Tuvalu, Apia in Samoa, Pago Pago in American Samoa, Suva and Lautoka in Fiji and Papeete in French Polynesia.

channels that are around 12.5 to 15.2 meters deep,³²³ anchorages that are at least twenty-three meters deep,³²⁴ and berths that are at least 122 meters.³²⁵ The channels at Honiara, and Tarawa are not quite as deep, ranging from 6.4 to 9.1 meters,³²⁶ but their berths—at a minimum of 150 meters—are long enough to accommodate tuna longliners.³²⁷ The ten ports less frequently used have similar physical attributes. Channel depths range from a low of 4.9 meters in Funafuti³²⁸ to fifty-five meters in Pago Pago³²⁹ but with most between seven and twenty-three meters deep.³³⁰ They can accommodate vessels that are at least 150 meters in length.³³¹

The amenities of these ports also overlap significantly. For example, all have airports, although the frequency of flights varies from airport to airport. Kiritimati, for example, has very few flights, making it less desirable for switching crews.³³² The quality of waste disposal also varies from port to port. Pohnpei, for example, appears to have inadequate waste disposal facilities.³³³

³²³ *Pohnpei Harbour: Port of Call*, WORLD PORT SOURCE, <https://perma.cc/B3DP-HZSC> (last visited Feb. 16, 2019) [hereinafter *Pohnpei Harbour*]; *Port of Rabaul: Port of Call*, WORLD PORT SOURCE, <https://perma.cc/5LCQ-LNNE> (last visited Feb. 16, 2019) [hereinafter *Port of Rabaul*]; *Port of Majuro: Port of Call*, WORLD PORT SOURCE, <https://perma.cc/3QJT-BN4W> (last visited Feb. 16, 2019) [hereinafter *Port of Majuro*].

³²⁴ *Pohnpei Harbour*, *supra* note 323; *Port of Rabaul*, *supra* note 323; *Port of Majuro*, *supra* note 323.

³²⁵ Shilpa Anjali & Camilla Trigona, *Micronesia Port of Pohnpei*, LOGISTICS CAPACITY ASSESSMENT, <https://perma.cc/28EG-P6HA> (last updated May 22, 2018); *Rabaul*, PNG PORTS CORP., <https://perma.cc/N6BR-Q4A8> (last visited Feb. 16, 2019).

³²⁶ *Port of Honiara: Port of Call*, WORLD PORT SOURCE, <https://perma.cc/A9T6-V8VC> (last visited Feb. 16, 2019); *Port of Betio: Port of Call*, WORLD PORT SOURCE, <https://perma.cc/P9PH-RZQP> (last visited Feb. 16, 2019).

³²⁷ See *Solomon Islands Port of Honiara*, LOGISTICS CAPACITY ASSESSMENT, <https://perma.cc/LUS5-WXJ4> (last visited Feb. 16, 2019); *Port of Betio: Port of Call*, *supra* note 326.

³²⁸ *Port of Funafuti: Port of Call*, WORLD PORT SOURCE, <https://perma.cc/5K2W-P3PS> (last visited Feb. 16, 2019).

³²⁹ *Port of Pago Pago, American Samoa*, DEP'T PORT ADMIN. AM. SAMOA GOV'T, <https://perma.cc/VQ5H-R254> (last visited Feb. 16, 2019).

³³⁰ See, e.g., *Port of Lae: Port of Call*, WORLD PORT SOURCE, <https://perma.cc/GXR3-E7QL> (last visited Feb. 16, 2019) (23.2 meters); *Port of Wewak: Port of Call*, WORLD PORT SOURCE, <https://perma.cc/3G4T-YCBE> (last visited Feb. 16, 2019) (7.1 to 9.1 meters); *Port of Noro, Solomon Islands*, PORTS.COM, <https://perma.cc/Y37N-XV28> (last visited Feb. 16, 2019); *Port of Apia: Port of Call*, WORLD PORT SOURCE, <https://perma.cc/2KFN-4G7F> (last visited Feb. 16, 2019) (23.2 meters); *Port of Papeete: Port of Call*, WORLD PORT SOURCE, <https://perma.cc/L929-PB56> (last visited Feb. 16, 2019) (11 to 12.2 meters).

³³¹ See, e.g., *Port of Funafuti: Port of Call*, *supra* note 328; *Port of Papeete: Port of Call*, *supra* note 330; *Port of Lautoka*, FLI PORTS, <https://perma.cc/8MPG-4XNM> (last visited Feb. 16, 2019); *Port of Pago Pago, American Samoa*, *supra* note 329; *Port of Apia: Port of Call*, WORLD PORT SOURCE, <https://perma.cc/8A8W-KZ4A> (last visited Feb. 16, 2019); *Port of Noro, Solomon Islands*, *supra* note 330.

³³² Interview with Mike McCoy, *supra* note 303.

³³³ See WORLD BANK, REPORT NO. PIDSIDSC23241, PROJECT INFORMATION DOCUMENT/INTEGRATED SAFEGUARDS DATA SHEET (PID/ISDS) 8 (2018) (“The near-shore water quality and ecosystems are degraded due to urban runoff, reclamations and sea walls, dredging, poor waste management and wastewater and ballast discharges from vessels at the docks.”).

One important factor to consider is the availability of refrigerated containers. If a carrier vessel is not present to tranship frozen fish, then the port must have refrigerated containers to store the fish until a vessel arrives to take the fish.³³⁴ China has noted that some ports do not have adequate ULT facilities.³³⁵ The Secretariat implicitly agreed with this assessment when it proposed an exemption to a high seas transshipment ban for ULT freezer longliners transshipping to ULT freezer carrier vessels.³³⁶

However, this may only represent current practices. Longline vessels are currently transshipping their ULT frozen fish to carrier vessels with ULT freezer capacity on the high seas.³³⁷ If longliners are required to tranship in port, presumably these carrier vessels would move their operations to port. Questions remain as to the cost-effectiveness of this business model. For example, insufficient information exists to determine whether carrier vessels move great distances to accommodate longline vessels fishing in preferred areas or whether carrier vessels remain stationary and longline vessels travel to the carriers. Despite these questions, it would seem that this strategy is feasible in principle.

C. The Role of Transshipment Fees and Other Port Costs

In 2016, China complained that port costs were rising, reaching \$300 per metric ton of fish, and creating an incentive to tranship on the high seas.³³⁸ Although preceding China's concern by four years, a 2012 study³³⁹ indicates that port costs are significantly lower than reported by China and not high enough to make transshipment in port economically infeasible—or in the words of CMM 2009–06—“impracticable.”

That study estimated that the five Pacific Island States hosting the five major ports for purse seine transshipment received between \$9.7 million and \$15.9 million in 2010 in combined gross revenue resulting from purse seine vessels transshipping in port.³⁴⁰ The average dollar amount per transshipment varied by port but ranged from a low of \$2,600 to \$6,700 in Rabaul to a high of \$9,500 to \$14,500 in Majuro.³⁴¹ In contrast, the Solomon Islands reported receiving gross revenue of approximately \$750 from each longline in-port transshipment in 2011.³⁴²

³³⁴ Interview with Mike McCoy, *supra* note 303.

³³⁵ TCC12 SUMMARY REPORT, *supra* note 178, at ¶ 715 (statement of China). The precise number of Chinese ULT-equipped vessels is not clear. China labels its longline vessels as “deep frozen.” China, *Annual Report to the Commission: Part 1: Information on Fisheries, Research, and Statistics*, at § 2.1 tbl.4, WCPFC-SC14-AR/CCM-03 (Aug. 8–16, 2018), <https://perma.cc/2QY9-KT6K>. However, it does not distinguish between those that freeze to -55°C and -60°C which is considered ULT. CAMPLING ET AL., *supra* note 132, at 171.

³³⁶ 2016 *Guidelines for High Seas Transshipment*, *supra* note 24, at 7.

³³⁷ See MCCOY, *supra* note 248, at 63.

³³⁸ TCC12 SUMMARY REPORT, *supra* note 178, at ¶ 262.

³³⁹ MCCOY, *supra* note 248, at 1.

³⁴⁰ *Id.* at 39–40.

³⁴¹ *Id.* at 39 tbl.5.

³⁴² *Id.* at 40.

The 2012 study also broke down various costs by port. It reported that transshipment fees varied from port to port. For example, Majuro charged no transshipment fees, while the Solomon Islands charged \$2 per ton, and RMI charged \$1,500 for seiners with a fishery access license and \$3,000 for seiners without a fishery access license for each transshipment.³⁴³ Based on these data, the study estimated that the ports charging transshipment fees earned \$1.45 million from those fees, or approximately \$1.90 per metric ton transhipped.³⁴⁴ It also concluded that the lack of transshipment fees does not provide a competitive advantage over Pacific Island States with transshipment fees.³⁴⁵ This lack of competitive advantage reinforces the view that multiple factors contribute to the choice of port for transshipment.³⁴⁶

Similarly, ports charge a range of fees (\$600 to \$6,000 for a typical purse seine visit of five to ten days)³⁴⁷ for a variety of government services, such as customs, quarantine, and anchorage, among other services.³⁴⁸ Additional fees or costs may be associated with the purchase of goods and services, such as food and disposal services. These costs would presumably apply to transshipment at sea as well, as would fuel costs. Other fees, such as pilot fees, would not apply to transshipment at sea. Given the general applicability of most of these costs, they should not be considered for determining whether transshipment in port is impracticable.

This 2012 study was designed to determine the value of in-port transshipment to Pacific Island States. Based on the estimated revenue to the five ports included in the study, the average revenue earned per transshipment by a purse seine vessel was \$8 to \$13 per metric ton transhipped.³⁴⁹ The corollary is that each transshipment costs a purse vessel \$8 to \$13 per metric ton transhipped—far lower than the figure provided by China.³⁵⁰ As noted above, however, not all of the costs associated with the transshipment can be attributed to transshipping in port. Regardless of where a vessel transships, it will need supplies. In any event, relative to wholesale prices of tuna that can easily reach \$10,000 per metric ton in the longline fishery³⁵¹ and the overall costs of operating a tuna vessel, a charge of \$8 to \$13 per metric ton would appear to be small. Similarly, a longliner's total cost of \$750 to tranship in port³⁵²—about \$11.54 per metric ton³⁵³—would

³⁴³ *Id.* at 33 tbl.1. Pohnpei in FSM charged \$1.37 per ton while Kiribati charged \$3 per ton. *Id.*

³⁴⁴ *Id.* at 33–34.

³⁴⁵ *See id.* at 33.

³⁴⁶ *Id.*

³⁴⁷ *Id.* at 35 tbl.2.

³⁴⁸ *Id.* at 34–35.

³⁴⁹ *Id.* at 40.

³⁵⁰ WCPFC12 SUMMARY REPORT, *supra* note 5, at ¶ 262.

³⁵¹ *See* Maggie Skirtun & Chris Reid, W. and Cent. Pac. Fisheries Comm'n, *Analyses and Projections of Economic Conditions in WCPO Fisheries*, at fig. 5-8, WCPFC-SC14-2018 ST-WP-04 Rev. 1 (Aug. 6, 2018), <https://perma.cc/QHR3-JRFV> (finding that fresh bigeye and yellowfin import prices into Japan were \$10,158 and \$9,491 in 2017 and that these amounts were 13% and 6% lower than the average price from 1999 to 2017).

³⁵² MCCOY, *supra* note 248, at 40.

also appear to be negligible relative to the costs of operating a vessel. For context, in 2006, a WCPFC Scientific Committee paper noted that the purchase of electronic devices of \$150,000 by a typical longliner in the late 1990s represented “a very small proportion of the value of a large longliner’s annual landings (about \$2.435 million per year).”³⁵⁴

D. Fuel, Labor, and Other Costs and Trends

The major fishing fleets in the Pacific have been declining, and they continue to decline despite the tremendous economic value of the fishery. For example, Japan’s tuna fleet began to shrink in the mid-1980s, turning Japan into a net importer of tuna, due to “rising competition from Taiwan, Korea, and other fleets and also because of soaring labor and fuel costs, declining catch rates, and shortage of labor supply.”³⁵⁵ Longline fleets overall—particularly those from Chinese Taipei, Korea, and Japan—are projected to continue shrinking due to smaller catches, higher fuel costs, and higher labor costs,³⁵⁶ as well as overcapacity of the fishery.³⁵⁷

Determining the relative influence of each factor—competition, catch size, overcapacity, labor costs, and fuel costs—is difficult because each factor plays a role. This complexity complicates a determination of whether transshipment in port is impracticable. For example, if fuel costs are the driving factor, then one might be able to legitimately claim that transshipment in port imposes substantial economic costs on a vessel, making transshipment in port impracticable. However, if the major driver is overcapacity, then the influence of fuel prices or labor costs on profitability would not be a compelling determinant of whether transshipment in port is impracticable. Under this latter scenario, fuel prices might merely be the “straw that broke the camel’s back” by which one action causes an unpredictably large or extreme reaction because of the cumulative effect of other actions.³⁵⁸

Undeniably, the size of the fleets of Chinese Taipei, Japan, and Korea have declined. Although Japan currently has 442 longliners registered to fish

³⁵³ If the average longline transshipment includes 65.08 metric tons of tuna and other fish caught in the WCPFC Convention Area, then a total transshipment cost of \$750 equates to \$11.54 per ton. See *supra* note 351 and accompanying text.

³⁵⁴ Peter Ward & Sheree Hindmarsh, *An Overview of Historical Changes in the Fishing Gear and Practices of Pelagic Longliners*, WCPFC-SC2-2006/FT WP-1, 18 (2006), <https://perma.cc/X8GH-YN2>.

³⁵⁵ Harry N. Scheiber et al., *Ocean Tuna Fisheries, East Asian Rivalries, and International Regulation: Japanese Policies and the Overcapacity/IUU Fishing Conundrum*, 30 U. HAW. L. REV. 97, 113 (2007).

³⁵⁶ CAMPLING ET AL., *supra* note 132, at 12–13, 130.

³⁵⁷ See Enric Sala et al., *The Economics of Fishing the High Seas*, 4 SCI. ADVANCES, June 2018, at 7 (“The lack of profitability for China and Taiwan may be related to massive overcapacity.”).

³⁵⁸ See *Straw that Broke the Camel's Back and the Last Straw*, GRAMMARIST, <https://perma.cc/5UTF-KJ4J> (last visited Feb. 16, 2019).

in the WCPFC Convention Area,³⁵⁹ only about half of these are distant water vessels; the others fish in coastal waters.³⁶⁰ This number represents a significant decline from Japan's 1963 peak of 1,901 distant waters vessels and 1972 peak of 940 small offshore vessels.³⁶¹ The fleet of Chinese Taipei registered to fish in the WCPFC Convention Area has declined from more than 2,238 in 1997³⁶² to fewer than 1,100 in 2018.³⁶³

The number of Korean vessels peaked at 220 in 1991 before dropping to roughly 125 between 2011 and 2013.³⁶⁴ It currently has 116 longliners registered to fish in the WCPFC Convention Area.³⁶⁵ In contrast, the Chinese fleet has grown. The Chinese longline fleet fishing in the WCPFC Convention Area grew dramatically from 219 to 429 vessels between 2009 and 2015³⁶⁶ and now consists of 499 vessels.³⁶⁷

The decline of the three Asian fleets does not necessarily indicate that the fishery is in economic trouble because teasing out the relative adverse effects of costs, declining fish stocks, and competition is complex and difficult. For example, total catches of tuna species in the WCPFC Convention Area have increased throughout the 1980s and peaked in 2014.³⁶⁸ The catch more than tripled between 1982 and 2016.³⁶⁹ The vast majority of the additional catch was captured by purse seine vessels³⁷⁰ for skipjack tuna.³⁷¹ Still, the longline catch has "steadily increased" since the 1950s except for a dip in the 1980s.³⁷² Nonetheless, catches by Japan's distant water and offshore longline fleets have declined from 20,725 metric tons in 2004 to 5,746 metric tons in 2016;³⁷³ catches by Chinese Taipei vessels have declined from 16,888 metric tons in 2004 to 4,751 metric tons in 2016; Korean catches have also declined.³⁷⁴

These catch declines correspond to a decline in vessels fishing in the Convention Area, but they also correspond to increased competition from vessels flagged by Pacific Island States. Fiji, French Polynesia, Vanuatu, and others have developed longline fleets³⁷⁵ that did not exist in the 1980s or even

³⁵⁹ *Vessels in the RFV by Vessel Type*, W. & CENT. PAC. FISHERIES COMMISSION, <https://perma.cc/F2X7-W55G> (last visited Feb. 16, 2019).

³⁶⁰ CAMPLING ET AL., *supra* note 132, at 124.

³⁶¹ *Id.* at 125.

³⁶² *Id.* at 139.

³⁶³ *See Vessels in the RFV by Vessel Type*, *supra* note 359.

³⁶⁴ CAMPLING ET AL., *supra* note 132, at 154.

³⁶⁵ *See Vessels in the RFV by Vessel Type*, *supra* note 359.

³⁶⁶ CAMPLING ET AL., *supra* note 132, at 167.

³⁶⁷ *See Vessels in the RFV by Vessel Type*, *supra* note 359.

³⁶⁸ *2016 Overview of Tuna Fisheries in the Western and Central Pacific Ocean*, *supra* note 78, at 2.

³⁶⁹ *See id.* at 2 fig.2.

³⁷⁰ *Id.*

³⁷¹ *Id.* at 2 fig.3.

³⁷² *Id.* at 25 & fig.34.

³⁷³ *Id.* at 25.

³⁷⁴ *Id.*

³⁷⁵ *See Vessels in the RFV by Vessel Type*, *supra* note 359.

a decade ago.³⁷⁶ Because Vanuatu's fleet is primarily owned by nationals and companies of China and Chinese Taipei,³⁷⁷ one might reasonably attribute the Vanuatuan catch to China and Chinese Taipei, thereby shrinking the catch and vessel declines experienced by Chinese Taipei.

With regard to labor costs, vessel owners are clearly turning to lower-cost sources of labor to manage operational costs. The influence of labor costs on total operational costs can be seen in the change in the nationality of crews. Although the vast majority of longline vessels are flagged by Japan, Korea, and Chinese Taipei, the nationality of the crews on these vessels is primarily Indonesian, Filipino, and Vietnamese,³⁷⁸ and a growing number of Chinese vessels are crewed by Indonesians and Filipinos.³⁷⁹ Korean vessel owners increasingly turn to Nepalis for crew.³⁸⁰ Whether this indicates rising labor costs or simply an urge to increase profitability is not known. For example, Chinese vessels apparently pay crew the equivalent of \$400 per month (U.S.), less than the \$450 per month (U.S.) paid to women working in factories and living in dorms.³⁸¹ Given the isolation and danger of working on a longline vessel, any claim that these wages constitute sufficient pay is questionable.³⁸²

The reduction in the three Asian fleets may simply be a market correction to over-capitalization and excessive fleet capacity. In fact, a June 2018 study concluded that the fleets of China and Chinese Taipei are unprofitable and that "massive overcapacity" may be the reason.³⁸³ Japan's fleet, in contrast, is profitable; that profitability may be associated with its vessel-scraping programs, which reduced capacity.³⁸⁴ Japan bought back and scrapped 132 distant water longline vessels in 1998–1999 and another sixty-four in 2009.³⁸⁵ Chinese Taipei has also bought back tuna longline vessels,³⁸⁶ but its longline fleet still remains by far the largest in the WCPFC Convention Area with 1,028 registered vessels.³⁸⁷ China has the next largest fleet at 499 vessels.³⁸⁸

³⁷⁶ See 2016 Overview of Tuna Fisheries in the Western and Central Pacific Ocean, *supra* note 78, at 25 ("A significant change in the [WCPFC] longline fishery over the past 10 years has been the growth of the Pacific Islands domestic albacore fishery, which has risen from taking 33% of the total south Pacific albacore longline catch in 1998 to accounting for around 50–60% of the catch in recent years."); see also *id.* at 24 fig.33 (showing an increase in the number of Pacific island vessels from 1992 to 2016).

³⁷⁷ See *supra* note 122 and accompanying text (reporting that twenty-two of twenty-five of the vessels flagged by Vanuatu and registered to fish in the WCPFC Convention Area are owned by nationals or companies of China and Chinese Taipei).

³⁷⁸ CAMPLING ET AL., *supra* note 132, at 147.

³⁷⁹ See *id.* at 175–76.

³⁸⁰ Interview with Mike A. McCoy, *supra* note 303.

³⁸¹ CAMPLING ET AL., *supra* note 132, at 175–76.

³⁸² *Accord id.* at 176 (stating that claims of sufficient pay to crew "might be questioned").

³⁸³ Sala et al., *supra* note 357, at 5, 7.

³⁸⁴ *Id.*

³⁸⁵ CAMPLING ET AL., *supra* note 132, at 130–31.

³⁸⁶ Theodore Groves & Dale Squires, *Lessons from Fisheries Buybacks*, in FISHERIES BUYBACKS 15, 39 (Rita Curtis & Dale Squires eds., 2007), <https://perma.cc/6XXU-XDPQ>.

³⁸⁷ See *Vessels in the RFV by Vessel Type*, *supra* note 359

³⁸⁸ See *id.*

Consistent with the Executive Director's suggestion in 2013 that vessels transshipping on the high seas may be more likely to engage in underreporting of catch,³⁸⁹ the authors of a June 2018 study surmise that underreporting catch is "the most obvious reason" that vessels remain profitable.³⁹⁰ They "conjecture," however, that high seas fishing

could become rational for the most unprofitable fisheries due to a combination of factors including the following: (i) currently available catch data continue to underrepresent real catches, (ii) vessels fish only part of the time in the high seas and make most of the economic benefit from fishing in EEZs, (iii) government subsidies not accounted for in this analysis, (iv) reduced costs because of unfair wages or forced labor, and (v) reduced costs because of transshipment at sea.³⁹¹

Even with reductions in fleet size, it is possible that fleet numbers remain excessive. In fact, the WCPFC has expressed concern over the size of the fleet.³⁹² In the purse seine fishery, for example, vessels have become more efficient at catching "due to improved technical developments (e.g. faster vessels, new net technology, smart FADs, etc.)."³⁹³ This has resulted in increased effort, which "implies notable reductions" in effort are needed to reduce impacts to the fishery.³⁹⁴

Longline vessels have also become more technologically advanced and more efficient over time. The technological improvements to longline vessels considered to be "especially significant" include

1. improved monofilament longline reels (more power, higher capacity, less wear, lighter);

³⁸⁹ 2013 *Guidelines for Determining Impracticability*, *supra* note 24 (stating "where operators are operating on small margins and concerned about profit and survivability the likelihood of accurate and honest reporting is small and they are likely to undertake IUU activity than profitable operators").

³⁹⁰ Sala et al., *supra* note 357, at 7. The authors state:

How is it possible that some countries continue to fish in certain high-seas regions while exhibiting an apparent economic loss? For this behavior to be incentive-compatible, there must be a net benefit for individual companies to continue operating in the high seas. The most obvious reason is underreporting the catch, which would result in an underestimate of fishing revenue and profits.

Id.

³⁹¹ *Id.* The study reports that "[w]ithout bunkers and reefers, fishing in the high seas would be far less profitable, especially for China, which showed the largest number of encounters with reefers for transshipment." *Id.* at 8. This statement, however, is not specific to fishing in the WCPFC Convention Area. *See id.*

³⁹² See Alex Tidd & Graham Pilling, W. and Cent. Pac. Fisheries Comm'n, *Preliminary Capacity Utilization Analysis of the WCPO Purse Seine Fleet Using Data Envelopment Analysis (DEA)*, at 1, WCPFC-SC12-2016/MI-IP-03 (2016), <https://perma.cc/PT3U-5N9C>.

³⁹³ Graham Pilling & Shelton Harley, W. and Cent. Pac. Fisheries Comm'n, *Estimating Potential Tropical Purse Seine Fleet Sizes Given Existing Effort Limits and Candidate Target Stock Levels*, at 7, WCPFC-SC11-2015/ MI-WP-10 (August 5–13, 2015), <https://perma.cc/FA8Q-AR4L>.

³⁹⁴ *Id.*

2. electric fishing lights to replace chemical light sticks;
3. use of temperature/depth recorders during sets;
4. electronic chart plotting software integrated with bridge electronics;
5. use of remote sensing data . . . ;
7. development of onboard processing of tuna to loins; combination of freezing and chilling capability on the same vessel; diversification of markets.³⁹⁵

These and other developments in longline fishing gear and practices have likely increased catch:

[b]ait, hooks, lightsticks, and leaders directly interact with the species; they change catchability by affecting the probability of an animal attacking bait, being hooked or landed. Other changes may increase catchability by increasing the availability of baited hooks (e.g., deeper longlines), improving searching efficiency (e.g., satellite imagery), or increasing the time spent on fishing grounds (e.g., freezers), thereby providing fishers with more time to adapt to local conditions and to “follow the fish”. In addition to increasing catch rates, improved fishing gear and practices reduce operating costs. Labor-saving devices, such as line-haulers, reduce costs, but do not directly affect catchability. Our review does not cover the effects of changes in fishing gear and practices on the size (“selectivity”) or quality of target species.³⁹⁶

Even when fuel costs are considered to be significant,³⁹⁷ a combination of price for tuna and costs of operating a vessel may also influence the decline in vessel numbers of Chinese Taipei, Japan, and Korea. Economic conditions for the tropical longline fishery declined “continuous[ly] and rapid[ly]” between 1998 and 2008 “as costs increased and prices and catch rates declined.”³⁹⁸ Economic conditions improved in 2009 and 2016 as fuel costs fell and catch rates improved.³⁹⁹ With more than one factor influencing overall costs, it is difficult to point only to fuel costs as making transshipment in port impracticable. Moreover, as the long-distance journeys of the profitable U.S. and Japanese fleets indicate, however, fuel prices alone cannot lead one to a finding of impracticability.

³⁹⁵ David G. Itano, *An Examination of Vessel, Gear and Operational Details Useful for Fishery-Specific Effort Standardization, Including FAD-Related Gear and Fishing Strategies*, at 4, WCPFC-SC2-2006/FT WP-6 (2006), <https://perma.cc/82N9-VD6A>.

³⁹⁶ Ward & Hindmarsh, *supra* note 354, at 18.

³⁹⁷ Fuel costs are considered “the single most important operational cost across all fleets, subject to the largest fluctuations across all cost categories and, hence, a major determinant in the change of costs over time.” TERAWASI & REID, *supra* note 120, at 9.

³⁹⁸ *2016 Overview of Tuna Fisheries in the Western and Central Pacific Ocean*, *supra* note 78, at 33. For a comprehensive review of economic conditions in the tuna fisheries of the WCPFC Convention Area, see generally TERAWASI & REID, *supra* note 120.

³⁹⁹ See *2016 Overview of Tuna Fisheries in the Western and Central Pacific Ocean*, *supra* note 78, at 34 figs.48 & 49.

E. The “Fresh Fish” and “ULT Fish” Exemptions

The Secretariat and some CCMs have suggested that there may be a need to tranship fresh fish and ULT frozen fish on the high seas.⁴⁰⁰ These two exemptions, they argue, may be justifiable for some vessels in light of the dynamics of the fishery, the unavailability of ULT freezer capacity at some ports, and the need to get fresh fish to market as soon as possible.

Whether these exemptions are necessary in all circumstances, however, bears some scrutiny. An exemption for fresh fish, for example, may not always be necessary. Suppliers indicate that fish stays fresh if properly iced for up to thirty days.⁴⁰¹ The U.S. and Japanese fleets act accordingly. The U.S. longline fleet catches substantial amounts of fish within the WCPFC Convention Area in the North Pacific Ocean⁴⁰² and yet lands all of the catch in port.⁴⁰³ Japan also catches much of its fish for the fresh market. In 2015, 66,200 metric tons of fresh tuna were sold in Japan⁴⁰⁴ During that year, Japan reported thirty-one high seas transshipments⁴⁰⁵ totaling 1,744 metric tons of bigeye, yellowfin, and other species caught in the WCPFC Convention Area.⁴⁰⁶ The small volume of Japanese transshipments indicates that, although the total amount of fresh fish sold in Japan includes imports from other CCMs, Japanese fishing vessels are catching a large volume of fish hundreds of miles from Japan but nonetheless landing it there.⁴⁰⁷

The exemption for vessels carrying ULT frozen fish also requires some scrutiny. It is well accepted that ULT frozen tuna is a growing segment of the market and commands a price premium.⁴⁰⁸ The idea that longliners with ULT frozen tuna require the ability to tranship on the high seas to carrier vessels with ULT freezer capacity has become so well accepted that the Secretariat’s most recent proposal to revise transshipment rules included an exemption for such high seas transshipments.⁴⁰⁹

Still, the identification of those ports lacking ULT container capacity has not been documented. In addition, and perhaps more relevant, it may be economically feasible for carrier vessels to move operations from the high seas to port, just as they have done for purse seine transshipments. If carrier

⁴⁰⁰ 2016 *Guidelines for High Seas Transshipment*, *supra* note 24, at 7; 2013 *Guidelines for Determining Impracticability*, *supra* note 24, at 6 (noting Fiji’s need to get sashimi grade fish to market “in the best possible condition”).

⁴⁰¹ Email with Eric Kingma, International Fisheries/Enforcement/NEPA Coordinator, Western Pacific Regional Fishery Mgt. Council (Aug. 7, 2018) (on file with author).

⁴⁰² United States, *Annual Report to the Commission: Part 1: Information on Fisheries, Research, and Statistics*, WCPFC-SC14-AR/CCM-27 (Rev. 1), at 22 (Aug. 11, 2018).

⁴⁰³ *See supra* Part III.C.

⁴⁰⁴ CAMPLING ET AL., *supra* note 132, at 80. In contrast, 232,000 metric tons of frozen tuna were sold in Japan that year. *Id.* at 70.

⁴⁰⁵ W. and Cent. Pac. Fisheries Comm’n Secretariat, *Annual Report on WCPFC Transshipment Reporting, with an Emphasis on High Seas Activities*, WCPFC-TCC12-2016-RP03_rev1, at Annex 2A (Sept. 7, 2016), <https://perma.cc/AJP9-R7YV>.

⁴⁰⁶ *Id.* at Annex 2B.

⁴⁰⁷ *See supra* Part III.C.

⁴⁰⁸ CAMPLING ET AL., *supra* note 132, at 142, 171.

⁴⁰⁹ 2016 *Guidelines for High Seas Transshipment*, *supra* note 24, at 7.

vessels move to port, then the ports themselves may not need ULT freezer capacity.

Moreover, an examination of fleet dynamics and longliners operating in the WCPFC Convention Area suggests that such an exemption is not necessary. For example, in 2015, all Korean longline vessels registered to fish in the WCPFC Convention Area had ULT freezer capacity⁴¹⁰ and fish hold capacity of 239 to 574 metric tons.⁴¹¹ Korean vessels transhipped on the high seas a total of 8,851.9 metric tons⁴¹² of tuna in 90 separate transhipment events in 2017, for a total of 98.35 metric tons per transhipment, an amount far less than half of vessel's hold capacity. Moreover, Korean longliners tranship on the high seas fewer than 1.5 times per year. See Table 1. At these catch rates, Korean longliners could stay at sea for more than two years without filling their holds. Because Korean longliners fish in the WCPFC Convention Area for 18 to 24 months before returning to Busan, the home port for all Korean longline vessels,⁴¹³ retaining catch until the vessels return and prohibiting these vessels from transhipping on the high seas should not cause significant economic hardship or cause substantial changes to historical modes of operation. Importantly, Busan, which handles about 90% of landed sashimi-grade frozen tuna,⁴¹⁴ has sufficient ULT freezer capacity.⁴¹⁵

Similarly, the Japanese distant water longline vessels typically, if not always, have ULT freezer capacity with hold capacities of 300 to 400 metric tons.⁴¹⁶ Not only do these vessels usually return to Japanese ports with their catch,⁴¹⁷ but they also catch about 250 to 300 metric tons of fish per year, an amount smaller than their hold capacity.⁴¹⁸ In other words, these vessels could fish for a year without filling their freezers. Asking these vessels to tranship in port once or twice each year can hardly constitute a "significant economic hardship" or a "significant and substantial change[]" to their historical mode of operation.

It is more difficult to evaluate the other fleets that tranship on the high seas. Chinese longline vessels, for example, catch "ice fresh tuna" as well as "deep frozen tuna."⁴¹⁹ It is not clear whether deep frozen includes ULT and if it does how many vessels have ULT capacity. Many of the vessels clearly

⁴¹⁰ CAMPLING ET AL., *supra* note 132, at 153.

⁴¹¹ *Id.* at 154.

⁴¹² Republic of Korea, Annual Report to the Commission: Part I: Information on Fisheries, Research, and Statistics, WCPFC-SC14-AR/CCM-12, at tbl. 6A (2018), <https://perma.cc/R9NM-BZYB>.

⁴¹³ CAMPLING ET AL., *supra* note 132, at 156.

⁴¹⁴ *Id.* at 161 (only about 10% of the total catch is landed directly in Japanese ports as opposed to Korea).

⁴¹⁵ *Id.* at 160–61 (describing the ULT freezer capacities of several Busan-based companies).

⁴¹⁶ *Id.* at 125. Japan's longline fleet is segmented into different sizes and types. Japan, Annual Report to the Commission: Part I: Information on Fisheries, Research, and Statistics, WCPFC-SC14-AR/CCM-10 Rev. 1, at §§ 3, 4.1 (2018), <https://perma.cc/T5HH-RASU>. Some vessels have ULT freezer capacity and others not. CAMPLING ET AL., *supra* note 132, at 57.

⁴¹⁷ CAMPLING ET AL., *supra* note 132, at 128.

⁴¹⁸ *Id.* at 125.

⁴¹⁹ China, Annual Report to the Commission: Part I: Information on Fisheries, Research, and Statistics, WCPFC-SC14-AR/CCM-03 Rev. 1, at § 2.1 (2018), <https://perma.cc/NSD6-3KWF>.

have ULT freezer capacity,⁴²⁰ but neither the exact number nor the hold capacity of those vessels is known.

A growing number of vessels from Chinese Taipei also appear to have ULT capacity. Among those vessels between 20 and 99 gross tons, 100 to 150 vessels had ULT capacity in 2015,⁴²¹ and the majority (84 of 110) of the large-scale longline vessels may have ULT capacity.⁴²² These vessels have an average hold capacity of 540 cubic meters.⁴²³ In 2017, 82 of these vessels caught 19,550 metric tons of tuna and tuna-like species in the WCPFC Convention Area,⁴²⁴ for an average of 238.41 metric tons per year. As with Korean and Japanese vessels, most of these vessels could stay on the fishing grounds for a full year without filling their holds.

VII. RETHINKING THE IMPRACTICABILITY STANDARD: A PROPOSAL

A. Problems with the Impracticability Test

CMM 2009–06 attempted to prohibit transshipment on the high seas except in a very narrow set of circumstances by setting a “high threshold” for “impracticability.”⁴²⁵ The lack of clarity of the two-part impracticability test—“significant economic hardship” and “significant and substantial changes” to a vessel’s historical mode of operation—do not explain the unwillingness of some CCMs to tranship in port. In fact, some CCMs have treated transshipment in port as the exception and not the rule.⁴²⁶ CCMs have failed to report on procedures to monitor high seas transshipment and have failed to provide plans detailing how they are encouraging a reduction in transshipment on the high seas.⁴²⁷

Even if transshipment at sea remains a common global practice, that does not mean that it is an appropriate practice. Indeed, research indicates that numerous illegal activities, including IUU fishing and human rights abuses, are associated with high seas transshipment⁴²⁸ and that some fleets in the WCPFC may be profitable only because of their IUU fishing associated with high seas transshipment.⁴²⁹ These activities strongly indicate that transshipment at sea must be prevented or sharply reduced and heavily monitored.

⁴²⁰ CAMPLING ET AL., *supra* note 132, at 185 (noting that one company has 36 ULT tuna longliners).

⁴²¹ *Id.* at 138.

⁴²² *Id.* at 142 (stating that these vessels “have blast freezers . . . , which allow them to access the premium sashimi markets for ULT products.”).

⁴²³ *Id.* at 142.

⁴²⁴ Chinese Taipei, *Annual Report to the Commission: Part I: Information on Fisheries, Research, and Statistics*, WCPFC-SC14-AR/CCM-23, at 10, tbls. 1 & 2 (2018), <https://perma.cc/PUF8-FEWP>.

⁴²⁵ *2016 Guidelines for High Seas Transshipment*, *supra* note 24, at ¶¶ 9, 23.

⁴²⁶ WCPFC13 SUMMARY REPORT, *supra* note 257, at ¶ 167 (statement of the European Union).

⁴²⁷ *2013 Guidelines for Determining Impracticability*, *supra* note 24.

⁴²⁸ See Sala et al., *supra* note 357, at 7–8.

⁴²⁹ *Id.* at 7.

Moreover, as described in the preceding sections, the evidence indicates that transshipment in port is not impracticable:

- 1) A review of port infrastructure appears to support the 2013 conclusion of the Executive Director that CCMs in the region “have well establish[ed] port and transport infrastructure.”⁴³⁰ Some may lack ULT freezer capacity, but that lack could potentially be filled by carrier vessels with ULT freezer capacity.⁴³¹
- 2) A significant portion of the purse seine catch is taken from the high seas yet those vessels tranship in port.
- 3) At least three longline fleets—those of the European Union, Japan, and the United States—fish on the high seas hundreds of nautical miles from port yet tranship all (European Union and United States) or most (Japan) of their high seas catch in port.⁴³² A large number of high seas transshipments occur just outside the EEZs of CCMs,⁴³³ suggesting that these vessels are able to tranship in port.
- 4) Only five CCMs have transhipped on the high seas in the last two years, with just three CCMs—China, Chinese Taipei, and Vanuatu—accounting for 84% and 89% of those transshipments in 2015 and 2016, respectively.⁴³⁴
- 5) Costs associated with transshipment in port are insignificant in relation to the costs of operating a tuna vessel.⁴³⁵
- 6) Fuel and labor costs do not fully explain an inability to tranship in port as overcapacity may play a more significant role, as evidenced by the profitability of the Japanese fleet.⁴³⁶
- 7) Given the variables affecting profitability—operational costs, subsidies, and over-capitalization—assessing whether transshipment in port causes “significant economic hardship” on a vessel-by-vessel basis is challenging.
- 8) Transshipment on the high seas of fresh fish and ULT frozen fish does not appear necessary to preserve the quality of the product.⁴³⁷

In addition, CCMs have abused their discretion under paragraph 34 of CMM 2009-06 to determine when transshipment in port is impracticable. As noted above, no CCM has made impracticability findings on a vessel-by-vessel basis, no CCM has advised the WCPFC of its monitoring and

⁴³⁰ 2013 *Guidelines for Determining Impracticability*, *supra* note 24.

⁴³¹ *See supra* Part VI.C.

⁴³² *See supra* Part III.C.

⁴³³ 2017 *Annual Report on WCPFC Transshipment Reporting*, *supra* note 26, at 10 fig.3, 11 fig.4, 12 fig.5.

⁴³⁴ *Id.* at 6 tbl.2.

⁴³⁵ *See supra* Part VI.C.

⁴³⁶ *See Sala et al.*, *supra* note 357, at 5, 7.

⁴³⁷ *See supra* Part VI.E.

verification procedures for high seas transshipments, and no CCM has submitted to the WCPFC a plan detailing the steps it is taking to encourage transshipment in port.⁴³⁸

These failures to submit required information could be considered an abuse of right under international law. In the Shrimp-Turtle case,⁴³⁹ the Appellate Body of the World Trade Organization relied on abuse of rights in its analysis of whether U.S. rules fell within the Article XX(g) exception to the core obligations of the General Agreement on Tariffs and Trade (GATT).⁴⁴⁰ The Appellate Body stated:

[t]he chapeau of Article XX [concerning exceptions to the GATT's rules] is, in fact, but one expression of the principle of good faith. This principle, at once a general principle of law and a general principle of international law, controls the exercise of rights by states. One application of this general principle, the application widely known as the doctrine of *abus de droit*, prohibits the abusive exercise of a state's rights and enjoins that whenever the assertion of a right "impinges on the field covered by [a] treaty obligation, it must be exercised bona fide, that is to say, reasonably." An abusive exercise by a Member of its own treaty right thus results in a breach of the treaty rights of the other Members and, as well, a violation of the treaty obligation of the Member so acting.⁴⁴¹

Moreover, the two elements of the impracticability test are inherently problematic. The "substantial economic hardship" finding in a fisheries context is a difficult one to make. Fuel costs are not constant and could change even during a fishing season.⁴⁴² Tuna change location based on El Niño cycles and other conditions, which affects fuel and transport costs.⁴⁴³ Thus, it might be difficult to predict whether transshipment in port during any particular season—prior to the season starting—is likely to cause substantial economic hardship.

In addition, as long as the finding is unilateral, other CCMs will likely be unable to verify a determination of "substantial economic hardship." Economic data concerning fisheries is frequently closely guarded. When the FFA suggested in 2017 that CCMs submit economic data to allow for a better evaluation of the economic health of the fishery, Japan responded that "economic data were often considered as sensitive information."⁴⁴⁴ China

⁴³⁸ See *supra* notes 21–23 and accompanying text.

⁴³⁹ Appellate Body Report, *United States - Import Prohibition of Certain Shrimp and Shrimp Products*, WTO Doc. WT/DS58/AB/R (adopted Oct. 12, 1998) [hereinafter Shrimp-Turtle case].

⁴⁴⁰ *Id.* at ¶¶ 35–36.

⁴⁴¹ *Id.* at ¶ 158 (alteration in original) (citing another source).

⁴⁴² See, e.g., United States, *Annual Report to the Commission: Part 1: Information on Fisheries, Research, and Statistics*, WCPFC-SC14-AR/CCM-27 (Rev. 1), at 23 (Aug. 11, 2018) (stating that the "price of fuel is increasing in 2018 which may hinder the economic performance of both sectors of the longline fishery").

⁴⁴³ See Linda M.B. Paul, *The Magnuson Act Amendments and their Impact on Western Pacific Fisheries*, 9 TULANE ENVTL. L.J. 329, 337 (1996).

⁴⁴⁴ W. AND CENT. PAC. FISHERIES COMM'N, THIRTEENTH REGULAR SESSION OF THE SCIENTIFIC COMMITTEE: SUMMARY REPORT ¶ 145 (2017) [hereinafter SC13 SUMMARY REPORT].

noted that seeking such information was “premature,”⁴⁴⁵ while Chinese Taipei responded that any “proposed guidelines would be voluntary.”⁴⁴⁶

The second component of the impracticability test—whether transshipment in port might cause “significant and substantial changes to [a vessel’s] historical mode of operation”—also poses serious challenges to meaningful implementation. First, one could argue, for example, that a requirement for a vessel to tranship in port when it has not done so in the past constitutes, in and of itself, a significant and substantial change to a vessel’s mode of operation. Second, CCMS have failed to identify the distinction between “significant” and “substantial” or determine that it is a single standard. In the United States, for example, courts may overturn agency actions if they are considered to be “arbitrary or capricious.”⁴⁴⁷ U.S. courts, including the Supreme Court, have treated this as a single standard, not two.⁴⁴⁸ If “significant and substantial” impose two thresholds, they are not easily distinguished. *The Oxford English Dictionary* defines “significant,” when used as an adjective, as “[s]ufficiently great or important to be worthy of attention; noteworthy; consequential, influential.”⁴⁴⁹ “Substantial,” meanwhile, means “[f]irmly or solidly established; of solid worth or value; of real significance, weighty; reliable; important, worthwhile.”⁴⁵⁰ There is clear overlap in these definitions, including that the item be “important.”

B. A New Test: A Presumption Against High Seas Transshipment

Against this background, where does one find a compromise? The FFA has urged the adoption of a high seas transshipment ban, and RMI proposed the impracticability test only as a compromise to the ban.⁴⁵¹ FFA members will likely oppose the continuation of the status quo. In addition, they will likely oppose the adoption of the rules of other tuna RFMOs, which allow transshipment at sea if various conditions are met. At the same time, the Asian CCMS have stated their belief that transshipment is a common practice that should be allowed in the WCPFC Convention Area.⁴⁵² Despite these opposing views, in September 2018 the WCPFC’s Technical and Compliance

⁴⁴⁵ *Id.* at ¶ 146.

⁴⁴⁶ *Id.* at ¶ 148.

⁴⁴⁷ Pursuant to the Administrative Procedure Act, courts may set aside agency decisions that are “arbitrary, capricious, an abuse of discretion or not in accordance with law.” 5 U.S.C. § 706(2)(A) (2000).

⁴⁴⁸ *See, e.g.,* Motor Vehicle Mfr. Ass’n of U.S., Inc. v. State Farm Mut. Auto. Ins. Co., 463 U.S. 29, 42–43 (1983) (consistently referring to the “arbitrary and capricious test”).

⁴⁴⁹ *Significant*, OXFORD ENGLISH DICTIONARY (3rd ed. 2011).

⁴⁵⁰ *Substantial*, OXFORD ENGLISH DICTIONARY (3rd ed. 2012).

⁴⁵¹ WCPFC6 SUMMARY REPORT, *supra* note 243, at ¶ 305 (“Some CCMS noted their general opposition to allowing transshipment on the high seas but stated their willingness to support the measure as a first step.”).

⁴⁵² TCC12 SUMMARY REPORT, *supra* note 178, at ¶ 246 (“Chinese Taipei, China and Japan shared the view that high seas transshipment was a common global practice and takes place in all tuna RFMOs.”).

Committee agreed that a “review of the existing transshipment measure (CMM 2009–06) should be a priority item in 2019.”⁴⁵³

With that in mind, and for all of the reasons mentioned in Part A, this Article proposes a presumption against transshipment on high seas. Yet, it also recognizes some of the possible challenges posed by this fishery. Thus, it carves out express time-limited exemptions to the ban while also ensuring that the exemptions are not abused. This Article thus proposes the replacement of paragraphs 34 to 38 of CMM 2009–06⁴⁵⁴ with the following paragraphs.

Permissible Exemptions. This Article proposes, at least in the short term, the same exemptions for fresh fish and ULT frozen fish proposed by the Secretariat at TCC12⁴⁵⁵ but with some caveats. As noted, however, these two exemptions probably are not justifiable for most of the fleet.⁴⁵⁶

Clearly high seas transshipment of fresh fish is not always necessary. As a consequence, any allowance for an exemption for fresh fish should be accompanied by a separate provision that directs the Secretariat to determine whether or under what circumstances transshipment on the high seas of fresh fish is necessary. To ensure that CCMs fund the study, the exemption for fresh fish should include a sunset provision. The exemption could be renewed provided that it is renewed consistent with the findings of the study.

Similarly, the exemption for ULT frozen fish is not always necessary. Consequently, before providing for such an exemption, CCMs should direct the Secretariat to prepare a report to 1) determine which ports lack freezer capacity, which might be necessary until carrier vessels can get to port, and 2) determine whether it is economically feasible to move carrier vessels that tranship fish from longline vessels from the high seas to port.

The third exemption proposed by the Secretariat for vessels fishing in the overlap area simply honors the WCPFC’s decision to allow those vessels registered in both the IATTC Convention Area and the WCPFC Convention Area to follow either the rules of the IATTC or the WCPFC, depending on the rules chosen by the flag State.⁴⁵⁷ However, due to the information and procedural requirements proposed below, the exemptions proposed here are not as open-ended as proposed by the Secretariat at TCC12.⁴⁵⁸

The new paragraphs to implement these exemptions could be written as follows:

- 34) Transshipment on the high seas by non-purse seine vessels is permissible only in the following situations:

⁴⁵³ W. and Cent. Pac. Fisheries Comm’n, *Outcomes Document-Agreed*, at ¶ 36, TCC14-2018-outcomes (Oct. 2, 2018), <https://perma.cc/HBF4-M9F3>.

⁴⁵⁴ CMM 2009–06, *supra* note 22, at ¶¶ 34–38.

⁴⁵⁵ *2016 Guidelines for High Seas Transshipment*, *supra* note 24, at 7.

⁴⁵⁶ *See supra* Section VI.E.

⁴⁵⁷ W. AND CENT. PAC. FISHERIES COMM’N, NINTH REGULATION SESSION SUMMARY REPORT ¶ 80 (Dec. 2–6, 2012), <https://perma.cc/LT7X-Y3HK>.

⁴⁵⁸ *2016 Guidelines for High Seas Transshipment*, *supra* note 24, at 7.

- a. Non-purse seine vessels using flake ice or refrigerated sea water and which tranship fresh fish to receiving vessels until [insert specific date], where “fresh fish” means tuna or other highly migratory species that are alive, whole or dressed/gutted, but not further processed or frozen;
 - i. This exemption may be extended beyond [the date mentioned in sub-paragraph (a)] only if the Secretariat concludes, based on a report it prepares or commissions, that transshipment on the high seas of fresh fish is necessary;
 - ii. If the report required by sub-paragraph (a)(i) concludes that transshipment on the high seas of fresh fish is necessary but only under specific conditions, the exemption can be extended beyond [the date mentioned in sub-paragraph (a)], provided that it is amended consistently with the conclusions of the report.
- b. Ultra-low temperature (ULT) freezer longline vessels which tranship tuna to ULT freezer carriers in order to supply the high-grade frozen sashimi market until [insert specific date];
 - i. This exemption may be extended beyond [the date mentioned in sub-paragraph (b)] only if the Secretariat concludes, based on a report it prepares or commissions, that ports in specific regions of the Convention Area fished have insufficient ULT freezer capacity and it is not economically feasible for carrier vessels to move operations from the high seas to port or, in the alternative, to waters under national jurisdiction.
 - ii. If the report required by sub-paragraph (b)(i) concludes that transshipment on the high seas of ULT fish is necessary but only under specific conditions or in certain areas, the exemption can be extended beyond [the date mentioned in sub-paragraph (b)], provided that it is amended consistently with the conclusions of the report.
- c. Non-purse seine vessels which fish in WCPFC/IATTC overlap area, provided that the CCM flag State has notified the WCPFC and IATTC that it will apply IATTC resolutions in accordance with the WCPFC9 Decision on the WCPFC-IATTC Overlap Area.

Information Requirements. Currently, CMM 2009–06 imposes far different information and procedural requirements for obtaining an exemption for purse seine vessels and non-purse seine vessels. With respect to purse seine vessels, for example, CCMs must describe where transshipments are likely to occur and provide an explanation for the exemption.⁴⁵⁹ This Article proposes the adoption of information requirements for non-purse seine vessels that are similar to those that apply to purse seine vessels, while also retaining the requirement to submit a plan that encourages vessels to tranship in port. Thus, a CCM seeking an exemption to allow transshipments of ULT frozen fish would need to demonstrate that relevant ports do not have adequate ULT freezer capacity and that it is not economically feasible for carrier vessels to locate in relevant ports.

In addition, by harmonizing procedural requirements for obtaining an exemption, this proposal eliminates the unilateral discretion to authorize exemptions that has been wholly ineffective at minimizing transshipment on the high seas in the WCPFC Convention Area. The new paragraphs could be written as follows:

- 35) CCMs seeking to apply an exemption for a vessel(s) that meets one of the conditions set out in paragraph 34 shall submit a written request to the Executive Director by 1 July of a given year that includes, at a minimum, the following information:
 - a. the information required by paragraph 26 of this CMM;
 - b. the CCM's procedures for monitoring and verification of the transshipments;
 - c. a list of vessels for which the CCM seeks an exemption;
 - d. a plan detailing the steps it is taking to encourage transshipment in port by the vessels included in the list provided pursuant to paragraph (b).
- 36) Paragraphs 27 to 31 of this CCM [concerning review of the requests by the TCC] shall apply *mutatis mutandis* to requests to tranship on the high seas by non-purse seine vessels.

Time Limits for Exemptions. To make the information requirements effective—in particular, the plan detailing efforts to encourage transshipment in port—exemptions should be limited to a specified period of time, for example, three years. If a CCM is not implementing its plan to encourage transshipment in port, then presumably the WCPFC will not grant a renewal of an exemption for a vessel flagged by that CCM. That should create a strong incentive to develop and implement such plans. The new paragraph could be written as follows:

- 37) The Commission shall not grant an exemption of more than three years.

⁴⁵⁹ CMM 2009–06, *supra* note 22, at ¶ 26.

- 38) A CCM may seek renewal of an exemption for a vessel(s) provided that it submits the information required by paragraph 35 and the Commission follows the process required by paragraph 36.

Notification Requirements. The paragraphs on notification of transshipments are currently found in paragraph thirty-five of CMM 2009–06.⁴⁶⁰ However, this article proposes to shorten the timeframe for providing the Executive Director with the Transshipment Declaration, as indicated below. With modern communication systems on board tuna vessels, there is no reason that vessels cannot immediately transmit forms.⁴⁶¹ In fact, the CCSBT, IATTC, ICCAT, and IOTC already require transmission of the transshipment declaration within twenty-four hours of completing the transshipment by the master of the carrier vessel.⁴⁶² Moreover, near real-time submission of the transshipment declaration would provide additional time “for all relevant actors to cross reference and verify the information and therefore be confident that the produce has been sourced legally.”⁴⁶³ The new paragraph could be written as follows:

- 39) If the Commission authorizes transshipment on the high seas, the CCMs responsible for reporting against both the offloading and receiving vessels shall, as appropriate:
- a. notify the information in Annex III to the Executive Director at least 36 hours prior to each transshipment; and
 - b. provide the Executive Director with a WCPFC Transshipment Declaration within ~~15 days~~ 24 hours of completion of each transshipment.

Observer Deployment. This article also proposes the replacement of paragraph 13 of CMM 2009–06 to require deployment of an observer from the Regional Observer Programme on both the offloading vessel and the receiving vessel. CMM 2009–06 currently requires an observer on the receiving vessel or either the receiving or offloading vessels, depending on the situation.⁴⁶⁴ The placement of observers on both the offloading and receiving vessels appears necessary to overcome IUU fishing concerns and other issues associated with transshipment at sea. It also helps fulfill the WCPFC’s goal to put observers on at least 5% of the effort in the longline fishery.⁴⁶⁵ The Secretariat of the Pacific Community (SPC) estimates observer coverage on Chinese longliners at 2.2% to 2.6%, Vanuatu coverage

⁴⁶⁰ *Id.* at ¶ 35.

⁴⁶¹ See VAN DER GEEST, *supra* note 184, at 58, 67 (calling for real-time transmission of the transshipment declaration).

⁴⁶² CCSBT Transshipment Resolution, *supra* note 43, at ¶ 27; IATTC Resolution C-12-07, *supra* note 43, at ¶ 14; ICCAT Resolution 16–15, *supra* note 43, at ¶ 17; IOTC Resolution 17/06, *supra* note 43, at ¶ 15.

⁴⁶³ VAN DER GEEST, *supra* note 184, at 58, 67.

⁴⁶⁴ CMM 2009–06, *supra* note 22, at ¶ 13.

⁴⁶⁵ W. and Cent. Pac. Fisheries Comm’n Secretariat, *Conservation and Management Measure for the Regional Observer Programme*, CMM 2007–01, at Annex C, at ¶ 6 (2007), <https://perma.cc/3DFG-HKTN>.

at 2.0%, and Chinese Taipei at 1.9% to 3.9% for its small tuna longliners and a more favorable 8.2% for its large tuna longliners.⁴⁶⁶ Because observer coverage on carrier vessels is poorly known, the WCPFC agreed in 2017 to require CCMs to report observer coverage on carrier vessels conducting transshipments at sea.⁴⁶⁷

CCMs have complained about the cost of deploying an observer on both the offloading and receiving vessels.⁴⁶⁸ However, if all vessels are required to have observers or tranship in port, then no vessel has a competitive advantage. CCMs and vessel owners should therefore not worry that the additional costs imposed by having an observer on board will cause economic harm.

The Secretariat has noted a shortage of qualified observers.⁴⁶⁹ Yet, the Pacific Island Regional Observer Programme has supplied observers for each of the 504 purse seine vessels registered to fish in the WCPFC Convention Area.⁴⁷⁰ Training additional observers for the 352 vessels that actually transhipped on the high seas in 2016 and a number of carrier vessels may be challenging but it is not an insurmountable obstacle to a two-observer requirement. The number of new observers needed may be lower since some of the longliners or carrier vessels transhipping on the high seas may already deploy observers.

Electronic monitoring—the use of video cameras, sensors, and the Global Positioning System (GPS) aboard fishing vessels—shows promise for observing transshipments and trials on its use have begun in the WCPFC Convention Area.⁴⁷¹ Yet, CCMs are still developing standards not only for the collection of data from electronic monitoring systems⁴⁷² but also for training, assessment, and certification of analysts to interpret the data resulting from electronic monitoring.⁴⁷³

Electronic monitoring systems may be able to complement observers in the future,⁴⁷⁴ but difficult issues need to be resolved first. As the United States has commented,

⁴⁶⁶ Peter Williams et al., *Status of Observer Data Management*, WCPFC-SC13-2017/ST IP-02, at 16 tbl. 4 (2017), <https://perma.cc/9282-HV2Z>.

⁴⁶⁷ WCPFC14 SUMMARY REPORT, *supra* note 63, at ¶ 387.

⁴⁶⁸ TCC9 SUMMARY REPORT, *supra* note 111, at ¶ 261 (“Some CCMs considered the proposal that both receiving and offloading vessels involved in high seas transshipment carry observers to be excessive and unnecessary.”).

⁴⁶⁹ See W. and Cent. Pac. Fisheries Comm’n, *9th Annual Report for the Regional Observer Programme*, at ¶ 34, WCPFC-TCC13-2017-RP02 (Sept. 2, 2017), <https://perma.cc/G4Y4-9XN2>.

⁴⁷⁰ *Id.* (stating that the Pacific Island Regional Observer Programme supplied 100% observer coverage for purse seine vessels); *Vessels in the RFV by Vessel Type*, *supra* note 359 (reporting the number of purse seine vessels registered to fish in the WCPFC Convention Area).

⁴⁷¹ Malo Hosken et al., W. and Cent. Pac. Fisheries Comm’n, *Progress on ER and EM Implementation in the Region*, at 2–3 & tbl.1, 6 tbl.2, WCPFC-2018-ERandEMWG3-IP-01 (July 23, 2018), <https://perma.cc/FV4U-4S2M>.

⁴⁷² See *id.* at 8.

⁴⁷³ *Id.*

⁴⁷⁴ See W. AND CENT. PAC. FISHERIES COMM’N, THIRD E-REPORTING AND E-MONITORING WORKING GROUP MEETING: SUMMARY REPORT, at ¶ 40 (2018) (stating “Japan agreed with Nauru’s earlier statement that human observer cannot be replaced by E-monitoring”).

[s]uccessful use of electronic monitoring technologies must take into account complex hardware and software, varied boat sizes and designs, and the damage that can be done to electronics when exposed to saltwater and pounding waves. These are just some of the real-world practical challenges. We've also identified a number of policy and data-related challenges presented by adoption of new technologies. These include the handling of the enormous amount of data generated by electronic monitoring, effects on time series of data used in stock assessments, confidentiality, and cost allocation between government and non-government partners.⁴⁷⁵

Until these issues can be resolved, the WCPFC should adopt a two-observer requirement for high seas transshipment. The WCPFC could implement such an obligation as follows:

13) Each CCM shall ensure that vessels for which it is responsible carry an observer from the WCPFC Regional Observer Programme (ROP) to observe transshipments at sea.

13 *bis* A CCM shall not authorize transshipment on the high seas by a vessel it is responsible for to a receiving vessel that does not have an observer from the ROP to monitor the transshipment.

Observer Reports. Presently, CMM 2009–06 requires observers to “confirm to the extent possible that transshipped quantities of fish are consistent with other information available to the observer.”⁴⁷⁶ However, the WCPFC does not require Regional Observer Programmes to submit observer reports relating to transshipment at sea to the Secretariat,⁴⁷⁷ and the Secretariat reported that only one observer report relating to transshipment at sea was received in 2016.⁴⁷⁸ Nor are CCMs required to report whether an observer was onboard the vessel(s) conducting transshipments at sea. Consequently, there is no ability to verify the claims of CCMs. This article recommends that the WCPFC amend relevant documents to require such reporting.

Review. These rules are a departure from current rules. Thus, it is appropriate to review them to identify what the impact is on fishing operations and particular vessels. In addition, technological changes may allow for new methods, such as e-reporting and e-monitoring, to monitor transshipments at sea. The technology is improving for viewing a transshipment, although it is not clear whether it helps review logbooks and other documentation that observers are expected to review. The new paragraph that requires a review of the effectiveness and impacts of these provisions could be written as follows:

⁴⁷⁵ *Electronic Monitoring*, NOAA FISHERIES, <https://perma.cc/2K37-TGAH> (last updated May 31, 2018).

⁴⁷⁶ CMM 2009–06, *supra* note 22, at ¶ 14.

⁴⁷⁷ W. AND CENT. PAC. FISHERIES COMM'N, THIRTEENTH REGULAR SESSION OF THE TECHNICAL AND COMPLIANCE COMMITTEE: SUMMARY REPORT, at ¶ 203, WCPFC14-2017-TCC13 (Nov. 14, 2017), <https://perma.cc/GLP8-WC3X>.

⁴⁷⁸ *Id.*

- 40) The Commission, through the TCC, shall review these provisions every three years to assess their appropriateness. The review will consider
- a. whether additional controls should be implemented or controls relaxed;
 - b. the impacts, both positive and negative, on fishing operations and specific vessels; and
 - c. the appropriateness of e-monitoring as a cost-effective strategy for monitoring transshipment on the high seas.

VIII. CONCLUSION

Worldwide, transshipment at sea, particularly on the high seas, is a serious problem. It has been linked to IUU fishing, human trafficking, prostitution, and movement of drugs, guns, and wildlife.⁴⁷⁹ Thus, even though it is a common global practice, the international community has moved to restrict it and, in the case of the South East Atlantic Fisheries Organization, to prohibit it.

The WCPFC has sought to limit transshipment at sea, but its efforts, at least with respect to longline vessels, have not been effective. While transshipment at sea by purse seine vessels is expressly prohibited, the WCPFC authorizes CCMs to determine unilaterally that transshipment in port is “impracticable” for longline and other non-purse seine vessels.⁴⁸⁰ The WCPFC established a “high threshold” for making “impracticability” findings.⁴⁸¹ CCMs must make vessel-specific determinations that transshipment in port would cause “significant economic hardship” and a vessel would have to make “significant and substantial changes to its historical mode of operation.”⁴⁸² They are also required to advise the WCPFC of their monitoring and verification procedures for transshipments on the high seas and submit a plan detailing the steps being taken to encourage transshipment in port.⁴⁸³

However, certain CCMs are not implementing any of these duties. No CCM has advised the WCPFC of its monitoring and verification procedures or submitted a plan to encourage transshipment in port, and CCMs do not make vessel-specific determinations.⁴⁸⁴ Instead, authorizations to tranship on the high seas are implied from information submitted by CCMs for the Record of Fishing Vessels.⁴⁸⁵ Such authorization has become more the rule than the exception: more than 50% of longline and other non-purse vessels

⁴⁷⁹ See *supra* Part II.

⁴⁸⁰ 2016 *Guidelines for High Seas Transshipment*, *supra* note 24, ¶ 9.

⁴⁸¹ *Id.*

⁴⁸² CMM 2009–06, *supra* note 22, ¶ 37.

⁴⁸³ *Id.* at ¶¶ 35(a)(ii), (v).

⁴⁸⁴ 2013 *Guidelines for Determining Impracticability*, *supra* note 24.

⁴⁸⁵ 2016 *Guidelines for High Seas Transshipment*, *supra* note 24, ¶ 10.

are registered to tranship on the high seas⁴⁸⁶ and significant amounts of valuable tuna, including 36.9% of bigeye tuna, are transhipped on the high seas.⁴⁸⁷ Clearly, CMM 2009–06 is not effectively reducing transhipment on the high seas.

Moreover, the evidence indicates that transhipment in port is not impracticable. Port infrastructure throughout the region appears sufficient to support and supply fishing vessels,⁴⁸⁸ except that some ports lack ULT freezer capacity, which could be mitigated by placing carrier vessels with ULT freezer capacity in those ports.⁴⁸⁹ All purse seine fleets and the longline fleets of the United States, European Union, and Japan catch fish on the high seas yet travel hundreds of nautical miles to tranship in port.⁴⁹⁰ A large number of high seas transhipments occur just outside the EEZs of CCMs,⁴⁹¹ suggesting that these vessels are able to tranship in port but choose not to in order to avoid monitoring by coastal State CCMs. Moreover, costs associated with transhipment in port are insignificant in relation to the costs of operating a tuna vessel.⁴⁹² Fuel and labor costs do not fully explain an inability to tranship in port as overcapacity may play an equal or more significant role as evidenced by the profitability of the Japanese fleet, which has declined in number due to a vessel scrapping program.⁴⁹³

Thus, this Article proposes replacement of the “impracticability” test with a presumption against transhipment on the high seas. It allows, however, time-limited exemptions to ensure transhipment of ULT frozen fish from a fishing vessel to a carrier vessel and for fresh fish. However, it directs the Secretariat to study the circumstances under which these exemptions are needed; the exemptions expire unless these studies conclude that the exemptions are necessary. In addition, and in sharp contrast to the current regime, the exemptions must be approved by the WCPFC; they cannot be unilaterally established. The process that applies to exemptions for purse seine vessels would be applied to all other vessels. Moreover, to allow the WCPFC to review implementation of such plans to encourage transhipment in port, exemptions may not be granted for more than three years, although CCMs may apply for a new exemption at the end of the three years. Only through such a process can the WCPFC help minimize IUU fishing, prevent human rights abuses, and reduce opportunities for human trafficking and smuggling of guns, drugs, and wildlife. At the same time, it will help Pacific Island States develop their ports and economies.

⁴⁸⁶ *Id.* at ¶ 15.

⁴⁸⁷ *2017 Annual Report on WCPFC Transhipment Reporting*, *supra* note 26, at tbl.3.

⁴⁸⁸ *See supra* Part VI.B.

⁴⁸⁹ *See supra* Part VI.B.

⁴⁹⁰ *See supra* Part III.C.

⁴⁹¹ *2017 Annual Report on WCPFC Transhipment Reporting*, *supra* note 26, at figs.3, 4 & 5.

⁴⁹² *See supra* Part VI.C.

⁴⁹³ *See supra* Part VI.D.