Species: Blue shark (Prionace glauca), North Pacific Population

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Instruction instruction of the species of the	(1)	Biological characteristic and life history of the species	Life span of blue shark in the Pacific Ocean is generally estimated to be over 20 years old. The
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Image: constraint of the species Dear both the particle fully include. The particle fully include the parting include fully include the particle fully include the partin			reproductive cycle is estimated as one year (annual). The precaudal length at maturity is between
Image: Instrument is a starting of the spectra starting			140-160 cm for both sexes, and it corresponds to 6 years old for females and 5 years old for males.
Image: Instrument is a starting of the spectra starting	(2)	Distribution range of the species (historical and present)	Blue shark is distributed from tropical to temperate waters globally. In particular, high abundance is
(ii) Monitoring of the species status (iii) Construction of the species (iii)			observed in temperate waters.
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Image: Second control in the second control			results shows that the median of the annual spawning stock biomass (SSB) had a steadily
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1 The indicate the current stock status and by (BLS 7) probability on the anomination of the content status and the current stock status and by (BLS 7) probability (B			0 recruitment is estimated to be relatively stable around 10 million individuals except for 1988.
Image: Index of the second s			Median female SSB in 2020 is estimated to be 1.170 of SSBMSY (80% confidence interval : 0.570-
In the monotonic of the sector of t			1.776) . This indicates that the current stock status is likely (63.5% probability) not in an overfished
Image: Control (Control) The set of the species The species The set of the species The specis The species The spe			condition relative to Maximum Sustainable Yield (MSY)-based reference points. Recent annual
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Image: Interpret Amplify State (Section 2014) Particular of the species accurate product management measures for the species accurate product management measures accurate product management measures accurate product measures accore product measures accurate product measures accur			ute stock is very likely (91.9% probability) not occurring relative to MSY-based reference points. As a conclusion of stock assessment, there is a 61.0% joint probability that this stock is not in an
City Threads to the species Bigstach by tuns longine finany addition and montally rate of the species (i) Threads to the species Bigstach by tuns longine finany addition and montally rate of the species (ii) Compliance situation of the management measures Compliance situation of the management measures (iii) Compliance situation of the management measures Compliance situation of the management measures (iii) Compliance situation of the management measures Compliance situation of the management measures (iii) Compliance situation of the management measures Compliance situation of the management measures Compliance situation of the management measures (iii) Compliance situation of the management measures Social compliance situation of the management measures Social compliance situation of the management measures (iii) Community of the note of the species in the compliance situation of the species in the specis in the species in the species in the species in th			overfished condition and that overfishing is not occurring relative to MSY based reference points
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 (b) Filterized and present minimum containing the of the species including proposed minipum trinseases of the species adaption of their management measures (c) Compliance attuation of the management measures (f) <	(4)	Threats to the species	Bycatch by tuna longline fishery etc.
Introduced and proposed mixagement measures for the spocies Optimizer shallow of the management measures officine shallow set tongline fibery trains project seasionally. The total annual landings at management measures (7)	(4)	Historical and present fishing situation and mortality rate of the species	A large number of blue sharks are mainly caught by tuna longline fisherv as bycatch, but Japanese
 (b) Compliance situation of the management measures (c) Compliance situation of the management measures (d) Compliance situation of the management measures (e) Compliance situation of the management measures (f) Compliance situation of the management measures (and the species in compliance situation of the management measures (and the species in compliance sin compliance situation of the management measures (and the s	(0)		
(7) Currently, at thus Regional Piskery Management Organization (EPMOs) obligate the full difficultion of the full difficultion of the second se	(6)		main fishing ports in Japan range 5,100~16,100 tons (mean: 10,186 tons) from 1992 to 2022.
Padic Fahreise Commission (WCPFC), commission Members, Cooperating Non-Members and Padic Padicipaling Territories (COM) shall arrequine the vessels to ind athating with fin situating attached to the causates and 10 CMm may late advect the management these is to be an the shark lines, and 2 (CMm shall develop and requires the vessels to ind athating the response to the shark lines, and 2 (CMm shall develop and requires the variable of the species in the data share to the species in the data			Currently, all tuna Regional Fishery Management Organizations (RFMOs) obligate the full utilization
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2024. (10) Continuity of the role of the species in the acceptem Unknown. (11) Effects of allegal trade on the survival of the species Unknown. (11) Effects of allegal trade on the survival of the species on the information to magrage the stabilishment on the information to magrage the stabilishment or calculated on a farmed table, theme it is a trade on the species including the export is less than the amount of the TAC. (11) When ADF is a testabilishment or calculated on a farmed series on scientific bases, the present table calculated on a farmed series on scientific bases is difficult, but the stock testa difficult is on the approach. The species on scientific bases is difficult and is it phoese in trade calculate on a farmed through the management measures which have been introduced or will be introduced in the near table. (12) In case that estabilishment or calculation of a TAC of the species on scientific bases is difficult and is it phoese in the species on scientific bases is difficult and is in phoese. It has table introduced in the near table. (13) In case that estabilishment or calculation of a TAC of the species to the management measures, the following its management measures which have been introduced or will be introduced in the near table. (14) In case that estabilishment or calculation of a TAC of the species as used in the species as used to a particle. (15) The discurse before the species is considered to a management measures. (16) In case that estabilishment of the effect of the species as order that the failing presure has been escapitated and the present mumber has been subbatriality decreased over a long preducta	1 1		In addition, the comprehensive conservation measures for the protection and sustainable
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	Productivity				
Parameters	Low	Middle	High		
Natural mortality rate (M)	M < 0.2	$0.2 \leq M \leq 0.5$	0.5 < M		
Intrinsic rate of Natural increase (R)	R < 0.14	$R < 0.14$ 0.14 $\leq R \leq 0.35$			
von Bertalanffy growth rate (K)	K < 0.15	0.15 ≦ K ≦ 0.33	0.33 < K		
Age at maturity (t mat)	8 < T mat	$3.3 \leq t mat \leq 8$	t mat < 3.3		
Maximum age (t max)	25 < T max	$14 \leq t \max \leq 25$	t max < 14		
Generation interval (G)	10 < G	$5 \leq G \leq 10$	G < 5		
Negligible level 1 (Recovery Index(Fr)=0.1)	0.7%	1.2.%2	1.8%3		

1 "negligible level" can be calculated as R*Fr/2 by the method of Wade 1998. 2 Median value of R is used as there are ranges. 3 0.35 is used as R

Species: Blue shark (Prionace glauca), South Pacific Population

	can be made when the specimen is:	
(1)	The specimen is collected before the listing in Appendix.	N/A
(2)	The specimen is not a nature origin such as:	
	Bred from parents collected before listing in Appendix. Bred from parents which were imported under the CITES procedures.	NIA
	 Bred from parents which were imported under the Child's procedures. Bred from parents which met the requirement of NDF. 	N/A
	Others (Bred under a robust technique which was proved to be able to make F2.)	
(3)	The specimen is collected from a part of an individual by a method without affecting the	
	survival of the individual (such as a specimen of biopsy sampling, an embryo,	N/A
	spermatozoa and so on).	
	The specimen is collected from a dead individual and it is reasonably considered that the death is not attributable to the specimen collector, e.g., a stranded whale. (A by-caught	
	individual is excluded from this category.)	N/A
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	n a specimen does not meet any criterion of paragraph 2 above, NDF should be basically on Biological characteristic and life history of the species	Life span of blue shark in the Pacific Ocean is generally estimated to be over 20 years old. The
` '	5	reproductive system is placental viviparity with mean litter size is 35.5 (range: 15~112) and the reproducti
		cycle is estimated as one year (annual). The precaudal length at maturity is estimated to be 170-190 cm for
		females and 190-195 cm for males.
(2)	Distribution range of the species (historical and present)	Blue shark is distributed from tropical to temperate waters globally. In particular, high abundance is observed in the temperate water.
(3)	Stock structure, status and trend of the species	Productivity of blue shark is higher than that of other pelagic sharks. The intrinsic rate of population
(8)	Monitoring of the species status	increase (median) estimated from matrix population model with consideration of sex and age was 0.384.
(9)	Conservation of the species	This estimate implies that the stock size can increase approximately 1.5 fold within one year in absence fickling important.
		fishing impacts. In 2021, stock assessments were conducted using an integrated model (Stock Synthesis : SS) and a
		surplus production model based on the logbook data provided by Japan, Taiwan and EU etc. between 19
		and 2020. Both models showed similar results. Based on the results and their associated information, the
		stock biomass in recent years has been highly likely increased and the fishing pressure in recent 10 years has decreased. The Scientific Committee of WCPFC advised that this stock is unlikely to be overfished
ļ		and it is unlikely that overfishing is occurring when considered against MSY.
ļ		
(4)	Threats to the species	Bycatch by tuna longline fishery etc.
(5)	Historical and present fishing situation and mortality rate of the species	A large number of blue sharks are mainly caught by tuna longline fishery as bycatch, but Japanese offshore
	Introduced and proposed management measures for the species	shallow-set longline fishery targets this species seasonally. The total landings at main fishing ports in Jap
(6)	Compliance situation of the management measures	ranges 5,100-16,100 tons (mean: 10,186 tons) from 1992 to 2022. Currently, all tuna Regional Fishery Management Organizations (RFMOs) obligate the full utilization of
(7)		sharks caught by fisheries and submission of those fishery data. Western and Central Pacific Fisheries
		Commission (WCPFC), Commission Members, Cooperating Non-Members and Participating Territories
		(CCMs) shall require their vessels to land sharks with fins naturally attached to the carcass or CCMs may take alternative measures such as keeping the removed fin and carcass within the same bag. In addition,
		was agreed that 1) CCMs shall ensure that their vessels comply with not to use or carry wire trace as
		branch lines or leaders; or not to use the shark lines, and 2) CCMs shall develop and report their
		management plans including the measures to limit the fishing at the level for longline fisheries targeting sharks.
		In addition, the comprehensive conservation measures for the protection and sustainable management o
		sharks was adopted at the Annual Meeting of IATTC in 2023. The alternative measures, which are same
		those adopted by the WCPFC, has been implemented since July 1, 2024.
(10)	Continuity of the role of the species in the ecosystem	Generally, it is assumed to be one of the top predators.
(11)	Fifte start of the set the set of	
	Effects of illegal trade on the survival of the species	Unknown.
When	n NDF is considered based on the information in paragraph 3 above, as a first step, items i	ii), v) and vi) of paragraph 3 should be considered in accordance with the following criteria in order. If these
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		Productivity				
Parameters	Low	Middle	High			
Natural mortality rate (M)	M < 0.2	$0.2 \leq M \leq 0.5$	0.5 < M			
Intrinsic rate of Natural increase (R)	R < 0.14	$0.14 \leq R \leq 0.35$	0.35 < R 0.33 < К			
von Bertalanffy growth rate (K)	K < 0.15	$0.15 \leq \kappa \leq 0.33$				
Age at maturity (t mat)	8 < T mat	$3.3 \leq t mat \leq 8$	t mat < 3.3			
Maximum age (t max)	25 < T max	$14 \leq t \max \leq 25$	t max < 14			
Generation interval (G)	10 < G	$5 \leq G \leq 10$	G < 5			
Negligible level 1 (Recovery Index(Fr)=0.1)	0.7%	1.2.%2	1.8%3			

"negligible level" can be calculated as R*Fr/2 by the method of Wade 1998.
 Median value of R is used as there are ranges.
 0.35 is used as R

Species: Blue shark (Prionace glauca), Indian Ocean Population

	can be made when the specimen is:	
(2)	The specimen is collected before the listing in Appendix.	N/A
(2)	The specimen is not a nature origin such as: (1) Bred from parents collected before listing in Appendix.	
	Bred from parents collected before listing in Appendix. Bred from parents which were imported under the CITES procedures.	N/A
	3 Bred from parents which met the requirement of NDF.	19/23
	④ Others (Bred under a robust technique which was proved to be able to make F2.)	
(3)	The specimen is collected from a part of an individual by a method without affecting the	
	survival of the individual (such as a specimen of biopsy sampling, an embryo,	N/A
	spermatozoa and so on).	
(4)	The specimen is collected from a dead individual and it is reasonably considered that the	
	death is not attributable to the specimen collector, e.g., a stranded whale. (A by-caught	N/A
Vhe	individual is excluded from this category.) n a specimen does not meet any criterion of paragraph 2 above, NDF should be basically c	posidered, taking into account the following information:
	Biological characteristic and life history of the species	Mean generation time is estimated to be 8 to 10 years old. Reproductive system is placental
		viviparity with mean litter size is 38 (range: 4~135). Length at 50% maturity (total length) is
		estimated as 201 cm for males and 194 cm for females. Age at 50% maturity is estimated as 7
		years old for males and 6 years old for females.
	Distribution range of the species (historical and present) Stock structure, status and trend of the species	Blue shark is distributed from tropical to temperate waters globally, including the Indian Ocean. In the Indian Ocean Tuna Commission (IOTC) Working Party of Bycatch and Ecosystem in 202
	Monitoring of the species status	stock assessment was conducted using a length-based integrated model (Stock Synthesis: SS
	Conservation of the species	with data from 1950 to 2019.
(-)		The settings of the assessment models were reviewd and updated taking into account the
		uncertainty in the models and parameters. Uncertainty with respect to the stock status was
		evaluated by multi-variate-lognormal (MVLN) with 5000 draws from the joint distribution, and the
		result of the evaluation shows that stock status was not likely in overfished and overfishing was
		occurring with a 99.9 % probability.
		Six annual abundance indices (EU-Spain, EU-Portugal, Japan, Taiwan, South Africa, and Réun
		were used for the assessment. Some indices showed inconsistent trends, but the overall annual trande were flat and relatively stable. Inconese CDUE observed a large annual fluctuation, but the
		trends were flat and relatively stable. Japanese CPUE showed a large annual fluctuation, but th long-term trend was flat and relatively stable, which was the same as the overall annual trends.
		results of stock assessment showed that current stock status is not overfished and not overfish
		relative to MSY based reference points. From the result of the 10- year future projection, the
		probability that the level of stock (median of biomass) is above BMSY (41,988 tons) is high un
		the continuation of the catch level in 2019 (41,988 tons).
(4)	Threats to the species	Bycatch by tuna longline fishery etc.
(5)	Historical and present fishing situation and mortality rate of the species	A large number of blue sharks are mainly caught by tuna longline fishery as bycatch, but this
	Introduced and proposed management measures for the species	species is frequently caught as a target species by semi-industrial fishery other than industrial
(6)	Compliance situation of the management measures	longline and purse seine fishery, and artisanal fishery in the Indian Ocean. Japanese deep-set
(7)		longline fishery targeting bigeye tuna in tropical waters and Japanese shallow-set longline fishe
(7)		targeting southern bluefin tuna in temperate waters catch blue sharks as bycatch. Annual Japan
		catch of blue shark calculated from logbook data of longline fishery ranges from 300 to 2,700 to for 1994-2022.
		Currently, all tuna Regional Fishery Management Organizations (RFMOs) obligate the full utilizations
		of sharks caught by fishery and submission of fishery data. In relation to this resolution, IOTC
		adopted conservation and management measures for blue sharks in the Indian Ocean, includin
		for frozen product, retain of shark fin weighing over 5% of the total weight of sharks on board is
		for indeen product, retain of shark in weighing over 5% of the total weight of sharks on board is
		prohibited and in case shark fin and carcass are not landed simultaneously, it is necessary to ta
		prohibited and in case shark fin and carcass are not landed simultaneously, it is necessary to ta measures to ensure that shark fin weight is not over 5% of the total weight of sharks on board, a
		prohibited and in case shark fin and carcass are not landed simultaneously, it is necessary to ta measures to ensure that shark fin weight is not over 5% of the total weight of sharks on board, 2) for fresh product, the removal of shark fin from the body of sharks is prohibited.
	Continuity of the role of the species in the ecosystem Effects of illegal trade on the survival of the species	prohibited and in case shark fin and carcass are not landed simultaneously, it is necessary to ta measures to ensure that shark fin weight is not over 5% of the total weight of sharks on board, a
(11)	Effects of illegal trade on the survival of the species	prohibited and in case shark fin and carcass are not landed simultaneously, it is necessary to ta measures to ensure that shark fin weight is not over 5% of the total weight of sharks on board, a 2) for fresh product, the removal of shark fin from the body of sharks is prohibited. Generally, it is assumed to be one of the top predators.
(11) Vhei	Effects of illegal trade on the survival of the species	prohibited and in case shark fin and carcass are not landed simultaneously, it is necessary to ta measures to ensure that shark fin weight is not over 5% of the total weight of sharks on board, 2) for fresh product, the removal of shark fin from the body of sharks is prohibited. Generally, it is assumed to be one of the top predators. Unknown.), v) and vi) of paragraph 3 should be considered in accordance with the following criteria in orde
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Parameters	Productivity					
Parameters	Low	Middle	High			
Natural mortality rate (M)	M < 0.2	$0.2 \leq M \leq 0.5$	0.5 < M			
Intrinsic rate of Natural increase (R)	R < 0.14	$0.14 \leq R \leq 0.35$				
von Bertalanffy growth rate (K)	K < 0.15	$0.15 \leqq K \leqq 0.33$				
Age at maturity (t mat)	8 < T mat	$3.3 \leq t mat \leq 8$	t mat < 3.3			
Maximum age (t max)	25 < T max	$14 \leq t \max \leq 25$	t max < 14			
Generation interval (G)	10 < G	$5 \leq G \leq 10$	G < 5			
Negligible level 1 (Recovery Index(Fr)=0.1)	0.7%	1.2.%2	1.8%3			

1 "negligible level" can be calculated as R*Fr/2 by the method of Wade 1998. 2 Median value of R is used as there are ranges. 3 0.35 is used as R

Species: Blue shark (Prionace glauca), North Atlantic Population

(1) (2)	can be made when the specimen is:	
	The specimen is collected before the listing in Appendix.	N/A
	The specimen is not a nature origin such as:	
	Bred from parents collected before listing in Appendix. Bred from parents which were imported under the CITES procedures.	X 1/A
	 Bred from parents which were imported under the CTLES procedures. Bred from parents which met the requirement of NDF. 	N/A
	Others (Bred under a robust technique which was proved to be able to make F2.)	
	The specimen is collected from a part of an individual by a method without affecting the	
	survival of the individual (such as a specimen of biopsy sampling, an embryo,	N/A
,	spermatozoa and so on).	
	The specimen is collected from a dead individual and it is reasonably considered that the	
	death is not attributable to the specimen collector, e.g., a stranded whale. (A by-caught	N/A
	individual is excluded from this category.)	
Wher	n a specimen does not meet any criterion of paragraph 2 above, NDF should be basically	
(1)	Biological characteristic and life history of the species	Life span of blue shark is estimated to be over 20 years old. Reproductive system is placental viviparity with mean litter size is 37 for the North Atlantic stock. Length at 50% maturity (fork len
		is estimated to be 180.2 cm for males and 171.2 cm for females. Age at maturity is estimated to
		in the range between 4-7 years old.
(2)	Distribution range of the species (historical and present)	Blue shark is distributed from tropical to temperate waters globally. In particular, high abundance
(2)	Distribution range of the species (matorical and present)	observed in temperate waters.
(3)	Stock structure, status and trend of the species	Productivity of blue shark is higher than that of other pelagic sharks. The female intrinsic rate of
	Monitoring of the species status	population increase estimated from the Monte Carlo simulation based on age-structured matrix
(9)	Conservation of the species	model with consideration of-uncertainties in the biological parameters (age at maturity, life spa
		litter size, growth and natural mortality) was 0.31-0.44 per year. This estimate implies that the s
		size can increase approximately 1.36-1.55 fold within one year in absence of fishing impacts.
l		In the ICCAT stock assessment meeting in 2023, stock assessments were conducted by Just Another Bayesian Biomass
		Another Bayesian Biomass Assessment (JABBA) and integrated model (Stock Synthesis : SS3), using catch and CPUE
		(Catch per Unit Effort) data. The integrated index (B/Bmsy, F/Fmsy) of both models which were
		equally weighted showed that this stock was likely in MSY level and overfishing was not occur
l		
	Threats to the species	Bycatch by tuna longline fishery etc.
	Historical and present fishing situation and mortality rate of the species	Japanese deep-set longline fishery targeting bigeye tuna in tropical waters and Japanese shall
	Introduced and proposed management measures for the species Compliance situation of the management measures	set longline fishery targeting Atlantic bluefin tuna and swordfish in temperate waters catch blue shark as bycatch. Landings of blue shark by Japanese longline vessel calculated from logbook
(6)	compliance situation of the management measures	data from 1994 to 2022 range from 270 to 4,500 tons in the North Atlantic.
(7)		Currently, all tuna Regional Fishery Management Organizations (RFMOs) obligate the full
(.)		utilization of sharks caught by fishery and submission of fishery data. The ICCAT Annual Meeti
		in 2023 adopted management measures such as Total Allowable Catch (TAC) in the North Atla
		at 30,000 tons including national allocations to the main fishing countries (Japan's allocation: 3
		tons). This management measure has been implemented since 2024.
(10)	Continuity of the role of the species in the ecosystem	Generally, it is assumed to be one of the top predators.
	Effects of illegal trade on the survival of the species	Unknown. iii), v) and vi) of paragraph 3 should be considered in accordance with the following criteria in or
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Parameters	Productivity					
Parameters	Low	Middle	High			
Natural mortality rate (M)	M < 0.2	$0.2 \leq M \leq 0.5$	0.5 < M			
Intrinsic rate of Natural increase (R)	R < 0.14	$0.14 \leq R \leq 0.35$	0.35 < R			
von Bertalanffy growth rate (K)	K < 0.15	0.15 ≦ K ≦ 0.33	0.33 < K			
Age at maturity (t mat)	8 < T mat	$3.3 \leq t mat \leq 8$	t mat < 3.3			
Maximum age (t max)	25 < T max	$14 \leq t \max \leq 25$	t max < 14			
Generation interval (G)	10 < G	$5 \leq G \leq 10$	G < 5			
Negligible level 1 (Recovery Index(Fr)=0.1)	0.7%	1.2.%2	1.8%3			

 $1\,$ "negligible level" can be calculated as $R^*Fr/2$ by the method of Wade 1998. $2\,$ Median value of R is used as there are ranges. $3\,$ 0.35 is used as R

Species: Blue shark (Prionace glauca), South Atlantic Population

	can be made when the specimen is: The specimen is collected before the listing in Appendix.					N/A
(2)	The specimen is not a nature origin such as: ① Bred from parents collected before listing in Appendix.					
	2 Bred from parents which were imported under the CITES pro 3 Bred from parents which met the requirement of NDF.	ocedures.				N/A
	Others (Bred under a robust technique which was proved to	be able to make F2	2.)			
(3)	The specimen is collected from a part of an individual by a meth					A//A
	the individual (such as a specimen of biopsy sampling, an embr	ryo, spermatozoa a	na so on).			N/A
(4)	The specimen is collected from a dead individual and it is reaso not attributable to the specimen collector, e.g., a stranded what excluded from this category.)	onably considered t e. (A by-caught ind	hat the death is ividual is	N/A		
3 Whe	en a specimen does not meet any criterion of paragraph 2 above, Biological characteristic and life history of the species	, NDF should be ba	isically considered	d, taking into	account the following int	formation: to be over 20 years old. Reproductive system is placental viviparity with
(1)				mean litter	size is 37 for the North A	tahin sock. Length at 50% maturity (fork length) is estimated to be 180.2 iles. Age at maturity is estimated to be in the range between 4-7 years old
(2)	Distribution range of the species (historical and present)			Blue shark in temperat		al to temperate waters globally. In particular, high abundance is observed
(3) (8) (9)	Stock structure, status and trend of the species Monitoring of the species status Conservation of the species			increase es of uncertair was 0.22-0 within one In the ICCA Bayesian B CPUE (Cat The integra	timated from the Monte (tites in the biological para 34 per year. This estima year in absence of fishin IT stock assessment (JAU iomass Assessment (JAU ch per Unit Effort) data. ted index (B/Bmsy, F/Fm	han that of other pelagic sharks. The female intrinsic rate of population Carlo simulation based on age-structured matrix model with consideration ameters (age at maturity, life span, litter size, growth, and natural mortality the implies that the stock size can increase approximately 1.25-1.40 fold gimpacts. BBA) and integrated model (Stock Synthesis : SS3), using catch and msy) of both models which were equally weighted showed that this stock n, but overfishing was occurring.
	Threats to the species Historical and present fishing situation and mortality rate of the Introduced and proposed management measures for the specie Compliance situation of the management measures	species es		Japanese of fishery targ by Japanes the North A Currently, a caught by f As the 2022 previous T/ Total Allow the main fis	eting Atlantic bluefin tuna e longline vessel calcula tlantic. III tuna Regional Fishery ishery and submission of 3 stock assessment estin AC was maintained, the I able Catch (TAC) in the v shing countries (Japan's a	targeting bigeye tuna in tropical waters and Japanese shallow-set longline in temperate waters catch blue shark as bycarkol. Landings of blue shark ted from logbook data from 1994 to 2022 range from 180 to 3,500 tons in Management Organizations (RFMOs) obligate the full utilization of sharks
(10)	Continuity of the role of the species in the ecosystem			Generally,	t is assumed to be one o	If the top predators.
	an NDF is considered based on the information in paragraph 3 at trequirements in the criteria, the other items in paragraph 3 also					red in accordance with the following criteria in order. If these three items
(1)	When a TAC of the species is established or calculated on science	entific bases, the pre				
(2)	of the species including the export is less than the amount of th in case that establishment or calculation of a TAC of the specie the stock trend can be estimated for a certain period based on or not show a decreasing trend and the present total catch of the s than the average past catch amount of the species. (The length characteristic of the species.)	es on scientific base catch or other data species including th	the stock does e export is less			
(3)	In case that establishment or calculation of a TAC of the specie 5. ii) above is not applicable, the stock is considered to be main			<u> </u>	-	/
(4)	measures which have been introduced or will be introduced in t of the effect of the management measures, the following inform a) Protected areas are effectively established. b) Time closure is effectively established. c) It is estimated that the fishing pressure has been decreased i fishemen to catch the species is regulated and the number has a long period. d) Regulation of fishing gear is effectively established. e) Individuals smaller than a certain size are protected. f) Other effective management measures (such as release of fer restriction of power of light and so on) are established. g) Combination of above mentioned measures funct as release of for restriction of power of light and so on) are established. g) Combination is applicable, the annual catch amount of the against the estimated stock size. In estimating the stock size, It estimated, taking into account, inter alia, the past catch record, size and productivity of look-alike species as well as the catch a redicinery. The regligible lever's should in principle follow the ta productivity of the species. When any parameter of the species category, the species shull be fragarded as belonging to the catif the species is considered to be maintained under the present f stock enhancement activities for the species. NDF prior to trades within a cert comprehensive NDF) can be made when identification of look- a the species becomes worse etc., the comprehensive NDF may	ation should be con substantially becaus a been substantially emales, prohibition conservation effect is on scientific base e species is consid the minimum stock, the area of distribu amount and the ma able below, depend falls under a less egory. fishing activities bet ain period (hereina aike species is cles is considered to be esesment shows th	nsidered: use the number of r decreased over of bottom trawl, t. is is difficult and red negligible size should be size should be size should be productivity cause of the fter referred to as able to make	Blue shark Identificatio catch and/c or landing t and Statisti TAC for this plot with a	n of specimens is clearly r landing, etc., and copie o export are provided. In cs (SCRS) acknowledge s stock was also adopted 54% probability. As the n	in Appendix II as look-alike species at the CITES COP19 in 2022. possible because they are clearly possible to be identified at the time of so of all documentation to the transaction of the specimens from the catch addition, as described above 3(3), the Standing Committee on Research d that this stock was not overfished. Is to that the stock status in 2033 will be in the green quadrant of the Kobe ational management measures, in accordance with the Fishery Act es so that the total catch does not exceed the national allocation, and the
						Fisheries may issue an order for suspention of catching.
	Conclusion			I		NDF can be made.
	Parameters		Produc			4
		Low	Middle	,	High	

Parameters	Productivity				
Parameters	Low	Middle	High		
Natural mortality rate (M)	M < 0.2	$0.2 \leq M \leq 0.5$	0.5 < M		
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1 "negligible level" can be calculated as R*Fr/2 by the method of Wade 1998. 2 Median value of R is used as there are ranges. 3 0.35 is used as R