



SBT Gene-tagging research workplan 2025-2027

Ann Preece | 2024 ESC



CCSBT Gene-tagging – recruitment monitoring program

- Gene-tagging design study 2015



- Tagging – 8 years completed – 2016-2024 (2020 missing) – stage 1
- Harvest sampling (1 year lag), 7 completed – stage 2
- ~20,000 tissue samples processed per year – stage 3

- Data are essential for use in Cape Town Procedure

Gene-tagging workplan for 2025-2027

- Modified workplan to decrease costs
 - Fewer days at sea – 20 days reduced to 15 days
 - Risks:
 - Tagging the target number of fish.
 - Limited opportunity if difficulties in finding fish, bad fishing weather
 - Limits distribution of tagged fish spatially and temporally
 - Max number of tissue samples (tagging + harvest) up to 20,000 reduced to 15,000
 - Risks:
 - Limits flexibility to collect extra samples at harvest to compensate for not reaching target during tagging (to maintain precision of the estimate)
 - Doesn't allow for (small) losses from poor tissue collection or genotyping

Budget (CCSBT component only)

Budget	Modified workplan	2025 (AUD\$)	2026	2027
Stage 1: Vessel charter, tagging & supplies	Shorter vessel charter: 1 trip, 15d. Fish tagged: target 5,000 - max 8,000.	\$390,000	\$390,000	\$390,000
Stage 2 and 3: Harvest tissue collection, lab processing, genotyping, data analysis	Max tissue samples collected (harvest + tagging): 15,000 samples.	\$390,000	\$395,000	\$395,000
TOTAL		\$780,000	\$785,000	\$785,000



Thank you

Photos: Russ Bradford, Jess Farley