

9th MEETING OF THE SCIENTIFIC COMMITTEE

Held virtually, 27 September to 2 October 2021

SC9-Doc03_rev21

List of Documents

Secretariat

SC9 Documents		
SC9-Doc01 rev3 2	Provisional Scientific Committee agenda	Secretariat
SC9-Doc02 rev1	Provisional annotated Scientific Committee agenda	Secretariat
SC9-Doc03 rev2 1	List of documents	Secretariat
SC9-Doc04 rev1	Scientific Committee indicative schedule	Secretariat
SC9-Doc05	2021 Scientific Committee multi-annual plan	Secretariat
SC9-Doc06_rev1	2021 intersessional SC web meetings	Secretariat
SC9-Doc07	Secretariat's report on Scientific Committee related activities	Secretariat
SC9-Doc08	Status of previous SC recommendations	Secretariat
SC9-Doc09	Status of the SC (scientific support) fund	Secretariat
SC9-Doc10	Call for interest to organise forthcoming Scientific Committee meetings	Secretariat
SC9-Doc11	A summary of current SPRFMO bycatch records (Including species of concern)	Secretariat
SC9-Doc12	Species profiles	Secretariat
SC9-Doc13	ABNJ Update	Secretariat
SC9-Doc14	Vanuatu Annual report	Vanuatu
SC9-Doc15 <u>rev1</u>	New Zealand Annual report	New Zealand
SC9-Doc16	USA Annual report	USA
SC9-Doc17	Korea Annual report	Korea
SC9-Doc18	Ecuador Annual report - Jack mackerel	Ecuador
SC9-Doc19	Ecuador Annual report - Squid	Ecuador
SC9-Doc20	EU Annual report	European Union
SC9-Doc21	Chinese Taipei Annual Report	Chinese Taipei
SC9-Doc22	Peru Annual Report - SPRFMO Area	Peru
SC9-Doc23	Peru Annual Report - ANJ	Peru
SC9-Doc24	Chile Annual Report - Jack mackerel	Chile
SC9-Doc25	Chile Annual Report - Squid	Chile
SC9-Doc26	Cook Islands Annual Report	Cook Islands
SC9-Doc27	Australia Annual Report	Australia
SC9-Doc28 <u>rev1</u>	China Annual Report - Squid	China
SC9-Doc29	China Observer Implementation Report	China
SC9-Doc30	Russian Federation Annual Report	Russian Federation
SC9-Doc31 <u>rev1</u>	Paper on the High Seas of Nazca and Salas y Gomez Submarine Ridges	Chile



SC9-DW01 by New Zealand vessels 2022-2024 SC9-DW02 BFIA Addendum New Zealand Vessels 2022-2024 SC9-DW03 Templates for Fisheries Operation Plans Secretariat Templates for Fisheries Operation Plans Secretariat New Zealand SC9-DW04 Final report on XPs exploratory fishery for toothfish New Zealand SC9-DW05 Checklist for NZ Exploratory Fisheries Proposal New Zealand SC9-DW06 rev1 Development of spatial management scenarios for bottom trawling Determination of optimal move-on distance in SPRFMO New Zealand SC9-DW07 Determination of optimal move-on distance in SPRFMO New Zealand SC9-DW08 Design of a review process for VME encounters in bottom fisheries in SPRFMO Area Sc9-DW09 rev1 New Zealand 2020 VME encounter review New Zealand SC9-DW10 Updated candidate encounter Thresholds for VME indicator taxa in the SPRFMO Area New Zealand SC9-DW11 Updated list of VME taxa (incorporating FAO criteria) New Zealand SC9-DW12 Assessment on how ID guides for VME taxa could be developed Sc9-DW13 Development of a framework for providing advice on species of concern captures Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait Sc9-JM01 Age data of orange roughy from the Lord Howe Rise Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait Sc9-JM01 CJM Catch history and predicted 2021 catches (Annex I) Secretariat Sc9-JM01 CJM Catch history and predicted 2021 catches (Annex I) Secretariat Sc9-JM04 Genetics of Chilean jack mackerel in the SPRFMO Science Furopean Union MSE Project Update SC9-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean Ocean Committee 2021 Matth History and predicted 2021 catches (Annex I) Secretariat Sc9-JM04 Genetics of Chilean jack mackerel in the SPRFMO Science Furopean Union Cean MSE Project Update Sc9-JM04 Genetics of Chilean jack mackerel in the SPRFMO Science Furopean Union Cean MSE Project Update Sc9-JM04 Genetics of Chilean jack mackerel in the SPRFMO Science Furopean Union Cean Pack Mackerel MSE Project Update Sc9-JM06 Jack mackerel Internati	Deepwater Working Gr	oup	
SC9-DW02 BFIA Addendum New Zealand SC9-DW03 Templates for Fisheries Operation Plans Secretariat SC9-DW04 Final report on NZ's exploratory fishery for toothfish SC9-DW05 Checklist for NZ Exploratory Fisheries Proposal SC9-DW06 rev1 Development of spatial management scenarios for New Zealand SC9-DW06 rev1 Development of spatial management scenarios for New Zealand SC9-DW07 Determination of optimal move-on distance in SPRFMO New Zealand SC9-DW08 Determination of optimal move-on distance in SPRFMO New Zealand SC9-DW08 Design of a review process for VME encounters in bottom fisheries in the SPRFMO Area SC9-DW09 rev1 New Zealand 2020 VME encounter review New Zealand SC9-DW09 rev1 New Zealand 2020 VME encounter review New Zealand SC9-DW10 Updated candidate encounter thresholds for VME New Zealand SC9-DW10 Updated ist of VME taxa (incorporating FAO criteria) New Zealand SC9-DW11 Updated list of VME taxa (incorporating FAO criteria) New Zealand SC9-DW12 Assessment on how ID guides for VME taxa could be developed SC9-DW13 Development of a framework for providing advice on species of concern captures SC9-DW14 Age data of orange roughy from the Lord Howe Rise SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-IMO1 Annex rev1 CIM Catch history and predicted 2021 catches (Annex 1) SC9-IMO1 Annex rev1 CIM Catch history and predicted 2021 catches (Annex 1) SC9-IMO1 Annex rev1 CIM Catch history and predicted 2021 catches (Annex 1) SC9-IMO1 Annex rev1 CIM Catch history and predicted 2021 catches (Annex 1) SC9-IMO1 Annex rev1 CIM Catch history and predicted 2021 catches (Annex 1) SC9-IMO1 Annex rev1 CIM Catch history and predicted 2021 catches (Annex 1) SC9-IMO1 Annex rev1 CIM Catch history and predicted 2021 catches (Secretariat European Union Coean Union SC9-IMO1 Annex rev1 CIM Catch history and predicted 2021 catches (Secretariat European Union SC9-IMO1 Secretariat Secretariat SC9-IMO1 Secretariat Secretariat Secretariat Secretariat Secretariat Secretariat Secretariat Secretariat Secretar			Now Zooland
SC9-DW03 Templates for Fisheries Operation Plans SC9-DW04 Final report on NZ's exploratory fishery for toothfish New Zealand New Zealand Development of spatial management scenarios for Development of Development Development of Development of Development of Development Develop	3C9-DW01		New Zealand
SC9-DW05 Checklist for NZ Exploratory fishery for toothfish New Zealand SC9-DW06 rev1 Development of spatial management scenarios for bottom trawling Development of spatial management scenarios for bottom trawling Development of spatial management scenarios for bottom fisheries Design of a review process for VME encounters in bottom fisheries in the SPRFMO Area SC9-DW08 Instension of optimal move-on distance in SPRFMO New Zealand SC9-DW08 Instension to bottom fisheries in the SPRFMO Area SC9-DW09 rev1 New Zealand 2020 VME encounter review Process for VME tax (Department of the SPRFMO Area SC9-DW10 Updated candidate encounter triesholds for VME indicator tax in the SPRFMO Area SC9-DW11 Updated list of VME taxa (Incorporating FAO criteria) New Zealand SC9-DW12 Assessment on how ID guides for VME taxa could be developed Sc9-DW13 Development of a framework for providing advice on species of concern captures Sc9-DW14 Age data of orange roughy from the Lord Howe Rise Proposed Plan for an 2022 industry acoustic survey on species of concern captures Sc9-JM01 CIM Catch history and predicted 2021 catches (Annex 1) Sc9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches (Annex 1) Sc9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches (Annex 1) Sc9-JM03 MSE Project Update Genetics of Chilean jack mackerel in the SprEMO area Union European Union Sc9-JM04 Genetics of Chilean jack mackerel in the South Pacific Colle Catch-at-age and abundance-at-age using new criteria of Catch-at-age and abundance-at-age using ne	SC9-DW02	BFIA Addendum	New Zealand
SC9-DW05 Checklist for NZ Exploratory Fisheries Proposal CSP-DW06 rev1 Development of spatial management scenarios for bottom trawling CSP-DW07 Determination of optimal move-on distance in SPRFMO bottom fisheries CSP-DW08 Design of a review process for VME encounters in bottom fisheries in the SPRFMO Area CSP-DW09 rev1 New Zealand CSP-DW09 rev1 New Zealand CSP-DW10 Updated candidate encounter review New Zealand CSP-DW10 Updated candidate encounter thresholds for VME indicator taxa in the SPRFMO Area CSP-DW10 Updated is of VME taxa (incorporating FAO criteria) CSP-DW12 Assessment on how ID guides for VME taxa could be developed CSP-DW13 Development of a framework for providing advice on species of concern captures CSP-DW14 Age data of orange roughly from the Lord Howe Rise CSP-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait CSP-JM01 CIM Catch history and predicted 2021 catches CSP-JM02 GACATCH Interval Development of a provided Concern Captures CSP-JM03 MSE Project Update CSP-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean CSP-JM05 Catch-at-age and abundance-at-age using new criteria of age assignment CSP-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 COMMITTEE 2021 COMMITTEE 2021 COMMITTEE 2021 CATCH Adapting the concept of metapopulations to large scale pelagic habitats CSP-HM01 Peru Adapting the concept of metapopulations to large scale pelagic habitats CSP-HM01 Peru Adapting the concept of metapopulations to large scale pelagic habitats CSP-HM01 Peru Adapting the concept of metapopulations to large scale pelagic habitats CSP-HM01 Peru Adapting the concept of metapopulations to large scale pelagic habitats CSP-HM01 Peru Adapting the concept of metapopulations to large scale pelagic habitats CSP-HM02 Jack mackerel interannual habitat variability CSP-HM03 Vorticity and Jack mackerel catches CSP-HM04 Peru Adapting the concept of metapopulations to large scale pelagic habitats CSP-HM05 Classification of fleet by acoustic data collection capa	SC9-DW03	Templates for Fisheries Operation Plans	Secretariat
SC9-DW06_rev1	SC9-DW04	Final report on NZ's exploratory fishery for toothfish	New Zealand
SC9-DW07 Determination of optimal move-on distance in SPRFMO New Zealand Determination of optimal move-on distance in SPRFMO New Zealand Design of a review process for VME encounters in bottom fisheries in the SPRFMO Area Sc9-DW09 rev1 New Zealand 2020 VME encounter review New Zealand CO9-DW10 Updated candidate encounter thresholds for VME indicator taxis in the SPRFMO Area Sc9-DW10 Updated is of VME taxa (incorporating FAO criteria) New Zealand Sc9-DW11 Updated list of VME taxa (incorporating FAO criteria) New Zealand Assessment on how ID guides for VME taxa could be developed Assessment on how ID guides for VME taxa could be developed Operation of a framework for providing advice on species of concern captures Sc9-DW13 Development of a framework for providing advice on species of concern captures Sc9-DW14 Age data of orange roughy from the Lord Howe Rise New Zealand Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait Sc9-JM01 CJM Catch history and predicted 2021 catches Secretariat Sc9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches Secretariat Sc9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches Secretariat Sc9-JM03 MSE Project Update Union Sc9-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment Sc9-JM05 Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group Sc9-HM02 Jack mackerel interannual habitat variability Peru Peru Peru Peru Peru Peru Peru Peru	SC9-DW05	Checklist for NZ Exploratory Fisheries Proposal	New Zealand
Determination of optimal move-on distance in SPRFMO bottom fisheries SC9-DW08 Design of a review process for VME encounters in bottom fisheries in the SPRFMO Area SC9-DW09 rev1 New Zealand 2020 VME encounter review New Zealand SC9-DW10 Updated candidate encounter thresholds for VME indicator taxa in the SPRFMO Area SC9-DW11 Updated list of VME taxa (incorporating FAO criteria) Assessment on how ID guides for VME taxa could be developed Development of a framework for providing advice on species of concern captures SC9-DW14 Age data of orange roughy from the Lord Howe Rise SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on affonsinos and redbait SC9-JM01 SC9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches SC9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches SC9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches SC9-JM02 CPUE standardization for the offshore fleet fishing for Jack mackerel in the SPRFMO area SC9-JM03 MSE Project Update COEan Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM02 Jack mackerel interannual habitat variability Peru SC9-HM04 Peru SC9-HM05 Classification of fleet by acoustic data collection peru SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south Chile SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 Acoustic Equipment of the Purse Sei	CCO DWOC roul	Development of spatial management scenarios for	Australia/
SC9-DW08 Design of a review process for VME encounters in bottom fisheries in the SPRFMO Area SC9-DW09 rev1 New Zealand 2020 VME encounter review New Zealand CC9-DW10 Updated candidate encounter thresholds for VME indicator taxa in the SPRFMO Area SC9-DW11 Updated list of VME taxa (incorporating FAO criteria) SC9-DW12 Assessment on how ID guides for VME taxa could be developed Operation of a framework for providing advice on species of concern captures SC9-DW13 Development of a framework for providing advice on species of concern captures SC9-DW14 Age data of orange roughy from the Lord Howe Rise New Zealand SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-JM01 CJM Catch history and predicted 2021 catches Secretariat SC9-JM02 SC9-JM03 MSE Project Update Union SC9-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean SC9-JM05 Gatch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 Adapting the concept of metapopulations to large scale Union SC9-HM02 Jack mackerel interannual habitat variability Peru Peru Peru Peru Peru Peru Peru Peru	3C9-DW06_TeV1		New Zealand
fisheries in the SPREMO Area SC9-DW09_rev1 New Zealand 2020 VME encounter review New Zealand SC9-DW10 Updated candidate encounter thresholds for VME indicator taxa in the SPREMO Area SC9-DW11 Updated list of VME taxa (incorporating FAO criteria) New Zealand SC9-DW12 Assessment on how ID guides for VME taxa could be developed Development of a framework for providing advice on species of concern captures SC9-DW13 Development of a framework for providing advice on species of concern captures SC9-DW14 Age data of orange roughy from the Lord Howe Rise Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-JW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-JW16 CIM Catch history and predicted 2021 catches SC9-JW10 CIM Catch history and predicted 2021 catches Secretariat SC9-JW10 CPUE standardization for the offshore fleet fishing for Jack mackerel in the SPREMO area SC9-JW10 Genetics of Chilean jack mackerel in the South Pacific Ocean SC9-JW10 Genetics of Chilean jack mackerel in the South Pacific Ocean SC9-JW10 Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JW10 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HW10 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HW01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HW02 Jack mackerel interannual habitat variability Peru SC9-HW03 Vorticity and Jack mackerel catches Peru SC9-HW04 Habitat conditions for Jack and Chub mackerel in the Peru SC9-HW05 Classification of fleet by acoustic data collection capabilities SC9-HW06 Jack mackerel habitat studies SC9-HW07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HW09 Space-time dynamics of the Purse Seine Fleet of Central-South Chile SC9-HW09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile Dr	SC9-DW07	bottom fisheries	New Zealand
SC9-DW10 Updated candidate encounter thresholds for VME New Zealand SC9-DW11 Updated list of VME taxa (incorporating FAO criteria) New Zealand SC9-DW12 Assessment on how ID guides for VME taxa could be developed Assessment on how ID guides for VME taxa could be developed Development of a framework for providing advice on species of concern captures New Zealand SC9-DW14 Age data of orange roughy from the Lord Howe Rise New Zealand SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait New Zealand SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait Sc9-JM01 CJM Catch history and predicted 2021 catches Secretariat SC9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches (Annex 1) Secretariat SC9-JM02 CPUE standardization for the offshore fleet fishing for Jack mackerel in the SPRFMO area European Union SC9-JM03 MSE Project Update European Union Sc9-JM04 Genetics of Chilean jack mackerel in the South Pacific Chile SC9-JM05 Garetics of Chilean jack mackerel in the South Pacific Chile SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021 Chile SC9-HM01 Adapting the concept of metapopulations to large scale Dinion PFA self-sampling report for the SPRFMO Science Committee 2021 Chile SC9-HM02 Jack mackerel interannual habitat variability Peru Peru SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peru Per	SC9-DW08		New Zealand
indicator taxa in the SPRFMO Area SC9-DW11 Updated list of VME taxa (incorporating FAO criteria) Assessment on how ID guides for VME taxa could be developed Assessment on how ID guides for VME taxa could be developed SC9-DW13 Development of a framework for providing advice on species of concern captures SC9-DW14 Age data of orange roughy from the Lord Howe Rise Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-JM01 CJM Catch history and predicted 2021 catches SC9-JM02 CJM Catch history and predicted 2021 catches (Annex 1) Secretariat SC9-JM02 CPUE standardization for the offshore fleet fishing for Jack mackerel in the SPRFMO area SC9-JM03 MSE Project Update Cocean Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 SC9-HM02 Jack mackerel interannual habitat variability SC9-HM03 Vorticity and Jack mackerel catches Peru Habitat conditions for Jack and Chub mackerel in the Peru Peruvian Sea January 2020 to June 2021 SC9-HM06 Jack mackerel habitat studies Cal-HM06 Jack mackerel habitat studies Classification of fleet by acoustic data collection capabilities SC9-HM07 Space-time dynamics of the Jack mackerel fishery off South Chile SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile Chilean Jack mackerel from fishing vessels 2021 Chile Chilean Jack mackerel from fishing vessels 2021 Chile Chilean Jack mackerel from fishing vessels 2021 Chile Chile Co-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile Draft Terms of Reference for Habitat Monitoring	SC9-DW09 rev1	New Zealand 2020 VME encounter review	New Zealand
SC9-DW11 Updated list of VME taxa (incorporating FAO criteria) Assessment on how ID guides for VME taxa could be developed SC9-DW13 Development of a framework for providing advice on species of concern captures SC9-DW14 Age data of orange roughy from the Lord Howe Rise Assessment on a 2022 industry acoustic survey on alfonsinos and redbait SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-JM01 CJM Catch history and predicted 2021 catches SC9-JM01 Annex_rev1 CJM Catch history and predicted 2021 catches (Annex 1) Secretariat SC9-JM02 CPUE standardization for the offshore fleet fishing for Jack mackerel in the SPRFMO area SC9-JM03 MSE Project Update SC9-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean SC9-JM05 Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM02 Jack mackerel interannual habitat variability Peru SC9-HM03 Vorticity and Jack mackerel catches SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off Chile Spatial distribution and acoustic habitat monitoring of Chile Sc9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central South Chile SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central South Chile SC9-HM09 Draft Terms of Reference for Habitat Monitoring Chile	SC9-DW10	Updated candidate encounter thresholds for VME	New Zealand
Assessment on how ID guides for VME taxa could be developed SC9-DW13 Development of a framework for providing advice on species of concern captures SC9-DW14 Age data of orange roughy from the Lord Howe Rise New Zealand SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-JM01 CJM Catch history and predicted 2021 catches Secretariat SC9-JM01 CJM Catch history and predicted 2021 catches (Annex 1) Secretariat SC9-JM01 CJM Catch history and predicted 2021 catches (Annex 1) Secretariat SC9-JM02 CPUE standardization for the offshore fleet fishing for Jack mackerel in the SPRFMO area SC9-JM03 MSE Project Update SC9-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean SC9-JM05 Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM02 Jack mackerel interannual habitat variability Peru SC9-HM03 Vorticity and Jack mackerel catches Peru SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off Chile SC9-HM08 rev1 Spatial distribution and acoustic habitat monitoring of Chile SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 Draft Terms of Reference for Habitat Monitoring Chile	SC9-DW11		New Zealand
SC9-DW13 Development of a framework for providing advice on species of concern captures SC9-DW14 Age data of orange roughy from the Lord Howe Rise Australia/ New Zealand SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-JM01 CJM Catch history and predicted 2021 catches SC9-JM01 CJM Catch history and predicted 2021 catches (Annex 1) Secretariat SC9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches (Annex 1) Secretariat SC9-JM02 Development of the SPRFMO area SC9-JM03 MSE Project Update Union SC9-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean SC9-JM05 Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM02 Jack mackerel interannual habitat variability Peru Peru Peruvian Sea January 2020 to June 2021 SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 rev1 Space-time dynamics of the Jack mackerel fishery off chile SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 Draft Terms of Reference for Habitat Monitoring Chile			
SC9-DW14 Age data of orange roughy from the Lord Howe Rise SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-JM01 CJM Catch history and predicted 2021 catches SC9-JM01 CJM Catch history and predicted 2021 catches (Annex 1) Secretariat SC9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches (Annex 1) Secretariat SC9-JM02 Jack mackerel in the SPRFMO area SC9-JM03 MSE Project Update SC9-JM03 MSE Project Update SC9-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean SC9-JM05 Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM02 Jack mackerel interannual habitat variability Peru Peru SC9-HM03 Vorticity and Jack mackerel catches SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies SC9-HM07 Spatial distribution and acoustic habitat monitoring of Chile Sc9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 Draft Terms of Reference for Habitat Monitoring	SC9-DW12	_	New Zealand
SC9-DW15 Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait Proposed Plan for an 2022 industry acoustic survey on alfonsinos and redbait SC9-JM01 SC9-JM01 CJM Catch history and predicted 2021 catches SC9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches (Annex 1) SC9-JM02 CPUE standardization for the offshore fleet fishing for Jack mackerel in the SPRFMO area SC9-JM03 MSE Project Update Coean SC9-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean SC9-JM05 Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM02 Jack mackerel interannual habitat variability SC9-HM03 Vorticity and Jack mackerel catches SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 rev1 SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile Chile SC9-HM10	SC9-DW13		New Zealand
Jack Mackerel Working Group SC9-JM01 CJM Catch history and predicted 2021 catches SC9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches (Annex 1) SC9-JM02 CJMC Secretariat SC9-JM02 CJMC Secretariat SC9-JM03 MSE Project Update SC9-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean SC9-JM05 Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM02 Jack mackerel interannual habitat variability Peru SC9-HM03 Vorticity and Jack mackerel catches Peru SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 rev1 Spatial distribution and acoustic habitat monitoring of Chilean jack mackerel for Habitat Monitoring Chile SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 Draft Terms of Reference for Habitat Monitoring Chile	SC9-DW14		,
Sc9-JM01 CJM Catch history and predicted 2021 catches Secretariat	SC9-DW15		
SC9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches (Annex 1) Secretariat SC9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches (Annex 1) Secretariat SC9-JM02 CPUE standardization for the offshore fleet fishing for Jack mackerel in the SPRFMO area CPUE standardization for the offshore fleet fishing for Jack mackerel in the SPRFMO area CPUE SC9-JM03 MSE Project Update Coean Union CSC9-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean Union Catch-at-age and abundance-at-age using new criteria of age assignment CSC9-JM05 PFA self-sampling report for the SPRFMO Science Committee 2021 Committee 2022 Committee	Jack Mackerel Working	Group	
SC9-JM01 Annex rev1 CJM Catch history and predicted 2021 catches (Annex 1) Secretariat SC9-JM02 CPUE standardization for the offshore fleet fishing for Jack mackerel in the SPRFMO area SC9-JM03 MSE Project Update SC9-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM05 PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM02 Jack mackerel interannual habitat variability Peru SC9-HM03 Vorticity and Jack mackerel catches Peru Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 rev1 Spatial distribution and acoustic habitat monitoring of Chilean jack mackerel from fishing vessels 2021 SC9-HM09 Draft Terms of Reference for Habitat Monitoring Chile			Secretariat
SC9-JM02 CPUE standardization for the offshore fleet fishing for Jack mackerel in the SPRFMO area SC9-JM03 MSE Project Update Genetics of Chilean jack mackerel in the South Pacific Ocean SC9-JM05 Genetics of Chilean jack mackerel in the South Pacific Ocean SC9-JM05 Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM02 Jack mackerel interannual habitat variability Peru SC9-HM03 Vorticity and Jack mackerel catches SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 rev1 Spatial distribution and acoustic habitat monitoring of Chilean jack mackerel from fishing vessels 2021 SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM10 Draft Terms of Reference for Habitat Monitoring			
SC9-JM04 Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM02 Jack mackerel interannual habitat variability SC9-HM03 Vorticity and Jack mackerel catches SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 Draft Terms of Reference for Habitat Monitoring Chile		CPUE standardization for the offshore fleet fishing for	European
SC9-JM05 Catch-at-age and abundance-at-age using new criteria of age assignment SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM02 Jack mackerel interannual habitat variability SC9-HM03 Vorticity and Jack mackerel catches Peru SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 Draft Terms of Reference for Habitat Monitoring Chile			
age assignment SC9-JM06 PFA self-sampling report for the SPRFMO Science Committee 2021 Habitat Monitoring Working Group SC9-HM01 SC9-HM02 SC9-HM03 SC9-HM03 SC9-HM04 SC9-HM04 Beruvian Sea January 2020 to June 2021 SC9-HM05 SC9-HM05 SC9-HM06 SC9-HM06 SC9-HM07 SC9-HM07 SC9-HM07 SC9-HM08 SC9-HM08 SC9-HM08 SC9-HM08 SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM09 SC9-HM09 CIlie SC9-HM09 Acoustic Equipment of Reference for Habitat Monitoring Chile SC9-HM10 CIIIIE European Union European Union Chile Chile Chile Chile	SC9-JM03	MSE Project Update	· ·
PFA self-sampling report for the SPRFMO Science Committee 2021 Union		Genetics of Chilean jack mackerel in the South Pacific	Union
Adapting the concept of metapopulations to large scale pelagic habitats Union	SC9-JM04	Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of	Union Chile
Adapting the concept of metapopulations to large scale pelagic habitats SC9-HM02 Jack mackerel interannual habitat variability Peru SC9-HM03 Vorticity and Jack mackerel catches Peru SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 Classification of fleet by acoustic data collection capabilities SC9-HM05 SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 SC9-HM08 SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM10 Draft Terms of Reference for Habitat Monitoring Chile	SC9-JM04 SC9-JM05	Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science	Union Chile Chile European
SC9-HM02 SC9-HM03 Vorticity and Jack mackerel catches SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies European Union SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 rev1 SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM10 Draft Terms of Reference for Habitat Monitoring Chile	SC9-JM05 SC9-JM06	Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021	Union Chile Chile European
SC9-HM03 Vorticity and Jack mackerel catches SC9-HM04 Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 rev1 SC9-HM09 Sc9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM10 Draft Terms of Reference for Habitat Monitoring Chile	SC9-JM05 SC9-JM06 Habitat Monitoring Wo	Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021 Orking Group Adapting the concept of metapopulations to large scale	Union Chile Chile European Union European
Habitat conditions for Jack and Chub mackerel in the Peru Peruvian Sea January 2020 to June 2021 SC9-HM05 Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies European Union SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 rev1 SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM10 Draft Terms of Reference for Habitat Monitoring Chile	SC9-JM04 SC9-JM05 SC9-JM06 Habitat Monitoring Wo	Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021 Orking Group Adapting the concept of metapopulations to large scale pelagic habitats	Union Chile Chile European Union European Union
Classification of fleet by acoustic data collection capabilities SC9-HM06 Jack mackerel habitat studies SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 rev1 SC9-HM08 rev1 SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM10 Draft Terms of Reference for Habitat Monitoring Chile Chile	SC9-JM04 SC9-JM05 SC9-JM06 Habitat Monitoring Woods SC9-HM01 SC9-HM02	Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021 Orking Group Adapting the concept of metapopulations to large scale pelagic habitats Jack mackerel interannual habitat variability	Union Chile Chile European Union European Union Peru
SC9-HM06 Jack mackerel habitat studies Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08 rev1 SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM10 Draft Terms of Reference for Habitat Monitoring Chile	SC9-JM04 SC9-JM05 SC9-JM06 Habitat Monitoring Wo SC9-HM01 SC9-HM02 SC9-HM03	Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021 rking Group Adapting the concept of metapopulations to large scale pelagic habitats Jack mackerel interannual habitat variability Vorticity and Jack mackerel catches Habitat conditions for Jack and Chub mackerel in the	Union Chile Chile European Union European Union Peru Peru
SC9-HM07 Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 SC9-HM08_rev1 SC9-HM09 SC9-HM09 SC9-HM10 Spatial distribution and acoustic habitat monitoring of Chilean jack mackerel from fishing vessels 2021 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM10 Draft Terms of Reference for Habitat Monitoring Chile	SC9-JM04 SC9-JM05 SC9-JM06 Habitat Monitoring Woods SC9-HM01 SC9-HM02 SC9-HM03 SC9-HM04	Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021 rking Group Adapting the concept of metapopulations to large scale pelagic habitats Jack mackerel interannual habitat variability Vorticity and Jack mackerel catches Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 Classification of fleet by acoustic data collection	Union Chile Chile European Union European Union Peru Peru Peru
SC9-HM08 rev1 Spatial distribution and acoustic habitat monitoring of Chile Chilean jack mackerel from fishing vessels 2021 SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM10 Draft Terms of Reference for Habitat Monitoring Chile	SC9-JM04 SC9-JM05 SC9-JM06 Habitat Monitoring Woods SC9-HM01 SC9-HM02 SC9-HM03 SC9-HM04 SC9-HM05	Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021 orking Group Adapting the concept of metapopulations to large scale pelagic habitats Jack mackerel interannual habitat variability Vorticity and Jack mackerel catches Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 Classification of fleet by acoustic data collection capabilities	Union Chile Chile European Union European Union Peru Peru Peru Peru European
SC9-HM09 Acoustic Equipment of the Purse Seine Fleet of Central-South Chile SC9-HM10 Draft Terms of Reference for Habitat Monitoring Chile	SC9-JM04 SC9-JM05 SC9-JM06 Habitat Monitoring Wo SC9-HM01 SC9-HM02 SC9-HM03 SC9-HM04 SC9-HM05 SC9-HM05	Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021 Orking Group Adapting the concept of metapopulations to large scale pelagic habitats Jack mackerel interannual habitat variability Vorticity and Jack mackerel catches Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 Classification of fleet by acoustic data collection capabilities Jack mackerel habitat studies Space-time dynamics of the Jack mackerel fishery off	Union Chile Chile European Union European Union Peru Peru Peru Peru Peru European Union
SC9-HM10 Draft Terms of Reference for Habitat Monitoring Chile	SC9-JM04 SC9-JM05 SC9-JM06 Habitat Monitoring Work SC9-HM01 SC9-HM02 SC9-HM03 SC9-HM04 SC9-HM05 SC9-HM06 SC9-HM06	Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021 Orking Group Adapting the concept of metapopulations to large scale pelagic habitats Jack mackerel interannual habitat variability Vorticity and Jack mackerel catches Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 Classification of fleet by acoustic data collection capabilities Jack mackerel habitat studies Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 Spatial distribution and acoustic habitat monitoring of	Union Chile Chile European Union European Union Peru Peru Peru Peru Peru Curopean Union Chile
	SC9-JM04 SC9-JM05 SC9-JM06 Habitat Monitoring Woods SC9-HM01 SC9-HM02 SC9-HM03 SC9-HM04 SC9-HM05 SC9-HM06 SC9-HM07 SC9-HM07 SC9-HM08_rev1	Genetics of Chilean jack mackerel in the South Pacific Ocean Catch-at-age and abundance-at-age using new criteria of age assignment PFA self-sampling report for the SPRFMO Science Committee 2021 rking Group Adapting the concept of metapopulations to large scale pelagic habitats Jack mackerel interannual habitat variability Vorticity and Jack mackerel catches Habitat conditions for Jack and Chub mackerel in the Peruvian Sea January 2020 to June 2021 Classification of fleet by acoustic data collection capabilities Jack mackerel habitat studies Space-time dynamics of the Jack mackerel fishery off south central Chile 2004-2021 Spatial distribution and acoustic habitat monitoring of Chilean jack mackerel from fishing vessels 2021 Acoustic Equipment of the Purse Seine Fleet of Central-	Union Chile Chile European Union European Union Peru Peru Peru Peru European Union Chile Chile



Squid Working Grou	р	
SC9-SQ01 <u>rev1</u>	Update of Squid Datasets held by the Secretariat	Secretariat
SC9-SQ02	Summary of squid genetics programmes in SPRFMO	Squid WG
SC9-SQ03	Alternative Observer Programme for Peruvian artisinal vessels	Peru
SC9-SQ04	Squid on board monitoring results	Peru
SC9-SQ05	Using a state-space surplus production model to assess squid stock	China
SC9-SQ06	Genetic diversity and population structure of <i>Dosidicus</i> gigas	Chile
SC9-SQ07	Genetic analysis Dosidicus gigas	Peru
SC9-SQ08	Stock assessment jumbo squid in Ecuador	Ecuador
Observer papers		
SC9-Obs01	Precautionary approach and ecosystem approach in the context of prevention of SAI on VME	DSCC
		DSCC DSCC
SC9-Obs01	context of prevention of SAI on VME VMEs, Communities and Indicator Species - Confusing	2000
SC9-Obs02	context of prevention of SAI on VME VMEs, Communities and Indicator Species - Confusing concepts for conservation of seamounts	DSCC
SC9-Obs01 SC9-Obs02 SC9-Obs03	context of prevention of SAI on VME VMEs, Communities and Indicator Species - Confusing concepts for conservation of seamounts CALAMASUR - Position statement Regional stock assessment of the flying jumbo squid in the South-Eastern Pacific - a conceptual proposal	DSCC CALAMASUR
SC9-Obs01 SC9-Obs02 SC9-Obs03 SC9-Obs04	context of prevention of SAI on VME VMEs, Communities and Indicator Species - Confusing concepts for conservation of seamounts CALAMASUR - Position statement Regional stock assessment of the flying jumbo squid in the South-Eastern Pacific - a conceptual proposal	DSCC CALAMASUR
SC9-Obs01 SC9-Obs02 SC9-Obs03 SC9-Obs04 Late papers (pending	context of prevention of SAI on VME VMEs, Communities and Indicator Species - Confusing concepts for conservation of seamounts CALAMASUR - Position statement Regional stock assessment of the flying jumbo squid in the South-Eastern Pacific - a conceptual proposal acceptance under Agenda item 1b) Updating information associated with age and growth of jack	DSCC CALAMASUR CALAMASUR