

Panamanian Small Pelagics FIP Progress Update

December 2021 – LAST TWELVE MONTHS ACTIVITIES APPEAR IN BLUE THROUGHOUT THE TABLE

| Results/ FIP Stage | Indicator of Success | Specific Details | Date Achieved | Entities in charge | Source |
|--------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| FIP is launched (Stage 1) | Sustainability assessment is publicly available | Sustainability report | January 2009 | FishSource (SFP) | Pacific anchoveta Pacific thread herring Pacific bumper |
| | | Fishery technical reports available at CeDePesca's website | October 2010 | CeDePesca | Fishery Profile (in Spanish) Fishery obstacles to sustainability (in Spanish) |
| | | Gap analysis was conducted by CeDePesca, delivered to PROMARINA and is publicly available | July 2013 | CeDePesca PROMARINA | Gap Analysis |
| | Fisheries improvement recommendations publicly available | The first FIP public report is published with improvement recommendations | January 2011 | CeDePesca | FIP Public Report |

Continue below

| Results/ FIP Stage | Indicator of Success | Specific Details | Date Achieved | Entities in charge | Source |
|------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------|-----------------------------------------------------------|
| FIP is formed (Stage 2) | Stakeholders are organized | CeDePesca continuously strengthened relationships with the industry, especially with the Panamanian Seafood Exports Association (APPEXMAR), artisanal fishermen associations, and other stakeholders | 2010 - 2012 | CeDePesca | |
| | | CeDePesca held several meetings with PROMARINA as a response to a request from the company to discuss an effort limitation rule being drafted at the fisheries agency, and ways to address demands from companies like Cargill regarding scores in FishSource | Throughout 2010 | CeDePesca PROMARINA | |
| | | Meetings with other fishery stakeholders such as Conservation International, Mar Viva, WWF, and researchers from the University of Panama | 2010 - 2012 | CeDePesca | |
| | | Framework Collaboration Agreement and Specific Agreement #1 signed between CeDePesca and PROMARINA | February 2012 | PROMARINA CeDePesca | MOU |
| | | Framework Collaboration Agreement signed between the University of Panama and CeDePesca | July 2013 | University of Panama CeDePesca | |
| FIP is formed (Stage 2) | Stakeholders are organized | Specific Agreement #2 signed for the continued implementation of the FIP workplan | August 2013 | PROMARINA CeDePesca | |
| (CONTINUED) | (CONTINUED) | Panamanian General Audit Office approves MOU between CeDePesca and the University of Panama | October 2013 | Panamanian General Audit Office | Framework Collaboration Agreement |
| | | Specific Agreement #3 signed in order to conduct the first stock assessment for the fishery and to improve the observers program | February 2015 | PROMARINA CeDePesca | |
| | | Specific Agreement #4 editing a clause in Specific Agreement #3 | May 2015 | PROMARINA CeDePesca | |
| | | Specific Agreement #5 signed in order to conduct a second stock assessment for the fishery and to give continuance to the observers program in 2016 and 2017. | March 2016 | PROMARINA CeDePesca | |

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| | | Promarina and CeDePesca have welcomed Procesadora Bayano to the FIP. | April 2017 | PROMARINA PROBASA CeDePesca | Addendum to the Framework Collaboration Agreement (in Spanish) |
| | | Meeting with the General Administrator of the ARAP | June 2018 | PROMARINA PROBASA CeDePesca | Short report |
| | | Specific Agreement #7 signed in order to conduct a quarter stock assessment for the fishery and to give continuance to the observers program in 2019. | February 2019 | PROMARINA PROBASA CeDePesca | |
| | | The act of completion of the Fishing Season 2019 is signed between the ARAP, the companies processing, marketing and exporting of fishmeal and fishing oil and CeDePesca | December 2019 | ARAP PROMARINA PROBASA TABOQUILLA AnimalFeed CeDePesca | |
| | | A meeting of the FIP Stakeholder Committee was held. At the meeting, the general evolution of the FIP was discussed as well as several aspects to improve the Management Plan. | October 2021 | ARAP CeDePesca | Minutes stakeholders meeting |
| FIP is encouraging improvements (Stage 3) | Workplans with annual improvement milestones are publicly available | Workplans approved by FIP partners | March 2013 | CeDePesca PROMARINA | Initial workplan |
| | | | January 2016 | CeDePesca PROMARINA | Workplan 2016 |
| | | | April 2017 | CeDePesca PROMARINA PROBASA | Workplan 2017-2018 (in Spanish) |
| | | | February 2019 | CeDePesca PROMARINA PROBASA | Workplan 2018-2019 |
| | FIP is achieving agreed annual improvement milestones | A catch and effort database for the period 1996/2012 is available. | November 2012 | PROMARINA ARAP CeDePesca | Database available at stakeholders' request. |
| | | A preliminary stock assessment was presented to PROMARINA | April 2013 | CeDePesca | PPT available at request. |
| | | First national workshop on fisheries research identified key research needs. | April 2013 | ARAP, UP, UMIP, STRI, PROMARINA, Panalang, CeDePesca, CONAPAS | Workshop report available on request |
| | | Onboard Observers Program up and running | May 2013 | PROMARINA CeDePesca | Undercurrent News |

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| FIP is encouraging improvements (Stage 3) CONTINUED | FIP is achieving agreed annual improvement milestones CONTINUED | Onboard Observer Program database updated and reviewed. | October-December 2013 | CeDePesca | Data base available to stakeholders on request |
| | | ERAEF Workshop ERAEF at the University of Panama. Thrity-six stakeholders participated. | January-February 2014 | University of Panama PROMARINA CeDePesca | |
| | | CeDePesca trained a new observer. | March 2014 | CeDePesca | |
| | | Meetings pre season between observers, skippers and CeDePesca | April 2014 | CeDePesca PROMARINA | |
| | | The onboard observers database is updated | Jun 2014 | CeDePesca | Database available to stakeholders on request |
| | | The catch-effort database and the biological database are updated | August 2014 | CeDePesca PROMARINA | Database available to stakeholders on request |
| | | A student of the Panama Maritime University began his professional practice as onboard observer | September 2014 | PROMARINA UMIP CeDePesca | |
| | | Catch and effort database and bycatch database are updated | December 2014 | CeDePesca PROMARINA | Database available to stakeholders on request |
| | | The biological database was updated. | January 2015 | CeDePesca | Database available to stakeholders on request |
| | | First formal stock assessment and recommendations for a management delivered. | March 2015 | CeDePesca PROMARINA ARAP | Stock assessment and recommendations |
| | | The data collection methodology for the Onboard Observers Program is improved | June 2015 | CeDePesca | |
| | | A draft management plan has been put together | September 2015 | PROMARINA CeDePesca | Available on request |
| | | Catch and effort database is updated | November 2015 | CeDePesca | Database available to stakeholders on request |
| | | Biological and bycatch databases are updated | December 2015 | CeDePesca | Database available to stakeholders on request |
| | | Second formal stock assessment is completed in March, and is available to the public as of July 2016 | March 2016 | CeDePesca PROMARINA | Stock assessment (in Spanish) Stock assessment (in English) |
| | | As a direct result from this FIP, the Government of Panama updates the fishery's regulations. | March 2016 | ARAP | Executive Decree N° 107-2016 |
| | | Catch and effort database is updated | August 2016 | CeDePesca | Database available to stakeholders on request |

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| FIP is encouraging improvements (Stage 3) CONTINUED | FIP is achieving agreed annual improvement milestones CONTINUED | Biological and bycatch databases are updated | September 2016 | CeDePesca | Database available to stakeholders on request |
| | | Catch and effort database and biological database are updated | December 2016 | CeDePesca | Database available to stakeholders on request |
| | | A report on bycatch according to the data from the Onboard Observers Program has been prepared. | January 2017 | CeDePesca | Bycatch Report (in Spanish) |
| | | An hydroacoustic survey in the Gulf of Panama was conducted by FIP partners | February 2017 | PROMARINA CeDePesca | |
| | | A third biologist has been trained as onboard observer for the Program | May 2017 | CeDePesca | Picture |
| | | Catch and effort database, biological database and bycatch database updated | June 2017 | CeDePesca | Database available to stakeholders on request |
| | | An onboard observer was trained for the PROBASA fleet | July 2017 | CeDePesca | |
| | | The Onboard Observers Program database was shared with ARAP | August 2017 | PROMARINA CeDePesca ARAP | |
| | | The catch and effort database and the size structure database were updated | November 2017 | CeDePesca | Database available to stakeholders on request |
| | | ARAP requested to participate from the drafting process of the FIP Action Plan for 2018 | December 2017 | ARAP CeDePesca | |
| | | The catch and effort database, the size structure database and the database on bycatch of sharks and turtles were updated. | January 2018 | ARAP CeDePesca | Database available to stakeholders on request |
| | | A hydroacoustic survey of small pelagic species was carried out in the Gulf of Panama conducted by FIP partners. | March 2018 | PROMARINA PROBASA ARAP CeDePesca | March 2018 report |
| | | A training workshop was held for on-board observers. | April 2018 | CeDePesca | Picture |
| | | The Fishing Season 2018 began according to Resolution DGOMI N ° 024 of April 10, 2018. | April 2018 | ARAP | Resolution DGOMI N ° 024 of April 10, 2018. |
| | | The Maximum Allowable Catch (CMA) was estimated for the 2018 | May 2018 | CeDePesca PROMARINA PROBASA | The Maximum Allowable Catch (CMA), Season 2018 (Spanish) |

FIP is encouraging improvements (Stage 3)

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| A draft of the text of the TdR was drawn up to hire an expert in the assessment of small pelagic stocks. | September 2018 | CeDePesca | The document is under review by ARAP, PROMARINA and PROBASA (Confidential) |
| Catch and effort database, biological database and bycatch database update | December 2018 | CeDePesca | Database available to stakeholders on request |
| Catch and effort database, the size structure database and the database on bycatch of sharks and turtles were updated. | January 2019 | CeDePesca | Database available to stakeholders on request |
| Workshop with the fishing captains of Promarina and Probasa on the measures of the management plan of the fishery and on measures to reduce the mortality of turtles, sharks and rays. | January 2019 | Promarina, Probasa and CeDePesca | Picture |
| A hydroacoustic survey of small pelagic species was carried out in the Gulf of Panama conducted by FIP partners. | February 2019 | PROMARINA PROBASA ARAP CeDePesca | Hydroacoustic survey Report |
| CeDePesca coordinated a Workshop on the Estimation and Recommendation of the Maximum Allowable Capture for technicians of the Water Resources Authority of Panama (ARAP) and collaborators of the FIP Partners Promarina and Probasa. | April 2019 | PROMARINA PROBASA ARAP CeDePesca | |
| The Fishing Season 2019 began according to Resolution DGOMI N ° 025 of April 02, 2019. | April 2019 | ARAP | Resolution DGOMI No. 025 |
| Three observers were trained on board theoretically and in the field. | May 2019 | CeDePesca | |
| As a catch control, the weekly average of the Catch per Effort Unit (CPUE) was estimated. | May and June 2019 | ARAP and CeDePesca | |
| CeDePesca moderates the second workshop on the calculation of the CMA to the ARAP researchers and collaborators of the FIP Partners Promarina and Probasa, at the request of the institution. | June 2019 | CeDePesca | |

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| | | The 2019 anchovy fishing season is officially closed through Resolution No. DGOMI-189 of Tuesday, September 24, 2019. Published in Official Gazette No. 28870 of Friday, September 27, 2019 | September 2019 | ARAP | Resolution No DGOMI-189 September 2019 |
| | | Catch and effort database, the size structure database and the database on bycatch of sharks and turtles were updated. | November 2019 | CeDePesca | Database available to stakeholders on request |
| | | Estimation of bycatch per month per species per area was continued. | November 2019 | CeDePesca | Database available to stakeholders on request |
| | | Databases on the different habitats of the fishing areas were reviewed. | November 2019 | CeDePesca | Database available to stakeholders on request |
| | | The estimate of the bycatch per month per species per area was continued | December 2019 | CeDePesca | Database available to stakeholders on request |
| | FIP members are engaging regulators | Discussions held between PROMARINA and ARAP, and between CeDePesca and University of Panama in order to reinforce the FIP | February 2012 | PROMARINA CeDePesca UP ARAP | U. of Panama activities Pages 238 239 |
| | | A joint research project was submitted to SENACYT, aiming at securing funds for monitoring and stock assessment purposes. However, the project was not selected by SENACYT, citing funding availability | May 2012 | PROMARINA, CeDePesca, UP (Limnology Center), ARAP | Email SENACYT FID 2012 |
| | | The first formal stock assessment is conducted by CeDePesca and recommendations for a management plan were delivered to ARAP and PROMARINA | March 2015 | CeDePesca PROMARINA ARAP | Stock assessment and recommendations |
| | | Draft management plan presented to ARAP | September 2015 | CeDePesca PROMARINA ARAP | Available on request |
| | | Second stock assessment conducted by CeDePesca and recommendations for a management plan were improved and presented to ARAP and PROMARINA | March 2016 | CeDePesca PROMARINA ARAP | Stock assessment (in Spanish) Stock assessment (in English) |
| | FIP members are engaging regulators | Updated proposal for a management plan is presented to ARAP | July 2016 | PROMARINA CeDePesca ARAP | Available on request |

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| | CONTINUED | ARAP provided comments to the FIP's proposal for a management plan | June 2017 | ARAP | Confidential |
| | | Changes to the management plan proposal were discussed with authorities | August 2017 | PROMARINA PROBASA CeDePesca ARAP | Confidential |
| | | The Maximum Allowable Catch (CMA) was estimated for the 2018 | May 2018 | CeDePesca PROMARINA PROBASA | The Maximum Allowable Catch (CMA), Season 2018 (Spanish) |
| | | Memorandum of Understanding (MoU) was signed | August 2018 | ARAP PROMARINA PROBASA TABOQUILLA AnimalFeed CeDePesca | MoU |
| | | RESOLUTION ADM / ARAP No. 027 of August 28, 2018 was signed and published in Official Gazette No. 28605-B of September 5, 2018. By means of which the Management Plan of the fishery of small pelagic, | August 2018 | ARAP | RESOLUTION ADM / ARAP No. 027 of August 28, 2018 |
| | | The Fishing Season 2018 closes, according to Resolution DGOMI No. 048 of November 8, 2018, Official Gazette No. 28653. | November 2018 | ARAP | Resolution DGOMI No. 048 of November 8, 2018, Official Gazette No. 28653. |
| | | The Fishing Season 2019 began according to Resolution DGOMI N ° 025 of April 02, 2019. | April 2019 | ARAP | Resolution DGOMI N ° 025 of April 02, 2019. |
| | | The 2019 anchovy fishing season is officially closed through Resolution No. DGOMI-189 of Tuesday, September 24, 2019. Published in Official Gazette No. 28870 of Friday, September 27, 2019; | September 2019 | ARAP | Resolution No DGOMI-189 September 2019 |
| | | It was agreed to close the 2019 Fishing Season on Friday, October 15. | October 2019 | ARAP PROMARINA PROBASA CeDePesca | |
| | | CeDePesca fortifies the relations with Panama's National University to beef up the On board observers capacities. | June 2020 | CeDePesca Panama National University | Current meeting summary |

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| | | A catch and effort database for the period 1996/2012 is available. | November 2012 | PROMARINA ARAP CeDePesca | Database available at stakeholders' request. |
| | | The first formal meeting of the Management Commission for the small pelagics fishery took place and approved the internal statute of the commission, and the chair and secretary were elected. Also, a new rule was approved issuing anchovy licenses for traditional small scale fishers. | August 2021 | ARAP PROMARINA PROBASA CeDePesca | ACTA-No.-1-Pequeños-Pelagicos-31-08-21 |
| | | A meeting was held between CeDePesca representatives, regional ARAP officials and the fishing community in Herrera to discuss the situation of the small scale sub-fishery and train the fishers and ARAP officials on determining sex and maturity of anchovies. | November 2021 | ARAP CeDePesca | Pictures |
| | | The second meeting of the Commission was programmed for February 2022. | February 2022 | ARAP PROMARINA PROBASA CeDePesca | Call to meeting |
| | | | | | |
| FIP is delivering improvement in policies or practices (Stage 4) | Fishery practices changed | ARAP agreed to restart monitoring activities when the 2013 season opens in April. PROMARINA skippers are being trained on a new logbook and basic sampling protocols. | March-April 2013 | ARAP PROMARINA CeDePesca | Logbook template available on request |
| | | First national workshop on fisheries research identified key research needs. | April 2013 | ARAP, UP, UMIP, STRI, PROMARINA, Panalang, CeDePesca, CONAPAS | Workshop report available on request |
| | | Onboard Observer Program is successfully collecting data | May 2013 to date | PROMARINA CeDePesca | Undercurrent News |
| | | First formal stock assessment was performed and recommendations for a management plan were delivered. | March 2015 | CeDePesca PROMARINA ARAP | Stock assessment and recommendations |

**FIP is
delivering
improvement
in policies or
practices
(Stage 4)**

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| PROMARINA commits itself to the adoption of the management plan as self-regulating practice | May 2015 | PROMARINA and CeDePesca | LoC |
| Second formal stock assessment is completed, and its outcomes are presented to stakeholders and recommendations are presented to regulators. | March 2016 | CeDePesca PROMARINA ARAP | Picture 1 Picture 2 |
| Second stock assessment available to the public | July 2016 | CeDePesca | Stock assessment |
| An hydroacoustic survey in the Gulf of Panama was conducted by AlborTecnológico, hired by PROMARINA. The survey was conducted with collaboration from FIP partners. | February 2017 | PROMARINA CeDePesca | Hydroacoustic survey Report (in Spanish) |
| A hydroacoustic survey of small pelagic species was carried out in the Gulf of Panama conducted by AlborTecnológico, hired by PROMARINA and PROBASA. The survey was conducted with collaboration from FIP partners. | March 2018 | PROMARINA PROBASA ARAP CeDePesca | Hydroacoustic survey report |
| The Maximum Allowable Catch (CMA) | May 2018 | CeDePesca PROMARINA PROBASA | The Maximum Allowable Catch (CMA), Season 2018 (Spanish) |
| A hydroacoustic survey of small pelagic species was carried out in the Gulf of Panama conducted by FIP partners. | February 2019 | PROMARINA PROBASA ARAP CeDePesca | Hydroacoustic survey Report |
| The FIP partners approved a Voluntary Environmental Code of Conduct to monitor and eventually minimize the impacts on the ecosystem | March 2019 | PROMARINA PROBASA Pesquera Taboguilla Central Pacific | Code of Conduct |
| A new report on bycatch according to the data from the Onboard Observers Program has been prepared. | April 2019 | CeDePesca | Observers Report 2018 |
| Weekly monitoring of the catch per unit effort (CPUE) corresponding to the current season. | July, August and September 2019 | ARAP CeDePesca | Database available at stakeholders' request. |

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| | Monthly monitoring of bycatch, the percentage per area by species of unwanted catch was estimated. | August and September 2019 | ARAP CeDePesca | Database available at stakeholders' request. |
| | Estimation of bycatch per month per species per area was continued. | November 2019 | CeDePesca | Database available to stakeholders on request |
| | The estimate of the bycatch per month per species per area was continued | December 2019 | CeDePesca | Database available to stakeholders on request |
| | A formal stock assessment was conducted and presented to the authorities | January 2020 | CeDePesca | Stock assessment report |
| | The report of the observers' program for the season 2019 was delivered | September 2020 | CeDePesca | Observers report for 2019 |
| | The hydroacoustic surveys have been reinitiated after the pandemic | March 2021 | PROMARINA PROBASA ARAP CeDePesca | Hydroacoustic survey report |
| | The observers on board program have been reinitiated after the pandemic with participation of ARAP and an improved Technical Register | May 2021 | CeDePesca PROMARINA PROBASA ARAP | First preliminary report for 2021 season |
| | A peer review for the stock assessment was conducted and delivered to the authorities | May 2021 | CeDePesca | Peer review report |
| Fishery policies changed | The Government of Panama issues Decree N° 107 on March 29 th , effectively updating measures that were first set in 1977. This is a huge step forward for the fishery's sustainability and is considered an important FIP milestone. | March 2016 | ARAP | Executive Decree N°107-2016 |
| | The first Management Plan for the Fishery was approved and published by ARAP | October 2018 | ARAP | Management Plan |
| | The Management Plan created a Management Committee with participation of ARAP, the industry and CeDePesca, started working after the new President of the country took office. | March 2021 | ARAP | Agenda and draft internal rules of procedure |
| | The 2021 fishing season was opened once again through an official resolution based on the technical report. | April 2021 | ARAP | Fishing season opening resolution |

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| ARAP issued the Technical Report based on the Management Plan criteria and used as fundament for the closure of the anchovy season, which is issued The Resolution DGOMI 122-2021 where the closure was made effective. | August, 2021 | ARAP | Informe Tecnico de Cierre de Temporada de Anchoveta 2021 Resolucion de cierre de temporada anchoveta 2021 |
| The Management Commission Statute was officially published by ARAP with the signature of the chair and secretary. | October 2021 | ARAP | Reglamento Comision de pequenos pelagicos |
| ARAP issued the Resolution DGOMI 189-2021 establishing the closure of the thread herring fishing season because of the low level of catch. | November 2021 | ARAP | Resolucion cierre temporada arenque 2021 |