

VOICES FROM THE DEEP

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a.k.a.

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SCIENCE

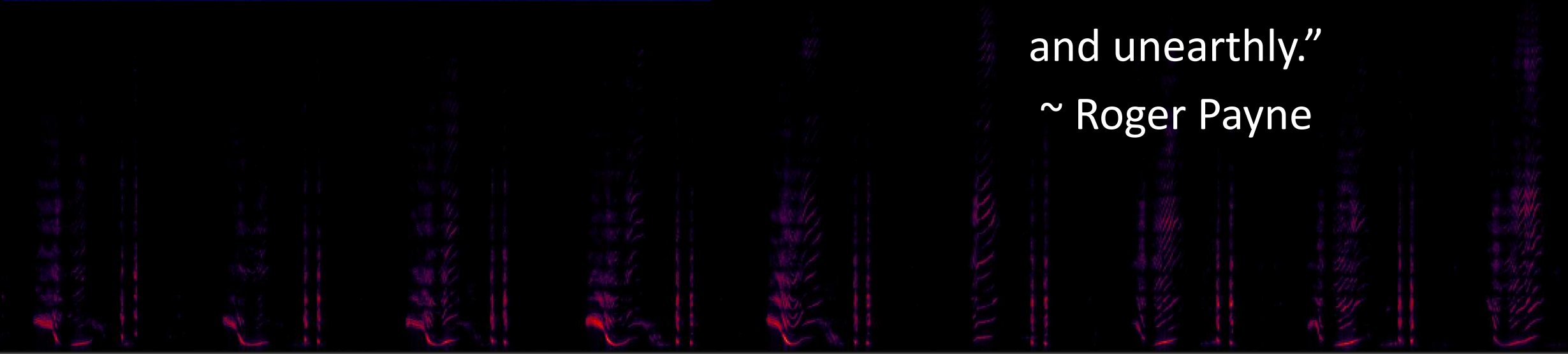
Songs of Humpback Whales

Humpbacks emit sounds in long, predictable patterns ranging over frequencies audible to humans.

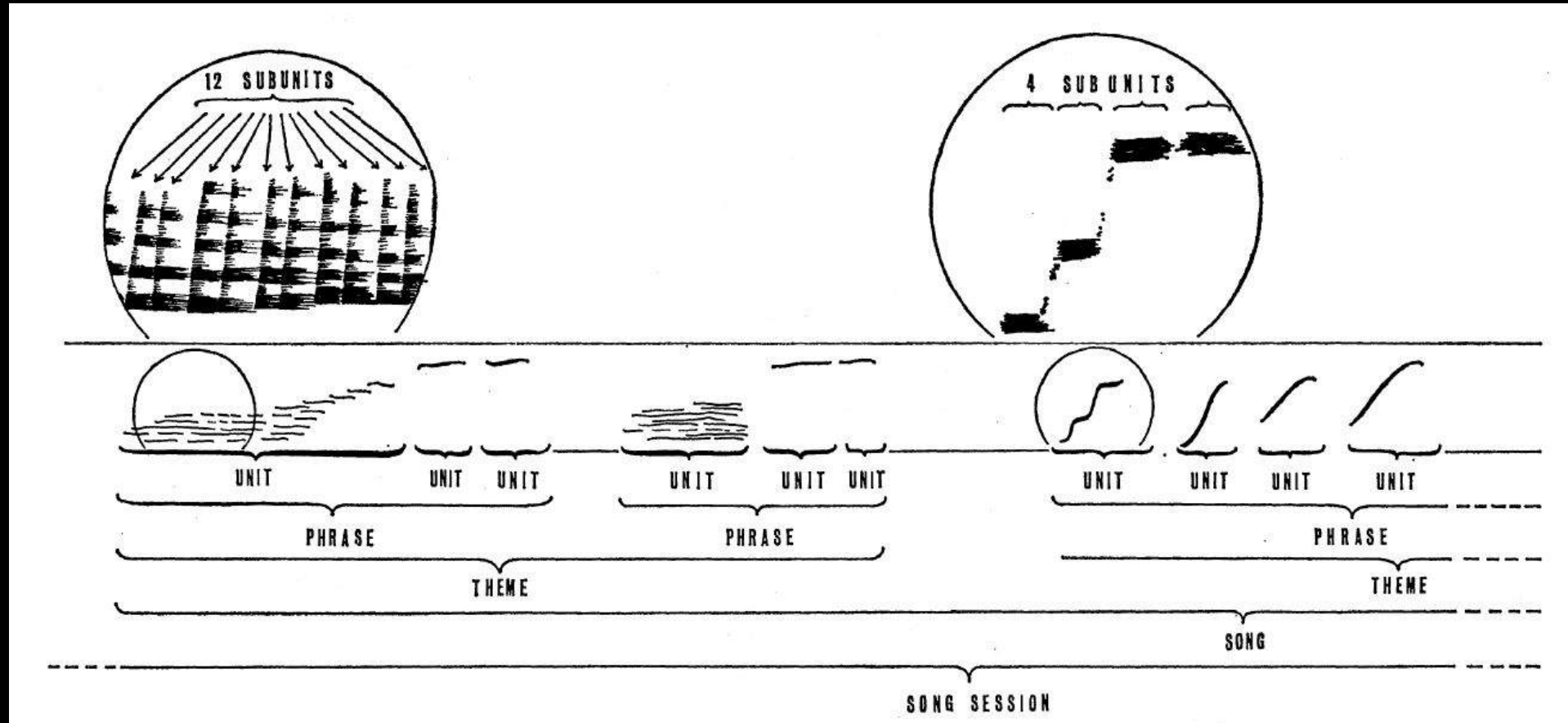
Roger S. Payne and Scott McVay

“That’s what whales do;
They give the ocean its voice,
And the voice they give it is ethereal
and unearthly.”

~ Roger Payne



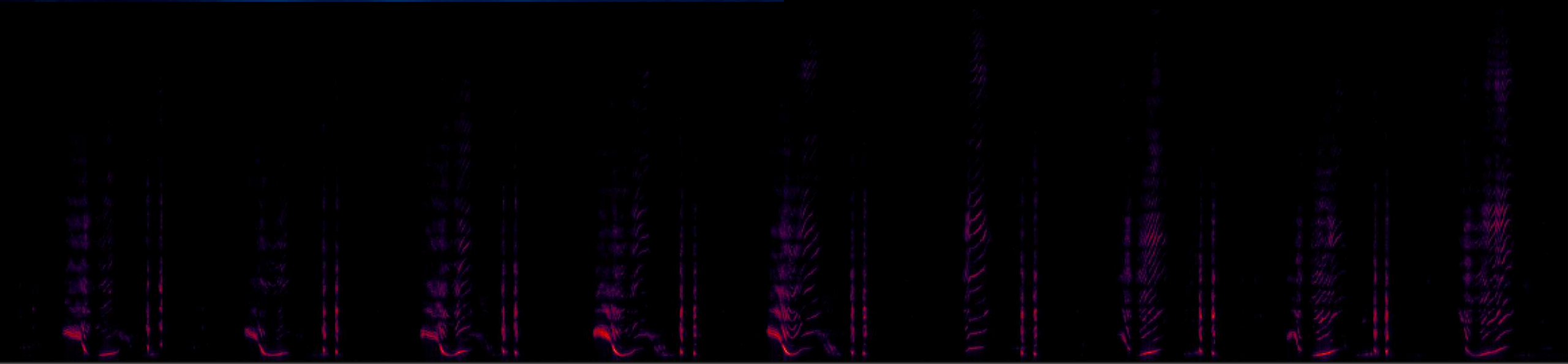
Humpback whale song structure





Function(s) of humpback whale song

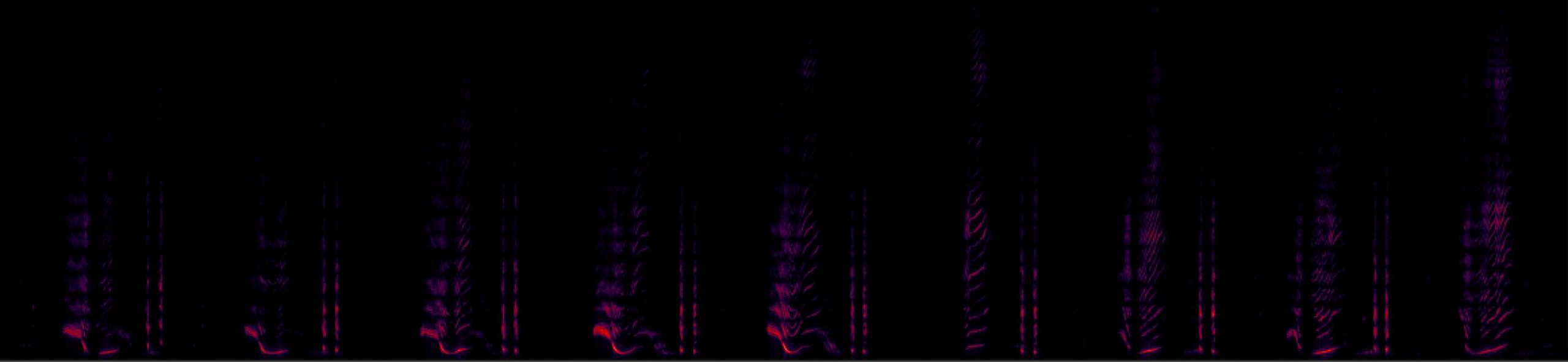
- Sexual selection is a leading hypothesis
- Inter-sexual function?
- Intra-sexual function?
- Song as a multi-message signal?



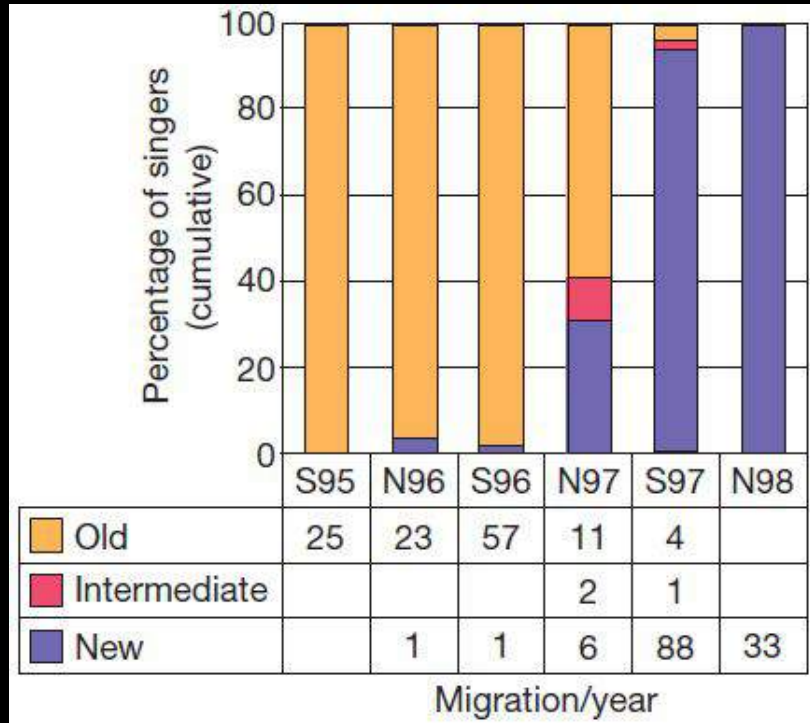


Geographic variation and evolution of songs

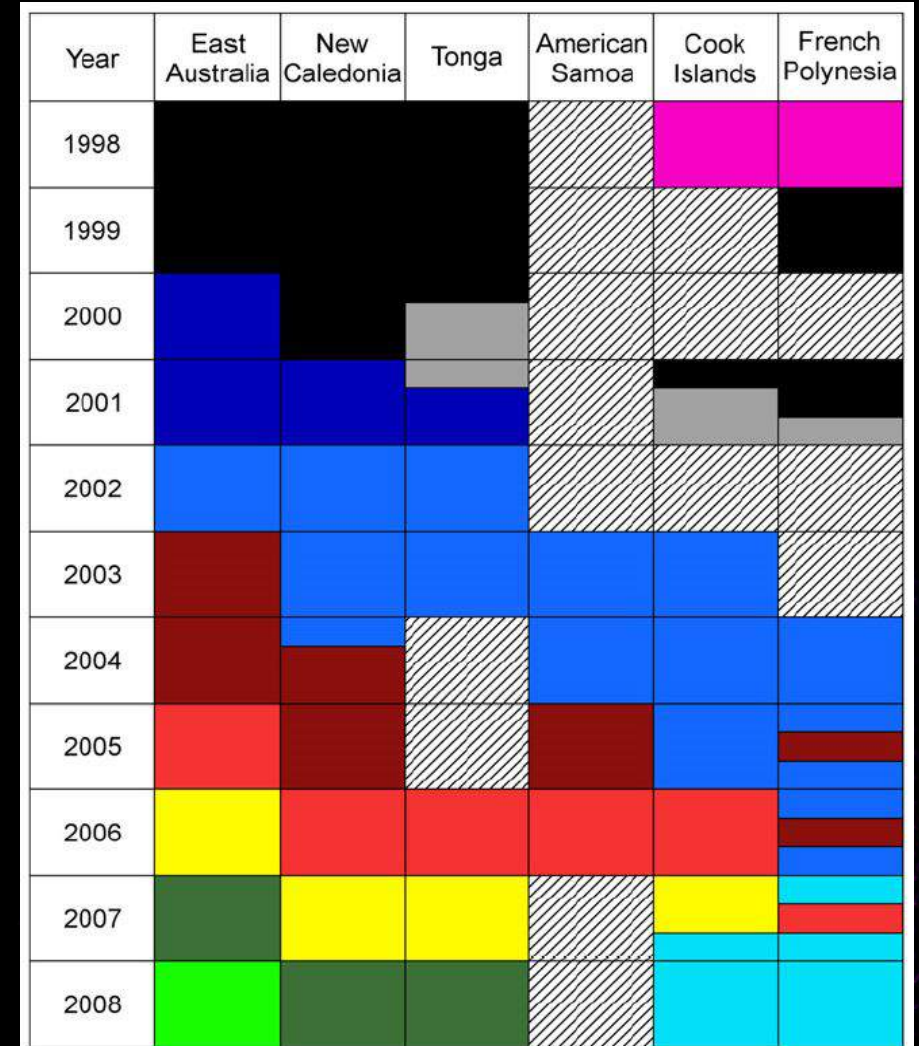
- Each population has their own song type that evolves over time
- Song sharing between populations
- Song revolutions and horizontal cultural transmission



Garland *et al.* 'Dynamic cultural transmission of humpback whale song at the ocean basin scale'
Current Biology **21**, 8 (2011)



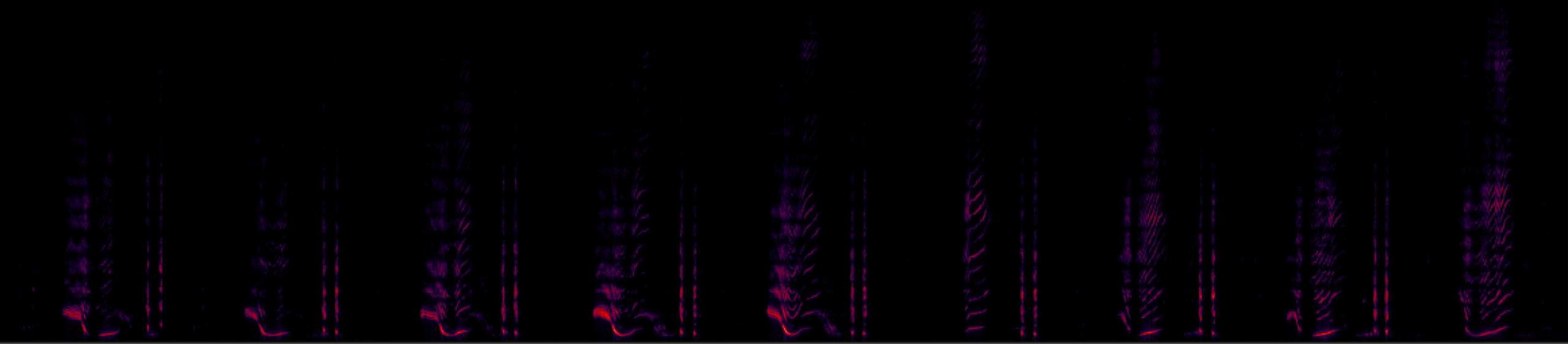
Noad *et al.* 'Cultural revolution in whale songs' *Nature* **408**, 537 (2000)



How whales learn their songs?

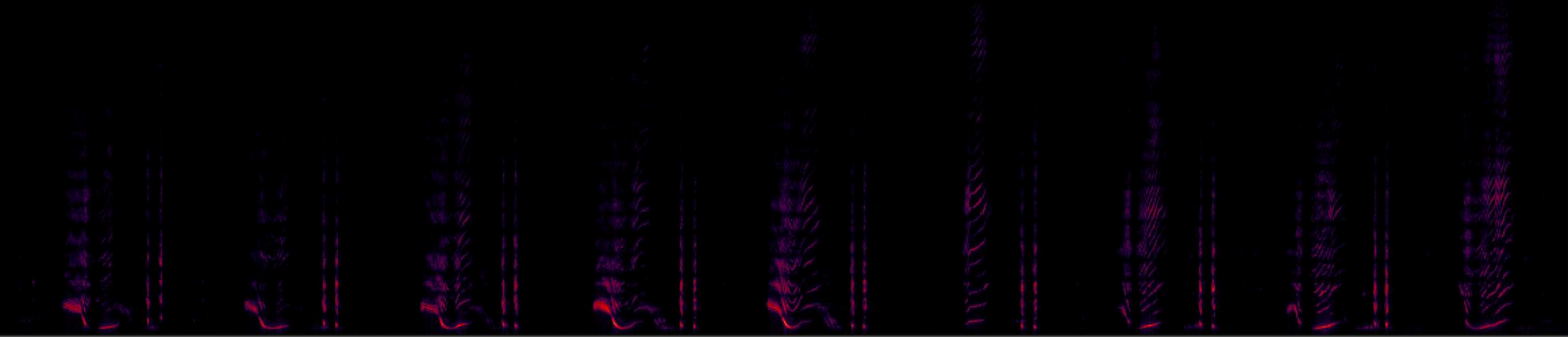
How and why do these songs change?

How age influences song learning and production?



PhD @University of St Andrews

Humpback whale song ontogeny, evolution & vocal learning





Inner child

Inner Child believes that scientists and artists are like kids that never quite grew up, and she is a bit of both.

Combining science and art, she is in constant pursuit of innovative approaches to education about wonders of nature and its conservation.

Inner Child hopes to reawake as many inner children as she can, bring to surface their natural curiosity and engage them in the quest for new knowledge, skills and experiences.

“All grown-ups were once children... but only few of them remember it.”



<https://youtu.be/29686gvte78>

Inner child

PRESENTS

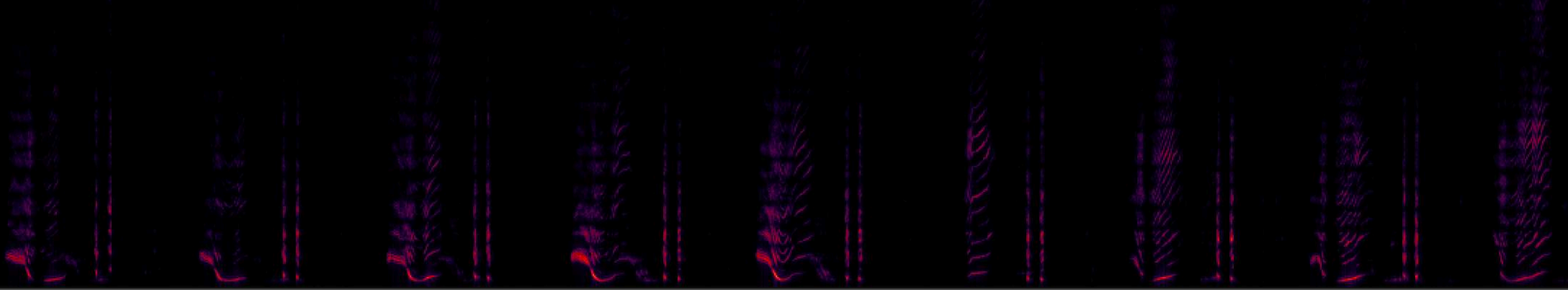


<https://youtu.be/R2EXs6wU2Rs>

CANTICUM MEGAPTERAE – Song of the Humpback Whale

compiled by
Inner Child

“Inspired by the beauty and structure of humpback whale songs, this album was made through collaboration between a scientist and artists. I invite you to dive into the world of sound through this album, in which each artist’s track represents one theme of a humpback whale song.”





<https://innerchildmusic.bandcamp.com/album/canticum-megapterae-song-of-the-humpback-whale-16-bit>

