

Building A Dictionary Of Humpback Whale Song Units As A Tool For Assessing Stock Interactions Summary

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Divna Djokic, J. Oña, Susannah Buchan, Ana Širović, Esteban Duque Mesa, et al.. Building A Dictionary Of Humpback Whale Song Units As A Tool For Assessing Stock Interactions Summary. World marine mammal conference 2019, Dec 2019, Barcelona, Spain. World Marine Mammal conference 2019. hal-02547084

HAL Id: hal-02547084

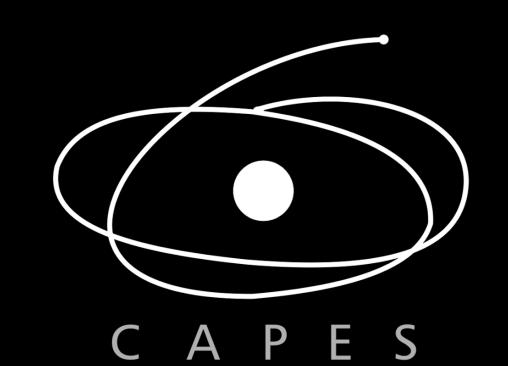
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Submitted on 27 Apr 2020

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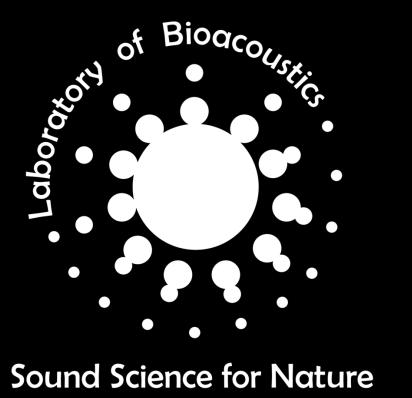
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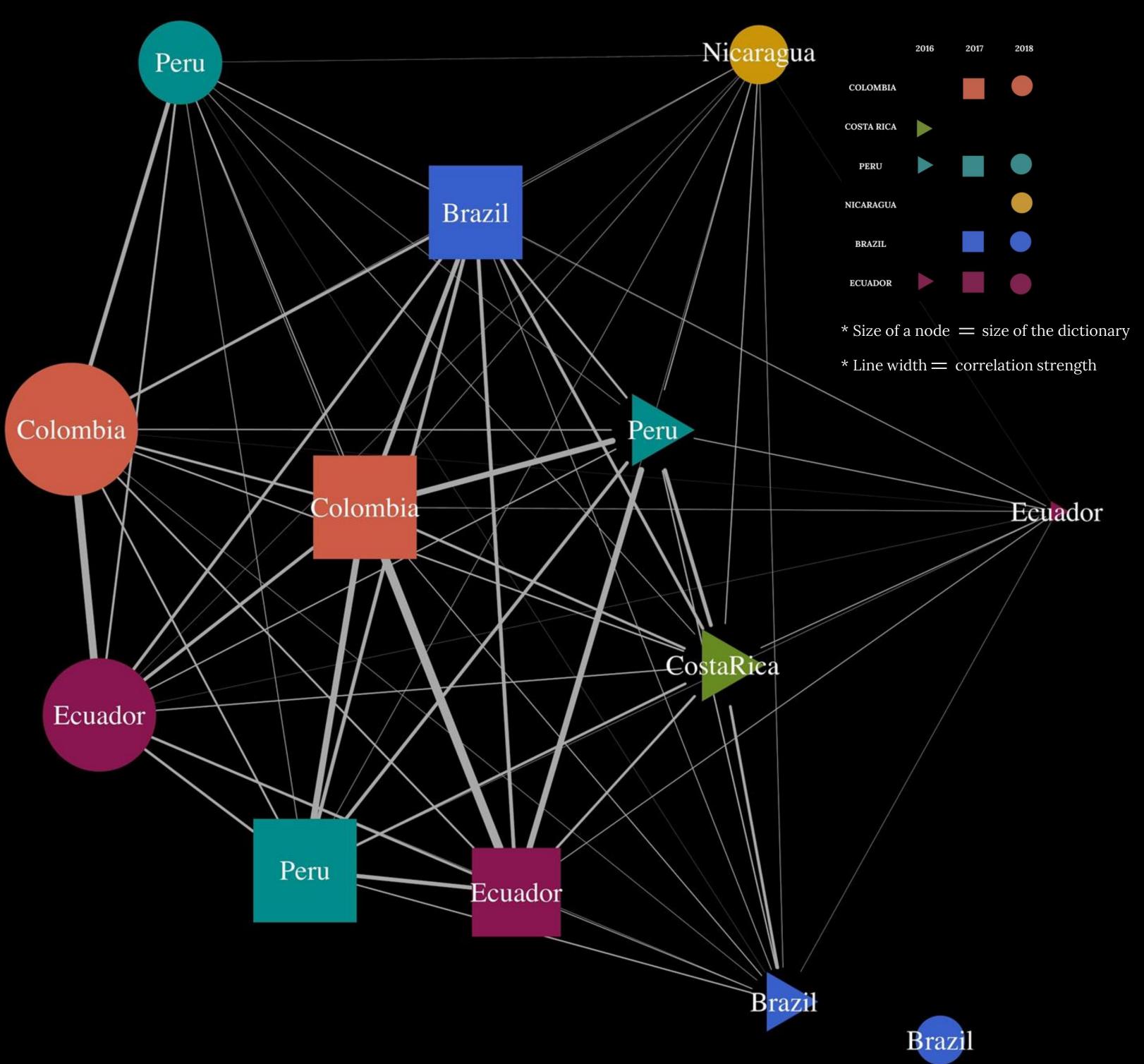


Building A Dictionary Of Humpback Whale Song Units As A Tool For Assessing Stock Interactions

Djokic, Divna, Oña, J., Buchan, S., Širović, A., Duque Mesa, E., May-Collado, L., Malige, F., Patris, J., Castro, C., Bouchard, B., Rossi Santos, M., Pacheco, A., Garland, E., Marcondes, M., Venturini, D., Baumgarten, J., Padovese, L., Gonçalves, MI., Sousa-Lima, R.

Summary:

Unit dictionary was built in order to compare the repertoires of humpback whale stocks A and G, breeding in South America, as an indicator of their interaction. Data were collected in 6 different locations on the continent, by various researchers. The graph is showing comparison of unit dictionary of two stocks in 3 consecutive years: 2016, 2017 and 2018.



Unit characteristics used to build the dictionary:



Conclusion:

Most striking observation from the graph is the interconnection of all the data (of different levels), except Brazil 2018. This is entirely new insight into whale culture, as connections of stocks breeding in different oceans are previously believed scarce. Additionally, total disconnection of data from Brazil 2018 directly implies of isolated song revolution. As all other dictionaries are connected to one another, it is hard to point out the exact song evolution flow direction. With its revolution, 2018 Brazilian song can be taken as a zero point for future studies, which might give a clue on the evolution flow direction. Nonetheless, cultural interaction (integrity) of two stocks is evident.

