Seabird return Protocols

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Increasing efficiency and cost effectiveness



Between 100 and 400 seabirds returned for autopsy each year

Based on 5000 and 7000 days

BUT...

Increasing to over 10,000 days

Trade off between cost savings and minimising data loss

Challenges:

Manageable Representative Cost effective 4 Species make up about 85% of returns

White-chinned petrels White-capped albatross Sooty shearwaters Buller's albatross



Some Givens:

Everything photographed

Anything uncertain returned

All banded / tracked birds returned

All penguins returned (PIT tags)





Option 1: Status Quo

All seabirds returned

Around 307 seabirds returned

257 form 'big 4' species

Option 2: First individual returned

Remainder of identifications confirmed by photograph

161 birds returned

Even sampling but loss of information for more rarely encountered species <u>Option 2a: For commonly bycaught</u> <u>species first individual returned</u>

As with Option 2 but all rarely caught seabirds returned

183 birds returned

133 from the 'big 4 species'

<u>Option 3: For commonly bycaught species</u> <u>only photographs taken</u>

Dependant on observers ability

Potentially only 52 birds returned

2 from the 'big 4 species' (banded)

Greatest loss of data on condition and stomach contents

<u>Option 4: For commonly bycaught species</u> <u>only return birds from sample trips</u>

Allows representative sampling

Sample half of trips: 175 birds (123 form the 'big 4')

Sample 1 in 5 trips 130 birds (78 from the 'big 4')



Highly dependant on observer ID

Risks for cryptic species - Short tailed shearwaters

Feathers/ other samples

Photography protocols

Other Risks / benefits?

