



North Pacific Fisheries Commission

NPFC-2022-SSC BFME03-IP02

Results of a monitoring survey for North Pacific armorhead in the Emperor Seamounts in 2022

In accordance with CMM 2021-05 for Bottom Fisheries and Protection of VMEs in the NW Pacific Ocean and the adaptive management plan, Japan conducted a monitoring survey for North Pacific armorhead (NPA) in the Emperor Seamounts in 2022. The purpose of the survey was to monitor the recruitment strength of the NPA stock. The fishing vessel Kaiyo Maru No.51 conducted four trawl hauls for at least one hour each in the Koko Seamount from March to June. Criteria for high recruitment of NPA have not been met in the survey. The results of the monitoring survey are presented in the tables below.

Monitoring survey data

Name of Member	Japan
Vessel name	KAIYO MARU No.51
Monitoring Block	Koko seamount
Starting date(YYYY-MM-DD) and time(JST)	2022/3/5 4:10
Ending date(YYYY-MM-DD) and time(JST)	2022/3/5 5:50
Starting location	N34°58'48" E171°49'40"
Ending location	N34°54'77" E171°52'85"
Nominal-CPUE(kg/hour)	27.2
Ratio of FI(body height(BH) / fork length(FL)) > 0.3 (%)	11
Comments	Not be cleared for the strong recruitment level

Annex 6-1. Criteria for strong recruitment of NPA

The criteria for one monitoring survey by trawl is as follows based on the best scientific knowledge available on trawl fishery (Nishida et al. (2016))
Trawl nominal CPUE > 10 t/ h and individuals of FI > 0.3 account for 80% or more.

Monitoring survey data

Name of Member	Japan
Vessel name	KAIYO MARU No.51
Monitoring Block	Koko seamount
Starting date(YYYY-MM-DD) and time(JST)	2022/4/22 2:45
Ending date(YYYY-MM-DD) and time(JST)	2022/4/22 4:25
Starting location	N34°58'51" E171°49'31"
Ending location	N34°54'03" E171°51'75"
Nominal-CPUE(kg/hour)	476.5
Ratio of FI(body height(BH) / fork length(FL)) > 0.3 (%)	32
Comments	Not be cleared for the strong recruitment level

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Trawl nominal CPUE > 10 t/ h and individuals of FI > 0.3 account for 80% or more.

Monitoring survey data

Name of Member	Japan
Vessel name	KAIYO MARU No.51
Monitoring Block	Koko seamount
Starting date(YYYY-MM-DD) and time(JST)	2022/5/10 0:50
Ending date(YYYY-MM-DD) and time(JST)	2022/5/10 2:20
Starting location	N34°59'35" E171°49'12"
Ending location	N34°55'60" E171°51'84"
Nominal-CPUE(kg/hour)	146.5
Ratio of FI(body height(BH) / fork length(FL)) > 0.3 (%)	9
Comments	Not be cleared for the strong recruitment level

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Trawl nominal CPUE > 10 t/ h and individuals of FI > 0.3 account for 80% or more.

Monitoring survey data

Name of Member	Japan
Vessel name	KAIYO MARU No.51
Monitoring Block	Koko seamount
Starting date(YYYY-MM-DD) and time(JST)	2022/6/5 1:40
Ending date(YYYY-MM-DD) and time(JST)	2022/6/5 3:10
Starting location	N34°59'10" E171°49'64"
Ending location	N34°54'80" E171°51'62"
Nominal-CPUE(kg/hour)	0
Ratio of FI(body height(BH) / fork length(FL)) > 0.3 (%)	17
Comments	Not be cleared for the strong recruitment level

Annex 6-1. Criteria for strong recruitment of NPA

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Trawl nominal CPUE > 10 t/ h and individuals of FI > 0.3 account for 80% or more.