

PROVISION OF SCIENTIFIC SERVICES

Alfonsino (Beryx splendens) OTOLITH READING

Date: October 18, 2019

Terms of Reference

The Consultant will determine ages of alfonsino (*Beryx splendens*) caught in the SIOFA area using annual rings of otoliths by sex and management unit area (EAST and WEST) by alfonsino experienced readers. Otoliths will be provided by three CCPs (Australia, Republish of Korea and Cook Island).

Annex - Plan of Otoliths reading

Tables 1-4 shows number of otoliths to be prepared by MoP, management unit (EAST and WEST), sex, and bin (size interval). Consultant will read target numbers shown in each Table.

Table 1 Number of otoliths (**EAST and MALE**) assigned to Australia and Cook Islands
Please note well for Australia using TL needs to change to FL by the conversion factor FL=0.84*TL

	EAST							
MALE								
	size range (cm)	#	To send					
bin#		AUS (FL converted from TL)	CI(FL)	Total	Target to read	Spare		
1	< 25	33	5	38	38	0		
2	25≤ <30	47	0	47	43	4		
3	30≤ <35	47	0	47	43	4		
4	35≤ <40	47	0	47	43	4		
5	40≤ <45	47	0	47	43	4		
6	45≤	37	10	47	43	4		
	Total	258	15	273	253	20		

Table 2 Number of otoliths (**EAST and FEMALE**) assigned to Australia and Cook Islands
Please note well for Australia using TL needs to change to FL by the conversion factor FL=0.84*TL

•	riease note wentor Australia using 12 needs to change to 12 by the conversion factor 12-0.04 12								
	EAST								
	FEMALE								
			# To send						
bin#	size range	AUS (FL		Total	Target to read	Spare			
DIII#	(FL) (cm)	conveted	CI(FL)						
		from TL)							
1	< 25	41	5	46	41	5			
2	25≤ <30	45	0	45	41	4			
3	30≤ <35	45	0	45	41	4			
4	35≤ <40	0	45	45	41	4			
5	40≤ <45	0	45	45	41	4			
6	45≤ <50	0	45	45	41	4			
7	50≤	1	5	6	6	0			
	Total	132	145	277	252	25			

Table 3 Number of otoliths (WEST and MALE) assigned to Australia, Cook Islands and Korea
Please note well for Australia and Korea using TL need
to change TL to FL by the conversion factor FL=0.84*TL

	WEST								
	MALE								
			#To s						
bin#	size range (cm)	AUS (FL		KOR (FL	Total	Traget to Spa	Spare		
		converted	CI (FL)	converted			Spare		
		from TL)		from TL)					
1	< 20	0	0	41	41	37	4		
2	20≤ <25	0	0	41	41	37	4		
3	25≤ <30	12	0	29	41	37	4		
4	30≤ <35	0	41	0	41	37	4		
5	35≤ <40	0	41	0	41	37	4		
6	40≤ <45	0	41	0	41	37	4		
7	45≤	0	41	0	41	37	4		
	Total	12	164	111	287	259	28		

Table 4 Number of otoliths (**WEST and FEMALE**) assigned to Australia, Cook Islands and Korea
Please note well for Australia and Korea using TL need
to change TL to FL by the conversion factor FL=0.84*TL

	WEST								
	FEMALE								
			# To :						
bin#	size range (cm)	AUS (FL		KOR (FL		Traget to	Spare		
Dill#		converted	CI (FL)	converted	Total	read	Sparc		
		from TL)		from TL)					
1	< 20	0	0	42	42	38	4		
2	20≤ <25	0	0	42	42	38	4		
3	25≤ <30	0	0	42	42	38	4		
4	30≤ <35	0	42	0	42	38	4		
5	35≤ <40	0	42	0	42	38	4		
6	40≤ <45	0	42	0	42	38	4		
7	45≤	3	19	0	22	22	0		
Total		3	145	126	274	250	24		