



6.5 Direct Age Estimation

Purpose

To discuss further otolith readings to improve the consistency in otolith interpretations. To review member's recent activities which were encouraged by the 7th Meeting of Scientific Committee and to consider the standardised and coordinated otolith sampling program.

Background

The Direct Age Estimation Workshop was held in Queenscliff, Australia on 11-14 June 2002. At the workshop, age estimation techniques were reviewed and substantial increases in consistency were achieved in readings between participants. By the end of the workshop it was concluded that the various members were all capable of providing reasonably consistent SBT otolith interpretations.

At the SC7, a second otolith exchange was initiated and the results have been exchanged by members. The results of the exchange are at Attachment A. The content of a SBT age determination manual was agreed by members last March.

The SC7 meeting also considered the standardised and coordinated otolith sampling program, but agreed further consideration of objectives and sampling program design should be deferred to the next SC meeting. However, the SC7 meeting agreed to pay immediate attention to the following:

- Encourage new members to establish SBT otolith collection and interpretation programs for their fisheries.
- Encourage members that already have otolith collection systems to implement regular interpretation of these otoliths, using the techniques agreed to at the direct ageing workshop.
- Develop a centralised database for storage of otolith age readings within the CCSBT Secretariat.
- Encourage members to prepare and submit initial draft proposals on objectives and sample design for otolith collection programs to the next SC meeting.

Discussion

2nd Otolith Exchange

The Scientific Committee discusses the results of 2nd otolith exchange to improve consistency of otolith interpretations.

Member's Activities (this might overlap agenda item 6.9)

The Scientific Committee review recent member's activities which were encouraged by SC7 and consider a standardised and coordinated otolith sampling program by all members.

Age Determination Manual

The Scientific Committee is invited to discuss the age determination manual for formal approval at CCSBT10.

Prepared by the Secretariat

Identification number for the	Individual Number	length	Results of Members					Average
			Australia	Japan	Korea	New Zealand	Taiwan	
ID1	ID2							
	(New Zealand)							
SBT-NZ01	SBT/NZ/001	181	22	19	15	22	16	18.8
SBT-NZ02	SBT/NZ/003	163	10	10	10	15	12	11.4
SBT-NZ03	SBT/NZ/004	126	5	8	7	6	8	6.8
SBT-NZ04	SBT/NZ/005	150	7	8	7	8	9	7.8
SBT-NZ05	SBT/NZ/006	168	14	14	14	17	16	15.0
SBT-NZ06	SBT/NZ/009	167	11	11	12	12	11	11.4
SBT-NZ07	SBT/NZ/011	157	10	10	9	10	11	10.0
SBT-NZ08	SBT/NZ/012	133	5	5	6	9	9	6.8
SBT-NZ09	SBT/NZ/013	128	5	5	5	7	8	6.0
SBT-NZ10	SBT/NZ/014	135	6	7	6	7	7	6.6
SBT-NZ11	SBT/NZ/015	119	4	5	4	5	7	5.0
SBT-NZ12	SBT/NZ/016	154	10	12	10	13	11	11.2
SBT-NZ13	SBT/NZ/017	126	5	5	5	6	5	5.2
SBT-NZ14	SBT/NZ/018	158	12	12	12	16	13	13.0
SBT-NZ15	SBT/NZ/019	107	4	4	3	5	4	4.0
SBT-NZ16	SBT/NZ/020	122	3	4	4	6	4	4.2
SBT-NZ17	SBT/NZ/021	128	4	6	5	5	7	5.4
SBT-NZ18	SBT/NZ/022	120	5	5	5	6	5	5.2
SBT-NZ19	SBT/NZ/024	117	5	8	7	8	9	7.4
SBT-NZ20	SBT/NZ/025	166	10	11	10	17	14	12.4
	(Japan)							
SBT-JA01	1661	120	5	6	5	6	6	5.6
SBT-JA02	1671	110	4	6	6	6	5	5.4
SBT-JA03	1691	171	20	19	12	16	21	17.6
SBT-JA04	1701	159	8	8	8	11	10	9.0
SBT-JA05	1711	176	12	13	11	13	14	12.6
SBT-JA06	1731	102	4	5	4	3	12	5.6
SBT-JA07	1741	165	13	12	12	12	18	13.4
SBT-JA08	1751	156	6	10	9	10	10	9.0
SBT-JA09	1761	110	5	6	3	4	5	4.6
SBT-JA10	1771	120	5	7	5	7	7	6.2
SBT-JA11	1781	150	7	11	8	10	12	9.6
SBT-JA12	1791	164	9	10	9	9	13	10.0
SBT-JA13	1801	166		7	9	9	9	6.8
SBT-JA14	1811	144	7	8	5	7	7	6.8
SBT-JA15	1821	146	8	6	8	12	8	8.4
SBT-JA16	1831	147	7	7	9	8	9	8.0
SBT-JA17	1841	133	6	5	7	5	7	6.0
SBT-JA18	1851	138	7	7	8	8	8	7.6
SBT-JA19	1861	114	5	5	6	5	6	5.4
SBT-JA20	1871	93	4	3	3	3	5	3.6
	(Australia)							
SBT-AU01	5233	188	33	29	26	18	32	27.6
SBT-AU02	5239	189	32	26	19	25	30	26.4
SBT-AU03	5259	180	28	20	14	20	28	22.0
SBT-AU04	10640	177	24	24	25	24	25	24.4
SBT-AU05	10703	167	12	11	9	12	12	11.2
SBT-AU06	13192	169	13	13	13	13	14	13.2
SBT-AU07	10979	158	10	10	7	9	4	8.0
SBT-AU08	11024	174	20	22	16	22	17	19.4
SBT-AU09	11027	172	14	11	10	12	10	11.4
SBT-AU10	11028	190	26	29	24	25	30	26.8
SBT-AU11	12441	178	18	21	21	21	19	20.0
SBT-AU12	12470	175	16	13	13	17	13	14.4
SBT-AU13	12476	180	22	22	15	21	30	22.0
SBT-AU14	13253	147	9	10	8	10	8	9.0
SBT-AU15	5271	130	6	6	6	7	5	6.0
SBT-AU16	5273	135	7	6	8	8	5	6.8
SBT-AU17	6949	123	5	6	5	4	4	4.8
SBT-AU18	6950	114	4	9	6	4	2.5	5.1
SBT-AU19	7203	99	3	4	3	2	3	3.0
SBT-AU20	9359	185	30	30	14	28	29	26.2



