

**NORTHERN COMMITTEE**

**EIGHTEENTH REGULAR SESSION**

ELECTRONIC MEETING

4-6 October 2022

**Updated information on North Pacific albacore fishing effort**

(Reference: Attachment C/Annex A in NC7 Summary Report)

**WCPFC-NC18-2022/WP-01 (Rev.01)**

**Secretariat**

**Table 1.** Average annual catch of North Pacific albacore (metric tonnes)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CCM** | **Data pertain to WCPFC Area only or entire N Pacific?** | **Fisheries with ANY catch of NP albacore** | **"Fishing for" NP albacore? (Y/N)** | **2006-2010 average annual catch** |
| **Canada** | N Pacific  | Albacore troll | Y | 5,911  |
| Total catches for Canada: | 5,911  |
| Catches in fisheries "fishing for" NP albacore: | 5,911  |
| % of total catch in fisheries "fishing for" NP albacore: | 100 |
|  |
| **China** | N. Pacific | Longline | Y | 1,967 |
|  | N. Pacific | Longline | N | 98 |
| Total catches for China: | 1,967 |
| Catches in fisheries "fishing for" NP albacore: | 1,869 |
| % of total catch in fisheries "fishing for" NP albacore: | 95 |
| Note: Historically, there are 10 longliners seasonally operating in the high seas of Northern Pacific Ocean targeting albacore, which covered the Convention Areas of WCPFC and IATTC |
|  |
| **Cook Islands** | N Pacific total catches | Albacore troll | Y | 31 |
|  | N Pacific total catches | Longline | Y | 8 |
| Total catches for Cook Islands: | 39 |
| Catches in fisheries "fishing for" NP albacore: | 39 |
| % of total catch in fisheries "fishing for" NP albacore: | 100 |
|  |
| **Fiji** | N. Pacific | LL | N | 1.2 |
|  |  |  |  |  |
| Total catches for Fiji Islands: | 1.2 |
| Catches in fisheries "fishing for" NP albacore: | 0  |
| % of total catch in fisheries "fishing for" NP albacore: | 0  |
|  |
| **Japan** | CA only | LL Coast | Y | 16,817 |
|  |  | LL DW | Y | 4,230 |
|  |  | PL Coast | N | 89 |
|  |  | PL DW | Y | 24,504 |
|  |  | PS Coast | N | 14 |
|  |  | PS DW | N | 1,841 |
|  |  | GN  | N | 430 |
|  |  | Troll | N | 505 |
|  |  | Set Net | N | 52 |
|  |  | Others | N | 36 |
| Total catches for Japan: | 48,518 |
| Catches in fisheries "fishing for" NP albacore: | 45,551 |
| % of total catch in fisheries "fishing for" NP albacore: | 94 |
|  |
| **Korea** | CA only | LL DW | Y | 18 |
|  | CA only | LL DW | N | 157 |
| Total catches for Korea: | 175 |
| Catches in fisheries "fishing for" NP albacore: | 18 |
| % of total catch in fisheries "fishing for" NP albacore: | 10 |
| NOTE: Three LL DW participated in fishing for NP Albacore in 2007 and 2008, and the catch was 87 tons. |
|  |
| **Philippines** | N Pacific | others | N | 75 |
| Total catches for Philippines (average for 2009-2011): | 75 |
| Catches in fisheries "fishing for" NP albacore: | 0 |
| % of total catch in fisheries "fishing for" NP albacore: | 0 |
| NOTE: Catches are mainly from artisanal Hook-and-Line Gear (non-targeting ALB) |
|  |
| **Chinese Taipei** | N Pacific | albacore LL | Y | 2,548 |
|  | N Pacific | LL others | N | 552 |
| Total catches for Chinese Taipei: | 3,100 |
| Catches in fisheries "fishing for" NP albacore: | 2,548 |
| % of total catch in fisheries "fishing for" NP albacore: | 82 |
|  |
| **United States** | N Pacific | Albacore troll | Y | 12,344 |
|  |  | Longline | N | 288 |
|  |  | Gillnet | N | 3 |
|  |  | Pole and line | N | 0 |
|  |  | Purse seine | N | 23 |
|  |  | Other | N | 577 |
| Total catches for United States: | 13,236 |
| Catches in fisheries "fishing for" NP albacore: | 12,344 |
| % of total catch in fisheries "fishing for" NP albacore: | 93 |
| NOTE: 1) These USA (2006-2010) data may not be confirmed from figures available to the Secretariat. 2) US response: See all our annual reports under CMM 2005-03, the latest of which is dated 30 April 2012. |
|  |
| **Vanuatu** | N Pacific | albacore LL | Y | ~~1,705~~ 2,525 |
|  | N Pacific | LL others | N | ~~2,941~~ 135 |
| Total catches for Vanuatu: | ~~4,366~~ 2,661  |
| Catches in fisheries "fishing for" NP albacore: | ~~1,705~~ 2,525  |
| % of total catch in fisheries "fishing for" NP albacore: | ~~39~~ 95  |
|  |
| **Belize** | CA only | LL | Y | 95 |
| Total catches for Belize: | 95 |
| Catches in fisheries "fishing for" NP albacore: | 95 |
| % of total catch in fisheries "fishing for" NP albacore: | 100 |
| NOTE: catch unsegregated by area |
|  |
| **Federated States of Micronesia** | CA only | LL | N | 18 |
| Total catches for FSM: | 18 |
| Catches in fisheries "fishing for" NP albacore: | 0 |
| % of total catch in fisheries "fishing for" NP albacore: | 0 |
| NOTE: Commenced fishery in 2009 |
|  |
| **Marshall Islands** | CA only | LL | N | N/A |
| Total catches for RMI: |  |
| Catches in fisheries "fishing for" NP albacore: |  |
| % of total catch in fisheries "fishing for" NP albacore: |  |
| NOTE: Commenced fishery in 2008 |  |
|  |  |

**Table 1-1.** Average annual catch (metric tonnes) of NP albacore during 2006-2010 (from Table 1)

|  |  |  |  |
| --- | --- | --- | --- |
| **Country** | **Target category** | **CA only** | **N Pacific** |
| **Canada** | Target |   | 5,911  |
| Non-Target |   | 0 |
| **China** | Target |  | 1,967 |
| Non-Target |  | 98 |
| **Cook Islands** | Target |   | 39 |
| Non-Target |   | 0 |
| **Fiji** | Target |  | 0 |
| Non-Target |  |  1.2 |
| **Japan** | Target | 45,551 |  |
| Non-Target | 2,967 |  |
| **Korea** | Target | 18 |   |
| Non-Target | 157 |   |
| **Philippines** | Target |  | 0 |
| Non-Target |  | 75 |
| **Chinese Taipei** | Target |   | 2,548 |
| Non-Target |   | 552 |
| **United States of America** | Target |  | 12,344 |
| Non-Target |  | 892 |
| **Vanuatu** | Target |   | ~~1,705~~ 2,525  |
| Non-Target |  | ~~2,941~~ 136 |
| **Belize** | Target | 95 |  |
| Non-Target | 0 |  |
| **FSM** | Target | 0 |   |
| Non-Target | 18 |   |
| **Total Catch** |
|  |  | **CA only** | **N Pacific** |
| **Total catch** | Target | 45,664 | 25,236 |
| Non-T | 3,142 | 1,754 |
| Total catch | 48,806 | 26,990 |
|  |
| **Proportion** | Target | 94% | 94% |
| Non-T | 6% | 6% |
|  | 100% | 100% |

**Table 2**. Fishing effort fishing for North Pacific albacore

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CCM | Area[[1]](#footnote-1) | Fishery[[2]](#footnote-2) | 2002-04 Average | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
| No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days |
| Canada[[3]](#footnote-3) | N Pacific | ALB troll | 215 | 8,898 | 213 | 8,564 | 174 | 6,243 | 207 | 6,902 | 137 | 5,773 | 138 | 6,540 | 161 | 7,294 |
| CA[[4]](#footnote-4) only | ALB troll | 8 | 256 | 1 | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| China | N Pacific | LL | 10 | 1,250 | 10 | 1,230 | 10 | 1150 | 2 | 260 | 2 | 250 | 2 | 280 | 2 | 240 |
| Cook Islands | N Pacific | ALB troll | 4 | 183 | 2 | 240 | 2 | 171 | 1 | 57 | 1 | 0 | 0 | 0 | 0 | 0 |
| N Pacific | LL | 1 | 2 | 1 | 4 | 0 | 0 | 1 | 37 | 1 | 17 | 0 | 0 | 0 | 0 |
| Fiji[[5]](#footnote-5) | N Pacific | LL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 |
| Japan[[6]](#footnote-6) | CA only | LL Coast | 296 | 40.988 | 289 | 41,197 | 287 | 43,366 | 273 | 43,480 | 276 | 40,030 | 280 | 43,536 | 286 | 45,877 |
|  | LL DW | 633 | 26,851 | 591 | 21,548 | 538 | 21,186 | 494 | 21,712 | 480 | 17,823 | 361 | 12,060 | 342 | 13,084 |
|  | PL DW | 141 | 19,839 | 134 | 20,442 | 125 | 16,059 | 106 | 16,931 | 104 | 15,667 | 104 | 15,248 | 101 | 15,541 |
| Korea[[7]](#footnote-7) | CA only | LL DW | 0[[8]](#footnote-8) | 08 |  |  |  |  | 3 | 268 | 3 | 107 |  |  |  |  |
| Philippines[[9]](#footnote-9) | N Pacific | Handline | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chinese Taipei[[10]](#footnote-10) | N Pacific | ALB LL | 25 |  | 23 | 2,363 | 24 | 4,156 | 21 | 3,360 | 18 | 2,603 | 13 | 2,082 | 20 | 2,093 |
| USA | N Pacific | ALB troll |  | 13,311 |  | 11,552 |  | 10,892 |  | 11,552 |  | 11,138 |  | 13,339 |  | 13,076 |
| CA only | ALB troll |  | 789 |  | 371 |  | 66 |  | 42 |  | \* |  | \* |  | \* |
| Vanuatu[[11]](#footnote-11) | N Pacific | LL | 37  | 3,407 | 26 | 1,983 | 32  | 2,868 | 23 | 2,133 | 20 | 1,883 | 14 | 1.248 | 10  | 1.053 |

\* Data in the WCPO were confidential

**Table 2 (continued)**. Fishing effort fishing for North Pacific albacore

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CCM | Area | Fishery | 2002-04 Average | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days |
| Canada | N Pacific | ALB troll | 215 | 8,898 | 161 | 8,556 | 172 | 5,974 | 183 | 6,465 | 160 | 4,747 | 164 | 5,197 | 152 | 5,359 |
| CA only | ALB troll | 8 | 256 | 1 | 3 | 2 | 2 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| China | N Pacific | LL | 10 | 1,250 | 10 | 1240 | 10 | 1280 | 10 | 1220 | 10 | 1290 | 10 | 900 | 10 | 910 |
| Cook Islands | N Pacific | ALB troll | 4 | 183 |  |  |  |  |  |  |  |  |  |  |  |  |
| N Pacific | LL | 1 | 2 |  |  |  |  |  |  |  |  | 2 | 22 | 1 | 68 |
| Fiji[[12]](#footnote-12) | N Pacific | LL | 0 | 0 | 0 | 0 | 9 | 230 | 29 | 920 | 20 | 663 | 10 | 88 | 8 | 170 |
| Japan | CA only | LL Coast | 296 | 40,988 | 273 | 42,996 | 266 | 38,977 | 248 | 37,529 | 246 | 35,362 | 237 | 37.801 | 229 | 37,308 |
|  | LL DW | 633 | 26,851 | 341 | 12,683 | 320 | 13,818 | 321 | 13,406 | 305 | 13,305 | 285 | 11,763 | 256 | 10,419 |
|  | PL DW | 141 | 19,839 | 98 | 13,433 | 95 | 14,646 | 85 | 12,781 | 84 | 12,147 | 84 | 12,743 | 81 | 13,923 |
| Korea | CA only | LL DW | 0 | 0 |  | 7,407 |  | 11,061 |  | 1,746 |  | 1,184 |  | 852 |  | 943 |
| Philippines | CA only | Artisanal fishery (non-targeting) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chinese Taipei | N Pacific | ALB LL | 25 |  | 21 | 1,839 | 21 | 1,423 | 22 | 2,108 | 22 | 2,348 | 23 | 2,401 | 24 | 2,259 |
| USA | N Pacific | ALB troll |  | 13,311 |  | 13,983 |  | 15,218 |  | 13,509 |  | 12,199 |  | 11,506 |  | 12,691 |
| CA only | ALB troll |  | 789 |  | 155 |  | \* |  | \* |  | 7 |  | 8 |  | 0 |
| Vanuatu | N Pacific | LL | 37 | 3,407 | 24 | 1,248 | 21 | 760 | 27 | 1,916 | 25 | 1,904 | 22 | 2,771 | 18 | 1,382 |

Italic = preliminary data

\* Data in the WCPO were confidential

**Table 2 (continued)**. Fishing effort fishing for North Pacific albacore

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| CCM | Area | Fishery | 2002-04 Average | 2017 | 2018 | 2019 | 2020 | 2021 |
| No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days | No. of vessels | Vessel days |
| Canada | N Pacific | ALB troll | 215 | 8,898 | 121 | 4,978 | 121 | 4,196 | 122 | 3,882 | 104  | 3,301 | 112 | 3,660 |
| CA only | ALB troll | 8 | 256 | 5 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 |
| China | N Pacific | LL | 10 | 1,250 | 10 | 850 | 10 | 838 | 10 | 1,249 | 10 | 1,075 | 10 | 295 |
| Cook Islands | N Pacific | ALB troll | 4 | 183 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| N Pacific | LL | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fiji[[13]](#footnote-13) | N Pacific | LL | 0 | 0 | 4 | 114 | 6 | 180 | 5 | 149 | 4 | 132 | 2 | 43 |
| Japan | CA only | LL Coast | 296 | 40,988 | 233 | 35,566 | 229 | 34,725 | 225 | 34,231 | 226 | 35,307 | 230 | 26,516 |
| LL DW | 633 | 26,851 | 253 | 10,154 | 248 | 10,126 | 249 | 9,987 | 249 | 10,278 | 249 | 7,742 |
| PL DW | 141 | 19,839 | 82 | 12,659 | 80 | 13,236 | 76 | 12,321 | 75 | 11,062 | 74 | 12,538 |
| Korea[[14]](#footnote-14) | CA only | LL DW | 0 | 0 |  | 0 |  | 0 |  | 0 |  | 0 | 0 | 0 |
| PS | 0 | 0 |  |  |  |  | 0 | 0 |  |  |  |  |
| Philippines | N Pacific | HL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chinese Taipei | N Pacific | ALB LL | 25 |  | 25 | 2,567 | 25 | 2,943 | 25 | 2,338 | 25 | 2,079 | 25 | 2,070 |
| USA | N Pacific | ALB troll |  | 13,311 |  | 12,675 |  | 11,112 |  | 11,078 |  | 8,681 |  | 6,731 |
| CA only | ALB troll |  | 789 |  | 571 |  | 123 |  | 4 |  | 26 |  | 0 |
| Vanuatu | N Pacific | LL | 37 | 3,407 | 23 | 1,510 | 27 | 2,035 | 26 | 2,087 | 32  | 2,224 | 29 | 2,736~~2,671~~ |

**Table 2-1**. As requested by the NC12 (Paragraph 57) related to Paragraph 2 in CMM 2005-03, CCMs are requested to report on how to control their fishing effort fishing for North Pacific albacore by indicating, for example, limiting vessels, fishing days, licenses, or some other measures.

|  |  |  |  |
| --- | --- | --- | --- |
| **CCM** | **Area** | **Fishery** | **Regulation of fishing effort** |
| **Canada** | N Pacific | ALB troll | Canada issues domestic “CT” fishing licenses for Albacore Tuna. The CT license is intended to act as a management measure to strengthen management of the domestic tuna fishery, and help ensure Canada is meeting international obligations related to effort. As of 2013, commercial license holders wanting to harvest tuna are required to hold a primary license (with Schedule II privileges) and apply for/receive a separate CT (Tuna) license. The CT license authorizes fishing of Pacific Albacore tuna in Canada’s Exclusive Economic Zone (EEZ) and on the high seas under separate license conditions. The CT license is vessel-based and must be renewed annually.Canadian license holders without a primary license are able to access tuna in international high seas waters through “Section 68 High Seas” licenses. The Section 68 license is intended to act as a management measure to strengthen management of the tuna fishery in the high seas, and help ensure Canada is meeting international obligations related to effort. The Section 68 licence must be renewed annually. |
| CA only | ALB troll | Canada issues domestic “CT” fishing licenses for Albacore Tuna. The CT license is intended to act as a management measure to strengthen management of the domestic tuna fishery, and help ensure Canada is meeting international obligations related to effort. As of 2013, commercial license holders wanting to harvest tuna are required to hold a primary license (with Schedule II privileges) and apply for/receive a separate CT (Tuna) license. The CT license authorizes fishing of Pacific Albacore tuna in Canada’s Exclusive Economic Zone (EEZ) and on the high seas under separate license conditions. The CT license is vessel-based and must be renewed annually.Canadian license holders without a primary license are able to access tuna in international high seas waters through “Section 68 High Seas” licenses. The Section 68 license is intended to act as a management measure to strengthen management of the tuna fishery in the high seas, and help ensure Canada is meeting international obligations related to effort. The Section 68 license must be renewed annually. Canadian licence holders wishing to fish for tuna in the WCPFC Convention Area will need to request amended Conditions of Licence from the Canadian Tuna Resource Manager. These amended Conditions of Licence will be issued once it has been confirmed that the various requirements specific to harvesting in the WCPFC Convention Area have been met. |
| **China** | N Pacific | LL | The number of fishing vessels is limited by the license system. |
| **Cook Islands** | N Pacific | ALB troll | Not Applicable, CK has no troll vessels in the fishery |
| N Pacific | LL | Limited by license.  |
| **Fiji** | N Pacific | LL | Vessel Size class & capacity, Licenses and other measures specified in Offshore Fisheries Management Act 2012 & Offshore Fisheries Management Regulation 2014 and National Strategy for Fiji Fishing Vessels Operating in Areas Beyond National Jurisdiction. |
| **Japan** | CA only | LL Coast | The number of fishing vessels is limited by the license system. |
|  | LL DW | The number of fishing vessels is limited by the license system. |
|  | PL DW | The number of fishing vessels is limited by the license system. |
| **Korea** | CA only | LL DW | There has been no Korean flagged fishing vessel targeting for N.ALB. However, all authorized fishing vessels operating in the CA are required to report their catches including non-targeting species daily via the e-reporting system.  |
| **Philippines** | - | - | Not applicable*Notes from 2021 Annual Report Part 1*:359MT(2020) - catches for this species are mainly coming from municipal or artisanal gears (e.g. hook-and-line) and this is not a target species for these gear/s. Fishing effort for municipal or artisanal gears (e.g., hook-and-line) are difficult to quantify, as recognized by the Commission there are some fleets such as the Philippines that has some practical difficulties compiling this information. Also, it would be important to note that Philippines do not target albacore (*Thunnus alalunga*), this species is mainly caught as bycatch and seasonal in nature. |
| **Chinese Taipei** | N Pacific | ALB LL | 1. We have limited the number of our fishing vessels fishing for North Pacific albacore to stay below 25 since CMM 2005-03 was implemented. The vessel number is controlled when we issue the fishing permit every year.
2. For other fishing vessels that are not allowed to fishing for North Pacific albacore, their bycatches of this albacore would be monitored to stay below certain ratio
 |
| **USA** | N Pacific | ALB troll | The United States has a single fleet that fishes for North Pacific albacore in the Convention Area: the albacore troll fleet is based out of the U.S. West Coast. The albacore troll fleet is not currently subject to effort or catch controls, but permitting, VMS, and reporting (through vessel logbooks) requirements enable the United States to monitor the fishery, including levels of participation, fishing effort and catches. The United States will continue to monitor fishing effort and implement any controls needed to comply with paragraph 2 of the CMM, as well as with relevant decisions adopted in other RFMOs (IATTC). |
| CA only | ALB troll | The United States has a single fleet that fishes for North Pacific albacore in the Convention Area: the albacore troll fleet is based out of the U.S. West Coast. The albacore troll fleet is not currently subject to effort or catch controls, but permitting, VMS, and reporting (through vessel logbooks) requirements enable the United States to monitor the fishery, including levels of participation, fishing effort and catches. The United States will continue to monitor fishing effort and implement any controls needed to comply with paragraph 2 of the CMM, as well as with relevant decisions adopted in other RFMOs (IATTC). |
| **Vanuatu** | N Pacific | ALB LL | Vanuatu has reviewed its baseline to use information on vessels licensing data for the years 2002-2004 for vessel who fished for North Pacific Albacore. Information on Vessel days is estimated using the 2004 vessel days average (2004 as the year with the most data from the 3 baseline years) and this estimate is used to calculate the average Vessel days for the effort baseline. With this revision Vanuatu is in compliant with the measure and will continue to monitor fishing effort and implement any controls needed to comply with paragraph 2 of the CMM.  |

1. Data pertain to WCPFC Area only or entire N Pacific? [↑](#footnote-ref-1)
2. Fisheries "fishing for" NP albacore [↑](#footnote-ref-2)
3. NOTE: For Canada no fishing inside the CA since 2005 [↑](#footnote-ref-3)
4. Convention Area [↑](#footnote-ref-4)
5. Fiji do not have any vessels targeting North Pacific Albacore in the NP Ocean. [↑](#footnote-ref-5)
6. Japanese albacore data indicates the fisheries in north of the equator within CA. [↑](#footnote-ref-6)
7. Korea’s fishing effort “fishing for” NP albacore occurred in 2007 and 2008, and non-target fishing effort occurred every year in the North Pacific. [↑](#footnote-ref-7)
8. Korea does not have any vessels targeting directly North Pacific albacore in the North Pacific Ocean. [↑](#footnote-ref-8)
9. Estimates under study. Refer to Notes in Table 2-1 for further information. [↑](#footnote-ref-9)
10. This data just indicates the fishery fishing for NP albacore only [↑](#footnote-ref-10)
11. Effort baseline for (2002-2004) uses license information for vessels licensed to fish and targeting NP Albacore in these years. Effort in Vessel days uses the 2004 Effort data on vessel days to estimate the average days per vessel and uses this estimate to calculate that for the 2002-2004 vessel days baseline. [↑](#footnote-ref-11)
12. Fiji do not have any vessels targeting North Pacific Albacore in the NP Ocean. [↑](#footnote-ref-12)
13. Fiji do not have any vessels targeting North Pacific Albacore in the NP Ocean. [↑](#footnote-ref-13)
14. Korea does not have any vessels targeting directly North Pacific albacore in the North Pacific Ocean. [↑](#footnote-ref-14)